STATE OF CALIFORNIA—BUSINESS, TRANSPORTATION AND HOUSING AGENCY ARNOLD SCHWARZENEGGER, Governor

DEPARTMENT OF TRANSPORTATION
DISTRICT 7, District Director
100 S. Main Street
LOS ANGELES, CA 90012-3606
PHONE (213) 897-4937
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Flex your power!
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March 24, 2008

Interested Party for NEPA review

File: City of Santa Clarita
Golden Valley Road Bridge Project
EA: 932589

Notice of Public Hearing and Availability of Environmental Assessment

The California Department of Transportation (Caltrans) and the City of Santa Clarita has completed the Draft Environmental Assessment to construct the Golden Valley Road Bridge over the Santa Clara River. The bridge, to be located within the City of Santa Clarita is needed to complete a critical segment of the Cross Valley Connector Corridor, and would improve traffic circulation patterns of the east-west routes between Interstate 5 and SR 126 in the West and SR 14 in the east of the project area. There are two alternatives discussed in the Environmental Document.

A Public Hearing will be held on April 23rd, 2008 from 6 to 8 PM, with a formal presentation at 6:30 PM at the City of Santa Clarita's City Council Chambers. The address is 23920 Valencia Boulevard, Santa Clarita, CA 91355. City and Caltrans staff will attend the meeting to answer any questions about the project.

The enclosed EA is being sent on CD along with a hard copy of the Project Summary. A copy of the technical reports may be viewed at the Santa Clarita Department of Community Development or the California Department of Transportation—District 7. A hard copy of the environmental document may also be viewed at the following locations:

- Caltrans, District 7, 100 S. Main Street, Los Angeles, CA 90012
- Los Angeles County Library—Valencia Branch, 23743 W. Valencia Blvd. Santa Clarita, CA 91355-2191
- Los Angeles County Library—Canyon Country Branch, 18601 Soledad Canyon Road Santa, Clarita, CA 91351-3721

The Draft EA may also be accessed from our website:

http://www.dot.ca.gov/dist07/resources/envdocs/

We will be pleased to answer any questions you may have with regard to this project. It may be to your advantage to view the project plans at the Public Hearing to clarify any questions you may have about the proposal. If you would like to comment on the Draft Environmental Document, please attend this meeting and/or submit written comments until May 5th, 2008 to:

Mr. Carlos Montez
Senior Environmental Planner
Caltrans Environmental Planning
District 7
100 South Main Street MS 16A
Los Angeles, CA 90012

If you have any questions, please contact Cameron Millard, (213) 897-0841. Thank you for your interest in this important transportation study.

Sincerely,

RON KOSINSKI
Deputy Director, Environmental Planning, Caltrans District 7

Enclosures

Golden Valley Road Bridge

LOS ANGELES COUNTY, CALIFORNIA

Environmental Assessment

Prepared by the
State of California
Department of Transportation and
City of Santa Clarita

The environmental review, consultation, and any other action required in accordance with applicable Federal laws for this project is being, or has been, carried out by Caltrans under its assumption of responsibility pursuant to 23 U.S.C. 327.

March 2008

Construct the Golden Valley Road Bridge over the Santa Clara River,
Connecting Golden Valley Road to Newhall Ranch Road

ENVIRONMENTAL ASSESSMENT

Submitted Pursuant to: 42 USC 4332(2)(C)

THE STATE OF CALIFORNIA
Department of Transportation

CITY OF SANTA CLARITA

The environmental review, consultation, and any other action required in accordance with applicable Federal laws for this project is being, or has been, carried out by Caltrans under its assumption of responsibility pursuant to 23 U.S.C. 327.

March 21, 2008
Date of Approval

Ron Kosinski
Deputy Director for Environmental Planning
District 7
California Department of Transportation

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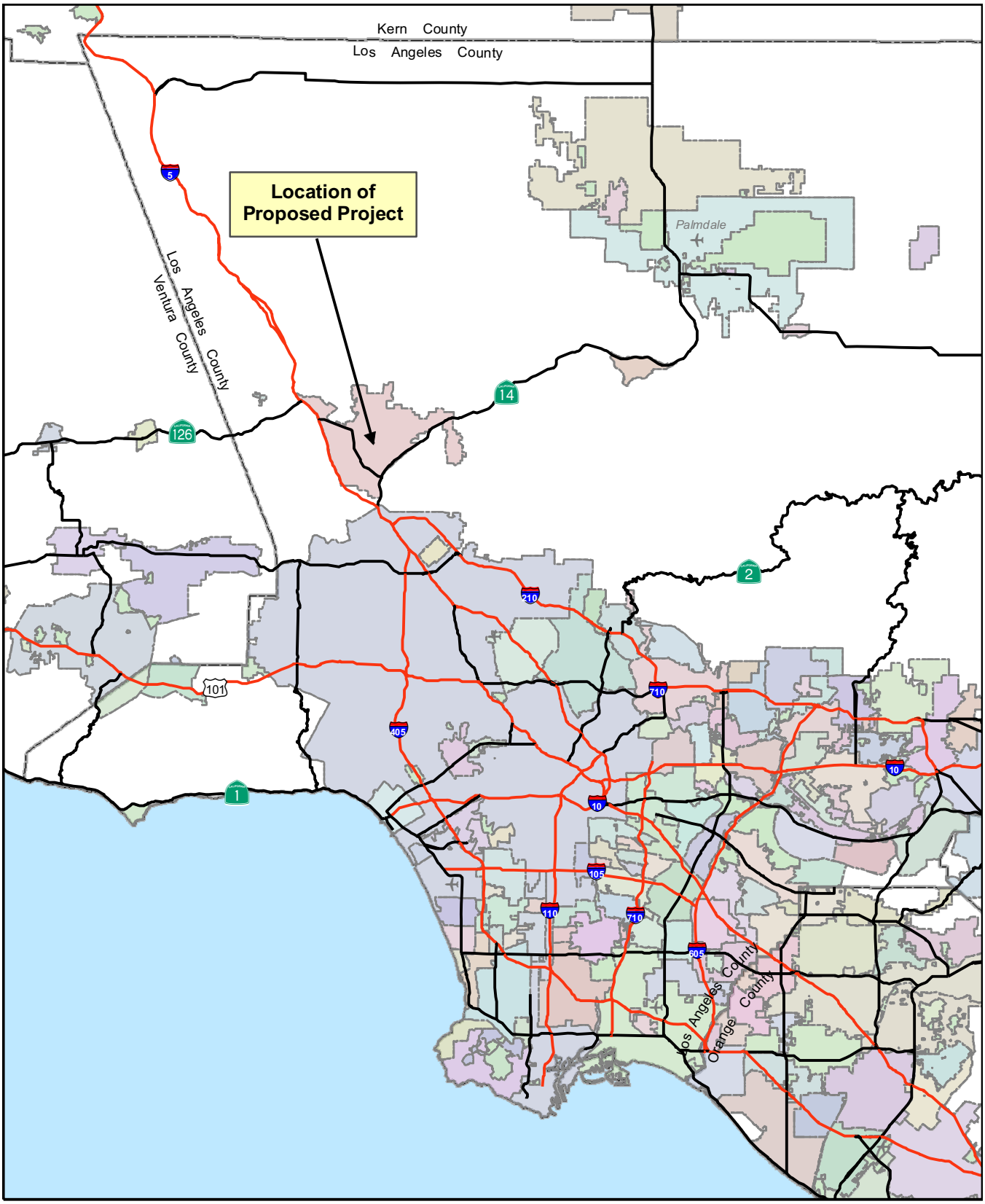
Chapter 1
Proposed Project

1.1 INTRODUCTION

The City of Santa Clarita, with oversight from the California Department of Transportation (Caltrans), under NEPA delegation responsibilities pursuant to 23 U.S.C. 327, is proposing to construct a 1,100-foot-long Golden Valley Road bridge over the Santa Clara River. The project is located within Santa Clarita in Los Angeles County, California (Figure 1-1). The Golden Valley Road Bridge Project (Federal Project Number LA0B103) is located east of the recently extended Newhall Ranch Road and north of Soledad Canyon Road (Figure 1-2). The proposed bridge would connect Newhall Ranch Road and Soledad Canyon Road.

The proposed project conforms to both the RTP and the RTIP. It is included in *Destination 2030: 2004 Regional Transportation Improvement Program (RTP) Appendix I, Project Lists*, on page I-31 and the *Final Adopted 2006 Regional Transportation Improvement Program (RTIP)* on page 32, of the Los Angeles County Local Highways Section as Santa Clarita project LA0B103 - Construct Golden Valley Road from Soledad Canyon to Newhall Ranch Road. 0 to 6 lanes. Less than 0.5 miles - includes bridge over Santa Clara River (SCAG 2006a). Both the RTP and RTIP were approved by federal agencies on October 2, 2006, and the USDOT adopted a Clean Air Act conformity determination for the RTIP on that date (USDOT 2006).

The project has already received CEQA clearance as part of the Riverpark housing development, the City Council of Santa Clarita certifying the Final Environmental Impact Report (FEIR) SCH #2002091081, including the mitigation monitoring and reporting program, and adopting a statement of overriding considerations on May 24, 2005. Caltrans reviewed the FEIS and sent notice to the City on March 15, 2007, finding the document to be consistent with the proposed bridge project under assessment within this NEPA document. Caltrans concurred with the cities' level of documentation under CEQA and is responsible for NEPA determination.



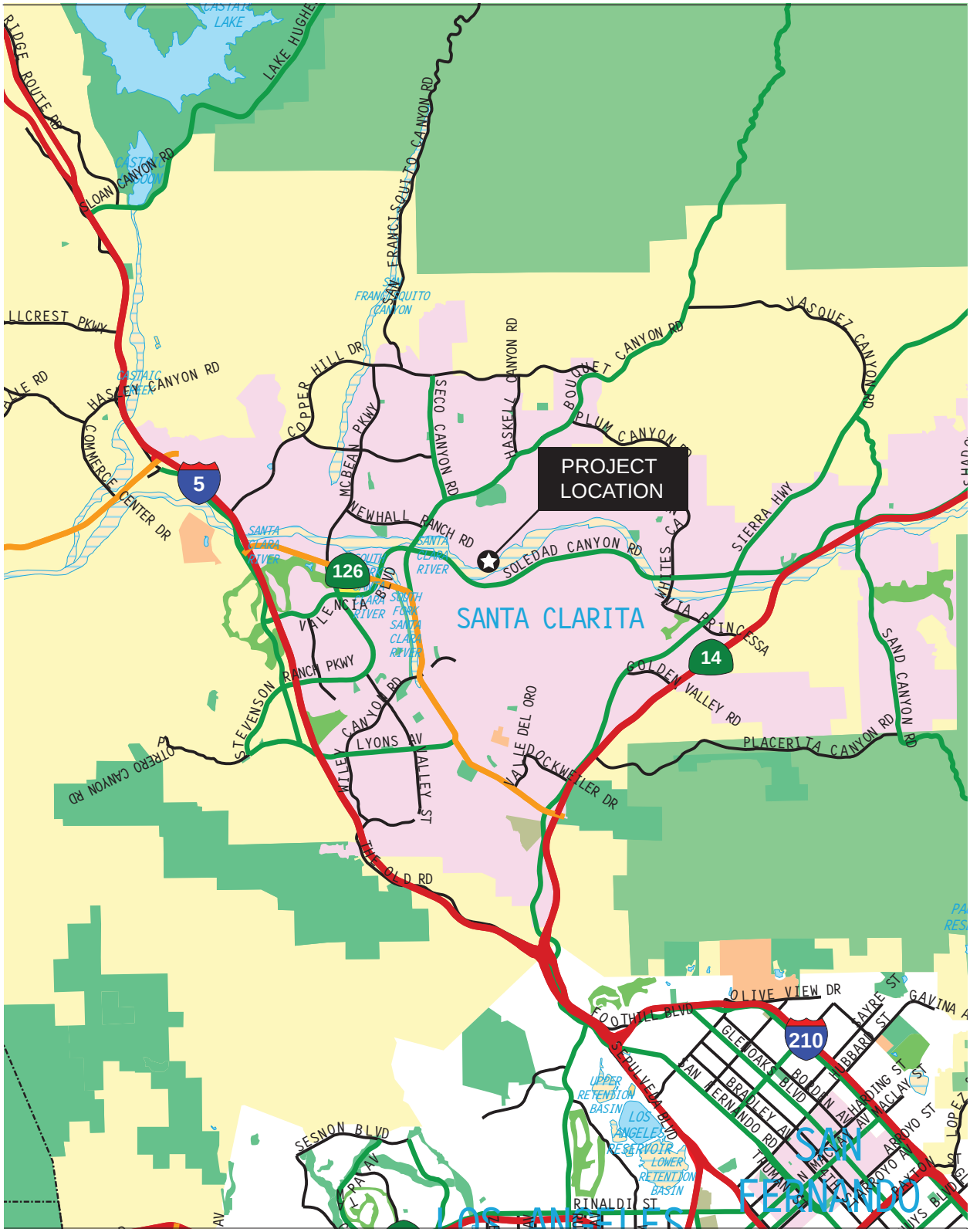
Source: California Geospatial Information Library, 2003-2005

Figure 1-1
Regional Location Map

N

0 5 10 20 Miles

1 inch equals 10 miles



0 1.125 2.25 4.5 Miles

1"= 2.25 Miles

Figure 1-2
Vicinity Map

1.2 PROJECT BACKGROUND

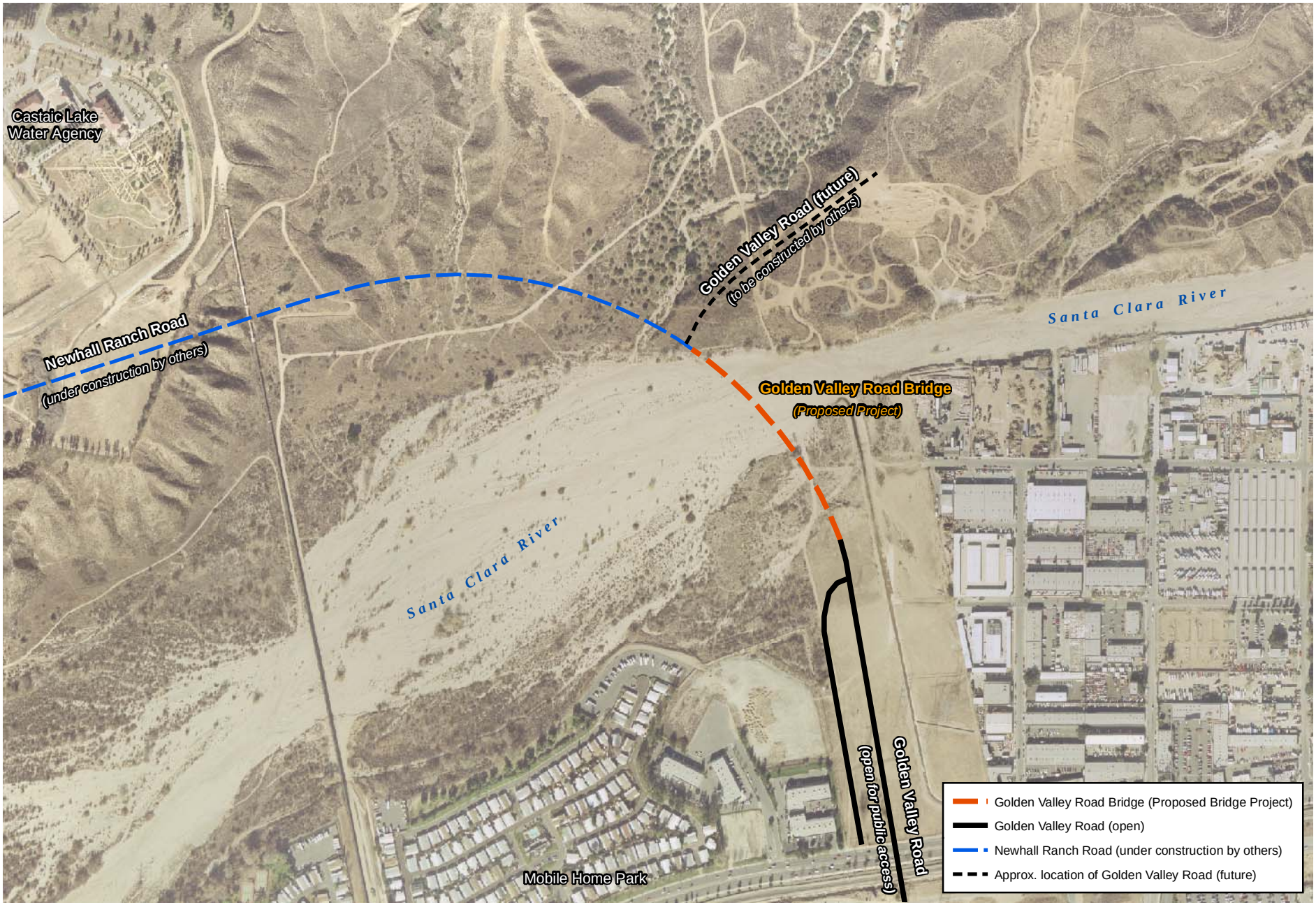
Project Location

The proposed Golden Valley Road Bridge Project is located entirely within the City of Santa Clarita and would entail the construction of a bridge structure over the Santa Clara River. The bridge would connect Soledad Canyon Road and the newly extended Newhall Ranch Road (Figure 1-3). The northern terminus of the proposed action would be the easternmost extent of Newhall Ranch Road, which is currently under construction to the northwest of the project site. Grading for the majority of Newhall Ranch Road is complete and construction is anticipated to conclude between October 2007 and April 2008. The southern terminus of the proposed action would lie at the northernmost extent of the Golden Valley Road/Soledad Canyon Road interchange, which was recently completed and was opened for public access in late 2005. Construction of the Golden Valley Road bridge would take approximately 18 months.

Although the majority of the surrounding land is currently vacant, the area will be developed in the future. Newhall Land Company constructed Riverpark, a residential and commercial development of over 1,000 dwelling units and 16,000 square feet of commercial space. Riverpark is located immediately northwest of the proposed bridge. Additionally, an existing mobile home park is located southwest of the project site, and utility lines run roughly north-south, parallel to the bridge alignment and separating the bridge from a mixed commercial/industrial development to the west.

Project History

The trend of past growth in Santa Clarita is anticipated to continue into the foreseeable future. According to the U.S. Census Bureau, the current population of Santa Clarita is 168,253 residents. The Southern California Association of Governments (SCAG) projects that the population will increase to 231,846 by 2030. The number of households is likewise anticipated to increase from 50,887 in 2004 to 82,806 by 2030, an average annual growth rate of 2.09 percent. This compares to average annual growth rates for the



Source: City of Santa Clarita 2002, 2005; FEMA 2006

N

625 312.5 0 625 Feet

1 inch equals 625 feet

Figure 1-3
Project Location Map

County of Los Angeles and SCAG region as a whole of 1.04 and 1.40 percent, respectively (SCAG 2004).

Current traffic demand in the project area meets or exceeds roadway capacity for many of the arterial roadways. Traffic demand is anticipated to increase over the next few years and a number of intersections would be expected to deteriorate to unacceptable LOS in the long term.

The proposed project is the construction of a bridge structure over the Santa Clara River which is one of six components planned or under construction that would comprise, along with previously completed roadway segments, what is known as the Cross Valley Connector (CVC). The CVC is an 8.5-mile roadway through Santa Clarita that would provide a cross-town connection between Interstate 5 (I-5) and State Route 14 (SR 14). The CVC segments and their status as of August 2007 are identified below and shown in Figure 1-4.

- I-5/State Route 126 (SR 126) interchange improvements – complete.
- Newhall Ranch Road from I-5 to Copper Hill Drive/Rye Canyon Road – complete; processing closeout with Caltrans Local Assistance.
- Newhall Ranch Road from Bouquet Canyon Road to north of the Santa Clara River – under construction.
- Golden Valley Road Bridge over Santa Clara River – the proposed action and the subject of this Environmental Assessment (EA).
- Golden Valley Road/Soledad Canyon Road interchange – complete, processing closeout with Caltrans Local Assistance.
- Golden Valley Road from SR 14 to Sierra Highway – complete.
- SR 14/Golden Valley Road bridge – planned bridge widening over SR 14 to be conducted by developer as condition of project approval, estimated design by spring 2008 and construction by the end of 2008.

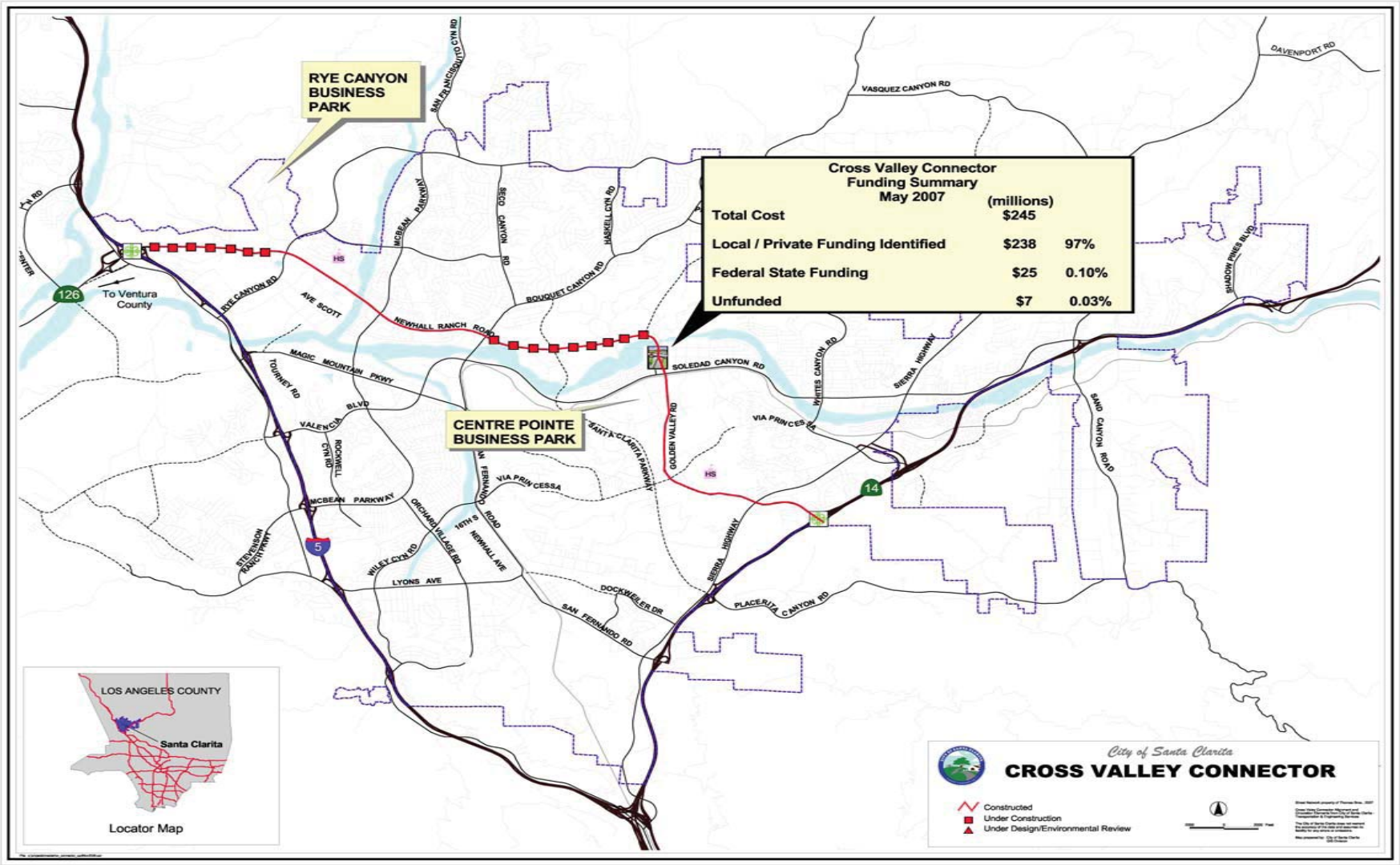


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Figure 1-4
Cross Valley Connector Components

The need for a CVC between I-5 and SR 14 has been identified in traffic studies since before the incorporation of Santa Clarita. In the 1980s, Caltrans studied the extension and realignment of SR 126 as the Cross Valley Freeway/Highway or Expressway. The Caltrans studies were the subject of much discussion between the City and various community-interest and neighborhood groups. As a result, some alignments for the road were rejected based on this public input, and the freeway concept was ultimately rejected by the City. However, the Caltrans study and other studies proved valuable over the years in determining feasible alignments across Santa Clarita for the CVC.

1.3 PROJECT PURPOSE AND NEED

Purpose

The purpose of the proposed project is to reduce traffic congestion along Soledad Canyon Road and Bouquet Canyon Road as an integral component of the CVC Corridor. The project would provide an alternative east-west route through Santa Clarita, eliminating out-of-direction travel and improving interregional travel through increased east-west connectivity. The completion of the proposed bridge and the CVC project would accomplish these objectives.

- Complete the missing segment to an additional east-west transportation corridor across the Santa Clara River by adding a bridge as specified in the City of Santa Clarita's General Plan;
- Improve local access to commercial and industrial areas within Santa Clarita and provide congestion relief in order to improve traffic flow;
- Reduce out-of-direction travel and improve interregional travel by improving east-west mobility.

Need

The proposed Golden Valley Road Bridge Project is needed to complete a critical segment of the CVC Corridor, which is included in the Santa Clarita General Plan (General Plan) Circulation Element. The CVC is planned to be an arterial east-west route

through the Santa Clarita Valley that would increase regional capacity by connecting I-5/ SR 126 in the west to SR 14 in the east. These proposed and planned features would improve patterns of circulation, movement of people and goods, and access control in the area. They would also have an important role in relieving congestion and accommodating the rate of population and employment growth being experienced in the Valley. The current east-west routes over the Santa Clara River currently have insufficient capacity for existing and forecasted traffic. The Final Traffic Report for the Golden Valley Road and Newhall Ranch Road projects is dated May 5, 2005. The existing traffic data was analyzed and Year 2005 traffic volumes were generated. Year 2030 traffic forecasts were developed by reviewing existing and future traffic demand forecasts. Traffic performance is classified by Level of Service (LOS), designated as LOS A through LOS F and are described in Table 1-1. At signalized intersections, LOS A is defined as optimal conditions with little congestion; LOS F is defined as failure, when incoming traffic exceeds the capacity of the intersection. The City has identified LOS D or better as acceptable.

Table 1-1
Street Segment Level of Service Threshold Descriptions

Level of Service	Technical Descriptors
A	Highest quality of service. Free traffic flow, low volumes and densities. Little or no restriction on maneuverability or speed. No delays.
B	Stable traffic flow, speed becoming slightly restricted. Low restriction on maneuverability. No delays.
C	Stable traffic flow, but less freedom to select speed, change lanes, or pass. Density increasing. Minimal delays.
D	Approaching unstable flow. Speeds tolerable, but subject to sudden and considerable variation. Less maneuverability and driver comfort. Minimal delays.
E	Unstable traffic flow with rapidly fluctuating speeds and flow rates. Short headways, low maneuverability, and low driver comfort. Significant delays.
F	Forced traffic flow. Speed and flow may drop to zero with high densities. Considerable delays.

Source: Caltrans 2007

Present Traffic

Under present (2005) traffic conditions, one of the analyzed intersections in the project vicinity operates at unacceptable conditions. As shown in Table 1-2, the Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard intersection operates at LOS F during the PM peak hour.

Table 1-2
Level of Service Calculations – Existing Conditions

Intersection	Weekday AM Peak Hour V/C – LOS	Weekday PM Peak Hour V/C – LOS
Bouquet Canyon Road/Newhall Ranch Road	0.880 D	0.830 D
Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard	0.760 C	1.040 F

Source: Katz, Okitzu & Associates 2005

Traffic Forecasts for No Build and Build Alternatives

The proposed bridge would provide a connection between the extended Newhall Ranch Road and Golden Valley Road. The No Build and Build traffic analyses demonstrate the redistribution of east-west traffic and the reductions in roadway volumes and intersection congestion.

Traffic Volumes

At present, east-west travel through the project vicinity occurs on Bouquet Canyon Road, northwest of Newhall Ranch Road, and on Soledad Canyon Road, south of Newhall Ranch Road. Table 1-3 summarizes existing and future traffic volumes for No Build and Build scenarios. Implementation of the proposed project would allow through travel on Newhall Ranch Road, resulting in reduced traffic volumes and improved intersection performance on Bouquet Canyon and Soledad Canyon Roads. Peak hour traffic volume reductions on Bouquet Canyon Road would range from approximately 6 to 21 percent; reductions on Soledad Canyon Road would range from approximately 15 to 39 percent; see Table 1-1.

Table 1-3
No Build and Build Roadway Volumes

Roadway Segment	Direction	Existing Traffic Volume (2005) (vehicles/hour)	Future Traffic Volume Without Project (2030) (vehicles/hour)	Future Traffic Volume With Project (2030) (vehicles/hour)	Approximate Percentage Reduction in Volume
AM peak hour					
Bouquet Canyon Rd.					
Newhall Ranch Rd. to Santa Clarita Pkwy.	WB	3,200	2,800 to 3,400	2,400 to 3,200	6 to 14 %
	EB	1,000	1,200 to 1,300	1,100 to 1,200	8%
East of Santa Clarita Pkwy.	WB	n/a	3,900	3,300	15%
	EB	n/a	1,200	1,100	8%
Soledad Canyon Rd.					
San Fernando Rd. to Santa Clarita Pkwy.	WB	2,700	2,500 to 2,600	2,000 to 2,200	15 to 20 %
	EB	1,500	1,300	800 to 900	31 to 39 %
East of Santa Clarita Pkwy.	WB	n/a	2,700	2,300	15%
	EB	n/a	1,700	1,100	35%
PM peak hour					
Bouquet Canyon Rd.					
Newhall Ranch Rd. to Santa Clarita Pkwy.	WB	1,700	1900	1,600	16%
	EB	3,400	2800 to 3,500	2,200 to 3,100	11 to 21 %
East of Santa Clarita Pkwy.	WB	n/a	2,100	1,800	14%
	EB	n/a	3,800	3,300	13%
Soledad Canyon Rd.					
San Fernando Rd. to Santa Clarita Pkwy.	WB	2,000	1,700 to 2,100	1,200 to 1,300	29 to 38 %
	EB	2,700	2,700	2,100 to 2,200	19 to 22 %
East of Santa Clarita Pkwy.	WB	n/a	2,500	1,600	36%
	EB	n/a	3,100	2,400	23%

Traffic volumes rounded to the nearest hundred.
Source: KOA 2005

Intersection Performance

Future conditions are based upon Year 2030 No Build and Build scenarios (see Table 1-4 and Table 1-5). Under No Build conditions, the Bouquet Canyon/Santa Clarita Parkway intersection would operate at LOS E in the PM peak hour, and the Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard intersection would operate at LOS E or F during both peak hours. With implementation of the project and reduction of volumes on Bouquet Canyon Road and Soledad Canyon Road, both of these intersections would operate at an acceptable LOS D or better.

Table 1-4
Level of Service Calculations – No Build Conditions (Year 2030)

Intersection	Weekday AM Peak Hour V/C – LOS	Weekday PM Peak Hour V/C – LOS
Bouquet Canyon Road/Santa Clarita Parkway	0.810 D	**09.60 E**
Bouquet Canyon Road/Newhall Ranch Road	0.880 D	0.810 D
Santa Clarita Parkway/South of Soledad Canyon Road (Grade Separated)	0.610 B	0.730 C
Soledad Canyon Road/East of Santa Clarita Parkway (Grade Separated)	0.640 B	0.860 D
Soledad Canyon Road/Santa Clarita Parkway (at grade)	0.820 D	0.850 D
Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard	**0.920 E**	**1.070 F**

Source: Katz, Okitsu & Associates 2005

Table 1-5
Level of Service Calculations – With Proposed Action (Year 2030)

Intersection	Weekday AM Peak Hour V/C – LOS	Weekday PM Peak Hour V/C – LOS
Bouquet Canyon Road/Santa Clarita Parkway	0.720 C	0.870 D
Bouquet Canyon Road/Newhall Ranch Road	0.840 D	0.830 D
Santa Clarita Parkway/Newhall Ranch Road	0.750 C	0.800 C
Golden Valley Road/Newhall Ranch Road	0.590 A	**0.940 E**
Santa Clarita Parkway/South of Soledad Canyon Road (Grade Separated)	0.510 A	0.630 B
Soledad Canyon Road/East of Santa Clarita Parkway (Grade Separated)	0.540 A	0.690 B
Soledad Canyon Road/Santa Clarita Parkway (at grade)	0.820 D	0.740 C
Soledad Canyon Road/Valley Center Drive	0.720 C	0.640 B
Golden Valley Road/Valley Center Drive	0.640 B	0.580 A
Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard	0.790 C	0.900 D

Source: Katz, Okitsu & Associates 2005

1.4 PROJECT ALTERNATIVES

Two alternatives are under consideration in this document: the Build Alternative (Alternative 1) and the No Build Alternative (Alternative 2). The No Build Alternative is required by NEPA. The environmental effects associated with the No Build Alternative are discussed in Chapter 2 of this document. Project approval or selection of the No Build Alternative will not be made until after the full evaluation of environmental impacts, full consideration of public hearing comments, and approval of this document.

Alternative 1 – Build Alternative

The City of Santa Clarita, with oversight from Caltrans, is proposing to construct a 1,100-foot-long bridge over the Santa Clara River. The proposed typical section of the bridge would include a six-lane roadway and sidewalk. A 16-foot median between the lanes would not be constructed as part of the project but may be constructed in the future. Two-way bicycle lanes would be provided on the outside edge of the western side of the bridge and connect to a bicycle route. The location and design of the bicycle lanes is consistent with all major thoroughfares in the City and part of a city-wide layout for bicycle paths. The total curb-to-curb width of the bridge would be approximately 80 feet with a total right-of-way (ROW) width of approximately 120 feet (see Figures 1-5 and 1-6). ROW needed would be donated by Newhall Land Company. The proposed bridge would have an architectural design for the exterior sides which reflects an image of an oak tree and rolling hills.

The proposed project would connect to Newhall Ranch Road, located northwest of the project site, and Golden Valley Road, south of the project site. Newhall Ranch Road is currently under construction by others and is not part of the proposed project. The proposed project would complete the CVC Corridor, a series of projects sponsored by the City to provide an east-west travel route connecting SR 14 and I-5 across the Santa Clarita Valley. As indicated in Figure 1-1, the northern terminus of the proposed project would be the easternmost extent of Newhall Ranch Road. Grading for the majority of Newhall Ranch Road is complete and construction is anticipated to be complete between October 2007 and April 2008. The southern terminus of the proposed project would lie at the northernmost extent of the Golden Valley Road/Soledad Canyon Ranch interchange, which has recently been completed but is not yet open for public access.

Alternative 2 – No Build Alternative

The No Build Alternative would mean that the proposed Golden Valley Road bridge would not be constructed, and the current local and regional circulation system would remain unimproved. Thus, the proposed alternate east-west route between Soledad

Canyon Road and Newhall Road would not be established, and an essential portion of the CVC Corridor would not be completed. In addition, a key link of the CVC Corridor from SR 14 to I-5, across the central Santa Clarita Valley, would not be established.

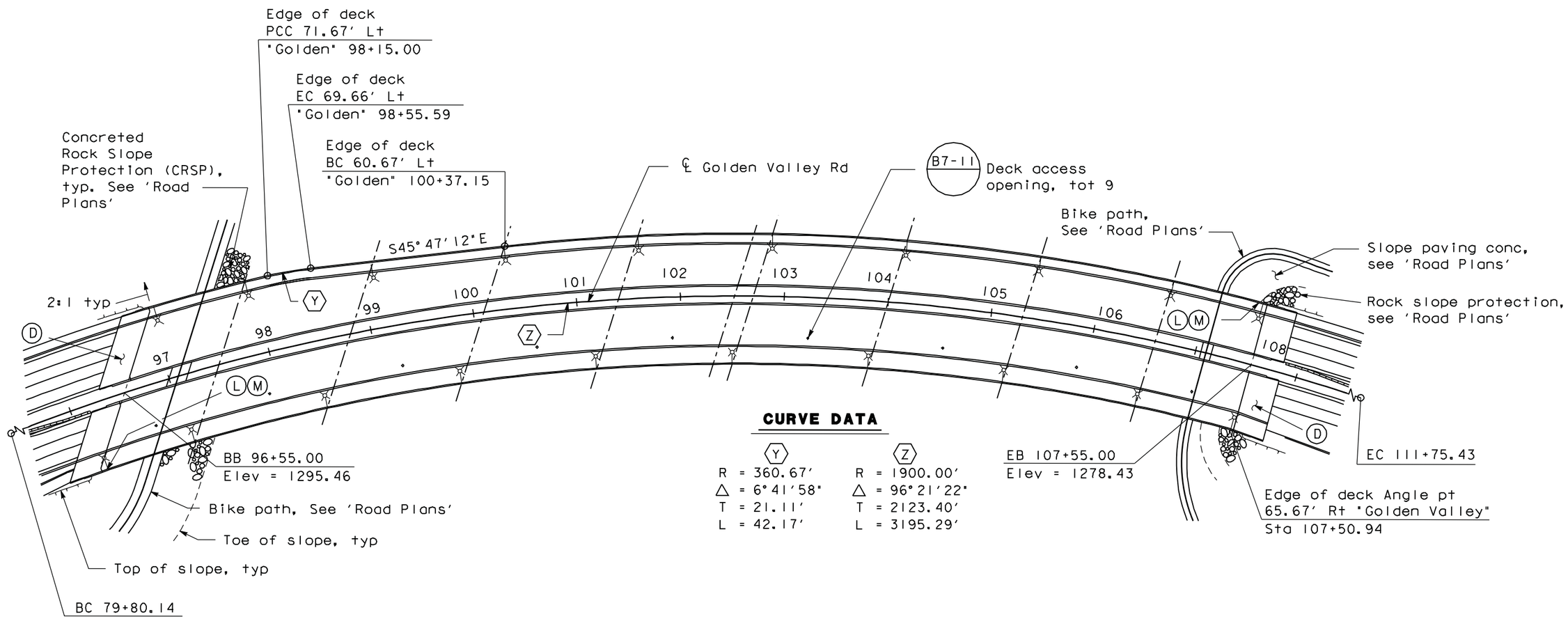
1.5 PERMITS AND APPROVALS NEEDED

Natural River Management Plan

On November 30, 1998, the Army Corps of Engineers (ACOE), California Department of Fish and Game (CDFG), and California Regional Water Quality Control Board (RWQCB) approved the Natural River Management Plan (NRMP) for the Santa Clara River. The NRMP is a long-term master plan that allows construction of various infrastructure improvements on lands adjacent to the Santa Clara River and portions of two of its tributaries. The NRMP covers the reaches of the Santa Clara River from Castaic Creek to 0.5 mile east of the Los Angeles Department of Water and Power Aqueduct. Portions of San Francisquito Creek and the Santa Clara River South Fork are also included in the NRMP. The proposed Golden Valley Road bridge would be located within a portion of the river subject to the NRMP, and the project is listed as one covered by the NRMP.

The NRMP and the corresponding certified Environmental Impact Statement/ Environmental Impact Report (EIS/EIR)[1] analyze impacts associated with implementation of various infrastructure improvements (bank stabilization, roads, bridges, utility crossings, storm drain outlets, etc.) along and within portions of the Santa Clara River adjacent to Newhall Land Company properties, including the Riverpark project site.

[1] California Department of Fish and Game and U.S. Army Corps of Engineers, *Final Environmental Impact Statement/Environmental Impact Report 404 Permit and 1603 Streambed Alteration Agreement for Portions of the Santa Clara River and its Tributaries (1998)*



Source: Dokken Engineering 2007

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Figure 1-5
Plan of the Proposed Bridge

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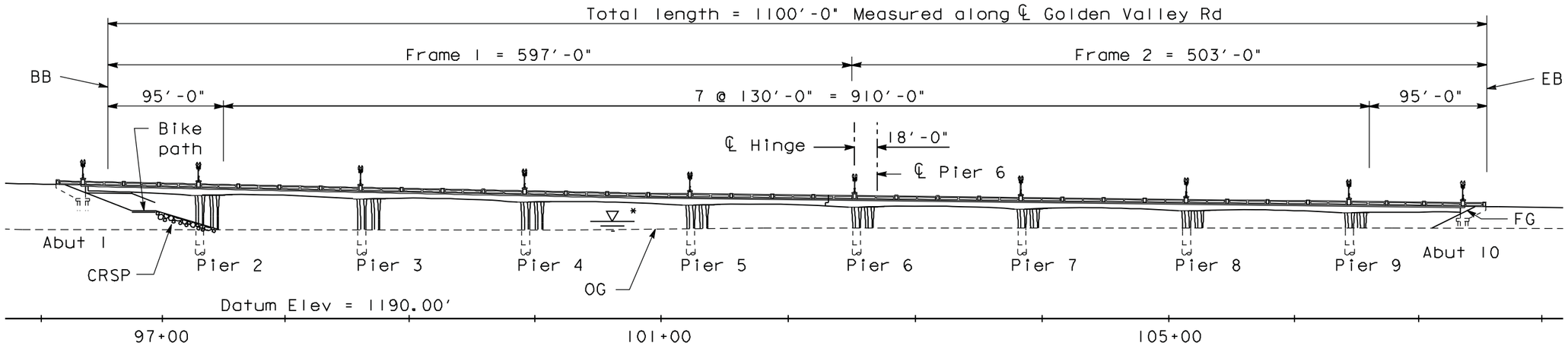

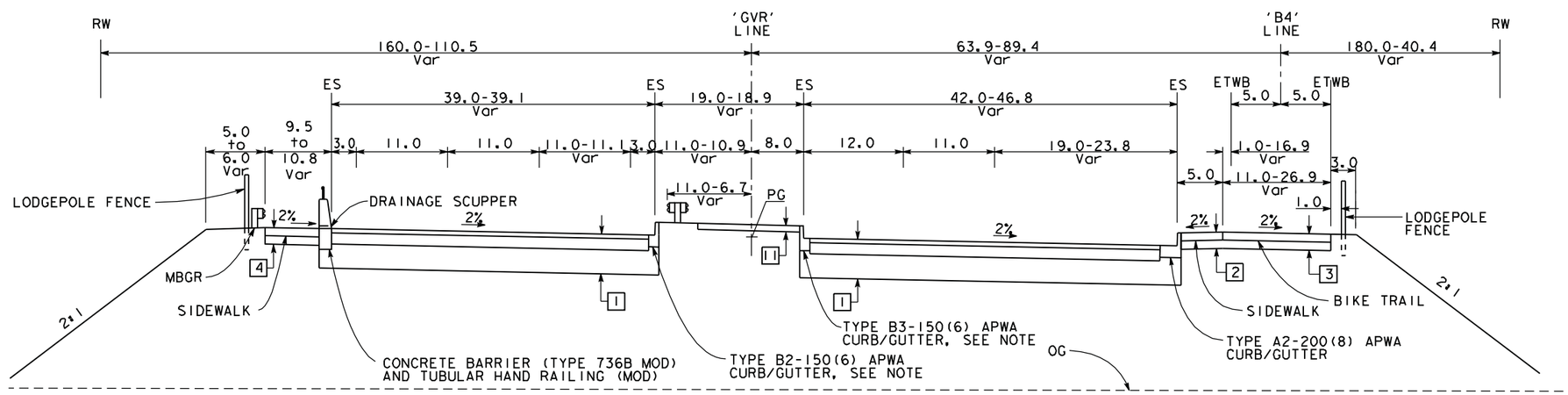

Source: Dokken Engineering 2007

NOT TO SCALE

Figure 1-6
Profile and Typical Section of the Proposed Bridge

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In connection with this approval, the following permits were issued by the following agencies:

- ACOE Permit No. 94-00504-BAH under Section 404 of the federal Clean Water Act. Section 404 of the federal Clean Water Act allows for certain activities that result in the discharge of fill or dredged materials into "waters of the U.S." or, in this case, the Santa Clara River. Prior to issuing this permit, the ACOE had completed an endangered species consultation (pursuant to Section 7 of the Federal Endangered Species Act [FESA]) with the U.S. Fish and Wildlife Service (USFWS).
- CDFG 1603 Streambed Alteration Agreement No. 5-502-97 and Incidental Take Permit No. 2081-1998-49-5. The Streambed Alteration Agreement allows for activities that alter the "…natural flow or change the bed, channel, or bank of the river…" The Incidental Take Permit applies to all state listed species pursuant to Fish and Game Code Section 2081(b).
- RWQCB Los Angeles Region – Order No. 99-104 related to waste discharge associated with the improvements included in the NRMP.

In 2001, a southwestern arroyo toad (*Bufo californicus*) was discovered within the NRMP boundary – west of the confluence of San Francisquito Creek and the Santa Clara River, approximately 3 miles west of the proposed project. This necessitated additional consultation under Section 7 of the FESA with the ACOE and USFWS. Some areas of the Santa Clara River were excluded from this consultation, as they lacked the necessary habitat requirements for the arroyo toad. This consultation, along with the preparation of a Biological Opinion (dated November 15, 2002), resulted in modification of the 1998 ACOE Section 404 Permit (issued June 23, 2003) to include provisions for the protection of the arroyo toad in the affected NRMP area. A Biological Opinion is the document that states the opinion of the USFWS as to whether or not a proposed action is likely to jeopardize the continued existence of a listed species or result in the destruction or adverse modification of critical habitat.

Permits Required

To implement the proposed project, the City may need to comply with a variety of additional environmentally related federal and state regulatory and approval processes. In some instances, a finding or determination on the part of a reviewing agency concludes the process, while in other instances, an actual permit is issued. Because the NRMP EIR has been completed and certified, and the proposed project falls within the description of allowable projects per the NRMP, the City has already satisfied the provisions for Sections 404, 401, and 1600 permits from the ACOE, RWQCB, and CDFG, respectively, under the NRMP. The remaining regulatory processes the project would need to comply with are discussed below.

- **Executive Order 11990 – Protection of Wetlands** – The Golden Valley Road bridge would affect wetlands in the Santa Clara River. Consequently, it would be necessary to make a finding that (1) there is no practicable alternative to construction, and (2) that the proposed action includes all practicable measures to minimize impacts to wetlands resulting from such use.

- **General Bridge Act – Regulation of Bridges Crossing Navigable Waters** – The proposed action would entail construction of a bridge crossing a navigable waterway. As such, a Bridge Permit must be applied for and obtained from the U.S. Coast Guard.

- **Executive Order 11988 – Floodplain Management** – As the project involves encroachment in a floodplain, current procedures require that a floodplain finding be made to comply with Executive Order 11988. The finding must be attached to the final environmental documentation. The construction of the proposed bridge would encroach upon and increase the elevation of the existing floodplain immediately upstream of the proposed bridge; however, the increase would not exceed the Federal Emergency Management Agency (FEMA) 100-year floodplain boundary. Section 2.6 describes floodplain effects in greater detail.

Although typically needed for such projects, a Section 7 consultation under the FESA would not be needed for the proposed bridge. As the federal lead agency for the Golden

Valley Road Bridge, Caltrans must ensure that project implementation "...is not likely to jeopardize the continued existence of any endangered species or threatened species or result in the destruction or adverse modification of the habitat of such species." No federally endangered species were identified through biological surveys; consequently, a Section 7 consultation would not be required. Letters, summarizing the survey efforts and results, were forwarded to the USFWS in November 2006. Copies of this correspondence are included in Appendix A.

1.6 RELATED PROJECTS AND CUMULATIVE DEVELOPMENT

Cumulative impacts are those that result from past, present, and reasonably foreseeable future actions, combined with the potential impacts of this project. A cumulative effect assessment looks at the collective impacts posed by individual land use plans and projects. Cumulative impacts can result from individually minor, but collectively substantial impacts taking place over a period of time.

Cumulative impacts to resources in the project area may result from residential, commercial, industrial, and highway development, as well as from agricultural development and the conversion to more intensive types of agricultural cultivation. These land use activities can degrade habitat and species diversity through consequences such as displacement and fragmentation of habitats and populations, alteration of hydrology, contamination, erosion, sedimentation, disruption of migration corridors, changes in water quality, and introduction or promotion of predators. They can also contribute to potential community impacts identified for the project, such as changes in community character, traffic patterns, housing availability, and employment.

A definition of cumulative impacts under NEPA can be found in 40 CFR, Section 1508.7 of the Council on Environmental Quality Regulations. Table 1-6 includes projects in the vicinity of the proposed project that are planned, approved, or being constructed.

Table 1-6
Related Projects in the Vicinity of the Proposed Project

No.	Project Name	Location	Description	Status
1	Riverpark	Adjacent to Newhall Ranch Road, east of Bouquet Canyon Road	1,089 dwelling units and 16,000 square feet of commercial development	Rough grading
2	Gate King Industrial Park	South of San Fernando Road between Pine Street and Sierra Highway	Subdivision of 584 acres into 88 industrial lots for 4.2 million square feet of industrial building and dedication of 239 acres of open space to the City	Approved
3	West Creek		2,545 dwelling units, 180,000 square feet of commercial retail, 10-acre elementary school, 6.4 acres of recreational facilities	County development; in progress
4	Golden Valley Ranch	Southwest of Santa Clarita, east of SR 14 and north of Placerita Canyon Road	1,311 acres of planned community – 488 single-family, 2 commercial lots, 1 school lot, and 1 fire station site	In progress; fine grading and construction
5	Porta Bella or Whitaker-Bermite (partial)	South of Soledad Canyon Road, east of Circle J Ranch area	2,911 dwelling units and 92 acres of commercial development on 996 total acres	Approved
6	Tesoro del Valle	North of Copper Hill Drive, west of McBean Parkway	1,791 dwelling units, 10-acre commercial center, and elementary school	County development
7	Synergy Ermine Street	West of Ermine Street, east of Riverpark site and north of the Santa Clara River	116.71-acre residential site/ 499 residential units, YMCA site, and school site	Approved by City Council
8	Valencia Town Center	East of McBean Parkway, north of Valencia Boulevard, south of Magic Mountain Parkway and west of Citrus Street	540,000-square-foot expansion of existing shopping mall	In entitlement review
9	Soledad Marketplace	West of Golden Valley Road and south of Golden Triangle Road	100,000-square-foot commercial shopping center	Under construction
10	Bridgeport Marketplace	Northeast corner of Newhall Ranch Road and McBean Parkway`	130,000-square-foot commercial shopping center	Under construction
11	Soledad Townhomes	North side of Soledad Canyon between Bouquet Valley Road and Golden Valley Road	409 attached multi-family condominiums and 10,000 square feet of commercial development	Approved
12	Henry Mayo Newhall Memorial Hospital	23845 and 23929 McBean Parkway	Addition of 694,659 square feet to the medical campus	Planning/EIR preparation

No.	Project Name	Location	Description	Status
13	Downtown Newhall Specific Plan	Downtown Newhall		Approved and adopted
14	The Master's College	21726 Placerita Canyon Road	Master plan for future development of campus	Planning/EIR preparation
15	Valuzat Residential project	Northwest corner of Golden Valley Road and Sierra Highway	Subdivision for nine single-family homes	Planning preparation

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Chapter 2
Affected Environment, Environmental Consequences, and Mitigation

As part of the scoping and environmental analysis conducted for the action, the environmental issues described in Table 2.0-1 were considered but no adverse effects were identified. Consequently, there is no further discussion regarding these issues in this document.

Table 2.0-1
Environmental Issues Excluded from Further Evaluation

Issue Area	Reason for Exclusion
Farmlands/Agricultural Lands	In accordance with the requirements of the Farmland Protection Policy Act (1981) for actions involving a federal action, a Farmland Conversion Impact Rating Form (Form AD-1006) was submitted to the Natural Resource Conservation Service (NRCS). Based on the most recent survey of important farmlands for the County of Los Angeles, the NRCS concluded that no areas of prime farmland, farmland of statewide importance, unique farmland, or farmland of local importance are located within the limits of the proposed bridge. As Santa Clarita is becoming more urbanized, agriculture is not expected within the bridge area or vicinity in the future.
Cultural Resources	The Historic Property Survey Report for the Cross Valley Connector Project, which was prepared in 2005 (EDAW 2005) and approved by the California Department of Transportation in April 2005, identified the Area of Potential Effects (APE) for this action as the area within which it is anticipated that bridge construction and staging would be confined. The report found no cultural resources in the APE.
Paleontology	There are no known paleontological sites in the vicinity of the proposed action. Given the degree of disturbance from the meandering river course, the likelihood of paleontological resources would be minimal.
Noise	A noise analysis screening for the Golden Road Valley Road Bridge in August 2006 (EDAW 2006d). The screening showed no potentially impacted noise receivers adjacent to or near the action area. Therefore, no further analysis was necessary.

Chapter 2 is divided into three broad topics, discussing the human, physical, and biological environment. These topics are evaluated under the following headings:

Human Environment

- Land Use
- Community Impacts
- Utilities/Emergency Services
- Traffic and Transportation, Pedestrian and Bicycle Facilities
- Visual/Aesthetics

Physical Environment

- Hydrology and Floodplain
- Water Quality and Stormwater Runoff
- Geology/Soils/Seismic/ Topography
- Hazardous Waste and Materials
- Air Quality

Biological Resources

- Natural Communities
- Wetlands and Waters of the U.S.
- Plant Species
- Animal Species
- Threatened and Endangered Species
- Invasive Species

For each environmental issue in Chapter 2, the analysis and discussion is organized into four subsections as described below:

- *Regulatory Setting* – This subsection provides a summary of the federal, state, and local regulatory parameters pertinent to each topic area.
- *Affected Environment* – This subsection describes the physical environmental conditions in the vicinity of the proposed action. The environmental setting establishes the baseline conditions, which determines whether specific action-related impacts are adverse.
- *Environmental Effects* – This subsection provides detailed information on the environmental effects of the proposed action during construction and operations phases, and analyzes the level of significance of the proposed action's effects.
- *Avoidance, Minimization, and/or Mitigation Measures* – This subsection identifies potentially feasible avoidance, minimization, and/or mitigation measures that would avoid or substantially reduce adverse action-related impacts.

HUMAN ENVIRONMENT

2.1 LAND USE

2.1.1 Regulatory Setting

City of Santa Clarita General Plan

The General Plan, adopted on June 26, 1991, provides the framework for development in Santa Clarita. The Land Use and Circulation Elements are particularly relevant to the proposed action and are discussed below.

Land Use

The Land Use Element of the General Plan designates the locations of commercial, industrial, and residential uses throughout the City. It also provides policy statements that guide the appropriate development of infrastructure and public services and facilities to support the individual communities within the City, including Newhall, Valencia, Saugus, Canyon Country, Placerita Canyon, and Castaic. The proposed Golden Valley Road Bridge Project is located in the communities of Canyon Country and Newhall. Land uses are described in several categories: Residential, Commercial, Industrial, Public Facilities, Park, Open Space, College, Oil and Mining, and Vacant.

The Land Use Element provides the City's policy regarding long-range and immediate considerations regarding future development. Several policy statements from this element are relevant to the proposed action, including the following.

Policy 1.8: Encourage the concept of traffic mitigation agreements that provide a variety of transportation options including but not limited to automobiles, transit, commuter trains, light rail, and bicycle pathways.

Policy 2.11: Provide for the reservation of adequate land to meet projected institutional and infrastructure needs.

Policy 2.12: Promote the retention of open space to preserve significant ridgelines, to provide land use buffers, and to provide for both public safety and oak tree preservation.

Policy 5.2: Ensure that new development, grading, and landscaping are sensitive to the natural topography and major landforms in the planning area.

Policy 5.3: New development must be sensitive to the significant ecological areas (SEAs) through utilization of creative site planning techniques to avoid and minimize disturbance of these and other sensitive areas.

Policy 5.6: Preserve and protect oak and mature specimen size trees and other endangered indigenous plant and animal communities, from excessive and incompatible development.

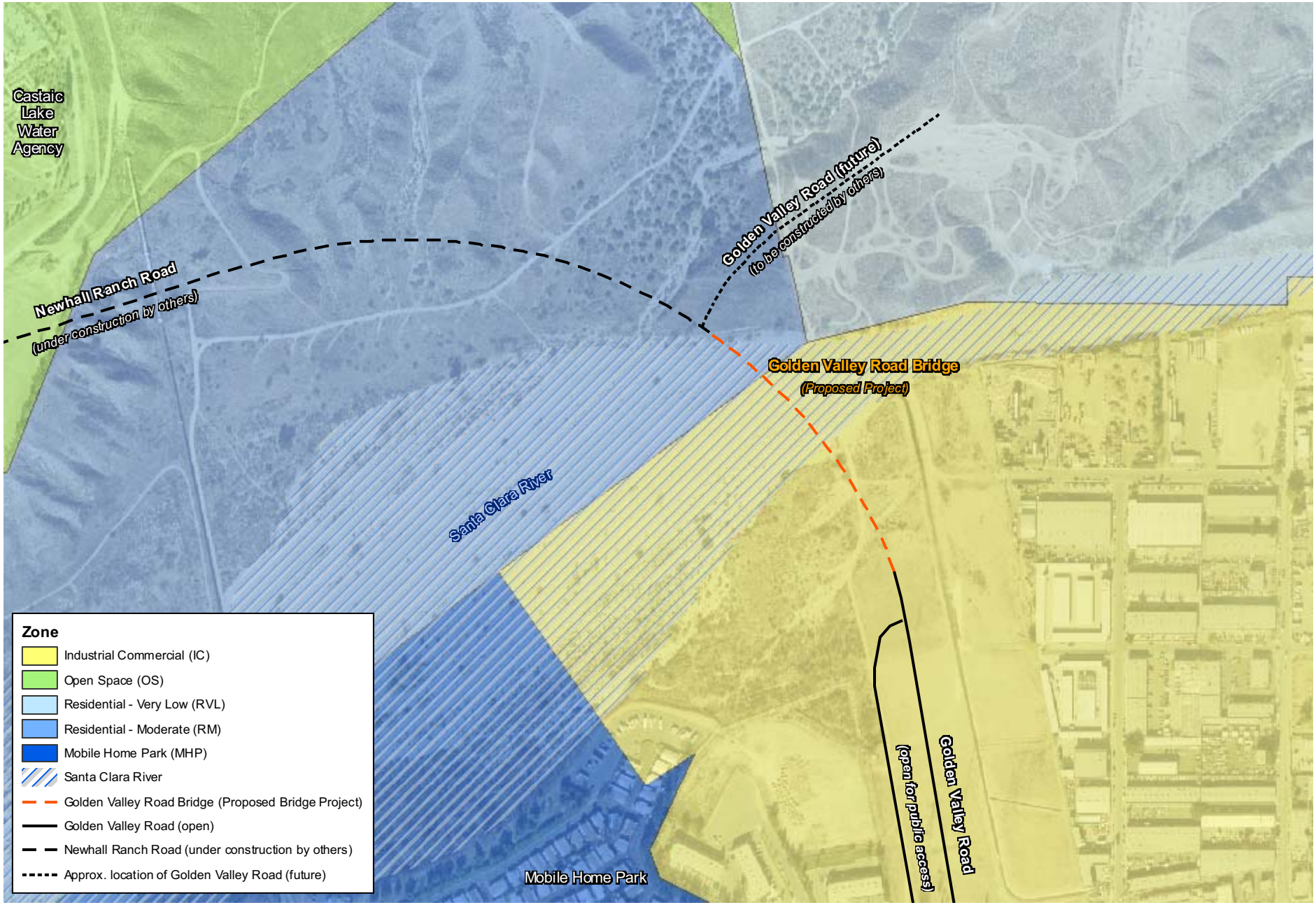
Policy 5.8: Preserve and protect designated wildlife corridors from undue encroachment and disruption.

Two specific land use designations partially cover the proposed project area, including an SEA and a Potential Wildland Fire Hazard Area. These are discussed below.

Santa Clarita Municipal and Unified Development Code (MUDC)

The Santa Clarita MUDC is another vehicle by which land use and development are regulated throughout the City through the use of ordinances and zones covering specific areas of land. This development code is the means by which the general plan policies, including the land use and circulation policies outlined above, are implemented.

Figure 2.1-1 indicates current zoning within and surrounding the proposed project site. The northern 260 feet of the proposed bridge would be located in a Residential Moderate zone, which permits attached dwellings, such as duplexes, triplexes, and fourplexes with densities of up to 11.0 dwelling units per acre, and mobile home parks. The southern 850 feet of the proposed bridge is in an Industrial Commercial zone. This zone permits a



Source: City of Santa Clarita, 2002, 2005

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1 inch equals 500 feet
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Figure 2.1-1
Surrounding Land Use Zones

limited range of low patronage commercial uses, quasi-industrial, and light industry (MUDC §17.11.020).

Northeast of the bridge site, a Residential Very Low zone encourages large custom single-family homes with a maximum density of one dwelling unit per gross acre, with the intention of retaining the rural character of a number of neighborhoods (MUDC §17.11.020). Southwest of the bridge site lies a Mobile Home Park zone (MUDC §17.16.010), which encourages the creation of new mobile home parks and the preservation of existing mobile home parks. Farther west and north, an Open Space zone is designated to promote open space for recreational use and the protection of natural resources, and to protect areas of fire, geologic, seismic, or flood hazard by restricting intensive development (MUDC §17.11.020). The Open Space zone permits low density and temporary accommodation, horticulture, and recreational facilities.

Significant Ecological Area (SEA)

The County of Los Angeles General Plan (County of Los Angeles 1993) provides guidelines for the future resource allocation across the county. The document provides the regulatory framework for SEAs, a designation that provides protection in conjunction with the Land Use and Open Space Elements of the County's General Plan. The Santa Clara River is designated as a natural wild river, as identified in SEA Number 23 by the County of Los Angeles. A portion of the Santa Clara River is designated as Open Space in the City's General Plan. However, the areas within the river and adjacent to the proposed bridge are not open to the public. No other recreation/open space areas are designated in the vicinity of the proposed project.

Wildland Fire Hazard Area

The Santa Clarita General Plan Safety Element designates the project site as a Potential Wildland Fire Hazard Area. Wildfire potential depends upon several factors, including topography, vegetation, and climate. Topography can affect the spread of fires, as well as the ability to fight fires, with fires in steeply sloped areas generally spreading more quickly. Native vegetation such as chaparral and sage provide highly flammable fuel that

allows fire to spread easily. These plant species naturally regenerate after a fire, making periodic wildfires a normal cycle of the ecology of these areas. Since the proposed bridge is located in an area adjacent to hillsides and characterized by substantial amounts of native vegetation, wildfire is a substantial concern.

Circulation

A Caltrans study to extend SR 126 as a limited access eight-lane expressway through the Valley prompted the City to evaluate the General Plan's Circulation Element. In 1992, the City Council rejected two proposed alignments for SR 126 and directed that this roadway be removed from the General Plan (City 1997a, p. C-29). A number of studies and public meetings were conducted between 1992 and 1997, concluding that a new east-west route through the Santa Clarita Valley would be needed to avoid the deterioration of traffic conditions to unacceptable LOS, which culminated with the development of seven alternatives (City 1997a, p. ES-1). This led to the preparation of a Circulation Element Amendment (City 1997a) and evaluation of the seven alternatives in the Circulation Element Amendment Final EIR (City 1997b).

The Master Plan of Arterial Highways in the Circulation Element Amendment identifies the extension of Golden Valley Road (including the proposed bridge project) as a major highway from SR 14 to Newhall Ranch Road (City 1997a, p. C-29). The Circulation Element Update indicates that the major highway designation would include a divided roadway of at least six lanes, with no on-street parking (City 1997a, p. C-31).

A stated goal of the Circulation Element Amendment is the provision of a safe and efficient circulation system for the City. The following policies in the Circulation Element Amendment address this concern:

Policy 1.1: Improve circulation facilities to provide improved levels of service and standards of safety over current traffic operations with a priority to improve local traffic patterns (City 1997a, p. C-18).

Policy 1.2: Maintain appropriate levels of service at all intersections in the City during peak hours to ensure that traffic delays are kept to a minimum (City 1997a, p. C-19).

Policy 1.10: Limit the number of intersections and driveways on all major, secondary and limited secondary roadways to promote a safe, efficient and steady flow of traffic (City 1997a, p. C-19).

Policy 1.17 The City will maintain adequate access to state highways and freeways serving the Santa Clarita planning area including Interstate 5 on the West, State Route 14 on the Southeast, and State Route 126 on the Northwest (City 1997a, p. C-20).

SCAG Regional Comprehensive Plan and Guide

As the southern California region's Metropolitan Planning Organization and Regional Transportation Planning Agency, SCAG is responsible for regional planning concerns related to overall growth and traffic management.

The SCAG Regional Transportation Plan (RTP) is a federally legislated regional planning document that outlines the transportation goals, objectives, and policies for all surface transportation modes (multi-modal planning) across the region. This regional planning document meets the requirements of the Clean Air Act. The RTP assesses overall population, housing, and employment growth trends across the region to determine appropriate strategic objectives for transportation capital investments. As such, the RTP aims to address mobility and congestion problems, to evaluate funding availability, to estimate costs of the planned action, and to meet air quality requirements.

The RTP is updated every 3 years to ensure consistency with population, housing, employment, and environmental trends; land-use forecasts; and technology changes. The SCAG 2004 RTP was completed in March 2004 and adopted in April 2004. Various amendments have been adopted since the RTP was adopted, most recently the Final 2004 RTP Administrative Amendment adopted by SCAG on March 1, 2007.

County of Los Angeles Santa Clarita Valley Area Plan

The Santa Clarita Valley Area Plan, adopted in February 1984 and updated in 1990, is a coordinated statement of public policy set out by the County of Los Angeles. The Plan covers the Valley, extending north into the Angeles National Forest, east past Agua Dulce, south to the I-5 and SR 14 intersection, and west to the Ventura County line. As such, the Plan covers the entire City of Santa Clarita. The Plan sets out policies designed to facilitate planning decisions pertinent to the Valley. Policies relevant to the proposed project include the following:

Land Use Element	Policy 9.1:	Encourage development of access throughout the Santa Clarita Valley. a. As development occurs in each community, appropriate links should be provided from residential areas to major destination points; e.g., employment, shopping, public facilities and services, recreation and entertainment.
Land Use Element	Policy 9.3:	Encourage development of transportation systems consistent with the plan.
Community Design Element	Policy 2.1:	Carefully integrate physical development in rural areas into the natural environmental setting.
Circulation Policy Element	Policy 1.7:	Implement an arterial network that will adequately serve the rural to urban, recreational, emergency, and everyday circulation needs of the Santa Clarita Valley.
Environmental Resources Management Element	Policy 2.1:	Protect identified resources in Significant Ecological Areas … by appropriate measures including preservation, mitigation and enhancement.

One Valley, One Vision

The One Valley One Vision (OVOV) Valleywide General Plan covers 590 square miles, including the City of Santa Clarita with its communities of Canyon Country, Newhall, Saugus, and Valencia, and the County communities of Stevenson Ranch, Castaic, Val Verde, Acton, Agua Dulce, and the future Newhall Ranch. The OVOV is currently being created and is anticipated to conclude in late 2008 (pers. comm. Jason Smisko, City of Santa Clarita, May 1, 2007). The action will result in a General Plan and EIR for the Santa Clarita Valley Planning Area, designed to direct development over the coming 20 years. The plan will be administered by both the City of Santa Clarita and the County of Los Angeles.

2.1.2 Affected Environment

The bridge area is characterized by sparsely vegetated, sandy, gently undulating terrain, sloping down to the Santa Clara River floodplain. As the river only intermittently conveys water, the floodplain is largely composed of rocks, gravel, and riverine vegetation with occasional pools of water.

The Castaic Lake Water Agency (CLWA) water treatment plant is located northwest of the proposed bridge. Ridgelines northwest of the river and below the CLWA water treatment plant break the rolling topography of the vicinity. The historic Los Angeles Aqueduct, owned by CLWA, crosses the Santa Clara River 0.4 mile southwest (downstream) of the proposed bridge site. High voltage electrical lines parallel Golden Valley Road, passing 170 feet northeast of the southern end of the proposed bridge. The proposed bridge would not cross the high voltage lines. Other utilities include buried oil/gas pipelines.

An industrial park is located along Soledad Canyon Road, southeast of the proposed bridge. East of the bridge site are a recycling facility, supply yard, and industrial buildings. South of the Santa Clara River, a variety of commercial and residential land uses line Soledad Canyon Road. These include two mobile home parks to the southeast. Scattered commercial, residential, and mining exploration uses are located along each side of Soledad Canyon Road.

Two residential projects, the Riverpark and Keystone developments, are proposed outside the study area, but within the vicinity of the Golden Valley Bridge. The Riverpark development includes 1,089 dwelling units and 16,000 square feet of commercial development, while the Keystone development includes 499 dwelling units, a school, open space, and an industrial lot.

The nearest park to the bridge site is North Oaks Park, located approximately 1.6 miles to the east.

2.1.3 Environmental Effects

The following discussion evaluates potential impacts associated with the construction and long-term operation of the proposed action.

Alternative 1: Bridge Alternative

Construction Effects

Construction would not require any rezoning or land use changes of properties adjacent or in the vicinity of the project site; consequently, the bridge construction would have no effect on land use.

Operational Effects

Zoning: The proposed bridge would be surrounded by relatively undeveloped land and would traverse land currently under a variety of zoning designations; however, the bridge is included in the City's Circulation Element Amendment and thus is compatible with Citywide circulation objectives. No existing zoning classifications would be changed as a result of the bridge's operation.

Effect on Communities and Land Acquisition: The nearest residences are in the mobile home park, approximately 800 feet southwest of the bridge; the bridge would not traverse any existing communities. ROW for the bridge would be dedicated by Newhall Land Company. Acquisition of this ROW would not affect structures of human habitation, nor would displacement and relocation impacts be introduced.

Compatibility with Plans: The proposed bridge would be consistent with relevant plans and development documents, including the Land Use Element and Circulation Element Amendment in the City's General Plan, the Santa Clarita Municipal and Unified Development Code, the SCAG Regional Comprehensive Plan and Guide, the County of Los Angeles General Plan, and the County of Los Angeles Santa Clarita Valley Area Plan. The OVOV plan is still being completed, but there are no known conflicts from the proposed bridge with this plan. Consequently, the operational effects of the proposed Golden Valley Road Bridge Project would not adversely affect Land Use.

Alternative 2: No Build Alternative

Implementation of the No Build Alternative would result in the continued use of the site in its existing condition. The existing onsite land uses would remain, and the land use effects from roadway construction, as described above for the proposed bridge project, would not occur. The No Build Alternative would conflict with the City's Circulation Element Amendment, which identifies the proposed action as a necessary roadway improvement. The proposed Bridge Alternative has been identified as a necessity to alleviate LOS deterioration to unacceptable levels (see Section 2.4, Traffic and Transportation, Pedestrian and Bicycle Facilities). Conversely, the No Build Alternative would not address projected land use and transportation needs, would not meet the action's purpose and need, and would perpetuate the existing land use conflicts into the foreseeable future.

2.1.4 Avoidance, Minimization, and/or Mitigation Measures

There would be no adverse effects on land use as a result of the proposed Bridge Alternative; consequently, no avoidance, minimization, and/or mitigation measures are proposed. Although the No Build Alternative would not address the identified need to resolve land use conflict and improve circulation, the effects of the No Build Alternative would not be adverse and, as such, no avoidance, minimization, and/or mitigation measures are proposed.

2.2 COMMUNITY IMPACTS

2.2.1 Regulatory Setting

Community Character and Cohesion

NEPA established that the federal government use all practicable means to ensure for all Americans safe, healthful, productive, and aesthetically and culturally pleasing surroundings (42 United States Code [USC] 4331[b][2]). The FHWA in its implementation of NEPA (23 USC 109[h]) directs that final decisions regarding actions are to be made in the best overall public interest. This requires taking into account adverse environmental effects, such as destruction or disruption of human-made resources, community cohesion, and the availability of public facilities and services.

Relocations

Caltrans' Relocation Assistance Program (RAP) is based on the Federal Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (as amended) and Title 49 CFR Part 24. The purpose of RAP is to ensure that persons displaced as a result of a transportation action are treated fairly, consistently, and equitably so that such persons will not suffer disproportionate impacts/injuries as a result of actions designed for the benefit of the public as a whole. All relocation services and benefits are administered without regard to race, color, national origin, or sex in compliance with Title VI of the Civil Rights Act (42 USC 2000d, et seq.).

Environmental Justice

All actions involving a federal action (funding, permit, or land) must comply with Executive Order 12898, *Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations,* signed by President Clinton on February 11, 1994. This Executive Order directs federal agencies to take the appropriate and necessary steps to identify and address disproportionately high and adverse effects of federal actions on the health or environment of minority and low-income populations to the greatest extent practicable and permitted by law. Low income is defined based on the

Department of Health and Human Services poverty guidelines. For 2006, this was $20,000 for a family of four. The poverty threshold, according to the most recent data available, for a family of four is $18,307.

All considerations under Title VI of the Civil Rights Act of 1964 and related statutes have also been included in this action. Caltrans' commitment to upholding the mandates of Title VI is evidenced by its Title VI Policy Statement, signed by the Director (Appendix B).

2.2.2 Affected Environment

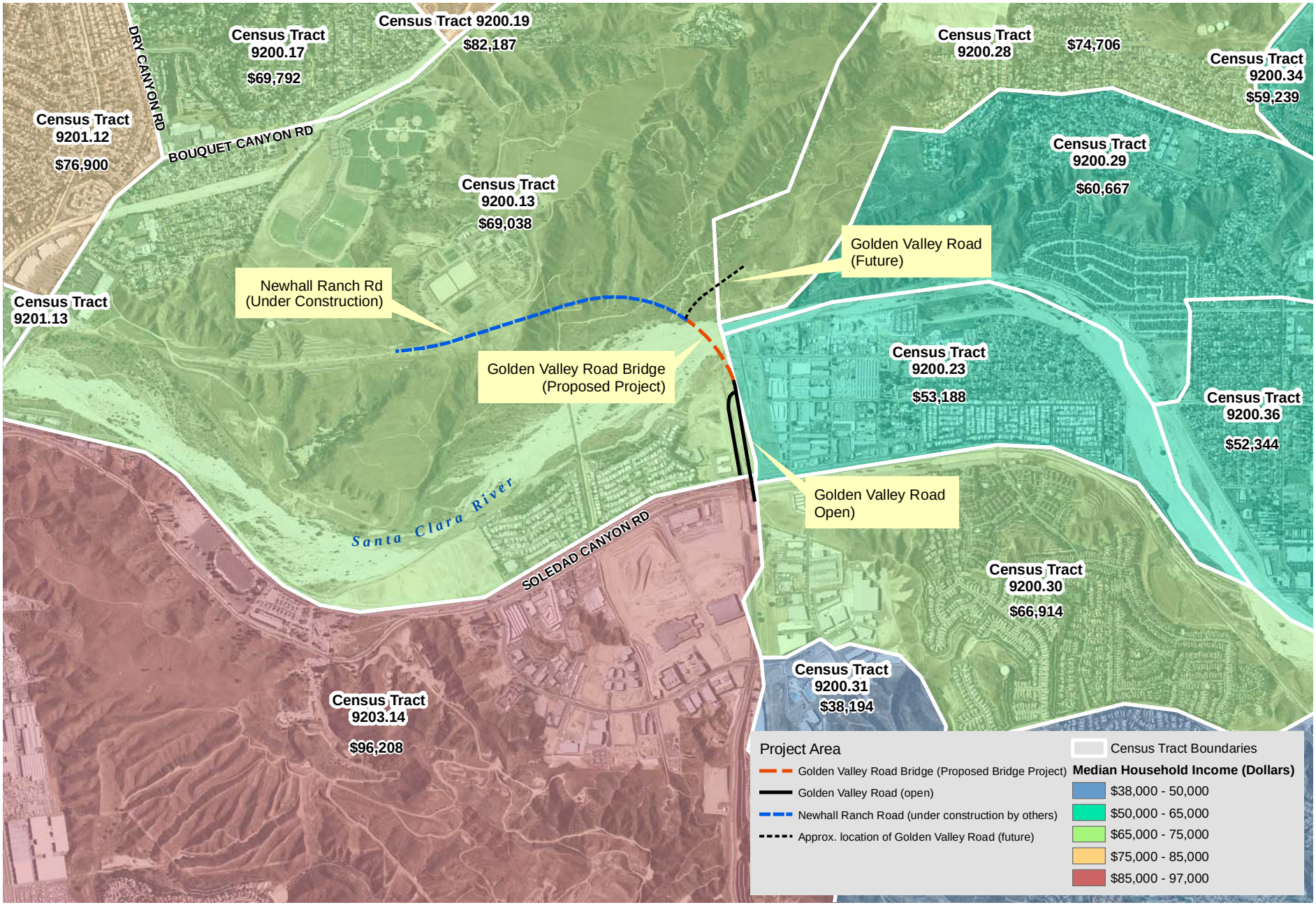
Income and Poverty

The poverty threshold in 2002 (the most recent year available) for a family of four, again is $18,307 (U.S. Census Bureau 2003). As shown in Table 2.2-1 and Figure 2.2-1, the median household income within the study area is between $53,188 and $74,706, above that of the poverty threshold. The study area median income is also well above equivalent averages for the County of Los Angeles, and the City of Los Angeles, and comparable to that of the City of Santa Clarita.

Table 2.2-1
Median Household and Per Capita Income for the Study Area

	Median household income (1999)	Per capita income (1999)
Los Angeles County	$42,189	$20,683
City of Los Angeles	$36,687	$20,671
City of Santa Clarita	$66,717	$26,841
Census Tract 9200.13	$69,038	$25,387
Census Tract 9200.23	$53,188	$19,618
Census Tract 9200.28	$74,706	$24,124
Census Tract 9200.29	$60,667	$24,250

Source: Census 2000 Summary File 1 (SF 3) Sample Data Table P53: Median Household Income in 1999 (dollars)



Source: City of Santa Clarita 2002, 2005; NAIP 2005; US Census 2000

0.4 0.2 0 0.4 Miles

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1 inch equals 0.4 miles

Figure 2-2-1
Median Household Income by Census Tract

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Children and Young Adults

Between 1990 and 2000, the median age in the City of Santa Clarita has increased from 30.5 to 33.4 years. This has resulted from substantial increases in the proportion of people aged over 65 years, and a proportionate decrease in the working age population. The proportion of the population defined as children and youth (under 19 years of age) has remained relatively stable for the past decade and is currently similar to that of Los Angeles County and slightly lower than that of the City of Santa Clarita. Between 31.8 and 39.2 percent of the study area is composed of children and youth (Table 2.2-2). This is approximately the same as that the City of Santa Clarita.

Table 2.2-2
Age Distribution in the Study Area

	Total Population	Population under 19 Years		
	Number	***Number***	***Percentage***	**Median Age**
Los Angeles County	9,519,338	2,946,796	31.0	32
City of Los Angeles	3,694,820	1,091,049	29.5	31.6
City of Santa Clarita	151,088	49,858	33.0	33.4
Study Area	11,165	3,828	34.3	(n/a)
Census Tract 9200.13	3,808	1,211	31.8	38.3
Census Tract 9200.23	2,247	775	34.5	32.7
Census Tract 9200.28	1,928	756	39.2	31.6
Census Tract 9200.29	3,182	1,086	34.1	32.1

Source: Census 2000 Summary File 1 (SF 1) 100-Percent Data Table P12: Sex by Age

Race and Ethnicity

The study area is characterized by a relatively low proportion (18.8 percent) of minority populations (Table 2.2-3). This is well below the averages for Los Angeles County and the City of Los Angeles, which have minority populations of 51.3 percent and 53.1 percent, respectively, and is slightly lower than the 20.5 percent average for the City of Santa Clarita as a whole. No minority or low-income populations have been identified that would be adversely affected by the proposed action as determined above. Therefore, the proposed project is not subject to the provisions of Executive Order 12898.

Table 2.2-3
Ethnicity in the Study Area

	Total Population	Minority Population	
	Number	Number	Percentage
Los Angeles County	9,519,338	4,883,420	51.3
City of Los Angeles	3,694,820	1,961,949	53.1
City of Santa Clarita	151,088	30,973	20.5
Study Area	11,165	2094	18.8
Census Tract 9200.13	3,808	636	16.7
Census Tract 9200.23	2,247	454	20.2
Census Tract 9200.28	1,928	335	17.4
Census Tract 9200.29	3,182	668	21.0

Source: Census 2000 Summary File (SF 1), 100-percent Data Table P12: Sex by Age

2.2.3 Environmental Effects

Alternative 1: Bridge Alternative

Alternative 1 would not displace any current households or businesses and would not require the acquisition or relocation of any residential dwellings or businesses. As such, Alternative 1 would not have an adverse effect on community character and cohesion, or relocations.

Alternative 2: The No Build Alternative

Under Alternative 2, there would be no improvements to the existing road, and, as such, no change to the existing community character. No relocations would be needed and there would be no displacement of people or businesses. No persons or housing would be displaced. Furthermore, as no structures would be constructed, the physical landscape would not be altered and no adverse construction effects would result. As such, Alternative 2 would not have an adverse effect on community character and cohesion, or relocations.

2.2.4 Avoidance, Minimization, and/or Mitigation Measures

There would be no adverse effects to communities as a result of the Bridge Alternative or the No Build Alternative; consequently, no avoidance, minimization, and/or mitigation measures are proposed.

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2.3 UTILITIES / EMERGENCY SERVICES

This section describes the potential effects of the action on utilities and emergency services. In particular, the following issues are discussed: water and wastewater, solid waste, electricity, fire protection, and police protection.

2.3.1 Affected Environment

Water and Wastewater

Castaic Lake Water Agency (CLWA) is a wholesale water agency that supplies water for the Santa Clarita Valley planning area. CLWA, formed in 1962, contracts with the California Department of Water Resources to purvey imported water from the State Water Project (SWP) to retail water providers in the Santa Clarita Valley. Water is brought in from the SWP-operated reservoir at Castaic Lake. CLWA's Capital Improvements Program establishes funds for the purchase of additional imported supplies, implementation of reclaimed (recycled) water programs, and enhancement of groundwater, as well as groundwater banking/conjunctive-use programs both in and outside of the CLWA service area. These measures would provide sufficient supplies for projected water demands.

Four local agencies transport water throughout the City: Santa Clarita Water Division (SCWD), which is a division of CLWA; Valencia Water Company; Newhall County Water District; and Los Angeles County Water District #36 (Val Verde Water District). The SCWD service area includes portions of the City of Santa Clarita, including the bridge site, and unincorporated portions of Los Angeles County in the communities of Saugus, Canyon Country, and Newhall. SCWD would be the expected local retail water purveyor for the proposed project.

CLWA and the four retail water purveyors have prepared the joint Urban Water Management Plan. This document describes water conservation measures within the CLWA service area and updates the Santa Clarita Valley's Water Shortage Contingency Plan (CLWA 2000).

The County Sanitation Districts of Los Angeles County operate two water reclamation plants (WRPs) that provide wastewater treatment for the Santa Clarita Valley. District No. 26 operates and manages the Saugus WRP, providing primary, secondary, and tertiary treatment of approximately 7 million gallons per day (gpd) of wastewater. This plant, located south of the proposed bridge, is southeast of the intersection of Soledad Canyon Road and Bouquet Canyon Road and serves approximately 70,000 people. District No. 32 operates and manages the Valencia WRP, which processes approximately 11 million gpd for 110,000 people. The Valencia WRP is located west of the proposed action site, on The Old Road, north of Magic Mountain Parkway and west of I-5. Wastewater for the proposed project site is treated primarily by the Saugus WRP District 26, which together with the Valencia WMP District 32 provides for the wastewater treatment for most of the Santa Clarita Valley.

In the Santa Clarita Valley, stormwater runoff is channeled either into detention basins for groundwater recharge or into the Santa Clara River via widened and lined channels built by the Los Angeles County Department of Public Works. Most of these natural channels consist of vegetation and coarse-grained sediments, rather than concrete. Urban stormwater flows are routed through stormwater detention basins and to the river channels, where porous sand and gravel streambeds permit infiltration to the underlying groundwater.

Solid Waste

Since 1997, the City has diverted approximately 50 percent of solid waste through recycling programs to meet the provisions of the California Integrated Waste Management Act (AB 939). The purpose of AB 939 is to “reduce, recycle, and re-use solid waste generated in the state to the maximum extent feasible.” To this end, it requires every city and county in the state to prepare a Source Reduction and Recycling Element (SRRE) to its Solid Waste Management Plan, identifying how each jurisdiction will have met the mandatory state waste diversion goals of 25 percent by the year 1995 and 50 percent by the year 2000. The City is in full compliance with the SRRE with regard to preparation of plans and policies.

The City of Santa Clarita Department of Field Services contracts with three private haulers in the collection of residential, commercial, and industrial waste in the City. Separate franchise systems exist for commercial/industrial uses and for residential uses.

Nearly all waste from the City that is not diverted for recycling goes to the Chiquita Canyon Landfill, located approximately 6 miles west of the action site. The Chiquita Canyon Landfill has been approved for expansion to extend the life of this landfill to 2019, which would permit acceptance of the maximum daily tonnage of 6,000 tons of solid waste. Other small amounts of waste are sent to the Puente Hills Landfill in Whittier, Sunshine Canyon Landfill in Sylmar, and the Antelope Valley II Landfill in Palmdale.

Other Onsite Utilities and Easements

The proposed bridge project would pass close to a number of utility lines but would not cross any known lines. These include 84-inch and 102-inch CLWA water lines, which are located between the proposed bridge and the newly extended Newhall Ranch Road. A 40-foot-wide CLWA easement is located close to the newly extended Golden Valley Road, south of the proposed bridge. Two 60-foot-wide City of Los Angeles pole and wire easements cross the area immediately west of the Los Angeles aqueduct, which is adjacent to the bridge site. A 100-foot-wide City of Los Angeles easement conveys the Los Angeles Aqueduct, with another 100-foot-wide City of Los Angeles easement located east of the aqueduct. A 20-foot-wide Valencia Water Company easement crosses the proposed action site near the bridge's eastern terminus. High voltage power lines parallel the eastern portion of the proposed alignment but do not traverse the proposed bridge site.

Fire and Police Protection

The County of Los Angeles provides fire and police protection services throughout the City of Santa Clarita. Fire protection is provided by the Los Angeles County Fire Department, while police protection is provided by the Los Angeles County Sheriff's Department.

In addition to fire-fighting duties, the Los Angeles County Fire Department also provides pre-hospital emergency medical care for all calls within the City. The Fire Department operates nine fire stations within the City. Seven of the nine fire stations are located in the vicinity of the proposed project. Information on these seven stations is shown in Table 2.3-1. The City is served by Battalion 6 of the County's Fire Department.

Table 2.3-1
City of Santa Clarita Fire Stations

Fire Station No.	Location	Staffing	Distance from Site (miles)	Average Response Time (min)
FS 73	24875 N. San Fernando Road, Santa Clarita, CA 91321	19	3.0	6
FS 76	27223 Henry Mayo Drive, Valencia, CA 91355	27	6.2	10
FS 104 (Temporary)	26201 Golden Valley Road, Santa Clarita, CA 91350	12	1.0	1
FS 107	18239 W. Soledad Canyon Road, Canyon Country, CA 91351	15	3.0	4
FS 111	26829 Seco Canyon Road, Valencia, CA 91350	15	1.7	5
FS 123	26321 N. Sand Canyon Road, Canyon Country, CA 91351	9	5.7	10
FS 126 (Headquarters)	26320 Citrus Street Santa Clarita, CA 91355	27	2.9	5

Source: Jason Hurd PIO – Inspector, LA County Fire Department, 2004

The Santa Clarita Valley Sheriff's Station, located at 23740 Magic Mountain Parkway, provides law enforcement services for the proposed project area. Response time to emergency calls is estimated at 5.5 minutes (pers. com. Santa Clarita Valley Sheriff's Station, 2004).

2.3.2 Environmental Effects

Alternative 1: Bridge Alternative

Water and Wastewater

During construction, most water consumed would be used for site watering for dust reduction, construction equipment and vehicle washing, and mixing of cement or concrete. Overall, there is sufficient water to meet project needs during construction. If possible, nonpotable water would be used to further lessen the effect on municipal supplies. The amount of water used during construction would not substantially deplete area supplies and would not require new sources of water or construction of new or altered water supply facilities. Grading and excavation would result in construction related runoff. However, prior to construction initiation, Caltrans requires the development and implementation of an action-specific Storm Water Pollution Prevention Plan (SWPPP), which outlines construction best management practices (BMPs) that would be used to stabilize soils and minimize drainage offsite.

Construction of the proposed bridge would result in direct conversion of undeveloped land into a paved surface. The increase in impermeable surfaces would increase runoff during storm events and decrease groundwater recharge. There is a potential for pollutants related to vehicular traffic (e.g., rubber from tires, hydrocarbons from engine exhaust, etc.) to be washed off the road surface, and into the stormwater system and the Santa Clara River.

Solid Waste

The earthwork for Alternative 1 would be balanced; hence, only minor amounts of construction and demolition debris would be produced during construction. Vegetation removed during grading would be disposed of onsite or hauled to the Chiquita Canyon Sanitary Landfill for composting. Given that the Chiquita Canyon Sanitary Landfill is permitted to accept 6,000 tons per day of waste and has remaining capacity of 26 million cubic yards, it is anticipated that the landfill would be able accommodate the incremental amount of solid waste generated during construction. Consequently, the potential effects of the proposed Bridge Alternative from solid waste generation would not be adverse.

Electricity

Electricity consumed during construction of the proposed bridge would be minimal and would be principally consumed by the use of electrically powered hand tools, construction equipment, construction trailers, and onsite security lighting. These uses would not require construction or extension of electrical infrastructure, and construction demands for electricity would be met by the existing infrastructure. The bridge would also be equipped with lighting, which would also consume electricity. The amount of electricity used both during construction and operation of the proposed Bridge Alternative would be minimal. Consequently, the effects on electricity would not be adverse.

Onsite Utility Relocation and Disruption

The proposed bridge would not traverse any known utility lines. In the event that undisclosed utility lines were identified, the City would coordinate with the appropriate agencies and organizations responsible for these lines during design. No adverse effects to onsite utilities would result from construction and operation of the proposed Bridge Alternative.

Fire and Police Protection

Construction of the proposed bridge would occur in an area that is currently undeveloped. The proposed bridge would improve the ability of both the fire and police departments to promptly travel in an east-west direction through Santa Clarita, thus improving response times in emergency situations. Construction and operation of the proposed Bridge Alternative would not require additional staff or protection facilities; therefore, no adverse effects to fire or police protection would occur.

Alternative 2: The No Build Alternative

Under the No Build Alternative, the proposed bridge would not be constructed and the site would remain in its current condition. No grading or excavation would occur; hence, no water would be consumed, no wastewater would be generated, no electricity would be used, and no solid waste would be generated. There would be no change to the demand

for fire protection and police protection. Therefore, no adverse effects would occur. Long-term effects on emergency services could occur under this alternative.

2.3.3 Avoidance, Minimization, and/or Mitigation Measures

Stormwater infrastructure (temporary and permanent BMPs, potentially including but not limited to sand bags, bio-swales, and retention and detention basins) installed during construction would serve the needs of the proposed action. Therefore, the proposed Bridge Alternative would not adversely affect water and wastewater. There would be no adverse effects to utilities as a result of the No Build Alternative.

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2.4 TRAFFIC AND TRANSPORTATION / PEDESTRIAN AND BICYCLE FACILITIES

This section discusses the effect the proposed Golden Valley Road Bridge Project would have on traffic and circulation, both during and after construction. This section also contains a summary of the information and analyses in the *Final Traffic Report for the Proposed Golden Valley Road and Newhall Ranch Road Projects in the City of Santa Clarita, California* (KOA 2005) as found in Appendix C. The traffic analysis evaluates the existing conditions and the long-range periods using the Santa Clarita Consolidated Traffic Model.

2.4.1 Regulatory Setting

City of Santa Clarita General Plan

The City of Santa Clarita's Circulation Element included the elements of the CVC Corridor as a way to reduce forecast congestion and to provide an additional east-west route through the City. The proposed Golden Valley Road bridge would connect Golden Valley Road, which is a major arterial highway to the newly extended Newhall Ranch Road. The proposed bridge is a vital component of the CVC Corridor and would provide an additional route through the City that would help accommodate projected traffic growth.

2.4.2 Affected Environment

Existing Roadway System

SR 14 and I-5 primarily provide north-south access, and Soledad Canyon Road primarily provides east-west access in the Santa Clarita Valley. Currently, many travel trips in the east-west direction are made using the longer route of I-5 and SR 14 because Soledad Canyon Road is frequently severely congested. As a result, more out-of-direction vehicle miles are traveled, producing additional congestion on the freeway system.

Newhall Ranch Road is a six-lane arterial with a posted speed limit of 50 miles per hour that extends from Copper Hill Drive/Rye Canyon Road on the west. Golden Valley Road, which is a major arterial highway, connects to SR 14 on the eastern side of the Santa Clarita Valley.

Existing Traffic Volumes

Level of Service (LOS) describes the operating conditions within a stream of traffic, reflecting factors such as speed, travel time, freedom to maneuver, traffic interruptions, comfort and convenience, and safety. There are six levels of service, ranging from A to F. LOS definitions for signalized intersections are provided in Table 2.4-1. In general, LOS A represents free-flow conditions with no congestion, while LOS F represents severe congestion with stop-and-go conditions.

Table 2.4-1
Level of Service Definitions – Signalized Intersections

Level of Service	Vehicle Delay (seconds/vehicle)	Volume-to-Capacity Ratio	Description
A	≤ 5.00	0.00-0.60	Free Flow/Insignificant Delays: No approach phase is fully utilized by traffic and no vehicle waits longer than one red signal indication.
B	5.1-15.0	0.61-0.70	Stable Operation/Minimal Delays: An occasional approach phase is fully utilized. Many drivers feel somewhat restricted within platoons of vehicles.
C	15.1-25.0	0.71-0.80	Stable Operation/Acceptable Delays: Major approach phases fully utilized. Most drivers feel somewhat restricted.
D	25.1-40.0	0.81-0.90	Approaching Unstable/Tolerable Delays: Drivers may have to wait through more than one red signal indication. Queues may develop but dissipate rapidly, without excessive delays.
E	40.1-60.0	0.91-1.00	Unstable Operation/Significant Delays: Volumes at or near capacity. Vehicles may wait through several signal cycles. Long queues form upstream from intersection.
F	≥ 60.0	N/A	Forced Flow/Excessive Delays: Represents jammed conditions. Intersection operates below capacity with low volumes. Queues may block upstream intersections.

Source: Highway Capacity Manual, Transportation Research Board, Special Report No. 209, Washington DC, 1994

The analysis of existing intersection LOS was based on field reviews and traffic volume data and forecasts prepared by the City. Existing conditions are documented by traffic calculations performed for the following intersections deemed most likely affected by the proposed action:

- Bouquet Canyon Road/Newhall Ranch Road
- Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard.

Traffic demand in the area meets or exceeds roadway capacity on many of the arterial roadways. Increases in traffic are anticipated in the future based on regional projections and anticipated growth. The calculations show that the Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard intersection operates at LOS F during the PM peak hour (see Table 2.4-2).

Table 2.4-2
Level of Service Calculations – Existing Conditions

Intersection	Weekday AM Peak Hour V/C – LOS	Weekday PM Peak Hour V/C – LOS
Bouquet Canyon Road/Newhall Ranch Road	0.880 D	0.830 D
Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard	0.760 C	1.040 F

Source: Katz, Okitzu & Associates 2005

Pedestrian and Bicycle Facilities

The City's Circulation Element discusses creation of a pedestrian-friendly environment through well-designed urban spaces and safety enhancements that separate walking areas from vehicle lanes. Additionally, the Circulation Element identifies the proposed Golden Valley Road bridge as a potential bikeway (City of Santa Clarita 1997a), which would connect to the existing bike path/trail along Soledad Canyon Road.

2.4.3 Environmental Effects

Alternative 1: Bridge Alternative

The proposed bridge would provide a connection between the extended Newhall Ranch Road and Golden Valley Road. The calculations below show that the proposed project would connect Newhall Ranch Road and Soledad Canyon Road via Golden Valley Road. LOS would be acceptable during peak periods with the exception of the Golden Valley Road/Newhall Ranch Road intersection during the PM peak hour. Table 2.4-3 summarizes the analysis of the proposed project conditions.

Table 2.4-3
Level of Service Calculations – With Proposed Action

Intersection	Weekday AM Peak Hour V/C – LOS	Weekday PM Peak Hour V/C – LOS
Bouquet Canyon Road/Santa Clarita Parkway	0.720 C	0.870 D
Bouquet Canyon Road/Newhall Ranch Road	0.840 D	0.830 D
Santa Clarita Parkway/Newhall Ranch Road	0.750 C	0.800 C
Golden Valley Road/Newhall Ranch Road	0.590 A	**0.940 E**
Santa Clarita Parkway/South of Soledad Canyon Road (Grade Separated)	0.510 A	0.630 B
Soledad Canyon Road/East of Santa Clarita Parkway (Grade Separated)	0.540 A	0.690 B
Soledad Canyon Road/Santa Clarita Parkway (at grade)	0.820 D	0.740 C
Soledad Canyon Road/Valley Center Drive	0.720 C	0.640 B
Golden Valley Road/Valley Center Drive	0.640 B	0.580 A
Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard	0.790 C	0.900 D

Source: Katz, Okitsu & Associates 2005

The proposed Bridge Alternative would result in LOS E at the Golden Valley Road/Newhall Ranch Road intersection during the weekday peak PM hour. This calculated LOS is below the City's target; however, the proposed project provides a capacity enhancement to the project area. Accordingly, the proposed project would improve long-term traffic conditions in the vicinity of the bridge. No adverse effects on traffic and transportation would occur.

Construction activities would generate additional, but temporary traffic, as construction workers travel to and from the site and trucks deliver and haul materials, supplies, and equipment to and from the bridge site. The majority of construction-related trips would occur during nonpeak traffic hours. Construction typically commences before the morning peak hour and finishes before the afternoon peak hour. Construction activities would occur on undeveloped land that currently offers no roadway access to adjacent properties. Consequently, the effect on local streets and the freeway system would be temporary and intermittent.

The proposed bridge project would include 12 feet for bicycle lanes, separated from the roadway and pedestrian walkways. The pedestrian walkways would be located on either side of the bridge and the bicycle lanes would be located on the northernmost bridge, as indicated in Figure 1-5. This is consistent with the city-wide layout and route for all major thoroughfares in the City according to the City's Circulation Element and multiuse corridor plan, including Exhibit C-9 of the Circulation Element, which indicates that the proposed bridge would convey a future bikeway. This would also connect to a larger bicycle path route to allow for east/west circulation. As such, the action would have no adverse effects on bicycle lanes or pedestrian traffic.

Alternative 2: The No Build Alternative

The intersection of Soledad Canyon Road and Santa Clarita Parkway was analyzed as both a grade separated and an at-grade intersection since the future configuration is currently undetermined. The calculations show that the Bouquet Canyon Road/Santa Clarita Parkway and Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard intersections would operate at LOS E and F, respectively, during the PM peak hour. The Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard intersection would also operate at a LOS E during the AM peak hour. Table 2.4-4 shows the calculated LOS for future conditions without construction of the proposed bridge.

Table 2.4-4
Level of Service Calculations – No Build Conditions

Intersection	Weekday AM Peak Hour V/C – LOS	Weekday PM Peak Hour V/C – LOS
Bouquet Canyon Road/Santa Clarita Parkway	0.810 D	**09.60 E**
Bouquet Canyon Road/Newhall Ranch Road	0.880 D	0.810 D
Santa Clarita Parkway/South of Soledad Canyon Road (Grade Separated)	0.610 B	0.730 C
Soledad Canyon Road/East of Santa Clarita Parkway (Grade Separated)	0.640 B	0.860 D
Soledad Canyon Road/Santa Clarita Parkway (at grade)	0.820 D	0.850 D
Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard	**0.920 E**	**1.070 F**

Source: Katz, Okitsu & Associates 2005

The planned improvements to pedestrian and bicycle facilities that would result under the proposed Bridge Alternative as previously discussed would not result with the No Build Alternative, reducing pedestrian and bicycle circulation through the project site. Bicycles would likely continue to utilize the bicycle path on the southern side of the Santa Clara River. Both bicycles and pedestrians would need to travel to the Bouquet Canyon Road bridge to cross the Santa Clara River. Although not optimal, the effects of the No Build Alternative would not be adverse.

2.4.4 Avoidance, Minimization, and/or Mitigation Measures

There would be no adverse effects to traffic, transportation, pedestrian, and bicycle facilities as a result of the Bridge Alternative; consequently, no avoidance, minimization, and/or mitigation measures are proposed.

Circulation would be adversely affected with the selection of the No Build Alternative. In the longer term, LOS at several intersections would deteriorate. Pedestrian and bicycle circulation would remain as at present, with no provisions for crossing the Santa Clara River in the project vicinity. No avoidance, minimization, and/or mitigation measures are available to ameliorate this situation.

2.5 VISUAL / AESTHETICS

This section evaluates the potential effects on visual resources resulting from the construction and operation of the proposed project. A Visual Impact Assessment (VIA) was approved by Caltrans in June 2004 as found in Appendix D. This VIA was prepared pursuant to the procedures of the FHWA Visual Impact Assessment for Highway Projects (FHWA Publication No. FHWA-HI-8-054). The VIA reviewed applicable planning documents, described the existing visual environment and viewers, and evaluated the anticipated view response. Potential visual effects were assessed based on the anticipated change to the visual environment from the proposed project implementation and how the proposed project could maintain consistency with approved plans. Mitigation measures are summarized below and are recommended for identified visual effects. This section summarizes the analysis and findings of the VIA.

2.5.1 Regulatory Setting

NEPA establishes that the federal government use all practicable means to ensure all Americans safe, healthful, productive, and *aesthetically* (emphasis added) and culturally pleasing surroundings (42 USC 4331[b][2]). To further emphasize this point, the FHWA in its implementation of NEPA (23 USC 109[h]) directs that final decisions regarding actions are to be made in the best overall public interest taking into account adverse environmental effects, including (among others) the destruction or disruption of aesthetic values.

<u>Cross Valley Connector Aesthetics Guidelines</u>

The Cross Valley Connector Aesthetics Guidelines (City 2004) provide direction regarding hardscape and softscape features to be used to enhance roadway design, including lighting, signage, slopes, utility lines, transit shelters, bicycle facilities, and selection of tree species. The Aesthetics Guidelines represent the most specific set of requirements for the CVC Corridor.

Santa Clarita Beautification Master Plan

The Santa Clarita Beautification Master Plan (Beautification Plan) was developed by the City to assist in the long-term goal of citywide streetscape improvements and beautification (City 2001). It addresses streetscape design, landscape enhancement, gateways, and monumental and signage features at both regional and community scales, and includes analysis of implementation costs, phasing, and priorities. Citywide guidelines are designed to unify the image of Santa Clarita as a whole and create a regional identity, while continuity with community-level guidelines allows for the unique individuality of four communities identified within the city.

Golden Valley and Newhall Ranch roads are identified as Primary Corridors within this Beautification Plan, which stipulates that medians should extend or complement existing median sections and should include special paving materials, trees, and shrub plantings (City 2001). The Beautification Plan also specifies tree spacing, sizing, and character within the median and along sidewalks and requires that roadways incorporate attractive and functional landscaping that is aesthetically pleasing and pedestrian friendly (City 2001). In addition utility lines should be underground where possible; billboards and advertisement signs should be avoided; and fences should be uniform in height, material, and style (City 2001). The Beautification Plan also recommends that bridge support columns should be minimized while maintaining a thin bridge structure; barrier rails should be an integral part of the bridge structure; and bridge abutment walls and other prominent features, such as light standards and fencing, should be visually complementary (City 2001).

2.5.2 Affected Environment

Viewshed

The viewshed is the areas from which the proposed project would be visible, and areas that would be visible from the bridge. This includes areas viewed from and to the east, south, and west of the bridge. The quality of views from and to the surrounding areas varies from one location to another within the viewshed for many reasons: the low elevation and a low profile of most of the roadway; the undulating terrain; the urbanized

level of development in proximity to the proposed bridge; the mature vegetation growth on the hillsides and in the Santa Clara River; and the views of the bridge from the elevated Golden Valley Road flyover over Soledad Canyon Road. Views from surrounding residential areas are partially to completely blocked by vegetation, hillsides, or buildings. Unobstructed views of the bridge site would be limited to motorists and pedestrians on surrounding roadways, commercial establishments south and southwest of the action site, and the mobile home park south of the roadway. Farther west, views of the bridge from residences located north of the proposed alignment would be obstructed by topography.

Landscape Units

Land uses and topographic patterns create a number of landscape units with distinct character. The following two landscape units have been identified for the existing environment.

Developed unit – This includes land that has permanent structures associated with it. The mobile homes and commercial areas adjacent to the proposed bridge are included in this unit.

Undeveloped unit – This includes disturbed and natural lands that do not have permanent structures associated with them. In the area of the proposed bridge, this includes the Santa Clara River and natural areas surrounding it.

Viewer Types and Anticipated Viewer Response

The effect of a change in visual character is influenced by social considerations, including public value placed on the resource, public awareness of the area, and general community concern for visual resources in the area. These social considerations are addressed as visual sensitivity and are defined as the degree of public interest in a visual resource and concern over adverse changes in the quality of that resource.

Visual effects may be associated with changes in either the human-made or natural environment and can be short or long term in duration. Grading and the presence of

heavy machinery (e.g., large trucks, bulldozers, cranes) during construction of the bridge is considered a short-term visual effect. Long-term changes are associated with altering the natural topography; building permanent structures (e.g., buildings, bridges, walls); and removing vegetation, including mature trees. The focus of the following analysis is on long-term physical changes that would be permanent in nature.

The evaluation of visual effects depends upon the degree of alteration, the scenic quality of the area disturbed, and the sensitivity of the viewers. The degree of alteration refers to the extent of change to the natural landform and the introduction of urban elements into an existing natural environment, while acknowledging any unique topographical formations or natural landmarks. Scenic quality is often indicated by special zoning and planning overlay zones. Sensitive viewers are those who utilize the outdoor environment or value a scenic viewpoint to enhance their daily activity and are typically residents, recreational users, or motorists in scenic areas. Changes in existing landscape where there are no identified scenic values or sensitive viewers are not considered adverse. It is also possible to acknowledge a visual change as possibly adverse but not a substantial adverse effect if viewers are not sensitive or the surrounding scenic quality is low.

2.5.3 Environmental Effects

Alternative 1: Bridge Alternative

A representative view was used to compare the existing visual environment with what would result under the proposed action. The view was chosen based on vantage points surrounding the action that are visible to citizens and employees in their places of residence or employment, or from the roadway system. There is no key view of the action area facing south because the northern portion of the action consists of hillsides that prevent public views of the action area.

Figure 2.5-1 shows the proposed bridge from a Key View that represents the scene viewed by residents of the mobile home park on Soledad Canyon Road as they look northward across the Santa Clara River, toward the slopes behind the mobile home park. Foreground views encompass the mobile home park, and middle- to background views of

Figure 2.5-1
Rendering of the Proposed Bridge

the Santa Clara River. The slopes consist of scattered scrub vegetation. As shown in Figure 2.5-1, the proposed bridge would be located in the middle-ground of this view, trending uphill toward the west as it crosses over the aqueduct.

The intactness and unity of the bridge site are already compromised by the presence of the Los Angeles Aqueduct, located west of the proposed bridge. Although the proposed bridge would constitute another man-made feature within the view, the presence of existing non-natural features would lessen the incremental change in visual quality due to the bridge. Consequently, several minimization measures are detailed in Section 2.5.4 to further lessen the effect of the proposed Bridge Alternative.

Alternative 2: The No Build Alternative

Under the No Build Alternative, the proposed bridge would not be constructed and views from the mobile home park, as indicated in Figure 2.5-1, would not change. The degree of vividness, intactness, and unity would remain the same and there would be no adverse effects to visual/aesthetics resources.

2.5.4 Avoidance, Minimization, and/or Mitigation Measures

Alternative 1: Bridge Alternative

This alternative may have adverse visual quality effects; therefore, the following measures are proposed:

1. The bridge shall be textured and/or stained with muted colors to diminish stark contrasts with the existing setting.

2. To the extent consistent with the Cross Valley Connector Aesthetics Guidelines, retaining walls shall be textured, patterned, and/or colored, and shall include landscape elements, to reduce their visual scale and assist their visual blending with the existing environment.

These measures would reduce the proposed project's potential adverse effect on visual quality.

Alternative 2: No Build Alternative

There would be no adverse effects on visual/aesthetic resources as a result of the Bridge Alternative or the No Build Alternative; consequently, no avoidance, minimization, and/or mitigation measures are proposed.

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PHYSICAL ENVIRONMENT

2.6 HYDROLOGY AND FLOODPLAIN

This section discusses hydrology and floodplain issues within the vicinity of the proposed bridge and considers potential adverse effects to water quality, water supply, and the floodplain arising from implementation of the proposed project. This section also contains a summary of the information and analyses in the *Golden Valley Road Bridge Location Hydraulic Study*, completed in March 2005 (Dokken Engineering 2005) as found in Appendix E. The hydraulic study examined the possible effects to the Santa Clara River from the construction of the Golden Valley Road bridge.

2.6.1 Regulatory Setting

Executive Order 11988 (Floodplain Management) directs all federal agencies to refrain from conducting, supporting, or allowing actions in floodplains unless it is the only practicable alternative. FHWA requirements for compliance are outlined in 23 CFR 650 Subpart A.

To comply, the following must be analyzed:

- the practicability of alternatives to any longitudinal encroachments;
- risks of the action;
- impacts on natural and beneficial floodplain values;
- support of incompatible floodplain development; and
- measures to minimize floodplain impacts and to preserve/restore any beneficial floodplain values impacted by the action.

The 100-year floodplain is defined as “the area subject to flooding by the flood or tide having a one percent chance of being exceeded in any given year.” An encroachment is defined as “an action within the limits of the 100-year floodplain.”

2.6.2 Affected Environment

Surface Water

The proposed bridge, located in the northeastern quadrant of Los Angeles County, lies within the Santa Clara-Calleguas Hydrologic Unit. This is the largest hydrologic unit in the Los Angeles region and covers portions of Los Angeles, Ventura, and Kern counties. Major and minor tributaries drain 1,760 square miles, most of which is open space, punctuated by agriculture and urban areas. The Santa Clara River and Calleguas and Sespe creeks are the major tributaries in the unit. They are fed by hundreds of minor tributaries that drain Angeles National Forest; Los Padres National Forest; the San Gabriel Mountains; the Santa Susana Mountains; Oak Ridge; South Mountain; Simi Hills; and the Sawmill, Liebre, and Frazier mountains.

The Santa Clara River is one of southern California's only "naturally" flowing rivers. From its headwaters in Angeles National Forest, east of Soledad Canyon, the river flows in its natural streambed through to Ventura County and terminates at the Pacific Ocean. Flowing through both Los Angeles and Ventura counties, the Santa Clara River is more than 100 miles long and is geographically divided into nine reaches. The proposed project is located within Reach 9.

The Los Angeles RWQCB is responsible for management of the water resources within the Santa Clara-Calleguas Hydrologic Unit. The RWQCB identifies the beneficial uses of the watershed's resources, which are the foundation of the water quality protection measures under the Water Quality Control Plan - Basin Plan for the Coastal Watersheds of Los Angeles and Ventura counties (Basin Plan). Beneficial uses of the surface water resources above the Santa Clara River's estuary include wildlife habitat, preservation of rare and endangered species, migratory bird habitat, wetlands habitat, municipal (drinking water), industrial service, industrial process, agricultural, groundwater recharge, freshwater replenishment, warm water habitat, and coldwater habitat. Although a high priority of the RWQCB, the Santa Clara River and the other tributaries in the watershed are under pressure to absorb hundreds of permitted point- and nonpoint source discharges.

Groundwater

Groundwater resources exist within the watershed and are divided into several distinct units usually as a result of seismic faulting. The geologically divided aquifers have varying levels of alluvial deposits; therefore, groundwater depth and volume can differ between aquifers in the same general location. The bridge is located within the Eastern Hydrologic Subarea of the Upper Santa Clara River Hydrologic Area, as designated by the RWQCB.

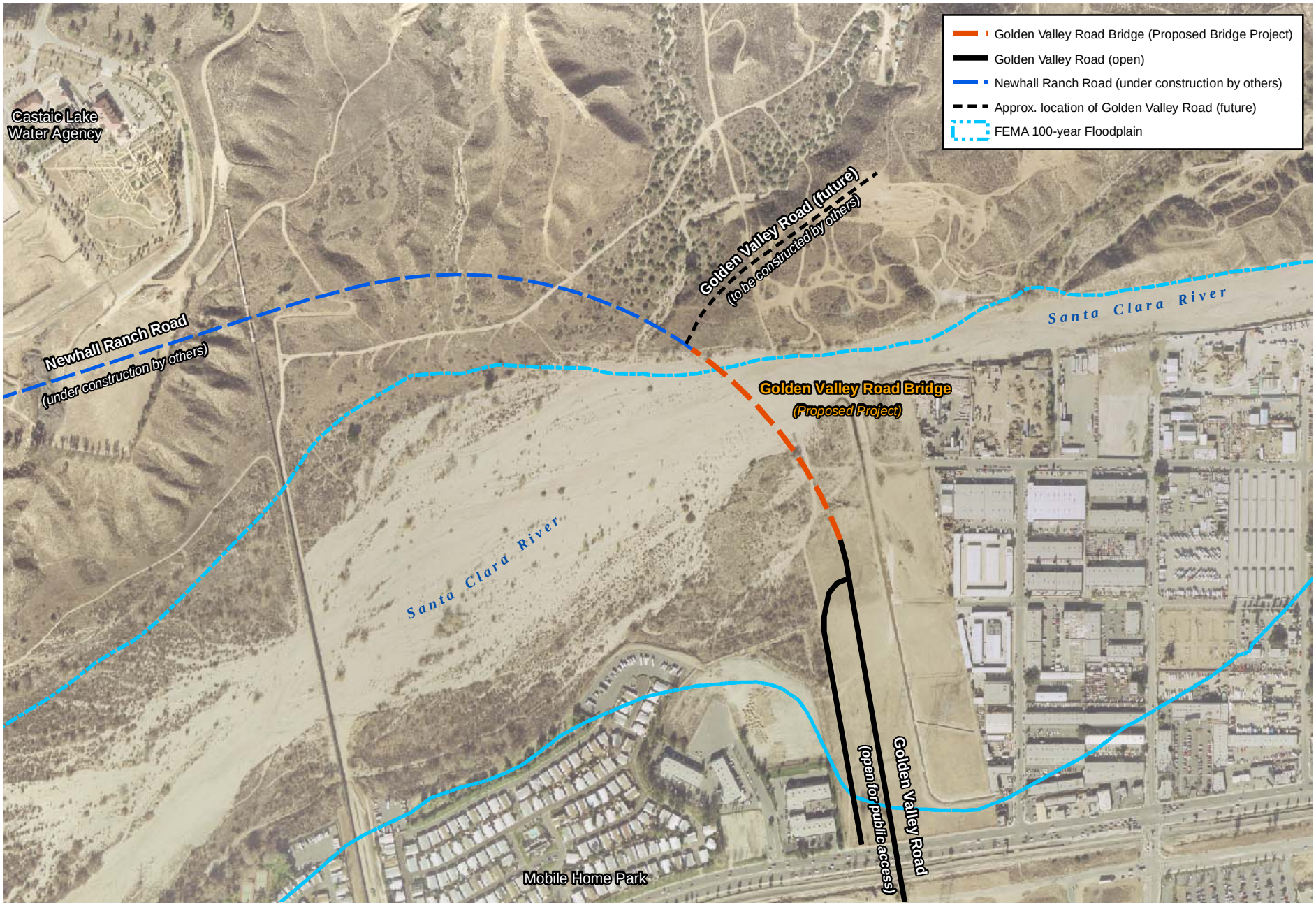
The Alluvial Basin is a shallow aquifer, which is underlain by the Saugus Formation. Due to its shallow depth to groundwater, the Alluvial Basin is tapped to produce between 30,000 and 40,000 acre-feet of water annually. The Saugus Formation provides an estimated 7,500 to 15,000 acre-feet per year. Recharge of these aquifers is dependent on water from the Santa Clara River. The river's natural condition allows for stream flow to percolate through the alluvial substrate until it is confined by an impervious rock formation that acts as an aquitard.

Historically, groundwater was extracted from the Alluvial and Saugus aquifers to provide water to the Santa Clarita Valley. In 1980, the City of Valencia and its surrounding areas contracted with the California Department of Water Resources for allocations of water from the State Water Project, which is stored in Castaic Lake. Today, groundwater extraction accounts for 54 percent of the municipal water supply in the Valley, with State Water Project allocations providing 46 percent.

Floodplain

The Santa Clara River is the most important hydrologic feature in the vicinity of the proposed bridge site and lies within the 100-year floodplain designated by FEMA (Figure 2.6-1).

Castaic Reservoir lies approximately 7.5 miles northwest of the proposed bridge site, while Bouquet Canyon Reservoir is just over 12 miles northeast of the proposed bridge site. According to the Flood and Inundation Hazards map (Plate 6) in the County of Los Angeles' General Plan Safety Element (1990), the proposed bridge would be located



Source: City of Santa Clarita 2002, 2005; FEMA 2006

N

625 312.5 0 625 Feet

1 inch equals 625 feet

Figure 2-6-1
Project Limits and 100-year Floodplain

Path: P:\2002\2K053 Cross Valley\5GIS\MXD\SD_new_mxds\project_limits_100yr_floodplain.mxd, 01/25/08, LeeJ

outside of the inundation area for both Castaic Lake and Bouquet Reservoir. However, according to the FEMA Flood Insurance Rate Map (FIRM) number 060729 0345C, dated September 9, 1989, for the Unincorporated Areas of Los Angeles County, California, the bridge site lies within the 100-year floodplain for the Santa Clara River (i.e., Zone A floodplain).

2.6.3 Environmental Effects

Alternative 1: Bridge Alternative

The new proposed bridge over the Santa Clara River consists of approximately 4.48 acres of new impervious surfaces, and stormwater runoff from the bridge would ultimately be directed into Reach 9 of the Santa Clara River. The Santa Clara River is an impaired water body for several pollutants as indicated on the 303(d) list. These pollutants for the different reaches of the Santa Clara River include sulfates, dissolved solids, ammonia, chloride, high coliform count, nitrate, and nitrite. Stormwater runoff from transportation facilities may contain a mix of motor-vehicle-related detritus composed of petrochemicals, asbestos (brake pads), antifreeze, and other unknown constituents that may have leaked from vehicles. Bridges also collect dust, organic debris (e.g., leaves and tree bark), and trash.

Caltrans has developed treatment BMPs (Category III), listed below, to treat stormwater runoff from transportation facilities. Because runoff from the proposed project would be a nonpoint source of pollution from a collection of several source contaminants, the proposed project would incorporate treatment BMPs that are maintainable and effective at removing pollutants before those waters discharge into a receiving water. To address the runoff from the roadway, the action would be designed to include a combination of the following treatment BMPs developed and approved by the City and Caltrans:

- biofiltration, i.e., swales and strips;
- infiltration basins;
- detention devices;

- traction sand traps;
- dry-weather flow diversion; and
- gross solids removal devices.

Additionally, according to total maximum daily load (TMDL) schedules for the Santa Clara Watershed, National Pollutant Discharge Elimination System (NPDES) permits granted to the City and Caltrans would include BMPs to reduce chloride and nitrogen. For 303(d)-listed pollutants, such as coliform (pathogens), treatment BMPs would include infiltration basins and dry-weather flow diversions.

It is anticipated that the City would meet all requirements of the NPDES permit by implementing all approved BMPs for effluent limitations; therefore, the action would have no adverse effect on water quality standards established for the Santa Clara River. In doing so, the City would be in compliance with the Clean Water Act of 1972.

The *Location Hydraulic Study* was conducted for the Cross Valley Connector East to address the Santa Clara River channel 100-year floodplain, and to assess the risk associated with any possible encroachment, including effects on natural and beneficial floodplain values as a result of the construction of the proposed Golden Valley Road bridge.

The construction of the proposed bridge would encroach upon and increase the elevation of the existing floodplain immediately upstream of the proposed bridge. FEMA allows a floodplain to be encroached upon so long as the rise in flood level does not exceed 1 foot. The study determined that the proposed bridge would raise flood levels by a maximum of 0.9 foot. Accordingly, the increase would not exceed the FEMA 100-year floodplain boundary.

The depth to groundwater at the bridge site has varied in the past; however, subsurface investigations found that groundwater levels in the area are approximately 34 feet deep (Seward 2003b). The groundwater table can fluctuate with natural recharge and pumping. Consequently, there is potential for groundwater to be encountered during construction, particularly as construction of the bridge would entail excavation and depth

drilling. Implementing the BMPs outlined below and in Section 2.7 would avoid potential adverse effects to groundwater.

According to the NRMP EIS/EIR, dated August 1998, by the ACOE and CDFG, the installation of a bridge over the Santa Clara River would cause both temporary and permanent effects to floodplain values within the Santa Clara River. However, these habitats are mostly small and fragmented remnants of larger, previously undisturbed habitats and are not likely to support self-sustaining wildlife or sensitive species. In addition, negative effects on these habitats can be mitigated through the use of controlled construction zones, restoration of disturbed streambeds, and temporarily relocating habitats. The nature of the surrounding area consists of sparse and fragmented habitats. Therefore, the construction of the proposed bridge would not result in adverse effects to the floodplain values of the area.

Recharge of the Alluvial Aquifer and Saugus Formation depends on surface water seepage from the Santa Clara River. Although the construction of 4.48 acres of new impervious surfaces could reduce local infiltration, it would not substantially interfere with groundwater recharge. Additionally, construction of the proposed bridge would not require the use of local groundwater. Hence, construction of Golden Valley Road bridge would have no adverse effects on hydrology and floodplain.

Alternative 2: No Build Alternative

Under Alternative 2, the proposed bridge would not be constructed. Temporary construction effects to water quality and stormwater would not occur and no permanent structure would be constructed in the floodplain. There would be no increase in the amount of impermeable surface area and, as such, no change to the amount of runoff from the site. Hence, the No Build Alternative would not have an adverse effect on hydrology and floodplain values.

2.6.4 Avoidance, Minimization, and/or Mitigation Measures

There would be no adverse effects on hydrology and floodplain values as a result of the Bridge Alternative or the No Build Alternative; consequently, no avoidance, minimization, and/or mitigation measures are proposed.

2.7 WATER QUALITY AND STORMWATER RUNOFF

2.7.1 Regulatory Setting

Section 401 of the Clean Water Act, the primary federal law regulating water quality, requires water quality certification from the state board or regional board when an action (1) requires a federal license or permit—Section 404 is the most common federal permit for Caltrans actions—and (2) will cause discharge into waters of the U.S. Section 402 of the Clean Water Act establishes the NPDES permit system for the discharge of any pollutant (except dredge or fill material) into waters of the U.S. To ensure compliance with Section 402, the State Water Resources Control Board (SWRCB) has developed and issued an NPDES Statewide Storm Water Permit, to regulate stormwater discharges from all of Caltran's ROW, properties, and facilities. The permit regulates both storm and non-stormwater water discharges during and after construction.

In addition, the SWRCB issues the Statewide Permit for all of Caltran's construction activities of 1 acre or greater. The SWRCB also issues permits for actions where a number of smaller actions are part of a common plan of development with the total area exceeding 1 acre, and for actions that have the potential to adversely impair water quality. Caltrans actions subject to the Statewide Storm Water Permit require a SWPPP, while other actions, smaller than 1 acre, require a Water Pollution Control Program (WPCP).

The California Environmental Protection Agency (EPA) has delegated administration of the federal NPDES program to the SWRCB and nine regional boards. This action is located within the jurisdiction of the SWRCB and the Los Angeles RWQCB.

Subject to Caltrans review and approval, the contractor prepares both the SWPPP and the WPCP. The WPCP and SWPPP identify construction activities that may cause pollutants in storm water and measures to control these pollutants. Because neither the WPCP nor the SWPPP is prepared at this time, the following discussion focuses on anticipated pollution sources or activities that may cause pollutants in the stormwater discharges.

Additional laws regulating water quality include the Porter-Cologne Water Quality Act, Safe Drinking Water Act, and Pollution Prevention Act. State water quality laws are

codified in the California Water Code, Health and Safety Code, and Fish and Game Code Section 5650-5656.

2.7.2 Existing Setting

Discharges to the Santa Clara Watershed, from both point and nonpoint sources, have collectively contributed to the contamination of the Santa Clara River and other tributaries and lakes within the watershed. On July 25, 2003, California EPA approved a 2002 303(d) list for California, which listed Reach 9 of the Santa Clara River as impaired for high coliform count. Reach 9 includes the project site. A TMDL for coliform was established on March 18, 2004, for the reach from Bouquet Canyon Road to above Lang Gaging Station.

2.7.3 Environmental Effects

Alternative 1: Bridge Alternative

The proposed Bridge Alternative would disturb an approximate area of 4.48 acres as a result of construction grading and excavation. Overall, the proposed project would increase the amount of impervious surfaces by approximately 4.48 acres. Grading, fill/exportation/moving, and laying asphalt could adversely affect the water quality of the Santa Clara River if the construction site discharges disturbed sediment/soils into the stream channel and/or releases petrochemicals from construction equipment.

Alternative 2: The No Build Alternative

Under the No Build Alternative, no construction would occur and there would consequently be no changes to water quality and stormwater runoff. No adverse effect on water quality or stormwater runoff would result from the No Build Alternative.

2.7.4 Avoidance, Minimization, and/or Mitigation Measures

Alternative 1: Bridge Alternative

To minimize potential effects to water quality during construction and operation of the proposed action, the following measures shall be implemented:

In accordance with Caltrans requirements, and SWPPP/WPCP manual guidelines, the proposed project would be required to implement state-approved design (Category IB) and construction-site (Category II) BMPs, listed below. These BMPs can be temporary (to accommodate the construction phase) or permanent (for the operational phase). Design BMPs are incorporated into the design of the new facility during the planning and engineering design phase. The design BMPs are focused on pollution prevention by assessing the following potential effects to water resources: downstream effects of increased flows, preservation of existing vegetation, flow conveyance systems, and slope protection.

The second Caltrans category is construction-site BMPs, which are the best conventional technology/best available technology controls required by the Caltrans Statewide Permit and the General Permit for Construction Activity. The SWPPP/WPCP manual outlines six categories for construction BMPs: temporary soil stabilization, temporary sediment control, wind erosion control, tracking control, non-stormwater management, and waste management and materials pollution control. A list of possible BMPs from each category that may be used for construction of the proposed Bridge Alternative includes:

- Temporary soil stabilization – sandbag barriers, straw bale barriers, sediment traps, and fiber rolls;
- Temporary sediment control – hydraulic mulch, hydroseeding, and geotextiles;
- Wind erosion control – portable water and straw mulch;
- Tracking control – street sweeping and entrance/outlet tire washing;
- Non-stormwater management – clear water diversion and dewatering; and

- Waste management and materials pollution control – vehicle and equipment cleaning, concrete waste management, and contaminated soil management.

Treatment BMPs developed by the City and approved by Caltrans shall be incorporated into the proposed project design. A combination of the following treatment BMPs could be included:

- biofiltration – swales and strips,
- infiltration basins,
- detention devices,
- traction sand traps,
- dry-weather flow diversion, and
- gross solids removal devices.

Bridge construction shall be in accordance with the length requirements determined by the *Golden Valley Road Bridge Location Hydraulic Study* (Dokken 2005).

These measures would avoid adverse effects on water quality and stormwater runoff.

Alternative 2: The No Build Alternative

There would be no adverse effects on water quality and stormwater runoff as a result of the No Build Alternative; consequently, no avoidance, minimization, and/or mitigation measures are proposed.

2.8 GEOLOGY / SOILS / SEISMIC / TOPOGRAPHY

This section describes existing geologic, soil, and seismic conditions within the action area and vicinity; identifies associated regulatory requirements; and evaluates potential adverse effects and mitigation measures associated with implementation of the proposed action.

2.8.1 Regulatory Setting

For geologic and topographic features, the key federal law is the Historic Sites Act of 1935, which establishes a national registry of natural landmarks and protects "outstanding examples of major geological features."

This section also discusses geology, soils, and seismic concerns as they relate to public safety and action design. Earthquakes are prime considerations in the design and retrofit of structures. Caltrans' Office of Earthquake Engineering is responsible for assessing the seismic hazard for proposed Caltrans actions. The current policy is to use the anticipated Maximum Credible Earthquake (MCE), from young faults in and near California. The MCE is defined as the largest earthquake that can be expected to occur on a fault over a particular period of time.

Alquist-Priolo Earthquake Fault Zoning Act

Following the 1971 San Fernando Earthquake, the State of California passed the Alquist-Priolo Earthquake Fault Zoning Act in 1972 to address the hazard of surface faulting. The main purpose of the Act is to prevent the construction of structures intended for human occupancy on the surface trace of active faults and requires regulatory zones around the surface trace to be established. Local agencies are required to regulate development within these zones, which average approximately 1/4 mile wide.

2.8.2 Affected Environment

Geology

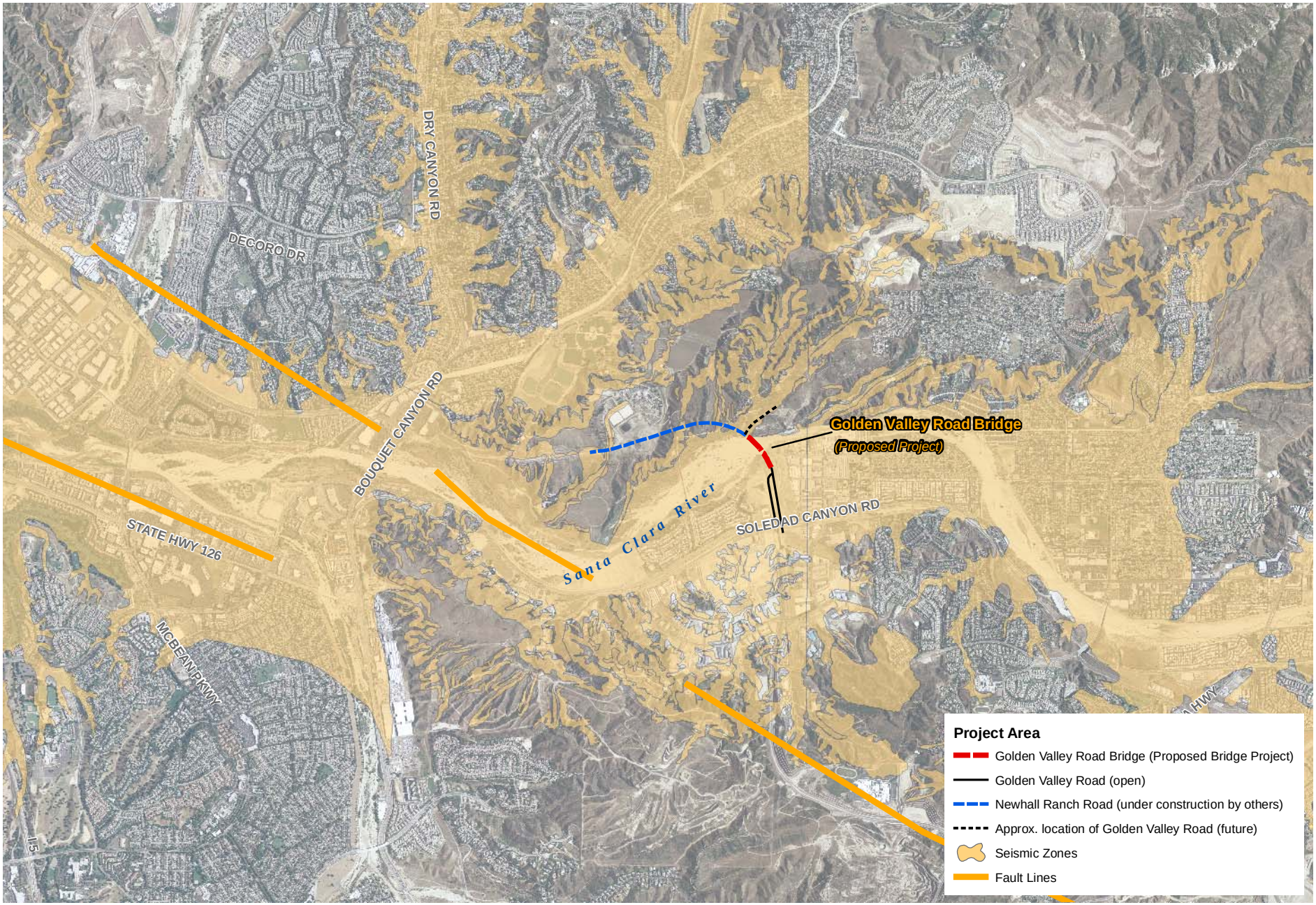
The proposed Golden Valley Road bridge is located in the western Transverse Ranges geomorphic province in the western portion of the Soledad Basin north of the San Gabriel result from ongoing compressional tectonics, characterize this region. The Soledad Basin extends from the San Gabriel fault in the Newhall-Saugus area to the San Andreas fault near Palmdale (Figure 2.8-1). Cenozoic-aged sedimentary rocks have accumulated in a thick layer within this basin. Subsequent faulting and folding by repeated tectonic action have deformed these sediments.

The Santa Clara River has changed its course over time, such that a thick accumulation of ancient river sediments has been deposited on a series of benches found in the underlying Saugus Formation bedrock. Such depositional terrace deposits show some evidence of having been laid in horizontal strata. Alluvium dating from the Quaternary age covers the valley floors.

Groundwater/Aquifers

Groundwater beneath the proposed action is either contained in recent alluvium or perched above low permeability layers in either the Saugus Formation or the Quaternary Terrace Deposits. Historic and recent records indicate that groundwater has approached within 5 feet of the existing ground surface along the edge of the Santa Clara River and may have intercepted the channel in the past.

Perched groundwater in the Saugus Formation bedrock and Quaternary terrace deposits has been encountered at the elevated portions of the site. Perched groundwater is a zone of saturation that is not connected to the water table but is instead surrounded by unsaturated zones. Such zones may be subsurface accumulations of precipitation, or they may be the result of percolation from nearby surface water or other perched water zones. Perched groundwater conditions may contribute to slope instability on both natural and artificial slopes.



Source: City of Santa Clarita 2002, 2005; FEMA 2006

N

0.7 0.35 0 0.7 Miles

1 inch equals 0.7 miles

Figure 2-8-1
Fault Zones

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Soils

Within the Santa Clara River vicinity, soils are characteristically alluvial. Such soils have generally been disturbed by past agricultural and grading activities. Upgraded areas of the proposed project area have silty-sand soils with scattered pebbles that are moderate- to yellowish-brown and yellowish-gray in color.

Expansive (or shrink-swell) behavior in soils or surficial deposits is related to the water-holding capacity of certain clay minerals and can adversely affect the structural integrity of structures such as foundations, footings, and pavement. Expansive soils occur naturally across much of the western United States. Typically located in floodplains and low-lying regions, the soils expand rapidly upon becoming wet, then shrink as water is removed. Over time, this rapid expansion and shrinking may cause deterioration of constructed features, such as foundations.

Faulting and Seismicity

Much of southern California, including the Santa Clarita Valley, is characterized by a series of Quaternary-age fault zones. As such, the proposed bridge site is situated within a seismically active region and is potentially subject to seismic effects associated with moderate to large seismic events along regional fault zones.

The eastern portion of the Santa Susana Mountains area has historically experienced strong ground motion during seismic events. The 1971 San Fernando earthquake, generated on the Sierra Madre-San Fernando fault, and the 1994 Northridge earthquake resulted in major ground shaking in the area. Table 2.8-1 summarizes major historical and regional earthquakes that have occurred near the proposed project site.

Table 2.8-1
Major Historical and Regional Earthquakes

Earthquake	Approx. Distance To Epicenter (Miles)[1]	Earthquake Magnitude[2]
Fort Tejon (1857)	41	8.0
Kern Co. (1952)	49	7.7
Santa Barbara (1812)	50	7.0
San Fernando (1971)	7	6.4
Northridge (1994)	8	6.7
Santa Susana	6.5	6.6
Northridge (E. Oak Ridge)	5.4	6.9
Sierra Madre-San Fernando	8.1	6.7
San Gabriel	0.1	7.0
Holser	1.5	6.5
San Andreas	18.2	7.8

Source: Seward 2003a
[1] Approximate closest distance to surface trace in miles.
[2] Monument Magnitude after 1933 and above 6, or Local Magnitude prior to 1933 or below 6 (S.C.E.C.).

No active faults traverse the proposed project bridge alignment. The San Gabriel fault, approximately 2,000 feet to the south of the proposed bridge alignment, is considered active. The Newport-Inglewood fault zone is a structural zone that trends northwest from Newport Bay to Beverly Hills, a distance of approximately 42 miles. This fault can be seen on the surface as a series of low, discontinuous hills and ridges. The proposed project site is also near the Palos Verdes fault, which has potential to generate major ground motion. The San Andreas fault, over 50 miles northeast of the bridge site, could also generate major ground motion in the action vicinity.

Landslides

The occurrence of slope failures, such as landslides, can be influenced by a number of factors, including slope grade, soil moisture, vegetation cover, the physical nature and competency of surface and subsurface materials, and the presence of a triggering mechanism (e.g., a seismic event). There are no mapped landslides located at the proposed bridge site.

Liquefaction

Liquefaction is the phenomenon whereby soils lose shear strength and exhibit fluid-like flow characteristics. Liquefaction is generally associated with seismic ground shaking and occurs primarily in loose, unconsolidated and saturated (or near saturated) granular (sandy) materials at depths of less than approximately 100 feet. Settlement and shifting of surficial deposits as a result of liquefaction can substantially affect structures and foundations due to the loss of support.

Based on the widespread occurrence of sandy alluvial materials within the proposed project vicinity and the anticipated presence of shallow groundwater, the proposed project would be subject to potential effects related to seismically induced liquefaction. The proposed bridge would be located in a liquefaction hazard zone as indicated by the Seismic Hazards Map for the Newhall Quadrangle (Figure 2.8-2). This hazard zone includes much of the Santa Clara River.

2.8.3 Environmental Effects

Alternative 1: Bridge Alternative

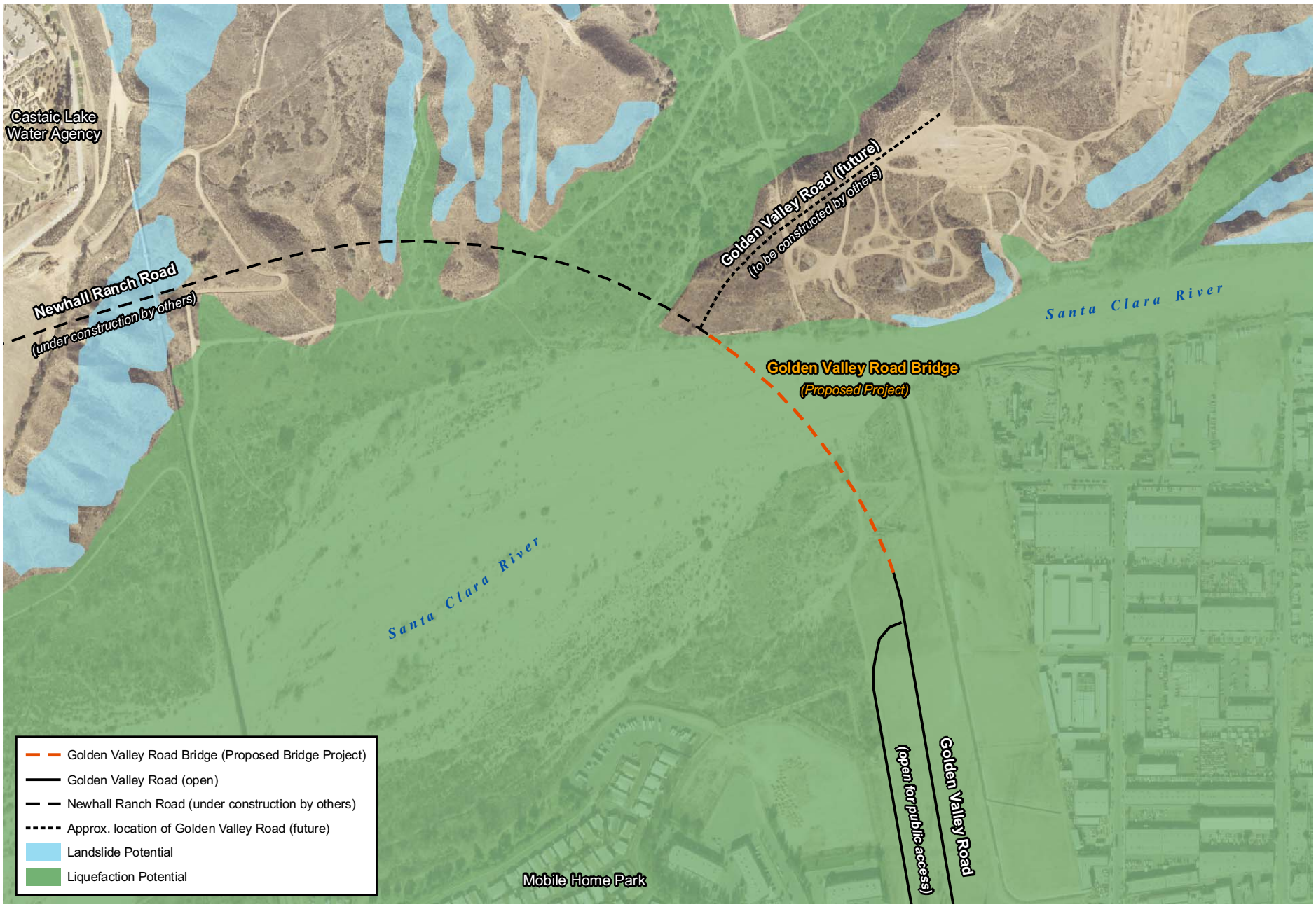
Faults and Seismicity

No faults have been mapped in or within the immediate vicinity of the proposed action, and the proposed bridge does not lie in an Alquist-Priolo Earthquake Fault Zone.

Consequently, the site is not considered subject to surface rupture and soil cracking. The potential for surface rupture and soil cracking from distant active sources is likewise negligible. There is some potential for seismic settlement to result from future seismic events; however, mitigation measure GEO-A (described below) would reduce these effects below an adverse level.

Liquefaction and Lateral Spreading Potential

The bridge is located in a liquefaction hazard zone (see Figure 2.8-2) as identified on the California Division of Mines (CDMG) Seismic Hazard Zones map, requiring that the



Source: City of Santa Clarita, 2002, 2005

0 125 250 500 750 1,000 Feet
1 inch equals 500 feet
N

Figure 2.8-2
Liquefaction and Landslide Potential

design and construction comply with Public Resources Code Section 2693(c). Adherence to the CDMG requirements and Caltrans' statutory requirements for soils potentially subject to liquefaction and lateral spreading would reduce the effects of liquefaction.

Expansive Soils

There is potential for the fine-grained units of the Saugus Formation to be expansive. Furthermore, artificial fill at the proposed bridge site may also contain potentially expansive material. Geotechnical investigations during design, as required in mitigation measure GEO-B (described below), would confirm the presence and determine the appropriate treatment of any expansive soils. The recommendations may include standard measures for removing, replacing, or treating unsuitable materials. Inclusion of mitigation measures GEO-B and GEO-C (described below) would reduce the potentially adverse effects from expansive soils.

Seiche, Tsunami, or Mudflow

The site lies over 25 miles from the ocean, at an elevation of approximately 1,200 feet. Consequently, the risk of inundation by tsunami is considered negligible.

As discussed in Section 2.6, Castaic Reservoir lies approximately 7.5 miles northwest of the bridge site and Bouquet Canyon Reservoir is just over 12 miles northeast of the bridge site. According to the Flood and Inundation Hazards map (Plate 6) in the County of Los Angeles' General Plan Safety Element (1990), the proposed bridge site is located outside of the inundation area for both Castaic Lake and Bouquet Canyon Reservoir. Consequently, there would be no risk that the bridge would be inundated by a seiche.

The proposed project site is located within the direct influences of the Santa Clara River; therefore, the potential for mud or debris flows to affect the proposed project site does exist. However, the proposed bridge would be constructed to withstand the 100-year flood requirements as determined by FEMA. Mitigation measure GEO-D (described below) would reduce the effects of debris and mud flow to below adverse levels.

Alternative 2: No Build Alternative

The No Build Alternative would result in continued use of the site in its current condition. The existing geological conditions and associated hazards would remain; however, as the proposed bridge would not be constructed, no new structures or populations would be exposed to seismic or other geological hazards. Consequently, there would be no adverse effect related to geological, soils, or seismic hazards from the No Build Alternative.

2.8.4 Avoidance, Minimization, and/or Mitigation Measures

Alternative 1: Bridge Alternative

Effects related to geology, soils, and seismic hazards would be lessened through the implementation of the following mitigation measures:

GEO-A A geological engineer certified within the State of California shall evaluate the potential for seismic settlement (dynamic densification) during future seismic events in the alluvial and slopewash areas of the site and shall provide recommendations to minimize the effects of seismic settlement on the proposed bridge. The results of this assessment shall be incorporated into the bridge design. Prior to construction commencement, the City of Santa Clarita's Director of Public Works shall certify, on the final bridge plans and specifications, that this requirement has been met. The City's Director of Public Works shall sign and date this statement.

GEO-B A geological engineer certified within the State of California shall evaluate the hydroconsolidation (consolidation of earth materials upon wetting) potential of the thick slopewash deposits and portions of the alluvium and shall provide recommendations to minimize the deleterious effects of hydroconsolidation on the proposed bridge. The results of this assessment shall be incorporated into the bridge design. Prior to construction commencement, the City of Santa Clarita's Director of Public Works shall certify, on the final bridge plans and

specifications, that this requirement has been met. The City's Director of Public Works shall sign and date this statement.

GEO-C Prior to construction commencement, a geological engineer shall test for and identify expansive materials located within the bridge's abutments and piers. During excavation and grading, expansive soils shall be replaced with materials that have very low to nonexpansive characteristics, as defined by Caltrans Offices of Geotechnical Design; alternatively, the expansive soil may be treated with additives to lower the expansion index, as approved by Caltrans specifications. The bridge engineers and geological engineers shall provide input on the recommended treatment; however, the final decision shall be at the discretion of the City of Santa Clarita's Director of Public Works, who shall certify, on the final bridge plans and specifications, that this requirement has been met by completing the following statement: "Expansive materials have been identified in the areas shown on the attached plan and remediated/treated as follows:…" The City's Director of Public Works shall sign and date this statement.

GEO-D The City of Santa Clarita shall design the bridge to minimize potential debris flow hazards. This shall be achieved by selecting appropriate structural locations, constructing effect or debris walls and/or debris basins, control of runoff, or removal of loose surficial materials. The City Department of Public Works shall document the technique used to minimize potential debris flow hazards on the final plans and shall sign and date this statement.

Alternative 2: No Build Alternative

There would be no adverse effects on geology, soils, seismicity, and topography as a result of the No Build Alternative; consequently, no avoidance, minimization, and/or mitigation measures are proposed.

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2.9 HAZARDOUS WASTE AND MATERIALS

This section addresses the potential for the proposed project to expose people to hazards and hazardous wastes. The following discussion focuses on the potential for hazardous materials to affect public health and safety during construction and operation of the proposed bridge. An Initial Site Assessment (ISA) for hazardous waste sites was prepared in June 2006 for the Golden Valley Bridge Project as found in Appendix F. The report identifies possible sources of hazards and hazardous waste and discusses their potential effect on the proposed project, as well as outlining mitigation measures to address their effects.

2.9.1 Regulatory Setting

Hazardous materials and hazardous wastes are regulated by state and federal laws, which not only include specific statues governing hazardous waste, but also a variety of laws regulating air and water quality, human health, and land use.

The primary federal laws regulating hazardous wastes/materials are the Resource Conservation and Recovery Act of 1976 (RCRA) and the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA). The purpose of CERCLA, often referred to as Superfund, is to clean up contaminated sites so that public health and welfare are not compromised. RCRA provides for “cradle to grave” regulation of hazardous wastes. Other federal laws include:

- Community Environmental Response Facilitation Act of 1992
- Clean Water Act
- Clean Air Act
- Safe Drinking Water Act
- Occupational Safety & Health Act
- Atomic Energy Act
- Toxic Substances Control Act
- Federal Insecticide, Fungicide, and Rodenticide Act

In addition to the acts listed above, Executive Order 12088, Federal Compliance with Pollution Control, mandates that necessary actions be taken to prevent and control environmental pollution when federal activities or federal facilities are involved.

Hazardous waste in California is regulated primarily under the authority of RCRA and the California Health and Safety Code. Other California laws that affect hazardous waste are specific to handling, storage, transportation, disposal, treatment, reduction, cleanup, and emergency planning. Worker health and safety and public safety are key issues when dealing with hazardous materials that may affect human health and the environment. Proper disposal of hazardous material is vital if it is disturbed during project-related construction activities.

Hazardous substances are defined by state and federal regulations as substances that must be regulated to protect public health and the environment. Typical hazardous substances are toxic, corrosive, ignitable, explosive, or chemically reactive. The term "hazardous substances" encompasses every chemical regulated by the U.S. Department of Transportation (USDOT), including those potentially used in an emergency response. Hazardous materials are generally chemicals that have the capacity to cause a health hazard or harm to the environment during an accidental release or mishap.

According to CCR Title 22, Chapter 11, Article 3, substances that are toxic, ignitable, corrosive, or reactive are considered hazardous. Hazardous wastes are hazardous substances that no longer have a practical use, such as materials that have been abandoned, discarded, spilled, or contaminated, or materials that are being stored prior to disposal. They are a by-product of processes and/or activities that can pose a substantial or potential hazard to human health or the environment when improperly managed.

Toxic substances may cause short-term or long-term health effects, ranging from temporary effects to permanent disability or death. Examples of toxic substances include most heavy metals, pesticides, benzene, gasoline, hexane, sulfuric acid, lye, explosives, pressurized canisters, and radioactive and biohazardous materials. Soils may also become toxic due to toxic substance spills.

2.9.2 Affected Environment

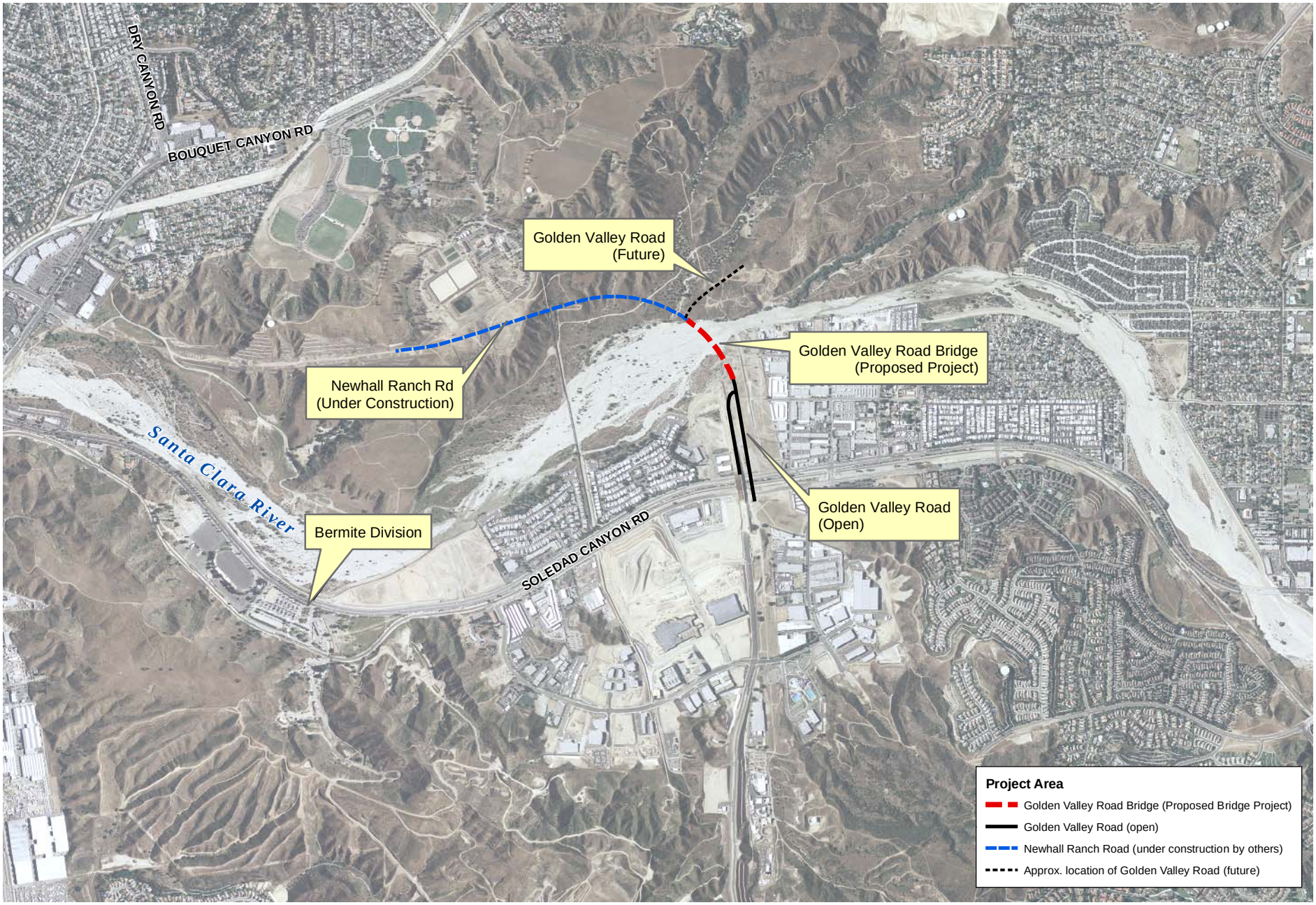
A hazards report documenting hazardous waste sites was prepared for the Golden Valley Road bridge in June 2006. All nearby state classified hazards and hazardous waste sites were identified from a governmental record list compiled by Environmental Data Resources (EDR). The records search was conducted to identify business types located within the vicinity of the action likely to store, transfer, or utilize large quantities of hazardous materials. Based on prior reports, site visits, and research information, the bridge site does not contain any known hazardous waste or concern for hazardous waste contamination. One nearby site has been identified as an "Area of Potential Concern." The Bermite Division of Whittaker site is an active California EPA Agency Annual Workplan site located within 1/8 mile of the proposed action (Figure 2.9-1). The site may have groundwater and soil contamination and, though the proposed action would not encroach on the contaminated site, there is a possibility that contaminated groundwater may have migrated underneath the bridge site.

The June 2006 ISA also discusses a visual site survey undertaken on March 11, 2003 (EDAW 2003). Evidence of construction concrete dumping and minor amounts of trash and debris were noted in the area surrounding the bridge site.

2.9.3 Environmental Effects

Alternative 1: Bridge Alternative

Existing and past land use activities are potential indicators of hazardous material storage and use at individual sites. As noted in Section 2.9.2, the Bermite Division of the Whittaker site has been identified as an Area of Potential Concern. The Bermite site was used for the manufacturing of fireworks, explosives, rockets, and munitions. Portions of the site were also used as onsite disposal and storage for hazardous waste. Part of the Bermite site is currently in a purchase offer with the City, which plans to construct a commuter railroad station on the site. The EDR report indicates that the Bermite site is contaminated with ammonium perchlorate (perchlorate), which is an inorganic chemical widely used in the manufacture of fireworks, explosives, and rocket propellants. Several sections of the site have undergone soil mediation cleanup, which has allowed those



Source: City of Santa Clarita 2002, 2005; NAIP 2005

N

0.4 0.2 0 0.4 Miles

1 inch equals 0.4 miles

Figure 2-9-1
Project Location and Bermite Division of Whitaker Site

Path: P:\2002\2K053 Cross Valley\5GIS\MXD\SD_new_mxds\bermite_division.mxd, 01/25/08, LeeJ

portions of the site to be used for municipal purposes, including a new Metrolink station and a school. Several studies cited in the ISA indicate that the extent and potential treatment of groundwater contamination and the observed level of perchlorate contamination decrease at a faster rate north of the Bermite site. As the proposed bridge site is north of the Bermite site, there is a low potential for encountering groundwater and perchlorate contamination when constructing the Golden Valley Road bridge. Mitigation measures HAZ-A and HAZ-B (described below) would reduce hazardous materials effects to below adverse levels.

Although groundwater contamination has not been documented in the action area, past use of the action area for agricultural purposes creates the potential to encounter groundwater contaminated with pesticides, herbicides, fertilizers, or other agricultural chemicals. If dewatering is required during construction, the City would be required to implement water quality measures, as discussed in Section 2.7.

Alternative 2: No Build Alternative

Under the No Build Alternative, there would be no construction and, consequently, no change in the risk of human exposure to hazards or hazardous materials. Under the No Build Alternative, there would be no hazards effects.

2.9.4 Avoidance, Minimization, and/or Mitigation Measures

Alternative 1: Bridge Alternative

HAZ-A The Bermite Division of Whittaker site is considered an Area of Potential Concern. Though low, there is the potential of encountering contaminated groundwater when constructing the Golden Valley Road bridge. If groundwater is encountered during construction, the Department of Toxic Substances Control (DTSC) shall be notified and the water shall be tested for contamination by the City of Santa Clarita. Construction techniques that minimize or eliminate the need for groundwater extraction shall be applied to the design of the bridge. Furthermore, groundwater and soils within the footprint of the proposed bridge shall be tested for perchlorate contamination during the final design of the

project. Should perchlorate be encountered, the City shall notify DTSC to obtain advice on appropriate remediation and/or treatment of the groundwater.

HAZ-B Should the City of Santa Clarita anticipate encountering groundwater during construction, a dewatering permit shall be obtained from the RWQCB prior to the start of construction. A dewatering permit covers discharges from dewatering operations and groundwater extractions.

Alternative 2: No Build Alternative

There would be no adverse effects on hazardous waste and materials as a result of the No Build Alternative; consequently, no avoidance, minimization, and/or mitigation measures are proposed.

2.10 AIR QUALITY

This section provides an assessment of potential air quality effects associated with the Golden Valley Road Bridge Project, particularly those that can be traced principally to motor vehicles and construction equipment. This evaluation addresses conformance with the State Implementation Plan (SIP), local carbon monoxide (CO) impacts, and construction emissions generated by implementation of the project. The information in this section is based on the analysis in the technical report entitled *Air Quality Impact Analysis: Golden Valley Road Bridge, Santa Clarita, California* as found in Appendix G.

"Air pollution" is a general term that refers to one or more chemical substances that degrade the quality of the atmosphere. Individual air pollutants may adversely affect human or animal health, reduce visibility, damage property, and reduce the productivity or vigor of crops and natural vegetation.

The U.S. EPA has identified the seven following air pollutants as being of concern nationwide: CO, ozone (O_3), nitrogen dioxide (NO_2), respirable particulate matter sized 10 microns or less (PM_{10}) and fine particulate matter sized 2.5 microns or less ($PM_{2.5}$), sulfur dioxide (SO_2), and lead (Pb).

Carbon Monoxide (CO): CO is a colorless and odorless gas that, in the urban environment, is associated primarily with the incomplete combustion of fossil fuels in motor vehicles. Relatively high concentrations are typically found near crowded intersections and along heavily used roadways carrying slow-moving traffic. Even under the severest meteorological and traffic conditions, high concentrations of CO are limited to locations within a relatively short distance (300 to 600 feet) of heavily traveled roadways. Overall CO emissions are decreasing because of the Federal Motor Vehicle Control Program, which has mandated increasingly lower emission levels for vehicles manufactured since 1973. CO concentrations are typically higher in winter. As a result, California has required the use of oxygenated gasoline in the winter months to reduce CO emissions. CO interferes with the transfer of oxygen to the blood, which causes dizziness and fatigue and may also impair central nervous system functions.

Ozone (O_3): O_3 is the principal component of smog and is formed in the atmosphere through a series of reactions involving volatile organic compounds (VOC) and nitrogen oxides (NO_X) in the presence of sunlight. VOC and NO_X are called precursors of O_3. NO_X includes various combinations of nitrogen and oxygen, including NO, NO_2, nitrogen trioxide (NO_3), etc. O_3 is a principal cause of lung and eye irritation in the urban environment. Considerable O_3 concentrations are normally produced only in the summer, when atmospheric inversions are greatest and temperatures are high. VOC and NO_X emissions are both considered critical in O_3 formation. Control strategies for O_3 have focused on emissions from vehicles, industrial processes using solvents and coatings, and consumer products.

Nitrogen Dioxide (NO_2): NO_2 is a product of combustion and is generated in vehicles and in stationary sources, such as power plants and boilers. NO_2 can cause lung damage. As noted above, NO_2 is part of the NO_X family and is a principal contributor to O_3 and smog.

Respirable Particulate Matter (PM_{10}): Respirable particulate matter includes both liquid and solid particles equal to or less than 10 microns in diameter. Particulates can be inhaled and cause adverse health effects such as increased respiratory disease, lung damage, and premature death. Particulates in the atmosphere come from dust- and fume-producing industrial and agricultural operations, combustion, and atmospheric photochemical reactions. In urban areas, sources of particulates include demolition, construction, and vehicular traffic. Natural sources include windblown dust and ocean spray. Control of PM_{10} is accomplished through controlling dust at construction sites, cleaning paved roads, and wetting or paving frequently used unpaved roads.

Fine Particulate Matter ($PM_{2.5}$): The sources, health effects, and control of $PM_{2.5}$ are similar to those of PM_{10}. In 1997, the U.S. EPA determined that the health effects of $PM_{2.5}$ were severe enough to warrant additional standards, and standards for $PM_{2.5}$ became effective on September 15, 1997. The U.S. Supreme Court affirmed the standards, and policies and systems to implement these new standards. Formal attainment classifications for $PM_{2.5}$ were formally published on December 17, 2004, by

the U.S. EPA (2004). The South Coast Air Basin is a nonattainment area for $PM_{2.5}$. The California Air Resources Board (ARB) must submit a $PM_{2.5}$ SIP to the U.S. EPA by April 5, 2008. The $PM_{2.5}$ attainment year for the South Coast Air Basin is 2010, with a possible 5-year extension to 2015 (SCAG 2006b).

Sulfur Dioxide (SO_2): SO_2 is a combustion product, with the primary source being power plants and heavy industry that use coal or oil as fuel. SO_2 is also a product of diesel engine combustion. The health effects of SO_2 include lung disease and breathing problems for asthmatics. SO_2 in the atmosphere contributes to the formation of acid rain. In the South Coast Air Basin, there is relatively little use of coal and oil, and SO_2 is of lesser concern than in many other parts of the country.

Lead (Pb): Pb is a stable compound that persists and accumulates both in the environment and in animals. The Pb used in gasoline anti-knock additives represents a major source of Pb emissions to the atmosphere. However, Pb emissions have greatly decreased due to the near elimination of the use of leaded gasoline.

2.10.1 Regulatory Setting

The Clean Air Act as amended in 1990 is the federal law that governs air quality, which sets the standard for the quantity of pollutants that can be in the air. These standards are called National Ambient Air Quality Standards (NAAQS). Standards have been established for the following six criteria pollutants that have been linked to potential health concerns: CO, NO_2, O_3, particulate matter (PM), Pb, and SO_2.

Under the 1990 Clean Air Act Amendments, the USDOT cannot fund, authorize, or approve federal actions to support programs or projects that are not first found to conform to the SIP for achieving the goals of the Clean Air Act requirements. Conformity with the Clean Air Act takes place on two levels—first, at the regional level and second, at the project level. The proposed project must conform at both levels to be approved.

Regional level conformity in California is concerned with how well the region is meeting the standards set for CO, NO_2, O_3, and PM. California is in attainment for the other criteria pollutants. At the regional level, RTPs are developed that include all of the

transportation projects planned for a region over a period of years, usually at least twenty. Based on the projects included in the RTP, an air quality model is run to determine whether implementing those projects would conform to emission budgets or other tests showing that attainment requirements of the Clean Air Act are met. If the conformity analysis is successful, the regional planning organization, in the case of this project, the SCAG, and the appropriate federal agencies, such as the FHWA, make the determination that the RTP is in conformity with the SIP for achieving the goals of the Clean Air Act. Otherwise, the projects in the RTP must be modified until conformity is attained. If the design and scope of the proposed transportation project are the same as described in the RTP, then the proposed project is deemed to meet regional conformity requirements for purposes of project-level analysis. For approval, a project must conform with both the RTP and the Regional Transportation Improvement Program (RTIP). The current RTP, the 2006 RTP was adopted in July 2006. The air quality conformity determination for the 2006 RTP was approved October 2, 2006. The most recent version of the RTP, titled the *Final 2004 Regional Transportation Plan Amendment and 2006 Regional Transportation Improvement Program Amendment*, was adopted on February 2, 2006. The 2006 RTIP was adopted by SCAG on July 27, 2006, approved by Caltrans on August 31, 2006, and approved by FHWA/Federal Transit Administration (FTA) on October 2, 2006.

Conformity at the project-level also requires “hot spot” analysis if an area is “nonattainment” or “maintenance” for CO and/or PM. A region is a nonattainment area if one or more monitoring stations in the region fail to attain the relevant standard. Areas that were previously designated as nonattainment areas but have recently met the standard are called maintenance areas. Hot spot analysis is essentially the same, for technical purposes, as CO or PM analysis performed for NEPA and CEQA purposes. Conformity does include some specific standards for projects that require a hot spot analysis. In general, projects must not cause the CO standard to be violated, and in nonattainment areas the project must not cause any increase in the number and severity of violations. If a known CO or PM violation is located in the project vicinity, the project must include measures to reduce or eliminate the existing violation(s) as well.

Federal and State Standards

The federal Clean Air Act (42 USC §§ 7401-7671q) requires the adoption of NAAQS to protect the public health and welfare from the effects of air pollution. The NAAQS have been updated as needed. Current standards are set for SO_2, CO, NO_2, O_3, PM_{10}, $PM_{2.5}$, and Pb. The ARB has established additional standards that are generally more stringent than the NAAQS. Both federal and state standards are shown in Table 2.10-1.

Areas are classified under the federal Clean Air Act as either attainment or nonattainment areas for each criteria pollutant based on whether the NAAQS have been achieved or not. The Los Angeles County portion of the air basin is currently classified as a federal and state nonattainment area for O_3, CO, and PM_{10}; the air basin currently meets the federal and state standards for NO_2, SO_2, and Pb and is classified as an attainment area for these pollutants.

Regional Authority

In the South Coast Air Basin, the South Coast Air Quality Management District (SCAQMD) is the agency responsible for the administration of federal and state air quality laws, regulations, and policies. Included in the SCAQMD's tasks are monitoring of air pollution, preparation of the SIP for the South Coast Air Basin, and the promulgation of its Rules and Regulations. The SIP includes strategies and tactics to be used to attain the federal O_3 standard in the Los Angeles – South Coast Air Basin area. The SIP elements are taken from the 2003 Air Quality Management Plan (AQMP), the SCAQMD plan for attaining the state O_3 standard (ARB 2003). The Rules and Regulations include procedures and requirements to control the emission of pollutants and to prevent adverse effects. SCAQMD regulations require that any equipment that emits or controls air contaminants, such as NO_X and reactive organic compounds (ROC), be permitted prior to construction, installation, or operation (Permit to Construct or Permit to Operate). The SCAQMD is responsible for review of applications and for the approval and issuance of these permits.

Table 2.10-1
California and National Ambient Air Quality Standards

Pollutant	Averaging Time	NAAQS[1]		CAAQS[2]
		Primary[3]	Secondary[4]	Concentration[5]
Ozone (O_3)	1-Hour	Note 6	-	0.09 ppm (180 µg/m^3)
	8-Hour	0.08 ppm (157 µg/m^3)	Same as Primary Standard	0.070 ppm (137 µg/m^3)
Carbon Monoxide (CO)	8-Hour	9.0 ppm (10 mg/m^3)	None	9.0 ppm (10 mg/m^3)
	1-Hour	35 ppm (40 mg/m^3)		20 ppm (23 mg/m^3)
Nitrogen Dioxide (NO_2)	Annual Average	0.053 ppm (100 µg/m^3)	Same as Primary Standard	-
	1-Hour	-		0.25 ppm (470 µg/m^3)
Sulfur Dioxide (SO_2)	Annual Average	0.03 ppm (80 µg/m^3)	-	-
	24-Hour	0.14 ppm (365 µg/m^3)	-	0.04 ppm (105 µg/m^3)
	3-Hour	-	0.5 ppm (1300 µg/m^3)	-
	1-Hour	-	-	0.25 ppm (655 µg/m^3)
Suspended Particulate Matter (PM_{10})	24-Hour	150 µg/m^3 note 9	-	50 µg/m^3
	Annual Arithmetic Mean	~~50 µg/m^3~~	Same as Primary Standard	20 µg/m^3 note 7
Fine Particulate Matter ($PM_{2.5}$)	24-Hour	~~65~~ 35 µg/m^3 note 10	-	-
	Annual Arithmetic Mean	15 µg/m^3	Same as Primary Standard	12 µg/m^3 note 7
Lead (Pb)[8]	30-Day Average	-	-	1.5 µg/m^3
	Calendar Quarter	1.5 µg/m^3	Same as Primary Standard	-
Hydrogen Sulfide (HS)	1-Hour	No Federal Standards		0.03 ppm (42 µg/m^3)
Sulfates (SO_4)	24-Hour			25 µg/m^3
Visibility Reducing Particles	8-Hour (10 am to 6 pm, Pacific Standard Time)			In sufficient amount to produce an extinction coefficient of 0.23 per km due to particles when the relative humidity is less than 70 percent.
Vinyl chloride[8]	24-Hour			0.01 ppm (26 µg/m^3)

1 NAAQS (other than O_3, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once a year. The O_3 standard is attained when the fourth highest 8-hour concentration in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is not to be exceeded more than once per year. The annual standard is attained when the 3-year average of the weighted annual mean at each monitor within an area does not exceed 50 µg/m^3. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over 3 years, do not exceed 65 µg/m^3. The annual standard is attained when the 3-year average of the weighted annual mean at single or multiple community-oriented monitors does not exceed 15 µg/m^3.

2 California Ambient Air Quality Standards for O_3, CO (except Lake Tahoe), SO_2 (1- and 24-hour), NO_2, PM_{10}, and visibility reducing particles, are values that are not to be exceeded. All others are not to be equaled or exceeded.

3 National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

4 National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

5 Concentration expressed first in units in which it was promulgated. Ppm in this table refers to ppm by volume or micromoles of pollutant per mole of gas.

6 The federal 1-hour O_3 standard was revoked for most areas of the United States, including all of California on June 15, 2005.

7 On June 5, 2003, the Office of Administrative Law approved the amendments to the regulations for the state ambient air quality standards for particulate matter and sulfates. Those amendments established a new annual average standard for $PM_{2.5}$ of 12 µg/m^3 and reduced the level of the annual average standard for PM_{10} to 20 µg/m^3. The approved amendments were filed with the Secretary of State on June 5, 2003. The regulations became effective on July 5, 2003.

8 The CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

9 The EPA has revoked the annual standard for PM_{10}; the revocation was effective December 18, 2006

10 The 24-hour standard for $PM_{2.5}$ has been reduced from 65 µg/m^3 to 35 µg/m^3, effective December 18, 2006.

ppm = parts per million; µg/m^3 = micrograms per cubic meter; mg/m^3 = milligrams per cubic meter; km = kilometer
Source: ARB 2006b; USEPA 2006

SCAQMD's AQMP and SIP

The current AQMP in the South Coast Air Basin is the 2003 AQMP, which is an update to the 1997 AQMP. The 2003 AQMP employs up-to-date science and analytical tools and incorporates a comprehensive strategy aimed at controlling pollution from all sources, including stationary sources, on-road and off-road mobile sources, and area sources. The 2003 AQMP proposes policies and measures to achieve federal and state standards for healthful air quality in the South Coast Air Basin. The 2003 AQMP updates the demonstration of attainment with the federal standards for O_3 and PM_{10}; replaces the 1997 attainment demonstration for the federal CO standard and provides a basis for a maintenance plan for CO for the future; and updates the maintenance plan for the federal NO_2 standard that the South Coast Air Basin has met since 1992 (SCAQMD 2006). The 2003 AQMP was adopted by the SCAQMD in August 2003 and approved, with modifications, by the ARB in October 2003 (ARB 2003). The U.S. EPA is reviewing the 2003 AQMP and approval is pending.

SCAQMD Significance Criteria

The SCAQMD has established thresholds of significance for air quality for construction activities and project operation (Table 2.10-2). Only the thresholds for construction activities are applicable to this project.

Table 2.10-2
SCAQMD Air Quality Significance Thresholds

Mass Daily Thresholds		
Pollutant	**Construction**	**Operation**
NO_X	100 lbs/day	55 lbs/day
VOC[1]	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
SO_X	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day
Toxic Air Contaminants (TACs) and Odor Thresholds		
TACs (including carcinogens and noncarcinogens)	Maximum Incremental Cancer Risk ≥ 10 in 1 million Hazard Index ≥ 1.0 (project increment) Hazard Index ≥ 3.0 (facilitywide)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	

Ambient Air Quality for Criteria Pollutants	
NO_2 1-hour average annual average	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 0.25 ppm (state) 0.053 ppm (federal)
PM_{10} 24-hour average annual geometric average annual arithmetic mean	 10.4 $\mu g/m^3$ (recommended for construction) 2.5 $\mu g/m^3$ (operation) 1.0 $\mu g/m^3$ 20 $\mu g/m^3$
Sulfate 24-hour average	 25 $\mu g/m^3$
CO 1-hour average 8-hour average	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 20 ppm (state) 9.0 ppm (state/federal)

lbs/day = pounds per day; ppm = parts per million; $\mu g/m^3$ = micrograms per cubic meter
[1]VOC – volatile organic compounds. For purposes of this report, VOC are the same as ROC, and ROC is the term used for this report.
Source: SCAQMD 2006

Conformity of Federal Actions

The Clean Air Act Amendments of 1990 (Pub. L. 101-549, 104 Stat. 2399) require the U.S. EPA to promulgate rules to ensure that federal actions conform to the appropriate SIP. These rules, known together as the General Conformity Rule (40 CFR § 51.100 et seq. and § 93.100 et seq.), require any federal agency responsible for an action to determine if its action conforms with pertinent guidelines and regulations.

Section 176(c) of the Clean Air Act requires the following:

> "No department, agency, or instrumentality of the Federal Government shall engage in, support in any way or provide financial assistance for, license or permit, or approve, any activity which does not conform to an implementation plan after it has been approved….

Conformity to an implementation plan means:

(A) conformity to an implementation plan's purpose of eliminating or reducing the severity and number of violations of the national ambient air quality standards and achieving expeditious attainment of such standards; and

(B) that such activities will not

(i) cause or contribute to any new violation of any standard in any area;

(ii) increase the frequency or severity of any existing violation of any standard in any area; or

(iii) delay timely attainment of any standard or any required interim emission reductions or other milestones in any area."

The determination of conformity shall be based on the most recent estimates of emissions, and such estimates shall be determined from the most recent population, employment, travel, and congestion estimates as determined by the metropolitan planning organization or other agency authorized to make such estimates.

In November 1993, the USDOT and U.S. EPA developed guidance for determining conformity of transportation plans, programs, and projects. This guidance is denoted as the Transportation Conformity Rule (40 CFR §§ 51.390-464 and 40 CFR §§ 93.100-136).

SCAG is the metropolitan planning organization responsible for the preparation of regional plans regarding transportation and the associated air quality analyses. The regional plans are the RTP and RTIP. The current RTP, the 2006 RTP, was adopted in July 2006. The air quality conformity determination for the 2006 RTP was approved October 2, 2006. The most recent version of the RTP, titled the *Final 2004 Regional Transportation Plan Amendment and 2006 Regional Transportation Improvement Program Amendment*, was adopted on February 2, 2006. SCAG is currently soliciting input for the 2007 RTP (SCAG 2006a). The 2006 RTIP was adopted by SCAG on

July 27, 2006, approved by Caltrans on August 31, 2006, and approved by FHWA/FTA on October 2, 2006.

2.10.2 Affected Environment

Meteorology and Climate

Air quality is affected by both the rate and location of pollutant emissions and by meteorological conditions, which influence movement and dispersal of pollutants. Atmospheric conditions such as wind speed, wind direction, and air temperature gradients, along with local topography, provide the link between air pollutant emissions and air quality.

The distinctive climate of the South Coast Air Basin is determined by its terrain and geographic location. The South Coast Air Basin is a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean to the southwest and high mountains around the rest of its perimeter. The general region lies in the semipermanent high-pressure zone of the eastern Pacific, resulting in a mild climate tempered by cool sea breezes with light average wind speeds. The usually mild climatological pattern is interrupted occasionally by periods of extremely hot weather, winter storms, or Santa Ana winds.

The vertical dispersion of air pollutants in the air basin is hampered by the presence of persistent temperature inversions. High-pressure systems, such as the semipermanent high-pressure zone in which the air basin is located, are characterized by an upper layer of dry air that warms as it descends, restricting the mobility of cooler marine-influenced air near the ground surface, and resulting in the formation of subsidence inversions. Such inversions restrict the vertical dispersion of air pollutants released into the marine layer and, together with strong sunlight, can produce worst-case conditions for the formation of photochemical smog. The basinwide occurrence of inversions at 3,500 feet above sea level or less averages 191 days per year (SCAQMD 1993).

The atmospheric pollution potential of an area is largely dependent on winds, atmospheric stability, solar radiation, and terrain. The combination of low wind speeds

and low inversions produces the greatest concentration of air pollutants. On days without inversions, or on days of winds averaging over 15 miles per hour, smog potential is greatly reduced.

Santa Clarita is located in Los Angeles County north of the San Fernando Valley, surrounded by the Santa Susana and San Gabriel mountain ranges on the southeast and west, and the Sierra Pelona Mountains on the north. Santa Clarita is situated in the transitional microclimatic zone of the South Coast Air Basin, located between two climate types, known as "valley marginal" and "high desert." Due to the city's location, it usually escapes the damp coastal air and fog. The summers are typically hot and the winters are typically sunny and warm.

Santa Clarita's climate is relatively mild. Annual average daytime temperatures range from 89.7 degrees Fahrenheit (°F) in summer to 63.6°F in winter. Low temperatures average 58.9°F in summer to 41.3 °F in winter. Annual precipitation of Santa Clarita is 13.10 inches, which occurs almost exclusively between late October and April (WRCC 2004).

Regional and Local Air Quality

Specific geographic areas are classified as either attainment or nonattainment areas for each pollutant based upon the comparison of measured data with federal and state standards. As previously mentioned, the Los Angeles County portion of the air basin is currently classified as a federal and state nonattainment area for O_3, PM_{10}, and PM_{10}. The entire air basin is currently classified as a federal and state attainment area for NO_2, SO_2, and Pb pollutants (Table 2.10-3).

Ambient air pollutant concentrations in Los Angeles County are measured at 13 air quality monitoring stations operated by the SCAQMD. The nearest air quality monitoring station to the project site is the Santa Clarita Air Quality Monitoring Station 089 (Santa Clarita Station), which is located at 24875 San Fernando Road, approximately 2.5 miles southwest of the project site. Table 2.10-4 presents a summary of the highest pollutant values recorded at this station from 2003 to 2005.

Table 2.10-3
Attainment for Los Angeles County Portion of the South Coast Air Basin

Pollutant	Attainment Status	
	Federal	State
O_3 8-Hour	Nonattainment Severe	Nonattainment
CO	Serious Nonattainment[1]	Attainment
PM_{10}	Serious Nonattainment	Nonattainment
$PM_{2.5}$	Nonattainment	Nonattainment
NO_2	Attainment	Attainment
SO_2	Attainment	Attainment
Pb	Attainment	Attainment

[1] Redesignation to attainment was submitted to the U.S. EPA for approval in February 2006.
Source: U.S. EPA 2006; ARB 2006b

Table 2.10-4
Santa Clarita Monitoring Station – Ambient Air Quality

Pollutant Standards	2003	2004	2005
Ozone (O_3)			
Maximum 1-hour concentration (ppm)	0.194	0.158	0.173
Maximum 8-hour concentration (ppm)	0.152	0.133	0.141
Number of Days Standard Exceeded			
NAAQS 1-hour (>0.12 ppm)	35	13	11
CAAQS 1-hour (>0.09 ppm)	89	69	65
NAAQS 8-hour (>0.08 ppm)	69	52	47
Carbon Monoxide (CO)			
Maximum 8-hour concentration (ppm)	1.7	3.7	1.3
Maximum 1-hour concentration (ppm)	3.3	5.2	2.2
Number of Days Standard Exceeded			
NAAQS 8-hour ($\geq$9.0 ppm)	0	0	0
CAAQS 8-hour ($\geq$9.0 ppm)	0	0	0
NAAQS 1-hour ($\geq$35 ppm)	0	0	0
CAAQS 1-hour ($\geq$20 ppm)	0	0	0
Particulate Matter (PM_{10})[1]			
National maximum 24-hour concentration ($\mu g/m^3$)	72.0	54.0	55.0
National second highest 24-hour concentration ($\mu g/m^3$)	67.0	52.0	44.0
State maximum 24-hour concentration ($\mu g/m^3$)	69.0	52.0	52.0
State second highest 24-hour concentration ($\mu g/m^3$)	64.0	49.0	42.0
National annual average concentration ($\mu g/m^3$)	31.8	28.1	25.6
State annual average concentration ($\mu g/m^3$)	30.3	26.8	24.7
Number of Days Standard Exceeded			
NAAQS 24-hour (>150 $\mu g/m^3$)[2]	0	0	0
CAAQS 24-hour (>50 $\mu g/m^3$)[2]	46.6	6.5	6.1

[1] Measurements usually collected every 6 days.
[2] Based on an estimate of how many days concentrations would have been greater than the standard because samples are collected once every 6 days.
CAAQS = California Ambient Air Quality Standards
NAAQS = National Ambient Air Quality Standards
Sources: ARB 2006b; U.S. EPA 2006

2.10.3 Environmental Effects

Alternative 1: Bridge Alternative

Construction Effects

SCAQMD has established thresholds of significance for air quality for construction activities and project operation as shown in Table 2.10-5. Only the thresholds pertaining to construction are applicable to this project.

Table 2.10-5
SCAQMD Air Quality Significance Thresholds

Mass Daily Thresholds		
Pollutant	**Construction**	**Operation**
NO_X	100 lbs/day	55 lbs/day
VOC[1]	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
SO_X	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day
Toxic Air Contaminants (TACs) and Odor Thresholds		
TACs (including carcinogens and noncarcinogens)	Maximum Incremental Cancer Risk ≥ 10 in 1 million Hazard Index ≥ 1.0 (project increment) Hazard Index ≥ 3.0 (facilitywide)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	
Ambient Air Quality for Criteria Pollutants		
NO_2 1-hour average annual average	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 0.25 ppm (state) 0.053 ppm (federal)	
PM_{10} 24-hour average annual geometric average annual arithmetic mean	 10.4 $\mu g/m^3$ (recommended for construction) 2.5 $\mu g/m^3$ (operation) 1.0 $\mu g/m^3$ 20 $\mu g/m^3$	
Sulfate 24-hour average	 25 $\mu g/m^3$	
CO 1-hour average 8-hour average	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 20 ppm (state) 9.0 ppm (state/federal)	

lbs/day = pounds per day; ppm = parts per million; $\mu g/m^3$ = micrograms per cubic meter
[1] VOC – volatile organic compounds. For purposes of this report, VOC are the same as ROC, and ROC is the term used for this report.
Source: SCAQMD 2006

The principal sources of pollutant emissions during construction are fugitive dust and engine exhaust from construction equipment. Fugitive dust would be created during site clearing, excavation, and grading; vehicle travel on paved and unpaved roads; and material blown from unprotected graded areas, stockpiles, and haul trucks. Fugitive dust includes PM_{10} and $PM_{2.5}$, which are potential health hazards and often contribute to visibility and nuisance effects that occur when dust from construction activities is deposited on residences, vehicles, and vegetation. In construction equipment exhaust, the principal pollutants of concern are NO_X and ROC, the primary constituents in the formation of O_3, a pollutant for which the region is currently considered in nonattainment.

Table 2.10-6 presents the estimated daily emissions from construction of the bridge. No mitigation or emission reduction measures have been included in the calculations.

Table 2.10-6
Estimated Bridge Construction Emissions

Project Phases[1]	ROC (lbs/day)	CO (lbs/day)	NO_X (lbs/day)	PM_{10}[2] (lbs/day)
Grubbing/Land Clearing	8	40	44	17
Grading/Excavation	9	49	55	18
Drainage/Utilities/Sub-Grade	9	44	47	18
Paving	4	18	27	2
Maximum	9	49	55	18
SCAQMD CEQA Significance Threshold	75	550	100	150
Threshold exceeded?	No	No	No	No

[1] Assumes construction start in 2007 with duration of 12 months.
[2] Assumes 3 acres of disturbance per day; 10 acres of total disturbed area; 1 water truck.
Source: Sacramento Air Quality Management District, Road Construction Model 5.1

Toxic Air Contaminants (TACs): Diesel Exhaust Emissions: The only TAC of concern for the proposed project would be particulate exhaust emissions from diesel-fueled engines (diesel PM). Construction of the proposed project would generate diesel PM emissions from the use of off-road diesel equipment for site grading and excavation, paving, and other construction activities. According to ARB, the potential cancer risk from the inhalation of diesel PM, as discussed below, outweighs the potential noncancer health effects (ARB 2003).

Because the use of mobilized equipment would be temporary and the nearest receptors are more than 900 feet from the project site, short-term construction activities would not expose sensitive receptors to substantial TAC concentrations and the effect would not be adverse.

Odors: Minor sources of odors would be present during construction of the bridge. The predominant source of power for construction equipment is diesel engines. Exhaust odors from diesel engines, as well as emissions associated with asphalt paving, may be considered offensive to some individuals. However, because odors would be temporary and would disperse rapidly with distance from the source, construction-generated odors would not result in the frequent exposure of receptors to objectionable odorous emissions. As a result, construction-related odors would not be adverse.

Operational Effects

RTIP and RTP Conformity: The proposed project conforms to both the RTP and the RTIP. The proposed project is included in *Destination 2030: 2004 Regional Transportation Improvement Program (RTP) Appendix I, Project Lists*, on page I-31, as Santa Clarita project LA0B103 - Construct Golden Valley Road from Soledad Canyon to Newhall Ranch Road. 0 to 6 lanes. Less than 0.5 miles - includes bridge over Santa Clara River (SCAG 2006a). The RTP was approved by federal agencies on October 2, 2006, and the USDOT adopted a Clean Air Act conformity determination for the RTIP on that date (SCAG 2006a).

The proposed project is also included in *Final Adopted 2006 Regional Transportation Improvement Program (RTIP)* on page 32, of the Los Angeles County Local Highways Section, as Santa Clarita project LA0B103 - Construct Golden Valley Road from Soledad Canyon to Newhall Ranch Road. 0 to 6 lanes. Less than 0.5 miles - includes bridge over Santa Clara River (SCAG 2006a). The RTIP was approved by federal agencies on October 2, 2006, and the USDOT adopted a Clean Air Act conformity determination for the RTIP on that date (USDOT 2006).

The proposed project is consistent with the description included in the 2006 RTIP and therefore conforms to the RTIP and RTP. Approval of the 2006 RTIP and its air quality conformity analysis by the FHWA and FTA means that the proposed project conforms to the RTIP and RTP.

Carbon Monoxide: The project site is in a federal CO and PM_{10} nonattainment areas, and, consequently, the project must be evaluated for CO and PM_{10} effects at a project level. The *Transportation Project-Level Carbon Monoxide Protocol, UCD-ITS-97-21* (the Protocol), University of California, Davis, December 1997 (UC Davis Institute of Transportation Studies 1997) provides procedures and guidelines for use by agencies to evaluate the potential local level CO effects of a transportation project. Per the Protocol, the project is satisfactory for local CO concentrations and no further analysis is required. A description of the process used to reach this conclusion is provided in the *Air Quality Impact Analysis: Golden Valley Road Bridge, Santa Clarita, California* (EDAW 2006c).

Particulate Matter - PM_{10} and $PM_{2.5}$: A hot spot analysis is defined in 40 CFR 93.101 as an estimation of likely future localized $PM_{2.5}$ or PM_{10} pollutant concentrations and a comparison of those concentrations to the relevant air quality standards. A hot spot analysis assesses the air quality effects on a scale smaller than an entire nonattainment or maintenance area, including, for example, congested roadway intersections and highways or transit terminals. Such an analysis is a means of demonstrating that a transportation project meets Clean Air Act conformity requirements to support state and local air quality goals with respect to potential localized air quality effects. When a hot spot analysis is required, it is included within the project-level conformity determination made by the FHWA or FTA.

Based on the project traffic report (Katz, Okitsu & Associates 2005), a conservative estimate of the maximum Average Annual Daily Traffic (AADT) on Newhall Ranch Road/Golden Valley Road is 50,000. Further, a diesel truck traffic fraction on the roadway is likely 2 to 3 percent. Therefore, the Golden Valley Road Bridge Project is not a project of air quality concern, and no qualitative PM_{10} or $PM_{2.5}$ analysis is required by the FHWA.

Mobile Source Air Toxics (MSAT)

The proposed project would have a low potential for MSAT effects. This assessment is based on FHWA guidance that, although the proposed project would result in a new road, the proposed bridge would not convey the minimum 140,000 AADT required to trigger the MSAT requirements (FHWA 2006). Further, there are no sensitive receptors near the planned Golden Valley Road bridge. The closest existing residential receptors are more than 900 feet away. The closest planned residential development is approximately 800 feet away, and the closest commercial/industrial development is approximately 500 feet away.

Operation of the bridge, particularly as it completes the CVC, would divert traffic from other roads and thus decrease MSAT emissions elsewhere. The U.S. EPA's national control programs are projected to reduce MSAT emissions by 57 to 87 percent between 2000 and 2020. Although there may be local variations in these emissions rates, the magnitude of the U.S. EPA-projected reductions is so great that even after accounting for an increase in the average number of miles driven, MSAT emissions in the study area are likely to decrease in the future in nearly all cases.

Alternative 2: No Build Alternative

The proposed action is needed to improve local circulation, primarily by allowing existing and projected future traffic to avoid Soledad Canyon Road and Bouquet Canyon Road. The proposed Golden Valley Road bridge would connect Newhall Road and Golden Valley Road and provide a continuous roadway throughout Santa Clarita. This east-west connection would help alleviate traffic congestion at local intersections. Without the proposed bridge project, even with the assumed completion of Santa Clarita Parkway, the LOS at Bouquet Canyon Road/Newhall Ranch Road would decline to LOS E during the morning peak hour. LOS at San Fernando Road/Soledad Canyon Road during the morning peak hour would remain at LOS D. Both intersections would decline to LOS F during the evening peak hour, while LOS at other local intersections with Santa Clarita Parkway would range from A to D for each peak hour. Without the proposed project, traffic conditions at these intersections are anticipated to deteriorate to

unacceptable LOS. As future intersection operation worsens with increased traffic, contributions of regional and local emissions would also worsen. With the projected increases in traffic volumes and the potential for a No Build Alternative, the degradation of local air quality is probable.

2.10.4 Avoidance, Minimization, and/or Mitigation Measures

There would be no adverse effects on air quality as a result of the Bridge Alternative or the No Build Alternative; consequently, no avoidance, minimization, and/or mitigation measures are proposed.

BIOLOGICAL RESOURCES

A Natural Environment Study Report for the proposed Golden Valley Road Bridge Project was prepared in October 2006 as found in Appendix H. Biological investigations on the project site were guided by correspondence with the relevant resource agencies. Letters were transmitted to the USFWS and the CDFG requesting agency input regarding sensitive species potentially occurring within the project corridor. The response letters from each of these agencies directed the type and breadth of survey requirements (see Appendix A). The area surveyed for biological resources, known as the biological study area (BSA), is defined as a 500-foot buffer zone that surrounds the centerline of the proposed bridge. The BSA encompasses 58.38 acres. Field analyses included vegetation classification, focused species surveys for arroyo toad and California gnatcatcher biological species reconnaissance, and jurisdictional wetland delineations.

The proposed project is located within the Significant Ecological Area (SEA) number 23 (City 2003). SEA 23 is defined by areas of high biological value within the city limits and managed by the City. These areas were characterized by the County of Los Angeles and adopted by the City as buffer zones for native ecological resources.

As discussed in Section 1.5, the proposed bridge is located within the confines of the NRMP. The proposed project has been designated as NRMP Project #109. The NRMP serves as a long-term management plan for infrastructure projects, such as the proposed project, expected to affect the Santa Clara River and its associated tributaries. An EIS/EIR for the NRMP was approved by the ACOE, RWQCB, and CDFG, and the City is complying with the requirements of the associated Section 404 and 1600 permits issued by the ACOE and CDFG, respectively. Consequently, no permits will be applied for under this EA and there is no discussion in this section of any applications for these permits. The mitigation measures outlined in the NRMP Mitigation Monitoring and Reporting Program (MMRP) are referenced throughout the following sections and included as Appendix I to this EA.

2.11 NATURAL COMMUNITIES

2.11.1 Regulatory Setting

This section of the document discusses natural communities of concern. The focus of this section is on biological communities, not individual plant or animal species. This section also includes information on wildlife corridors and habitat fragmentation. Wildlife corridors are areas of habitat used by wildlife for seasonal or daily migration. Habitat fragmentation involves the potential for dividing sensitive habitat and thereby lessening its biological value.

Habitat areas that have been designated as critical habitat under the FESA are discussed in Section 2.15, Threatened and Endangered Species and Wetlands and Waters of the U.S. are discussed in Section 2.12.

2.11.2 Affected Environment

Vegetation types or communities are assemblages of plant species that usually coexist in the same area. The classifications of vegetation communities in this document correspond with the CDFG manual (2003) and/or Holland (1986) and are based upon the life form of the dominant species within each community and the associated flora. Vegetation types within the Area of Effect (AE) consist primarily of one wetland/riparian community, southern riparian scrub, and one upland scrub community, big sagebrush scrub that border the wetlands within the AE. The remaining two habitat/land cover types present in the AE are nonwetland waters of the U.S. within the river, and disturbed ruderal habitat (Table 2.11-1). In addition, holly-leaf cherry scrub, a native upland community, and disturbed habitat, a nonnative land cover type, occur within the northern portions of the BSA, but outside of the AE; consequently, although they occur close to the bridge site, they would not be directly affected by construction of the bridge.

Table 2.11-1
Vegetation Communities within the Biological Study Area

Vegetation Community	Within BSA in acres	Within AE in acres
Disturbed Riversidian Coastal Sage Scrub	4.38	--
Holly-Leaf Cherry Scrub	2.48	--
Big Sagebrush Scrub	0.96	0.15
Southern Riparian Scrub	15.81	2.24
Ruderal	14.47	0.02
Disturbed Habitat	0.88	--
Nonwetland Waters of the U.S.	19.40	2.07
TOTAL	**58.38**	**4.48**

Native Communities

Riversidian Coastal Sage Scrub - Disturbed

Riversidian coastal sage scrub is an upland native community. Coastal sage scrub is one of the major shrub-dominated (scrub) communities within California. This community occurs on xeric sites with shallow soils. Sage scrub species are typically drought-deciduous plants with shallow root systems. Both of these adaptations allow for the occurrence of sage scrub species on these xeric sites.

Within Los Angeles County, there are several recognized subassociations of Riversidian coastal sage scrub based upon the dominant species. Approximately 4.38 acres of disturbed Riversidian coastal sage scrub occur within the BSA. All the areas within the BSA classified as Riversidian coastal sage scrub are considered disturbed. The manufactured slopes, north of the proposed bridge within the BSA, consist of revegetated Riversidian coastal sage scrub. On these graded slopes, sage scrub species have recently become established over a short period of time, which warrants the classification as sage scrub habitat. Other areas within the BSA have been previously disturbed and have experienced some recovery over the interim. These areas are dominated by early seral species such as coyote bush (*Baccharis pilularis*), California buckwheat (*Eriogonum fasciculatum* var. *foliolosum*), deer weed (*Lotus scoparius*), and felt-leaved yerba santa (*Eriodictyon crassifolium*).

Holly-leaf Cherry Scrub

Holly-leaf cherry scrub is an upland native community. It is a relatively open community that is restricted to steep north-facing slopes that occur within sandstone-derived soils. The sole dominant species that characterizes this community is the holly-leaf cherry (*Prunus ilicifolia* ssp. *ilicifolia*). Most often these stands consist of tall shrubby individuals, but some populations have been found to have exceptionally large trees.

Within the BSA, the sole stand of holly-leaf cherry scrub is restricted to the moderate slopes of an unnamed tributary northeast of the Santa Clara River. The tributary is characterized as a 25-foot-wide, 4.5-foot-tall drainage with sandy soils that contributes to the main river system. The holly-leaf cherry scrub encompasses approximately 2.48 acres of the BSA.

Big Sagebrush Scrub

Big sagebrush scrub is an upland native community that is a moderately tall, fairly open shrubland found on well-drained gravelly soils. Dominant species include big sagebrush (*Artemisia tridentata)* and antelope bush (*Purshia tridentata)*.

Within the BSA, there are a few isolated patches of big sagebrush scrub adjacent to the Santa Clara floodplain. These patches are characterized by having elevated slopes with well-drained granitic soils, which are adjacent to the active riverbed. With long periods of drought, this community can thrive very well and invade adjacent communities. Approximately 0.96 acre of big sagebrush scrub occurs within the BSA.

Southern Riparian Scrub

Southern riparian scrub is a wetland and riparian native community. It is an inclusive term for several riparian, shrub-dominated communities such as southern cottonwood willow riparian forest, southern willow scrub, mule fat scrub, and tamarisk scrub, which are highly mixed in a relatively small area (Sawyer and Keeler-Wolf 1995). This general community best describes the mosaic patchwork found throughout the floodplain of the Santa Clara River. Primarily, this community is represented by narrow-leaf willow (*Salix*

exigua), red willow (*Salix laevigata*), arroyo willow (*Salix lasiolepis*), mule fat (*Baccharis salicifolia*), Fremont's cottonwood (*Populus fremontii* var. *fremontii*), and highly invasive species like tamarisk (*Tamarix* sp.). Approximately 15.81 acres occur within the BSA.

Southern riparian scrub is considered sensitive by local and state agencies, and specifically by the CDFG (2003). Southern riparian scrub is considered sensitive because of the high number of sensitive species associated with this community and the recent losses due to urbanization. Southern riparian scrub is a very restricted community, only occurring in southern California counties. This community is home to a number of sensitive species and is endemic to southern California. This community has been heavily affected by urban and rural channelization and development.

Other Land Cover Types

Nonwetland Waters of the U.S.

The majority of the BSA consists of the riverbed for the Santa Clara River and its tributaries. The riverbed is a periodically scoured wash that is unvegetated most of the time. This area has been classified as nonwetland waters of the U.S. Approximately 19.40 acres of this land cover type occur within the BSA.

Ruderal

Ruderal communities are areas of high disturbance dominated by nonnative weedy forbs (herbaceous, nongrass species) that are adapted to a regime of frequent disturbances. Many of the species characteristic of ruderal areas are also indicator species of nonnative grasslands. Ruderal habitats occur throughout portions of the BSA and are areas that support nonnative weedy vegetation. Approximately 14.47 acres of this habitat occur within the BSA.

Disturbed Habitat

Disturbed habitats refer to areas disturbed so frequently that they do not support any vegetation. Such areas include dirt trails and cleared areas. Approximately 0.88 acre of this habitat occurs within the BSA.

Migration Corridors

In an urban context, a wildlife migration corridor can be defined as a linear landscape feature of sufficient width and buffer to allow wildlife movement between two patches of comparatively undisturbed habitat, or between a patch of habitat and some vital resources. Regional corridors are defined as those linking two or more large areas of natural open space, and local corridors are defined as those allowing resident wildlife to access critical resources (food, cover, and water) in a smaller area that might otherwise be isolated by urban development.

Wildlife migration corridors are essential in geographically diverse settings, especially in urban settings, for the sustenance of healthy and genetically diverse wildlife communities. At a minimum, they promote colonization of habitat and genetic variability by connecting fragments of like habitat and help sustain individual species distributed in and among habitat fragments. Habitat fragments, by definition, are separated by otherwise foreign or inhospitable habitats, such as urban/suburban tracts. Isolation of populations can have many harmful effects and may contribute to local species extinction.

A viable wildlife migration corridor consists of more than a path between habitat areas. To provide food and cover for transient species as well as resident populations of less mobile animals, a wildlife migration corridor must also include pockets of vegetation.

The BSA currently acts as a wildlife migration corridor for a variety of wildlife species. The Santa Clara River represents one of the last natural river systems in the region. The riparian and stream habitats of the Santa Clara River provide habitat for migrating wildlife to temporarily stop, rest and forage, use for protective cover, or as their breeding grounds. The stretch of the Santa Clara River within the BSA is part of a diverse set of

habitat linkages and movement corridors that connects pockets of open space throughout its length – from its headwaters in the Angeles National Forest, east of Soledad Canyon, all the way to the coast. The river provides connectivity to large tracts of open space such as the Santa Susana Mountains and the Santa Monica Mountains.

A report by the California Wilderness Coalition (CWC), *Missing Linkages: Restoring Connectivity to the California Landscape* (2001) identifies the entire Santa Clara River as a landscape linkage, defined as a "large, regional connection between habitat blocks ('core areas') meant to facilitate animal movements." Additionally, the CWC identifies several general areas along the river within Soledad Canyon as areas necessary for habitat connectivity for large mammalian carnivore species in the region. These areas were assessed by the CWC as being threatened by development, but with an opportunity for conservation. Due to its position along the Santa Clara River, the BSA helps to provide connectivity between the coast and inland areas. The BSA is primarily part of an avian wildlife migration corridor, but it can also foster the movements of reptiles such as the western whiptail, or mammals like the coyote (*Canis latrans*), bobcat (*Felis rufus*), and mule deer (*Odocoileus hemionus*) up and down the river, or across other tracts of open space.

2.11.3 Environmental Effects

Alternative 1: Bridge Alternative

Sensitive habitats are those that are considered rare within the region or are considered sensitive by the CDFG (2003). Communities listed on California Natural Diversity Data Base as having the highest inventory priorities are also considered sensitive (CDFG 2006a), as well as wetland and/or riparian habitat regulated by the ACOE under Section 404 of the Clean Water Act and by the CDFG under Section 1600 of the CDFG Code. Within the BSA, the only sensitive community is southern riparian scrub.

Within the project area, the southern riparian scrub community can be found within the floodplain and along the upper edges of the Santa Clara River. Approximately 15.81 acres of southern riparian scrub habitat were observed within the BSA.

Permanent grading activities would directly affect this sensitive habitat in areas of the proposed AE and indirectly affect habitat that persists adjacent to the AE. The Bridge Alternative would permanently affect 2.24 acres of southern riparian scrub habitat.

Indirect effects to this community, outside of but adjacent to the AE, could arise from unauthorized construction trespass, erosion, sedimentation, and construction-generated fugitive dust. Avoidance, minimization, and mitigation measures have been provided in Section 2.11.4 that would reduce the potential for adverse effects.

Alternative 2: No Build Alternative

Under the No Build Alternative, no development would occur at the project site; consequently, there would be no adverse effect to natural communities.

2.11.4 Avoidance, Minimization, and/or Mitigation Measures

Alternative 1: Bridge Alternative

Environmental consequences of the proposed project on southern riparian scrub would be avoided and reduced to the extent feasible through project design. This could be achieved by avoiding permanent impacts to areas of southern riparian scrub by shifting the bridge, approach, and pier locations, and by avoiding temporary impacts that could result from staging and access routes. Areas of pristine and high-quality southern riparian scrub within the construction limits should be fenced off to avoid impacts.

Efforts to further avoid and reduce effects to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities as noted in the NRMP MMRP (see Appendix I of this EA). Specific avoidance measures in the MMRP include Measures BIO-1 (a-n) and BIO-2 (a-d). Additional measures such as preconstruction meetings, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs

developed in the NRMP are also recommended to avoid effects to southern riparian scrub.

Mitigation Measures: Unavoidable permanent direct and indirect effects to the southern riparian scrub would require mitigation. Mitigation efforts to be implemented for permanent effects to this vegetation community are outlined in Mitigation Measure BIO-5 (a-o), Riparian Habitat Mitigation Program, of the NMRP. Mitigation ratios for this vegetation will range from 1:1 to 3:1, depending upon the timing of implementation of southern riparian scrub restoration (BIO-5a of the NRMP; see Appendix I of this EA). Implementing this mitigation would reduce the potential adverse effects of the proposed project; consequently, no additional mitigation is proposed.

Alternative 2: No Build Alternative

There would be no adverse effects on natural communities as a result of the Bridge Alternative or the No Build Alternative; consequently, no avoidance, minimization, and/or mitigation measures are proposed.

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2.12 WETLANDS AND WATERS OF THE U.S.

As discussed in Section 1.3, the proposed bridge is located within the confines of the NRMP. The NRMP serves as a long-term management plan for infrastructure projects, such as the proposed action, expected to affect the Santa Clara River and its associated tributaries. As previously discussed, an EIS/EIR for the NRMP was approved by the ACOE, RWQCB, and CDFG, and the City is complying with the requirements of the associated Section 404 and 1600 permits issued by the ACOE and CDFG, respectively. Consequently, no permits will be applied for under this EA and there is no discussion in this section of any applications for these permits. Consequently, the following discussion provides an overview of the jurisdictional waters effects for which permits have already been obtained.

2.12.1 Regulatory Setting

Wetlands and Waters of the U.S. are protected under a number of laws and regulations. At the federal level, the Clean Water Act (33 USC 1344) is the primary law regulating wetlands and waters. The Clean Water Act regulates the discharge of dredged or fill material into waters of the U.S., including wetlands. Waters of the U.S. include navigable waters, interstate waters, territorial seas, and other waters that may be used in interstate or foreign commerce. To classify wetlands for the purposes of the Clean Water Act, a three-parameter approach is used that includes the presence of hydrophytic (water-loving) vegetation, wetland hydrology, and hydric soils (soils subject to saturation/ inundation). All three parameters must be present, under normal circumstances, for an area to be designated as a jurisdictional wetland under the Clean Water Act.

Section 404 of the Clean Water Act establishes a regulatory program that provides that no discharge of dredged or fill material can be permitted if a practicable alternative exists that is less damaging to the aquatic environment or if the nation's waters would be degraded. The Section 404 permit program is run by the ACOE with oversight by the U.S. EPA.

The Executive Order for the Protection of Wetlands (Executive Order 11990) also regulates the activities of federal agencies with regard to wetlands. This executive order states that a federal agency, such as the FHWA, cannot undertake or provide assistance for new construction located in wetlands unless the head of the agency finds (1) that there is no practicable alternative to the construction, and (2) the proposed project includes all practicable measures to minimize harm.

At the state level, wetlands and waters are regulated primarily by the CDFG and RWQCBs. In certain circumstances, the Coastal Commission (or Bay Conservation and Development Commission) may also be involved. Sections 1600-1607 of the Fish and Game Code require any agency that proposes a project that will substantially divert or obstruct the natural flow of or substantially change the bed or bank of a river, stream, or lake to notify the CDFG before beginning construction. If the CDFG determines that the project may substantially and adversely affect fish or wildlife resources, a Lake or Streambed Alteration Agreement will be required. CDFG jurisdictional limits are usually defined by the tops of the stream or lake banks, or the outer edge of riparian vegetation, whichever is wider. Wetlands under jurisdiction of the ACOE may or may not be included in the area covered by a Streambed Alteration Agreement obtained from the CDFG.

The RWQCBs were established under the Porter-Cologne Water Quality Control Act to oversee water quality. The RWQCBs also issue water quality certifications in compliance with Section 401 of the Clean Water Act. See Section 2.7 for additional details.

In considering the potential wetlands effects of the proposed Golden Valley Road Bridge Project, it is recognized that the bridge crossing of the Santa Clara River has already been permitted by the ACOE and CDFG (ACOE 1998b). The Valencia Company applied to these agencies for approval of the NRMP, which includes certain channel, drainage, river bank protection, and bridge crossing improvements along a portion of the Santa Clara River and its tributaries. The NRMP improvements were the subject of the joint EIS/EIR prepared by these agencies (ACOE 1998a). The effects resulting from the proposed

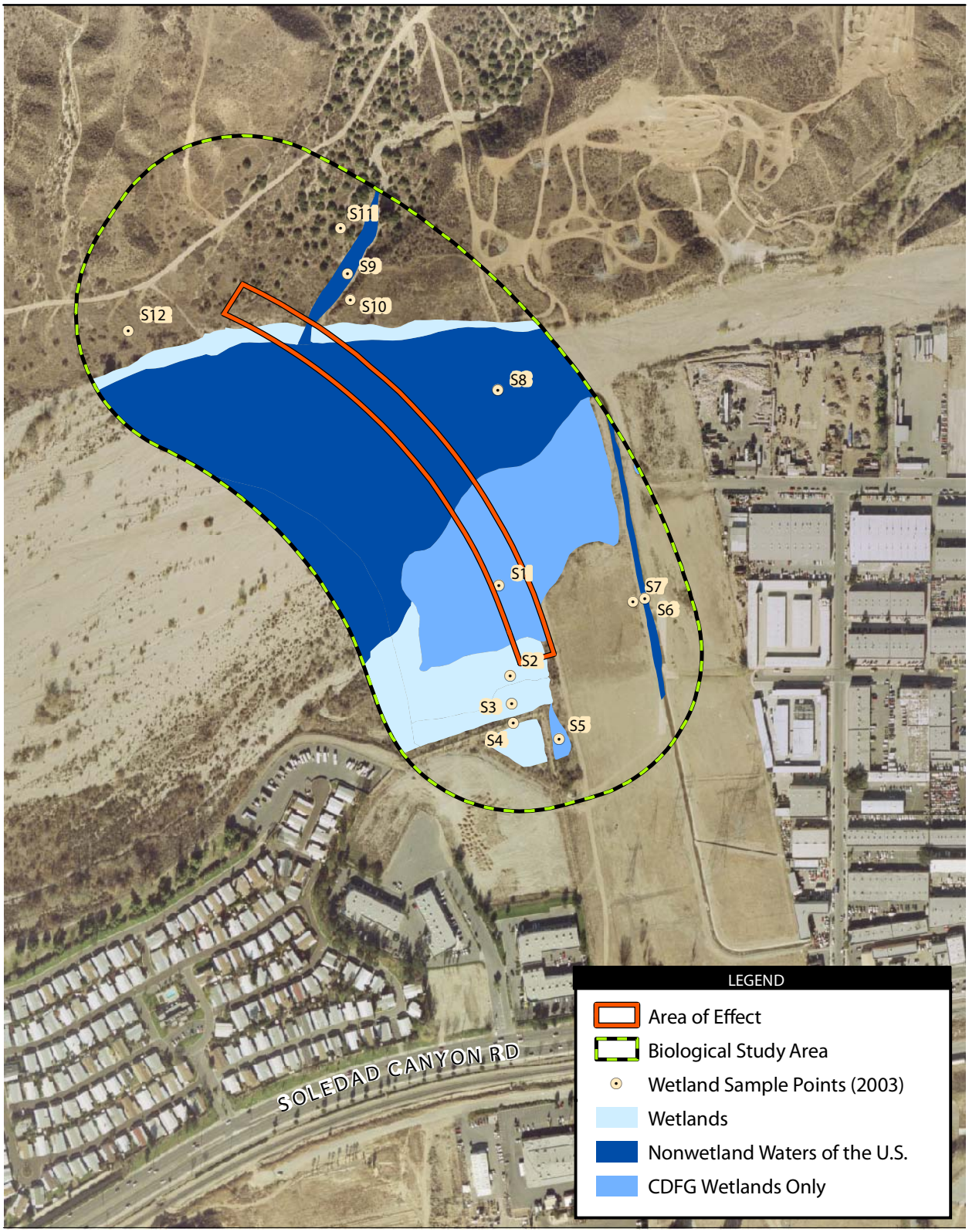
crossing of the Santa Clara River under the proposed Bridge Alternative include a portion of the 22.23 acres of bridge crossing effects to habitat under jurisdiction of the two agencies. Coordination and initiation of the proposed project under the NRMP permits, requires the submittal of a Verification Request Letter to the ACOE and CDFG. For approval, this letter must prove that the measures in the proposed project design are consistent with the measures outlined in the NRMP. Once this request is approved, bridge construction may commence.

2.12.2 Affected Environment

From field results and other documents on local jurisdictional information, several general trends were identified for mapping jurisdictional boundaries. Generally, the soils within the Santa Clara River floodplain are mapped as Sandy Alluvial Lands and Riverwash by the U.S. Soil Conservation Service. These soils have not developed hydric characteristics because of the dynamic nature of the flood channel and the ongoing deposition and/or removal of sand. Therefore, the delineation relied primarily on vegetation and hydrology indicators for jurisdictional determinations. ACOE jurisdictional wetlands located within the Santa Clara River floodplain include a relatively large area of southern riparian scrub (Table 2.12-1). In some locations along the river edge, southern riparian scrub was determined to be outside of ACOE jurisdiction (sample point S1, Figure 2.12-1). This habitat was located on higher flood terraces, which lacked wetland hydrology and adequate hydrophytic vegetation indicators. These areas are within the 100-year floodplain regulated by the CDFG but did not display hydrophytic vegetation or wetland hydrology indicators; therefore, the CDFG would retain jurisdiction.

Table 2.12-1
Extent of ACOE and CDFG Jurisdiction within the BSA

Jurisdiction	Area in acres
ACOE and CDFG (subtotal)	24.86
Wetlands	5.53
Nonwetland Waters of the U.S.	19.33
CDFG Wetlands only	6.62
Total	31.48



Source: Stewart GeoTechnologies 2004

500 250 0 500 Feet

Scale: 1:6,000; 1 inch = 500 feet

Figure 2.12-1
Wetland Delineation

Nonwetland waters of the U.S. under ACOE and CDFG jurisdiction were delineated for the main, active flood channel of the Santa Clara River on the eastern end of the project at the proposed river crossing (sample point S8). This area has only about 10 percent vegetative cover, including primarily mule fat, scale broom, and giant reed. The vegetation is hydrophytic; however, the channel is too sparse to be delineated as wetland with 90 percent open sand (Figure 2.12-1).

One small tributary to the Santa Clara River was delineated within the BSA at the eastern end and is sparsely vegetated with scattered patches of nonhydrophytic vegetation (primarily scale broom) within the Ordinary High Water Mark; this area was delineated as ACOE nonwetland waters of the U.S. and CDFG unvegetated streambed (sample point S9). Most of the remaining tributaries include disturbed or altered drainages or ditches but also include portions of natural drainages. The areas of ACOE and CDFG jurisdiction within the BSA are summarized above in Table 2.12-1.

U.S. Army Corps of Engineers

A total of 24.86 acres of ACOE jurisdiction occur within the BSA. This total includes both vegetated wetlands (5.53 acres) and nonwetland waters of the U.S. (19.33 acres). ACOE wetlands occur predominately within the Santa Clara River, but smaller patches of wetland were delineated within the tributaries and drainage ditches connecting with the Santa Clara River. Portions of the southern riparian scrub are the only vegetation community qualifying as ACOE jurisdictional wetlands.

California Department of Fish and Game

Approximately 31.48 acres of CDFG jurisdiction occurs within the BSA. The ACOE jurisdictional wetlands and waters described above are also CDFG jurisdictional streambed. In addition to the areas described above, areas with riparian vegetation associated with the Santa Clara River or its tributary drainages, but lacking hydrophytic vegetation, hydrology, or soil indicators, were mapped as CDFG jurisdiction. Portions of southern riparian scrub are the only vegetation community qualifying as CDFG jurisdictional wetlands.

Regional Water Quality Control Board

The area within the jurisdiction of the RWQCB is considered the same as the area within ACOE jurisdiction (24.86 acres).

2.12.3 Environmental Effects

Jurisdictional resources may be either directly or indirectly affected by an action. Direct and indirect effects may furthermore be either permanent or temporary in nature. These effects are defined below.

Direct: Any alteration, disturbance, or destruction of biological resources that would result directly from project-related activities is considered a direct effect. Examples include clearing vegetation and placing fill into wetlands.

Indirect: As a result of project-related activities, biological resources may be affected in a manner that is not direct. Examples include elevated noise and dust levels, shading from bridges, soil compaction, increased human activity, decreased water quality, and the introduction of invasive animals (domestic cats and dogs) and plants.

Permanent: All effects that result in the irreversible removal of jurisdictional resources are considered permanent. For the purposes of this project, effects are irreversible when placing fill results in a permanent elevation change or the creation of an impervious surface. Examples include constructing a building or permanent road on an area containing biological resources.

Temporary: Any effects on biological resources considered to be reversible can be viewed as temporary. For the purpose of this project, if preconstruction contours are maintained and the original characteristics of the area can be reestablished in place, then the effect is considered temporary. Examples include removing vegetation for underground pipeline trenching activities and either revegetating or allowing the natural vegetation to recolonize the recontoured impact area, and placing and subsequently removing fill for the purpose of temporary construction access.

Alternative 1: Bridge Alternative

The direct effects to jurisdictional wetlands and nonwetland waters as a result of the proposed alternatives are presented in Table 2.12-1. Table 2.12-2 summarizes the direct effects to wetlands under the jurisdiction of ACOE and CDFG. Indirect effects are not quantified because there are no established standards to determine the extent of effects from the point source (dust, sediment, lighting, runoff, illegal trespass, etc.). Direct effects to native riparian and wetland communities and other waters would require mitigation.

Table 2.12-2
Effects to ACOE and CDFG Jurisdictional Resources

Direct Effects	ACOE and CDFG in acres	CDFG only in acres	Total CDFG in acres
Permanent	2.49	1.46	1.59

It is assumed that the placement of bridge piles and ground disturbance within the jurisdictional wetlands and other waters would be the nexus for ACOE and CDFG involvement. Permanent direct effects to wetland and nonwetland waters/unvegetated streambed would occur.

Table 2.12-2 shows that 2.49 acres of ACOE and CDFG jurisdictional waters would be permanently affected. Effects to CDFG jurisdictional specific resources would permanently affect 1.46 acres. These effects are a portion of the effects allowable under the terms of a 404 Permit and 1603 Agreement issued for the NRMP.

Alternative 2: No Build Alternative

Under the No Build Alternative, no development would occur at the project site; consequently, there would be no adverse effect on wetlands and other waters.

2.12.4 Avoidance, Minimization, and/or Mitigation Measures

Alternative 1: Bridge Alternative

The direct effects to federal and state jurisdictional waters and streambed, including wetlands, as a result of permanent road fill and bridge structures would require mitigation. These effects, and the corresponding mitigation, have already been covered in an individual permit issued by the ACOE, pursuant to Section 404 of the Clean Water Act, and a Streambed Alteration Agreement issued by the CDFG pursuant to Section 1603 of the Fish and Game Code. Mitigation for these effects to jurisdictional waters and streambed is specified in the permit and agreement. As noted by the Riparian Habitat Mitigation Program in the MMRP, mitigation for jurisdictional areas will be performed at a ratio varying from 1:1 to 3:1 depending upon the timing of its implementation (see BIO-5 [a-o]).

Compensatory wetland mitigation requirements can be satisfied through a combination of wetland creation/restoration and enhancement, as outlined in Mitigation Measure BIO-5, known as the Riparian Habitat Mitigation Program and established for the NRMP. Permanent direct effects on vegetated wetlands should be compensated at a minimum 1:1 mitigation ratio if mitigation is completed 2 years or more prior to initiation of the action. If mitigation for permanent effects is completed less than 2 years in advance of effect, the mitigation ratio would vary between 1:1 and 3:1 depending on the value of habitat. Mitigation for all permanent effects to wetlands will include a minimum 1:1 creation/ restoration component. Minimum wetland mitigation requirements are discussed below. Compensatory mitigation ratios must be reviewed and approved by the resource agencies before being considered final.

The ACOE policy of no net loss applies specifically to wetlands. “No net loss of wetlands” refers to a no net loss of both wetland area and function (U.S. EPA and ACOE 1990). The CDFG also requires replacement of impacted habitat, typically at ratios similar to the ACOE. Mitigation requirements for the bridge action’s effects on jurisdictional waters and streambed have already been determined by the permit and

agreement issued for the NRMP. Mitigation for jurisdictional areas will be performed at a ratio varying from 1:1 to 3:1 depending upon the timing of its implementation.

Implementation of the NRMP mitigation for wetlands effects would reduce the proposed project's potential for adverse effects.

Alternative 2: No Build Alternative

There would be no adverse effects on wetlands and other waters as a result of the No Build Alternative; consequently, no avoidance, minimization, and/or mitigation measures are proposed.

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2.13 PLANT SPECIES

2.13.1 Regulatory Setting

The USFWS and CDFG share regulatory responsibility for the protection of special-status plant species. "Special-status" species are selected for protection because they are rare and/or subject to population and habitat declines. Special status is a general term for species that are afforded varying levels of regulatory protection. The highest level of protection is given to threatened and endangered species; these are species that are formally listed or proposed for listing as endangered or threatened under the FESA and/or the California Endangered Species Act (CESA). Please see Section 2.15 in this document for detailed information regarding these species.

This section of the document discusses all the other special-status plant species, including CDFG fully protected species and species of special concern, USFWS candidate species, and nonlisted California Native Plant Society (CNPS) rare and endangered plants.

The regulatory requirements for FESA can be found at USC 16, Section 1531, et seq. See also 50 CFR Part 402. The regulatory requirements for CESA can be found at California Fish and Game Code, Section 2050, et seq. Caltrans projects are also subject to the Native Plant Protection Act, found at Fish and Game Code, Section 1900-1913, and CEQA, Public Resources Code, Sections 2100-21177.

2.13.2 Affected Environment

Sensitive plants include those listed as threatened, endangered, or proposed for listing by the USFWS (2005), CDFG (2006b, 2006c), and CNPS (2001). The CNPS Listing is sanctioned by the CDFG and essentially serves as its list of candidate species for threatened or endangered status.

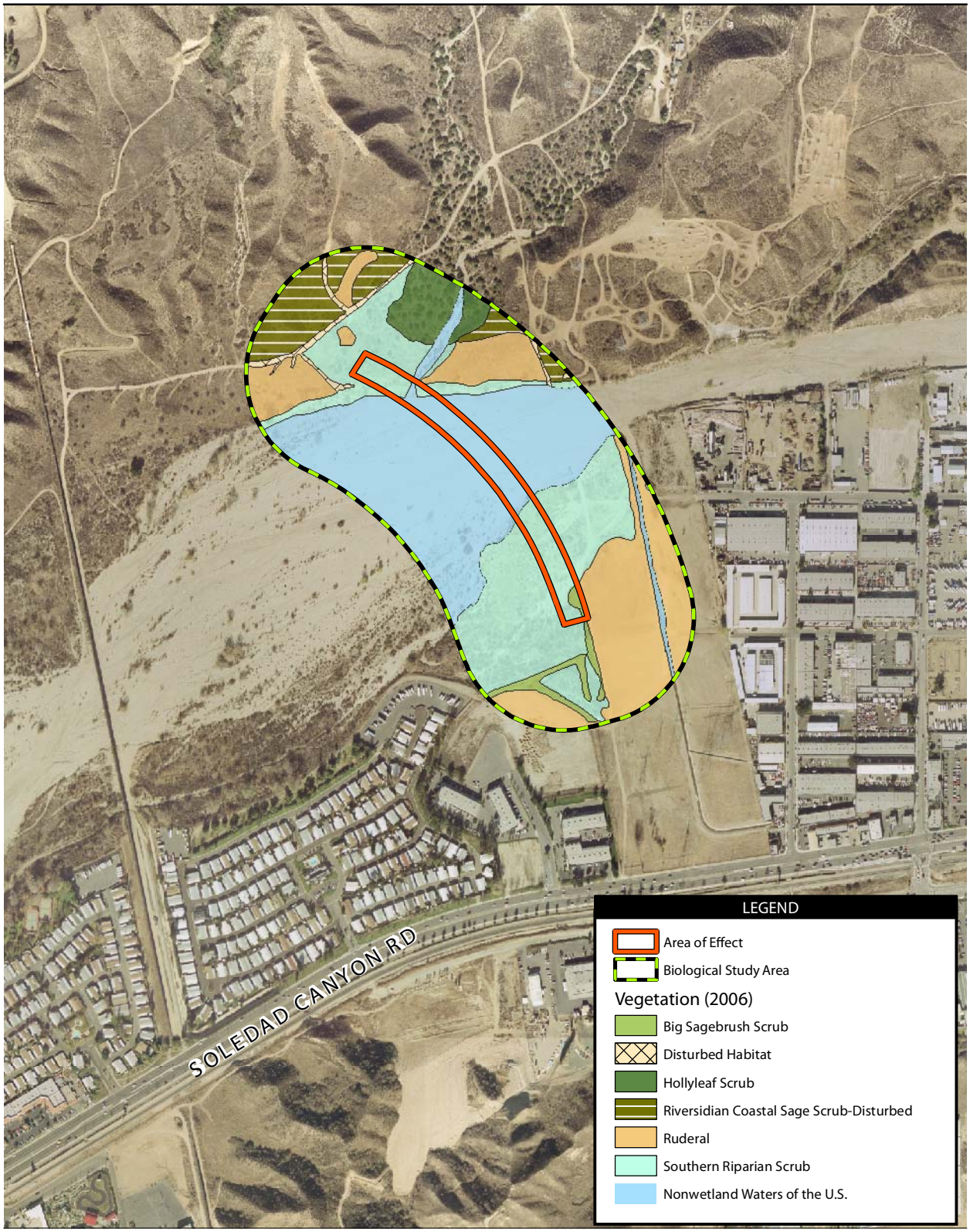
Species that are federally or state listed are afforded a degree of protection that entails a permitting process, including specific mitigation measures to compensate for effects to the species. Species that are proposed to be listed by the USFWS are treated similarly to listed species by that agency. Recommendations of the USFWS, however, are advisory

rather than mandatory in the case of proposed species. Species considered state species of special concern by the CDFG have a lesser degree of protection under CEQA. Plant species considered sensitive by the CNPS have a lesser degree of protection under CEQA. Under CEQA, avoidance of effects to these species or implementation of measures such as preconstruction surveys could be required to reduce potential effects.

Of the 28 sensitive plant species with the potential to occur within the region, the BSA consists of suitable habitat for 26 species. Only two species were observed during the late spring 2003 survey, Plummer's mariposa lily and coast live oak. However, five other sensitive plant species were identified in regions of the BSA by Impact Sciences (2004), whose project site for the proposed Riverpark development is within and adjacent to the BSA of Golden Valley Road Bridge Project. In the *Riverpark Environmental Impact Report* (Impact Sciences 2004), surveys conducted in spring 2003 documented locations of early annual sensitive plant species within the BSA, such as the slender mariposa lily, Peirson's morning glory, and Palmer's grappling hook. Biologists conducted additional update surveys for these species during the spring of 2006. Four species were observed in 2006, the Plummer's mariposa lily, Peirson's morning glory, Palmer's grappling hook, and coast live oak. Figures 2.13-1 and 2.13-2 show the vegetation communities, and sensitive plant species locations, respectively, and the footprint of the proposed bridge. Table 2.13-1 depicts the number of individuals observed in the BSA, the suitable habitat affected by the AE, and compensatory mitigation measures approved in the NRMP.

Slender Mariposa Lily

The slender mariposa lily is a perennial herb in the lily family considered extremely rare (List 1B) by the CNPS (2001). This endemic monocot ranges within Los Angeles County with a total of only nine known occurrences found in coastal sage scrub and chaparral habitats. Typically, this species is known to grow on rocky slopes and/or in serpentine soils. Due to soil restrictions and habitat loss, this species is severely threatened by development and urbanization. Two of the nine occurrences in Los Angeles County are located in Soledad Canyon and San Francisquito Canyon, which are approximately 0.35 mile and 3.92 miles, respectively, northwest of the BSA

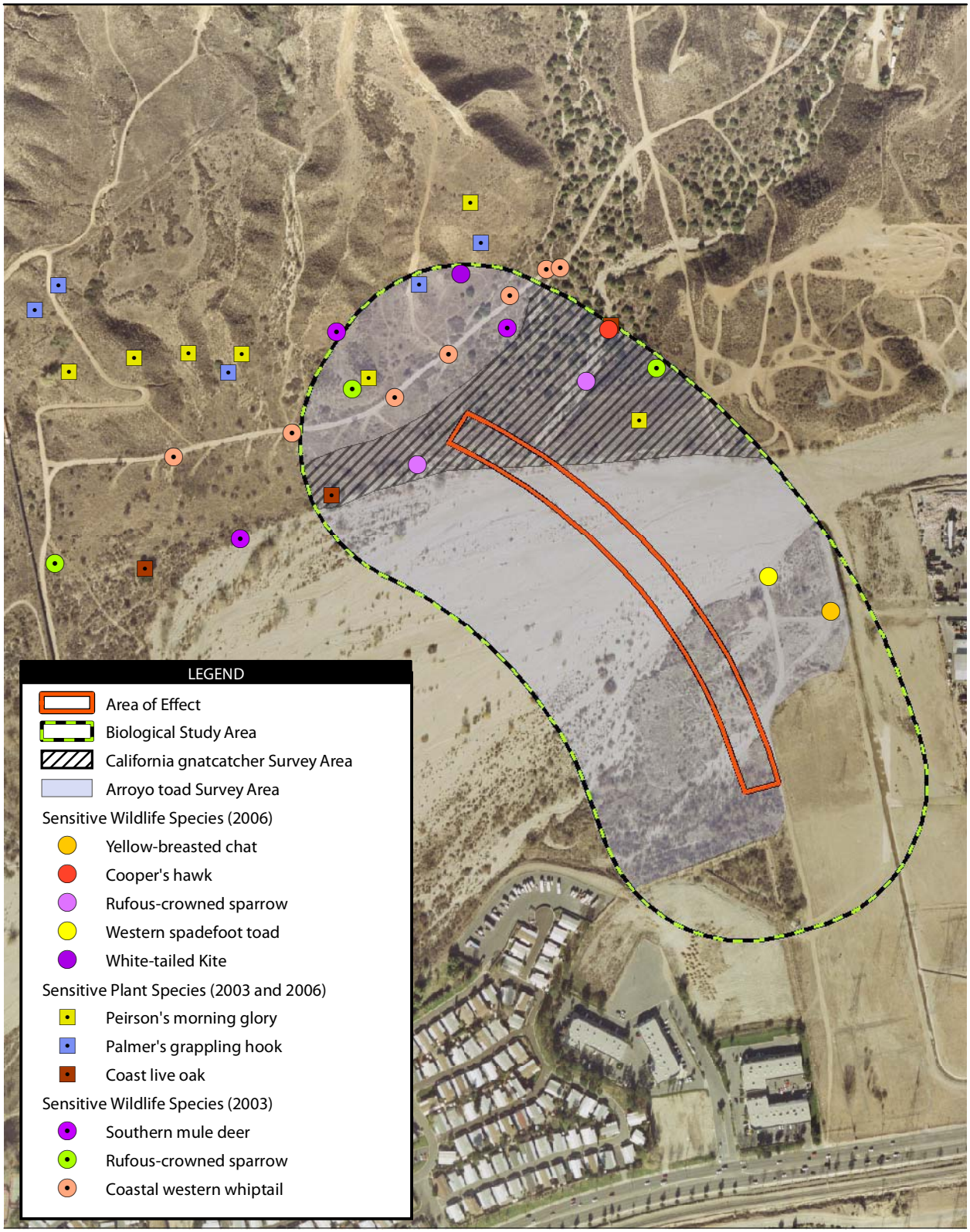


Source: Stewart GeoTechnologies 2004

700 350 0 700 Feet

Scale: 1:8,400; 1 inch = 700 feet

Figure 2.13-1
Vegetation Communities



Source: Stewart GeoTechnologies 2004; EDAW 2003, 2006

500 250 0 500 Feet

Scale: 1:6,000; 1 inch = 500 feet

Figure 2.13-2
Sensitive Species

Table 2.13-1
Sensitive Species Effect Matrix and Recommended Compensatory Mitigation

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Affected within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
Slender Mariposa Lily	3 individuals	None	3 individuals would be indirectly affected	Since there would not be any direct effects to slender mariposa lily, no compensatory mitigation measures would be required. Potential temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard best management practices (BMPs) such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies
Plummer's Mariposa Lily	35 individuals	None	35 individ-uals would be indirectly affected	Since there would not be any direct effects to Plummer's mariposa lily, no compensatory mitigation measures would be required. Potential temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies
Peirson's Morning Glory	236 individuals	None	236 individuals would be indirectly affected	Since there would not be any direct effects to Peirson's morning glory, no compensatory mitigation measures would be required. Potential temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through	To be determined through discussions with the resource agencies

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Affected within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
				standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	
Palmer's Grappling Hook	50 individuals	None	50 individ-uals would be indirectly affected	Since there would not be any direct effects to Palmer's grappling hook, no compensatory mitigation measures would be required. Potential temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies
Coast Live Oak	1 individual	None	1 individual would be indirectly affected	Since there would not be any direct effects to coast live oak, no compensatory mitigation measures would be required. Potential temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the City of Santa Clarita and the resource agencies

(CDFG 2006a). The slender mariposa lily was not observed within the BSA during the winter 2002, spring 2003, or spring 2006 field surveys. The surveys were conducted at the end of the blooming period for this species. At this time, fruit maturation begins and the species becomes fairly inconspicuous. However, surveys conducted in 2004 identified three individuals of this species within the BSA (Riverpark Draft Environmental Impact Report (DEIR), 2004). Thirty-three individuals were also observed adjacent to and west of the BSA during spring 2003 (Riverpark DEIR, 2004).

Plummer's Mariposa Lily

The Plummer's mariposa lily is another perennial herb in the lily family considered a List 1B species by the CNPS (2001). Typically, it is found in granitic substrate in chaparral, coastal sage scrub, cismontane woodland, lower montane coniferous forest, and foothill grasslands. Its distribution range includes Ventura, Los Angeles, Orange, Riverside, and San Bernardino counties, but known populations have reduced considerably due to habitat loss from urbanization (CNPS 2001).

The Plummer's mariposa lily was observed within the BSA during the 2003 and 2006 field surveys. Approximately 28 individuals were found within the BSA in 2003 and a total of 35 were found during the 2006 surveys. No individuals occur within the AE.

Peirson's Morning Glory

The Peirson's morning glory is a perennial herb in the morning glory family considered a List 4 species by the CNPS (2001). Typically it is found in granitic, sandy substrate in chaparral, coastal sage scrub, and chenopod scrub. Its distribution range includes Ventura, Los Angeles, Orange, Riverside, and San Bernardino counties, but known populations have reduced considerably due to habitat loss from urbanization (CNPS 2001).

The Peirson's morning glory was observed within the BSA during spring 2003 field surveys conducted by Impact Sciences (2004) for the Riverpark EIR. Approximately 236 individuals were observed in the BSA (Figure 2.13-2), but of these, only 150 individuals could be relocated in 2006 surveys. Adjacent to the BSA, approximately 71 individuals

were observed on south-facing slopes and flat areas in disturbed vegetation such as nonnative grasslands and coastal sage scrub (Riverpark DEIR, 2004).

Palmer's Grappling Hook

The Palmer's grappling hook is an inconspicuous annual herb in the borage family and is considered a List 4 species by the CNPS (2001). Typically it is found in clay soils in chaparral, coastal sage scrub, and annual grasslands. Its distribution range includes Los Angeles, Orange, Riverside, and San Diego counties, but known populations have reduced considerably due to habitat loss from urbanization (CNPS 2001).

The Palmer's grappling hook was observed within the BSA during the spring 2003 and spring 2006 surveys. Approximately 30 individuals were observed in the BSA in the spring 2003 field survey by Impact Sciences (2004) and a total of 50 individuals were observed during the 2006 surveys (Figure 2.13-2). Additionally, 17 individuals were recorded adjacent to the BSA during 2003 (Riverpark DEIR, 2004).

Coast Live Oak

The coast live oak is a California endemic tree considered a sensitive resource by the Santa Clarita Municipal Code (City 2006). The Oak Tree Preservation ordinance (Section 17.17.090) serves to protect and preserve all healthy oak trees in Santa Clarita. Found throughout California, the coast live oak is still too common for CNPS to consider listing it as a rare or threatened species. However, local city ordinances throughout the state of California have made it a priority to preserve these ancient trees as way of preserving the local heritage.

There is one individual coast live oak tree within the BSA, located in a tributary, northeast of the Santa Clara River basin (Figure 2.13-2). No coast live oak trees occur within the AE.

2.13.3 Environmental Effects

Alternative 1: Bridge Alternative

The proposed action would not be anticipated to affect the 3 individuals of slender mariposa lily and the 236 individuals of Peirson's morning glory observed in the BSA. All individuals observed are located outside of the AE where all grading activities would be confined. Therefore, there would be no direct effect on this species from the proposed bridge.

Construction and operation of the bridge would not be expected to affect any of the Plummer's mariposa lily or Palmer's grappling hook individuals, or the coast live oak identified. No suitable habitat for the Plummers mariposa lily occurs within the AE. Indirect permanent and temporary effects outside of but adjacent to the AE could arise from unauthorized construction trespass, erosion, sedimentation, and construction-generated fugitive dust.

Alternative 2: No Build Alternative

Under the No Build Alternative, no development would occur at the project site; consequently, there would be no effect on sensitive plants.

2.13.4 Avoidance, Minimization, and/or Mitigation Measures

Alternative 1: Bridge Alternative

Avoidance and Minimization Efforts: Environmental consequences of the project on biological resources would be avoided and reduced to the extent feasible through project design. Additional measures to further avoid and reduce effects to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities. Such measures would include, but not be limited to, preconstruction surveys, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs.

Mitigation: Potential direct effects on slender mariposa lily, Plummer's mariposa lily, Peirson's morning glory, and Palmer's grappling hook would be mitigated at a 1:1 ratio for all individuals affected in the AE and BSA (Valencia 1998). Mitigation Measures BIO-4 (a-c) and BIO-24 in the NMRP outline habitat-based mitigation for the permanent effects to habitat. For indirect effects, mitigation measures would include standard BMPs such as temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan as directed in the NRMP.

Potential temporary indirect effects on coast live oak, such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation, would be mitigated through standard BMPs listed in the NRMP, such as temporary construction fencing and signage, dust abatement measures, and implementation of an approved SWPPP.

Alternative 2: No Build Alternative

There would be no adverse effects on plant species as a result of the No Build Alternative; consequently, no avoidance, minimization, and/or mitigation measures are proposed.

2.14 ANIMAL SPECIES

2.14.1 Regulatory Setting

Many state and federal laws regulate effects on wildlife. The USFWS, National Marine Fisheries Service, and CDFG are responsible for implementing these laws. This section discusses potential effects and permit requirements associated with wildlife not listed or proposed for listing under the CESA or FESA. Species listed or proposed for listing as threatened or endangered are discussed in Section 2.15. All other special status animal species are discussed here, including CDFG fully protected species and species of special concern, and USFWS or National Oceanic & Atmospheric Administration (NOAA) Fisheries candidate species.

Federal laws and regulations pertaining to wildlife include the following:

- NEPA
- Migratory Bird Treaty Act (MBTA)
- Fish and Wildlife Coordination Act

State laws and regulations pertaining to wildlife include the following:

- CEQA
- Sections 1601 – 1603 of the Fish and Game Code
- Section 4150 and 4152 of the Fish and Game Code

2.14.2 Affected Environment

Special status wildlife are species that are listed or proposed to be listed as threatened or endangered by the USFWS (2005) and CDFG (2006d), or are considered federal species of concern, protected species, fully protected species, or species of special concern by the CDFG (2006e). Species that are federally or state listed are afforded a degree of protection that entails a permitting process, requiring the implementation of mitigation measures to compensate for effects to the species. Species that are proposed to be listed

by the USFWS are treated similarly to species listed by that agency; recommendations of the USFWS, however, are advisory rather than mandatory in the case of proposed species.

Additionally, the federal MBTA provides legal protection for almost all breeding bird species occurring in the United States and, therefore, affords protection to the bird species nesting within the study area. The MBTA restricts the killing, taking, collecting, and selling or purchasing of native bird species or their parts, nests, or eggs. Certain game bird species can be hunted for specific periods determined by federal and state governments. The intent of the MBTA is to eliminate any commercial market for migratory birds, feathers, or bird parts, especially for eagles and other birds of prey. The proposed project is in compliance with the MBTA because the project would not facilitate the commercial market for any bird species.

Of the 55 sensitive wildlife species known to occur within the region, 8 sensitive wildlife species are known to occur in the BSA surrounding the proposed Golden Valley Road Bridge Project, including the southern mule deer, which is regulated by the state as a harvest species and is discussed in greater detail below. Five sensitive wildlife species were observed within the BSA during the spring 2006 surveys: the western spadefoot toad (*Spea hammondii*), Cooper's hawk (*Accipiter cooperii*), white-tailed kite (*Elanus leucurus*), yellow-breasted chat (*Icteria virens*), and southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*). Three sensitive wildlife species were observed within the BSA during the spring 2003 surveys: the coastal western whiptail, yellow warbler (*Dendroica petechia brewsteri*), and the southern California rufous-crowned sparrow. In the Riverpark EIR, eight other species were observed just west of the BSA: the sharp-shinned hawk (*Accipiter striatus*), western yellow-billed cuckoo (*Coccyzus americanus occidentalis*), loggerhead shrike (*Lanius ludovicianus*), summer tanager (*Piranga rubra*), Bell's sage sparrow (*Amphispiza belli belli*), tricolored blackbird (*Agelaius tricolor*), San Diego black-tailed jackrabbit (*Lepus californicus bennettii*), and San Diego woodrat (*Neotoma lepida intermedia*) (Impact Sciences 2004). This information is summarized in Table 2.14-1.

Table 2.14-1
Sensitive Species Effect Matrix and Recommended Compensatory Mitigation

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Affected within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
Western Spadefoot Toad	1 individual adult, hundreds of tadpoles	4.31 acres	A small breeding population would be indirectly affected	Potential permanent and temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Coastal Western Whiptail	7 individuals	2.39 acres	7 individuals would be indirectly affected	Compensatory mitigation measures for direct effects to coastal western whiptail would be riparian habitat-based for the seven individuals affected. Potential temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
White-tailed Kite	1 individual	2.39 acres	1 individual would be indirectly affected	Potential permanent and temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Sharp-shinned Hawk	1 individual	2.39 acres	No individ-uals would be affected	Potential permanent and temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Affected within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
Cooper's Hawk	8 individuals	2.39 acres	8 individuals would be indirectly affected	Potential permanent and temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Western Yellow-billed Cuckoo	1 individual	2.24 acres	1 individual would be indirectly affected	Potential permanent and temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Loggerhead Shrike	2 individuals	0.15 acre	2 individuals would be indirectly affected	Potential permanent and temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Yellow Warbler	1 individual	2.24 acres	1 individual would be indirectly affected	Potential permanent and temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Summer Tanager	1 individual	2.24 acres	1 individual would be indirectly affected	Potential permanent and temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Affected within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
Southern California Rufous-crowned Sparrow	3 individuals	0.15 acre	3 individuals would be indirectly affected	Potential permanent and temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Bell's Sage Sparrow	1 individual	0.15 acre	1 individual would be indirectly affected	Potential permanent and temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Tricolored Blackbird	1 individual	2.24 acres	1 individual would be indirectly affected	Potential permanent and temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
San Diego Black-tailed Jackrabbit	2 individuals	2.39 acres	2 individuals would be indirectly affected	Potential permanent and temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
San Diego Woodrat	2 individuals	2.39 acres	2 individuals would be indirectly affected	Potential permanent and temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Affected within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
Southern Mule Deer	3 individuals	4.48 acres	3 individuals would be indirectly affected	Potential temporary indirect effects such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

The southern mule deer was observed within the BSA. The southern mule deer is discussed in this EA because the presence or absence of the species in open space areas can be used as an indicator of how a project site functions as a local or regional wildlife movement corridor. Additional discussion on a "harvest species" definition should be added. The following discussion of sensitive species and potential effects is based on field survey information, data obtained from the USFWS and CDFG, and existing environmental documentation for projects within the region. All avoidance, minimization, and mitigation measures described below for each species are based on the NRMP EIS/EIR (ACOE 1998a) and Record of Decision (ROD) (ACOE 1998b) and were designed to minimize all effects to sensitive biological resources within the BSA. The MMRP from the ROD (ACOE 1998b) includes the referenced avoidance, minimization, and mitigation measures approved by the ACOE and CDFG.

Western Spadefoot Toad

The western spadefoot toad is considered a state species of special concern (CDFG 2006e). It prefers sandy or gravelly soil in grasslands, open chaparral, and pine-oak woodlands. This toad breeds during the winter months, from January to May, in the waters of quiet streams, ephemeral ponds, and vernal pools. It aestivates during the drier months in burrows in upland habitats adjacent to these pools. The species is found west of the coastal ranges, from Point Conception to northern Baja California, Mexico, and in the Central Valley of California.

One western spadefoot adult toad was heard and hundreds of tadpoles were observed during focused arroyo toad surveys conducted within the BSA in 2006. One male was heard calling on May 4, 2006, and tadpoles were observed during the following survey, May 17, 2006. Observations were made within the central portion of the BSA within drainages (a combination of concrete and earthen-lined channels) fed by runoff from an adjacent industrial complex to the east of the proposed project. Surveys conducted in 2003 observed one individual within the BSA (Riverpark DEIR, 2004).

Coastal Western Whiptail

The coastal western whiptail is a state special animal (CDFG 2006e). It is found in several semiarid to arid climates and various habitat types that have openings or clearings for movement. Typical habitats include riparian woodlands, open chaparral, and annual grasslands with scattered perennials. This species is endemic to California and ranges throughout the state (except in the northwest) from sea level to approximately 7,500 feet.

Three individuals of coastal western whiptail were observed within the BSA during the general wildlife surveys conducted during 2002/2003 field surveys (Figure 2.13-2), although no individuals were observed within the AE. No individuals were observed during the 2006 surveys of the proposed Golden Valley Road Bridge Project site.

White-tailed Kite

The white-tailed kite is a state fully protected species (CDFG 2006e). It inhabits riparian or oak woodland adjacent to grassland or open fields where it hunts rodents. This species occurs in North, Central, and South America; Australia; southern Eurasia; and Africa. In North America, the white-tailed kite is distributed along the Pacific Coast from Washington south to Baja California, Mexico, with a small population in southeast Arizona, and along the Gulf Coast from Florida south into Mexico. In California, kites are found along the coast and in the Central Valley.

One individual white-tailed kite was observed during July 2006, but there was no evidence of nesting. Survey results in 2003 by Impact Sciences (2004) also observed this species within the BSA and in 1999 at least one individual white-tailed kite was observed nesting just west of the BSA (Guthrie 1999).

Sharp-shinned Hawk

The sharp-shinned hawk is considered a state species of special concern (CDFG 2006e). It is a woodland hawk that requires a certain amount of dense cover, but this can be localized and scattered through relatively open country. This species is distributed throughout North, Central, and South America. In California, it is a fairly common

migrant and winter resident, although its breeding distribution is poorly documented. Sharp-shinned hawk populations have experienced a steady decline due to increased urbanization and habitat destruction.

No sharp-shinned hawks were observed during the 2006 surveys. However, one individual was observed just west of the BSA during general wildlife surveys conducted in 2003 (Impact Sciences 2004).

Cooper's Hawk

The Cooper's hawk is considered a state species of special concern (CDFG 2006e). It prefers to breed in dense stands of oak or riparian woodland and, on a limited basis, suburban exotic woodlands. This species ranges throughout much of the United States, from southern Canada to northern Mexico.

One Cooper's hawk was observed within the BSA during the 2006 surveys. Additionally, surveys conducted during 2003 observed eight Cooper's hawks just west of the BSA during 2003 (Impact Sciences 2004).

Western Yellow-Billed Cuckoo

The western yellow-billed cuckoo is considered a federal candidate species (USFWS 2005) and a state listed endangered species (CDFG 2006d). It inhabits willow and cottonwood forests along rivers and streams. This subspecies is found in the western United States, west of the Rocky Mountains, and in northwestern Mexico. It breeds in southern California along the South Fork Kern, Santa Ana, Amargosa, Owens, and Colorado rivers, and the Prado Basin in Los Angeles County.

No western yellow-billed cuckoos were observed during the April – July 2006 surveys. However surveys conducted during 2003 observed the species just west of the BSA within riparian habitat (Riverpark DEIR, 2004).

Loggerhead Shrike

The loggerhead shrike is considered a state species of special concern (CDFG 2006e). It inhabits open country, typically lowland plains and gently sloping hillsides with short grass for foraging and scattered trees and shrubs that provide nesting and perching sites. This species occurs throughout most of North America, except in the northeastern United States, northern Rocky Mountains, and Cascade Range, and in southern Alberta, Saskatchewan, and Manitoba.

No loggerhead shrikes were observed during the general wildlife surveys conducted within the BSA during the 2002, 2003, or 2006 surveys. However, surveys conducted in 2003 observed this species within the BSA (Riverpark DEIR, 2004).

Yellow Warbler

The yellow warbler is considered a state species of special concern (CDFG 2006e). It occupies marshes, swamps, streamside groves, willow and alder thickets, open woodlands with thickets, orchards, gardens, and open mangroves. This species breeds from Alaska to Newfoundland and south to western South Carolina and northern Georgia, and west sporadically through the southwest to the Pacific Coast. The yellow warbler is highly migratory and winters in Central America and the West Indies south to northern Peru. The yellow warbler is a summer visitor in California.

No yellow warblers were observed within the BSA during the 2002, 2003, or 2006 field surveys. The species was observed during general wildlife surveys just west of the BSA in riparian vegetation during 2003 surveys for the Cross Valley Connector Corridor. A lack of large areas of suitable habitat features (e.g., marshes, thickets, orchards) within the survey area indicates that the population for this species west the BSA is likely to be very small.

Summer Tanager

The summer tanager is considered a state species of special concern (CDFG 2006e). It occurs in pine-oak and oak forests, streamside willows and cottonwood trees, and dry

open woodlands. This species breeds from southeastern California and southern Nevada to central Oklahoma, and from southeastern Nebraska to New Jersey south to the Gulf Coast and northern Mexico. It winters mainly from Mexico to Bolivia. Summer tanager populations have experienced a steady decline over the past several years due to increased urbanization and habitat destruction (Unitt 2004).

No summer tanagers were observed during the general wildlife surveys conducted within the BSA during the 2002, 2003, or 2006 surveys. However, surveys conducted in 2003 observed this species in the BSA (Riverpark DEIR, 2004).

Southern California Rufous-Crowned Sparrow

The southern California rufous-crowned sparrow is considered a state species of concern (CDFG 2006e). It is an uncommon to fairly common, localized resident of sage scrub on steep rocky slopes of the coastal plain of southern California and Baja California, Mexico, from sea level to 1,800 feet.

A pair of southern California rufous-crowned sparrows was observed exhibiting breeding behavior within the BSA during 2006 surveys. Three individuals were observed during general wildlife surveys conducted during 2002. This species is expected to occur in low numbers throughout the suitable upland scrub communities within the BSA.

Bell's Sage Sparrow

Bell's sage sparrow is considered a state species of special concern (CDFG 2006e). It occupies dense coastal sage scrub and open chaparral habitats. This subspecies ranges from the Cascade Mountains to Baja California, Mexico.

No Bell's sage sparrows were observed during 2006 surveys. Surveys conducted during 2003 observed this species just west of the BSA (Riverpark DEIR, 2004). There is a high potential for this species to occur on-site.

Tricolored Blackbird

The tricolored blackbird is considered a state species of special concern (CDFG 2006e). It nests in large, dense colonies in freshwater marsh and riparian scrub habitats and forages in agricultural areas, lakeshores, and damp lawns. This species' distribution is centered in the Sacramento/San Joaquin valleys of California.

No tricolored blackbirds were observed during 2006 surveys. Surveys conducted during 2003 observed this species just west of the BSA (Riverpark DEIR, 2004).

San Diego Black-Tailed Jackrabbit

The San Diego black-tailed jackrabbit is considered a state species of special concern (CDFG 2006e). It inhabits arid regions, including desert scrub, desert dunes, open coastal sage scrub, early stages of chaparral, prairies, and farmlands.

No San Diego black-tailed jackrabbits were observed and no signs were observed during the general wildlife surveys within the BSA during 2006. However, surveys conducted in 2003 observed this species just west of the BSA (Riverpark DEIR, 2004).

San Diego Desert Woodrat

The San Diego desert woodrat is considered a state species of special concern (CDFG 2006e). It occupies rocky habitats in association with chaparral and coastal sage scrub. This subspecies is restricted to southern California from San Luis Obispo south to northwestern Baja California, Mexico.

No San Diego desert woodrats were observed during the various general wildlife surveys conducted within the BSA during 2006. However, surveys conducted in 2003 observed this species west of the BSA (Riverpark DEIR, 2004).

Southern Mule Deer

The southern mule deer is a state regulated game species. It occurs in large, undisturbed tracts of coastal sage scrub, chaparral, mixed grassland/scrub vegetation, riparian and oak woodlands, and coniferous forest, especially in areas with a mosaic of vegetation that

provide clearings interspersed with dense brush or tree thickets. Mule deer range from the Southern Yukon Territory and Mackenzie in Canada, south through the western United States to Wisconsin and western Texas, and throughout Baja California and northern Mexico. In California, mule deer occur throughout the state with the exception of the San Joaquin Valley and some southeastern desert areas. Most of the California population is migratory, moving to lower elevations in the fall.

The southern mule deer was observed and observed within the BSA during the various general wildlife surveys of the study area conducted during 2002, 2003, and 2006. Southern mule deer sign (tracks and scat) were documented along the Santa Clara River, and individual mule deer were observed on multiple occasions in the river and on the scrub-covered slopes immediately west of the CLWA filtration plant. Since the southern mule deer was observed and observed within the survey area during general wildlife surveys conducted for the project, and suitable foraging, shelter, and dispersal habitat occurs throughout the BSA, it is expected that the project would affect this species through the disruption of dispersal corridors and loss of habitat.

2.14.3 Environmental Effects

Alternative 1: Bridge Alternative

Acreage effects are shown in Table 2.14-1. In summary, the proposed project would result in indirect effects to:

- A small breeding population of western spadefoot toad
- 7 coastal western whiptail individuals
- 1 white-tailed kite individual
- 8 Cooper’s hawk individuals
- 1 western yellow-billed cuckoo individual
- 2 loggerhead shrike individuals
- 1 yellow warbler individual
- 1 summer tanager individual
- 3 southern California rufous-crowned sparrow individuals

- 1 Bell's sage sparrow individual
- 1 tricolored blackbird individual
- 2 San Diego black-tailed jackrabbit individuals
- 2 San Diego woodrat individuals
- 3 Southern mule deer individuals

No sharp-shinned hawks would be affected.

Alternative 2: No Build Alternative

Under the No Build Alternative, no development would occur at the project site; consequently, there would be no effect on animal species.

2.14.4 Avoidance, Minimization, and/or Mitigation Measures

Alternative 1: Bridge Alternative

Avoidance and Minimization Efforts: Effects within the BSA would be minimized or avoided through project design modifications. Should effects to animal species be unavoidable, all construction activities would be required by the federal and state regulatory agencies to avoid the breeding seasons of potentially affected species. Additional measures outlined in the NRMP MMRP (see Appendix I of this EA) shall be incorporated into the project design to further minimize potential effects to this species' habitat.

Mitigation: Mitigation Measures BIO-4 (a-c), BIO-5 (a-o), BIO-19, BIO-22, BIO-24 in the NMRP include habitat restoration, creation, and/or exotic habitat removal. Per BIO-5 and BIO-24, any effects to nesting and foraging habitat would be mitigated at a ratio of 1:1 for upland habitats and ratios ranging from 1:1 to 3:1 for riparian habitats depending on the timing of mitigation (see BIO-5 [a] and BIO-24).

Alternative 2: No Build Alternative

There would be no adverse effects on animal species as a result of the No Build Alternative; consequently, no avoidance, minimization, and/or mitigation measures are proposed.

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2.15 THREATENED AND ENDANGERED SPECIES

2.15.1 Regulatory Setting

The primary federal law protecting threatened and endangered species is the FESA USC 16, Section 1531, et seq. (see also 50 CFR Part 402). This act and subsequent amendments provide for the conservation of endangered and threatened species and the ecosystems upon which they depend. Under Section 7 of this act, federal agencies, such as the FHWA, are required to consult with the USFWS and NOAA Fisheries to ensure that they are not undertaking funding, permitting, or authorizing actions likely to jeopardize the continued existence of listed species or destroy or adversely modify designated critical habitat. Critical habitat is defined as geographic locations critical to the existence of a threatened or endangered species. The outcome of consultation under Section 7 is a Biological Opinion or an incidental take permit. Section 3 of FESA defines take as "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture or collect or any attempt at such conduct."

California has enacted a similar law at the state level, the CESA, California Fish and Game Code, Section 2050, et seq. CESA emphasizes early consultation to avoid potential effects to rare, endangered, and threatened species and to develop appropriate planning to offset project-caused losses of listed species populations and their essential habitats. The CDFG is the agency responsible for implementing CESA. Section 2081 of the Fish and Game Code prohibits "take" of any species determined to be an endangered species or a threatened species. Take is defined in Section 86 of the Fish and Game Code as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." CESA allows for take incidental to otherwise lawful development projects; for these actions an incidental take permit is issued by the CDFG. For projects requiring a Biological Opinion under Section 7 of the FESA, the CDFG may also authorize effects to CESA species by issuing a Consistency Determination under Section 2080.1 of the Fish and Game Code.

2.15.2 Affected Environment

In a regional context, the proposed bridge is located within the confines of the NRMP (Valencia 1998). The NRMP serves as a long-term management plan for infrastructure projects, such as the proposed Golden Valley Road Bridge Project, expected to affect the Santa Clara River and its associated tributaries. Projects described in the plan include river bank protection, storm drain outlets, utility lines, and bridge widening and development.

In 1998, the ACOE and CDFG approved the NRMP and issued a Section 404 Permit (No. 94-00504) and a 1603 Streambed Alteration Agreement (No. 5-502-97), respectively. The ACOE's Final EIS/EIR (1998a) and ROD (1998b) for the NRMP permits outline specific avoidance and mitigation measures to minimize direct and indirect effects to sensitive resources expected from the proposed activities described in the NRMP. These measures would be implemented in the project design for the proposed Golden Valley Road Bridge Project. Specific avoidance and mitigation measures for sensitive flora and fauna were discussed in greater detail in Sections 2.13 and 2.14, respectively. Measures for jurisdictional wetlands and waters were discussed in greater detail in Section 2.12.

The proposed project is also located within the SEA, specifically SEA 23 (City 2003). The SEA is defined by areas of high biological value within the city limits and managed by the City. These areas were characterized by the County of Los Angeles and adopted by the City as buffer zones for native ecological resources. Potential effects in the SEA from the proposed action would be mitigated through the measures provided from the certified NRMP EIS/EIR (ACOE 1998a) and ROD (ACOE 1998b) upon approval by the City.

The sensitive plant and wildlife species that occur within the region of the BSA are represented in Tables 2.13-1 and 2.14-1. These summary tables include the regulatory status, presence or absence of the species or its habitat, and a brief discussion of its potential for occurrence within the proposed BSA.

2.15.3 Environmental Effects

Alternative 1: Bridge Alternative

Threatened and endangered plants include those listed as threatened, endangered, or proposed for listing by the USFWS (2005), CDFG (2006b, 2006c), and CNPS (2001). The CNPS Listing is sanctioned by the CDFG and essentially serves as its list of candidate species for threatened or endangered status. All threatened and endangered species observed within the BSA or that have a potential to occur within the BSA based on previously recorded occurrences in the vicinity of the BSA, or the presence of suitable habitat, are listed in Table 2.15-1.

Table 2.15-1
Effects on Threatened and Endangered Species

Species	Population Size Observed within the BSA	Suitable Habitat within AE (acres)	Affected within AE
Slender Mariposa Lily	3 individuals	None	3 individuals would be indirectly affected
Plummer's Mariposa Lily	35 individuals	None	35 individuals would be indirectly affected
Peirson's Morning Glory	236 individuals	None	236 individuals would be indirectly affected
Palmer's Grappling Hook	50 individuals	None	50 individuals would be indirectly affected
Coast Live Oak	1 individual	None	1 individual would be indirectly affected
Western Spadefoot Toad	1 individual adult, hundreds of tadpoles	4.31	A small breeding population would be indirectly affected
Coastal Western Whiptail	7 individuals	2.39	7 individuals would be indirectly affected
White-tailed Kite	1 individual	2.39	1 individual would be indirectly affected
Sharp-shinned Hawk	1 individual	2.39	No individuals would be affected
Cooper's Hawk	8 individuals	2.39	8 individuals would be indirectly affected
Western Yellow-billed Cuckoo	1 individual	2.24	1 individual would be indirectly affected
Loggerhead Shrike	2 individuals	0.15	2 individuals would be indirectly affected
Yellow Warbler	1 individual	2.24	1 individual would be indirectly affected

Species	Population Size Observed within the BSA	Suitable Habitat within AE (acres)	Affected within AE
Summer Tanager	1 individual	2.24	1 individual would be indirectly affected
Southern California Rufous-crowned Sparrow	3 individuals	0.15	3 individuals would be indirectly affected
Bell's Sage Sparrow	1 individual	0.15	1 individual would be indirectly affected
Tricolored Blackbird	1 individual	2.24	1 individual would be indirectly affected
San Diego Black-tailed Jackrabbit	2 individuals	2.39	2 individuals would be indirectly affected
San Diego Woodrat	2 individuals	2.39	2 individuals would be indirectly affected
Southern Mule Deer	3 individuals	4.48	3 individuals would be indirectly affected

Species that are federally or state listed are afforded a degree of protection that entails a permitting process, including specific mitigation measures to compensate for impacts to the species. Species that are proposed to be listed by the USFWS are treated similarly to listed species by that agency. Recommendations of the USFWS, however, are advisory rather than mandatory in the case of proposed species. Species considered state species of special concern by the CDFG have a lesser degree of protection under CEQA.

Indirect impacts such as dust, sediment, lighting, runoff, and illegal trespass are not quantified because there are no established standards to determine the extent of impacts from the point source. Indirect impacts due to shading from the proposed bridge would not have an adverse impact on sensitive resources because this section of the river does not frequently flow with water. Shading effects are determined by how much area is covered by a bridge over standing or flowing water systems. With infrequent water flows, this portion of the river would not be adversely affected by the shadow of the proposed bridge.

Alternative 2: No Build Alternative

Under the No Build Alternative, no development would occur at the project site; consequently, there would be no impact to sensitive species.

2.15.4 Avoidance, Minimization, and/or Mitigation Measures

Alternative 1: Bridge Alternative

The NRMP was approved by the ACOE and CDFG in 1998. The ACOE's Final EIS/EIR (1998a) and ROD (1998b) for the NRMP permits outline specific avoidance and mitigation measures to minimize direct and indirect impacts to sensitive resources expected from the proposed activities described in the NRMP. These measures would be implemented in the project design, construction, and operation for the proposed Golden Valley Road Bridge Project. The NRMP has been approved by the ACOE, CDFG, and RWQCB and would therefore satisfy the regulatory requirements for impacts to sensitive species. Consequently, the proposed Bridge Alternative would not have adverse effects on sensitive species.

Alternative 2: No Build Alternative

There would be no adverse effects on threatened and endangered species as a result of the No Build Alternative; consequently, no avoidance, minimization, and/or mitigation measures are proposed.

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2.16 INVASIVE SPECIES

2.16.1 Regulatory Setting

On February 3, 1999, President Clinton signed Executive Order 13112 requiring federal agencies to combat the introduction or spread of invasive species in the United States. The order defines invasive species as "any species, including its seeds, eggs, spores, or other biological material capable of propagating that species, that is not native to that ecosystem whose introduction does or is likely to cause economic or environmental harm or harm to human health." FHWA guidance issued August 10, 1999, directs the use of the state's noxious weed list to define the invasive plants that must be considered as part of the NEPA analysis for a proposed project.

2.16.2 Affected Environment

The introduction of invasive species into native habitats creates many problems for native wildlife, including increased competition for resources and increased predation. The BSA is characterized by disturbed native vegetation communities that have been invaded by exotic plants. These species are listed in Table 2.16-1.

Table 2.16-1
Invasive Species List

Scientific Name	Common Name
Angiospermae	
Asteraceae - Sunflower Family	
Centaurea melitensis	Tocalote
Brassicaceae - Mustard Family	
Brassica ssp.	Mustards
Hirschfeldia incana	Perennial mustard
Myoporaceae - Myoporum Family	
Myoporum laetum	Myoporum
Solanaceae - Nightshade Family	
Nicotiana glauca	Tree tobacco
Monocotyledoneae	
Poaceae - Grass Family	
Avena barbata	Slender wild oat
Arundo donax	Giant reed
Bromus diandrus	Ripgut grass
Bromus madritensis ssp. *rubens*	Foxtail chess
Cortaderia sp.	Pampas grass
Cynodon dactylon	Bermuda grass
Polypogon monspeliensis	Annual beard grass
Rhynchelytrum repens	Natal grass

2.16.3 Environmental Effects

Alternative 1: Bridge Alternative

Given the presence of a range of invasive species onsite, there is some potential for these species to spread to other areas through vehicle tracking. The seeds could also be disturbed during construction and spread through windborne or waterborne methods. Mitigation measures INVS-A and INVS-B provided below would help avoid adverse effects from the introduction or spreading of invasive species.

Alternative 2: No Build Alternative

Under the No Build Alternative, no ground disturbance would occur at the project site; consequently, there would be no impact to invasive species.

2.16.4 Avoidance, Minimization, and/or Mitigation Measures

Alternative 1: Bridge Alternative

The following mitigation measures would reduce the potential for adverse effects:

INVS-A: Erosion control measures implemented during construction and following construction shall be designed and implemented in compliance with Executive Order 13112, designed to prevent the introduction of invasive species and provide for their control and to minimize the economic, ecological, and human health impacts that invasive species cause. Landscaping would incorporate native plants to combat invasive species.

INVS-B: Certified weed-free or weed-seed-free hay or straw shall be used where such material is required for BMPs or other practices.

Alternative 2: No Build Alternative

There would be no impacts to invasive species as a result of the No Build Alternative; consequently, no avoidance, minimization, and/or mitigation measures are proposed.

2.17 CUMULATIVE EFFECTS

Cumulative effects are those that result from past, present, and reasonably foreseeable future actions, combined with the potential effects of the proposed action. A cumulative effect assessment looks at the collective impacts posed by individual land use plans and projects. Cumulative impacts can result from individually minor, but collectively substantial impacts taking place over a period of time. Section 1.6 discusses related projects in the vicinity of the proposed project, and Table 1-2 includes projects in the vicinity of the proposed project that are planned, approved, or being constructed.

2.17.1 Land Use and Community Impacts

The proposed project would not result in adverse effects to land use as the bridge would be compatible with land use designations and zoning as well as nearby surrounding land uses. The proposed bridge would not conflict with adopted goals or policies of applicable plans or physically divide or disrupt established land use patterns. The proposed project would not result in acquisition of any residential or commercial structures.

Other related projects would be subject to their own environmental review including land use conformity analysis and consistency with policies and goals of applicable land use plans. As the proposed bridge would not result in an adverse land use impact, it would not contribute to a cumulatively considerable effect when combined with other related development.

2.17.2 Utilities/Emergency Services

Local utility lines and infrastructure have adequate capacity to serve the nighttime lighting needs of the proposed project. Solid waste generated during construction would be handled in accordance with the City's policies, and wastewater would be managed subject to Caltrans' SWPPP/WPCP requirements. The project would consume water and electricity during construction; however, the existing system has adequate capacity to accommodate these activities. At construction completion, the proposed project would improve regional circulation and, with the other CVC Corridor segments currently under

construction and completed, would cumulatively improve emergency response times. As the proposed project would not result in an adverse impact to utilities and emergency services, it would not contribute to a cumulatively considerable effect when combined with other related development.

2.17.3 Traffic and Transportation/Pedestrian and Bicycle Facilities

The proposed project would result in an improvement in permanent traffic circulation within the Santa Clarita Valley and thus would not result in a cumulatively adverse impact to traffic when considered in conjunction with other projects in the area. Temporary impacts to traffic during construction would be negligible given the project's location off the existing street network. As the proposed project would not result in a adverse traffic impact, it would not contribute to a cumulatively considerable effect when combined with other related development, either during construction or operation.

2.17.4 Visual/Aesthetics

Potential cumulative impacts to aesthetic resources would occur in the event that other projects, in combination with the proposed project, cumulatively contribute to the degradation or deterioration of the visual setting, or result in damage to scenic views or vistas. The impact area for cumulative visual effects would include the general vicinity of the project area, including those areas that can be viewed from, or have views of, the bridge site.

The proposed action would create a new feature in the visual environment and would be visible from Soledad Canyon Road, along with the adjacent Riverpark construction. However, the structure would not be out of place in an increasingly urbanized setting and with the crossing of a large river. Likewise, visual impacts during construction would not be out of place for the setting. As such, there would be no cumulative effect on aesthetics from the proposed project..

2.17.5 Hydrology and Floodplain

The proposed bridge would be compatible with the NRMP and would be consistent with the local, state, and federal regulations for the 100-year floodplain. As such, there would be no down- or upstream effect on hydrology or floodplain. Related projects spanning the Santa Clara River in the vicinity of the proposed bridge have been analyzed in the NRMP. These projects and others adjacent to the floodplain would be required to adhere to FEMA regulations to avoid the 100-year floodplain. As such, there would be no cumulative effect on hydrology and floodplain resulting from the proposed project.

2.17.6 Water Quality and Stormwater Runoff

The proposed project would not result in adverse effects on water quality and stormwater runoff. For most of the year, there is little water flow in the Santa Clara River and therefore limited situations where discharge into the water system would occur. The proposed bridge, as well as reasonably foreseeable development, would be required to comply with NPDES requirements limiting offsite discharges to predevelopment levels. As such, cumulative water quality and stormwater effects would be avoided.

2.17.7 Geology/Soils/Seismic/Topography

Potential cumulative geologic impacts pertain to the disturbance of unique geologic formations and exposure of persons or property to seismic hazards and are localized in nature. The proposed bridge, in conjunction with other projects in the area, would result in the construction of new structures that would be subject to seismic hazards. All new structures would incorporate the required seismic safety standards and project-specific design requirements to reduce impacts associated with seismic hazards to below adverse levels. The project would not create or worsen geology and soils impacts at any of the related project sites; therefore, no cumulative effects would occur.

2.17.8 Hazardous Waste and Materials

Potential impacts related to hazardous waste and materials would be reduced during project construction through compliance with applicable rules and regulations. None of

the related projects include hazardous waste-generating facilities or activities that would create new safety hazards. No long-term impacts would occur, since the project would not result in any new uses that would generate hazardous waste. The proposed project and other related projects are not expected to use large quantities of hazardous materials that would create a potential risk to public health and safety. Other related projects in the area would also be expected to comply with applicable code requirements and regulations for hazardous materials contamination, handling, and storage. When considered together with other related projects, hazardous materials effects would not be cumulatively considerable as a result of the proposed project.

2.17.9 Air Quality

The Los Angeles County portion of the South Coast Air Basin is currently classified as federal and state nonattainment for O_3, $PM_{2.5}$, and PM_{10}, and federal nonattainment for CO. Development forecasted for the Santa Clarita Valley will generate increased emissions from transportation and stationary sources resulting in an adverse cumulative impact to air quality. Combined emissions from other developed portions of the South Coast Air Basin are expected to continue to exceed federal and state standards. Cumulative air quality impacts will be partially reduced by the implementation and achievement of emission levels identified in the SCAQMD AQMP, for O_3 precursors. To achieve these goals, the AQMP requires implementation of control measures to reduce emissions.

The proposed action was analyzed for regional air quality impacts by SCAG as part of the RTPs, which were found to conform to the AQMP and the SIP. The proposed bridge was analyzed for local air quality impacts in accordance with the Transportation Project-Level Carbon Monoxide Protocol (UC Davis Institute of Transportation Studies 1997) and recent U.S. EPA guidance for analysis of local PM_{10} impacts. The proposed bridge would not generate traffic, increase cold starts, or worsen congestion. There would be no adverse local air quality effects, nor contribution to the existing air quality violations. Therefore, the proposed action would not contribute to cumulative air quality effects.

2.17.10 Noise

The proposed action would not result in adverse noise effects, as there are no sensitive receptors within the vicinity of the proposed bridge that would be affected by noise during construction or operations. Foreseeable future development in the vicinity of the project would likewise not result in sensitive noise receptors along the roadway; therefore, no cumulative noise effects are anticipated.

2.17.11 Natural Communities

Implementation of the proposed action, as well as other projects within the region, would contribute to cumulative effects to natural communities through direct, incremental loss of habitat and increasing indirect pressures on remaining dwindling habitats. The NRMP was completed to ensure that all foreseeable impacts to the Santa Clara River were accommodated and mitigated for. Consequently, through the implementation of the mitigation measures outlined in the NMRP, these impacts would be reduced to the greatest extent feasible.

2.17.12 Wetlands and Other Waters

Mitigation requirements for the proposed project's impacts to jurisdictional waters and other waters have already been determined by the permit and agreement issued for the NRMP. Mitigation for jurisdictional areas will be performed at a ratio varying from 1:1 to 3:1 depending upon implementation timing. The NRMP provides mitigation for impacts to wetlands and other waters and also oversees mitigation for other projects planned along the Santa Clara River, including the adjacent Riverpark development currently under construction. Although direct cumulative effects would occur as a result of the proposed action and other related projects, mitigation provided in the NRMP is designed to cumulatively reduce effects.

2.17.13 Plant Species

Implementation of the proposed project, as well as other projects within the region, would contribute to cumulative effects on the plant species discussed in Section 2.13,

through direct, incremental loss of populations and habitat and increasing indirect pressures on remaining dwindling populations. Since these species would not be directly affected by the proposed bridge, the proposed project would not contribute to cumulative effects.

2.17.14 Animal Species

Implementation of the proposed action, as well as other projects in the region, would result in development and incremental loss of habitats suitable for all animal species as discussed in Section 2.14. Incremental loss of habitat adds to the long-term trend of increased disturbance and degradation of habitats suitable for the species. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would not contribute to cumulative effects.

2.17.15 Threatened and Endangered Species

Mitigation requirements for the bridge's effects on jurisdictional waters and streambed have already been determined by the permit and agreement issued for the NRMP. Adherence to the avoidance, minimization, and mitigation measures in the NRMP would reduce the potential for adverse effects. In addition, the related projects would also be required to adhere to similar measures. As such, impacts to threatened and endangered species would not contribute to cumulative effects.

2.17.16 Invasive Species

The proposed action and related projects would potentially result in a cumulatively adverse effect with regard to the spread of invasive species. However, following the implementation of the suggested mitigation for invasive species, these effects would not be adverse. Related projects would be required to implement similar measures such that cumulative effects from the introduction and/or spread of invasive species would not be adverse.

Chapter 3
Comments and Coordination

Early and continuing coordination with the general public and appropriate public agencies is an essential part of the environmental process to determine the scope of environmental documentation, the level of analysis, potential impacts and mitigation measures, and related environmental requirements. Agency consultation and public participation for this project have been accomplished through a variety of formal and informal methods, including project development team meetings. This chapter summarizes the results of the City's efforts to fully identify, address, and resolve project-related issues through early and continuing coordination.

The proposed project is a joint project by the California Department of Transportation (Caltrans) and the Federal Highway Administration (FHWA) and is subject to state and federal environmental review requirements. Project documentation, therefore has been prepared in compliance with the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA). The FHWA's responsibility for environmental review, consultation, and any other action required in accordance with NEPA and other applicable federal laws for this project is being, or has been, carried out by Caltrans under its assumption of responsibility pursuant to 23 USC 327.

As noted in the introduction of this document, CEQA compliance for this project was obtained through the approval of the Riverpark housing development the City Council of Santa Clarita certifying the Final Environmental Impact Report (FEIR) SCH #2002091081, including the mitigation monitoring and reporting program, and adopting a statement of overriding considerations on May 24, 2005. Caltrans reviewed the FEIS and sent notice to the City on March 15, 2007, finding the document to be consistent with the proposed bridge project under assessment within this NEPA document. Caltrans concurred with the cities' level of documentation under CEQA. Caltrans remains responsible for NEPA determination through this document.

Public outreach and Native American consultation for this project was conducted for this project under the Riverpark EIR process and the early Cross Valley Connector environmental process. Letters were sent on November 13, 2002, and December 16, 2002, to the following Native American groups: Chumash, Fernandeño, Gabrielino, Kitanemuk, Serrano, Tataviam, Tongva, Shoshone Paiute, and Yaqui. Individuals indicated the need for caution during the cultural investigations as the area may have been used for Chumash and Tataviam villages and/or Tataviam burial grounds. A response from the Native American Heritage Commission was received on November 6, 2002, indicating that sacred lands were not located within the immediate vicinity of the project area. Additionally, a public scoping meeting for the Cross Valley Connector was held in Santa Clarita on February 24, 2003.

A Preliminary Environmental Study (PES) form was completed for Caltrans on May 10, 2006. Caltrans approved the PES form on May 11, 2006, and the FHWA approved the form on May 18, 2006. An Environmental Assessment (EA) leading to a Finding of No Significant Impact (FONSI) was identified as the appropriate course for the proposed action.

A public hearing will be held on this project on April 23, 2008 at the City of Santa Clarita City Council Chambers. Prior to the hearing, the document will be distributed to those agencies and officials with a stake in the project. The agency/elected official distribution list is noted in Chapter 5 of this document. Additionally, members of the public who submitted comments at the original scoping meeting will be sent a copy of the EA, as well as other interested parties, businesses, and local agencies with the vicinity of the project. Agency and public comments will be collected and incorporated into the final environmental document.

Chapter 4
List of Preparers

This EA was prepared by the City of Santa Clarita and District 7 of Caltrans, with the aid of EDAW, Inc. The following people contributed to the preparation of this EA.

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Chapter 5
Distribution List

This EA was prepared and will be distributed to the following interested Federal and local agencies, as well as elected officials with a high level of interest in the Golden Valley Road Bridge project.

Federal and Local Agencies:

U.S. Fish and Wildlife Offices**,** Ventura Field Office

U.S. Army Corps of Engineers, Regulatory Branch

Los Angeles Regional Water Quality Control Board

Elected Officials

U.S. Senator Barbara Boxer

U.S. Senator Diane Feinstein

Congressman Howard 'Buck' McKeon, 25th Congressional District

California Governor Arnold Schwarzenegger

California Senator George Runner, 17th Senate District

California Senator Tom McClintock, 19th Senate District

California Assemblywoman Sharon Runner, 36th Assembly District

California Assemblyman Cameron Smyth, 38th Assembly District

Los Angeles County Supervisor Michael Antonovich, 5th District

Mayor Bob Kellar, City of Santa Clarita

City Manager Ken Pulskamp, City of Santa Clarita

Councilmembers Tim Ben Boydston, Laurene Weste, and Frank Ferry,
City of Santa Clarita

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November 7, 2006

Mr. Chris Dellith
Fish and Wildlife Biologist
Ventura Fish and Wildlife Office
2493 Portola Road, Suite B
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RE: 30-day Summary Report of Focused Presence/Absence Surveys for the Arroyo Toad (*Anaxyrus* [*Bufo*] *californicus*) for the Golden Valley Road Bridge, Santa Clarita, Los Angeles County, California

Dear Mr. Dellith:

This letter report summarizes the results of focused surveys for the arroyo toad (*Anaxyrus californicus*; ARTO) on behalf of the City of Santa Clarita (City) at the Golden Valley Road Bridge, Santa Clarita, Los Angeles County, California. Surveys were conducted pursuant to the established protocol approved by the U.S. Fish and Wildlife Service (USFWS 1999). The proposed project is located in Santa Clarita, approximately 35 miles northeast of Los Angeles (Figure 1).

Project Description

The City is proposing to construct the Golden Valley Road bridge, a 1,100-foot long bridge over the Santa Clara River. The proposed typical section of the bridge would include a six-lane roadway with a 14-foot median island and pedestrian and bicycle lanes. The total curb-to-curb width would be approximately 90 feet with a total right-of-way width of approximately 120 feet.

The bridge will connect Soledad Canyon Road and the newly extended Newhall Ranch Road. The northern terminus of the proposed project would therefore be the easternmost extent of Newhall Ranch Road, which is currently under construction to the northwest of the project site. Grading for the majority of Newhall Ranch Road is complete and construction is anticipated to be completed between October 2007 and April 2008. The southern terminus of the proposed project would lie at the northernmost extent of the Golden Valley Road/Soledad Canyon Ranch Interchange, which was recently completed and was opened for public access in late 2005.

The proposed Golden Valley Road Bridge Project would result in impacts to biological resources within a 4.48-acre area of effect (Figure 2). Potential impacts to ARTOs were analyzed as part of a Natural Environmental Study Report within a biological study area, characterized by the limits of the proposed project footprint (area of effect) plus a 500-foot survey buffer on each side of the centerline (Figure 2).

Site Description

Surveys were conducted within the 58-acre biological study area, which includes a 500-foot buffer surrounding the footprint of the proposed bridge (Figure 2). The biological study area encompasses a marine terrace on the north side of the Santa Clara River and the river bed where the proposed extension of Newhall Ranch Road will cross the river. The river bed supports an intermittent stream during and immediately after storm events. The study area is surrounded by Riversidian coastal sage scrub and hollyleaf scrub to the north, waters of the U.S. to the east and west, and ruderal and developed areas to the south. The study area itself is largely nonwetland waters of the U.S. (33%), southern riparian scrub (27%), and ruderal (25%), with smaller areas of Riversidian coastal sage scrub (8%), hollyleaf scrub (4%), big sagebrush scrub (2%), and disturbed habitat (2%) (Figure 3).

Background Information

The ARTO was listed by the USFWS on December 16, 1994 (USFWS 1994). This listing status applied to the entire population of ARTO. Critical habitat was proposed by the USFWS on June 8, 2000. A recovery plan for the species has been adopted by the USFWS, which identifies critical habitat and survey protocols (USFWS 1999). ARTOs are distributed in the semiarid parts of the southwest from near Santa Margarita in San Luis Obispo County to northwestern Baja California.

This subspecies of southwestern toad has perhaps the most specialized habitat requirements of any Californian toad. They are typically associated with gravelly or sandy washes, stream and river banks, and arroyos. Adult toads spend most of the year in burrows in upland habitat near washes and streams. Nonbreeding habitat includes sage scrub, mixed chaparral, Joshua tree woodland, and sagebrush habitats.

Breeding activity has been observed from February to June depending on temperatures and precipitation (Sullivan 1992; Sweet 1993). Breeding occurs in quiet, clear backwaters of streams as waters recede from the floods of the wet season. Males call from suitable breeding habitat at night, and the call is a musical trill emitted in 10-second bursts. Eggs are laid on the bottom of the shallow pools, usually in tangled strings of one to three rows. The eggs are sensitive to siltation and require good water quality. Because the eggs are laid in shallow water and are not anchored or attached to the substrate, they are susceptible to rapid changes in stream flow that can strand them dry or wash them downstream. The tadpoles are typically mottled or spotted black and brown and reach a maximum length of about 1.5 inches. Tadpoles are solitary and extremely cryptic. Metamorphosed toadlets bask during the day on sandy or gravelly beaches in the late summer before beginning the subterranean life of the adults. The adults typically spend the majority of the year in burrows, are nocturnal, and are occasionally found at night foraging on open, sandy areas around the drainage. Burrows are shallow and are usually located in sandy soils on terraces adjacent to streams (USFWS 1994).

An estimated 75 percent of the historical habitat of the species has been destroyed and many of the remaining populations are threatened. The primary reasons for the decline of the species include dams and water projects, urban development, agriculture and grazing, and human recreational activities in breeding areas. The closest known USFWS-designated critical habitat for ARTO occurs approximately 0.75 mile to the northwest. There are reports of a breeding population approximately 3 km upstream (Lovich 2006).

Survey Methodology

EDAW presence/absence surveys were performed in accordance with the guidelines set forth by the USFWS Survey Protocol for the Arroyo Toad (USFWS 1999). Presence/absence surveys do not require a permit under section 10(a)(1)(A) of the Endangered Species Act of 1973. Surveys were conducted by EDAW biologists Mason Ryan, Lyndon Quon, Erin Riley and Barbra Calantas. Six nocturnal and diurnal surveys were conducted within previously identified suitable habitat, every 10 days during the months of April, May, June, and July of 2006.

EDAW biologists visually scanned suitable ARTO habitat with headlamps and flashlights and listened for calling males during nocturnal surveys. Adjacent upland trails to and from the appropriate breeding habitat were also surveyed. During the diurnal surveys, the pools and water edges were searched for the presence of egg masses or tadpoles.

Results

Weather conditions, survey dates, and personnel from the focused surveys were recorded and are listed in Table 1. EDAW biologists did not detect the presence of any life stage (adults, tadpoles, eggs) of the ARTO

within the biological study area. A list of all wildlife species observed during the ARTO focused surveys is presented in Appendix A. Copies of recorded field notes are included in Appendix B.

Table 1
Arroyo Toad Protocol Focused Surveys
Dates, Personnel, Weather Conditions, and Observations

Date	Time	Weather Conditions	Field Biologist	ARTO Observations
4/24/2006	2210-2255	Start: 56.6°F, wind 0-2; 30% cover End: 52.2°F, wind 0-2;,0% cover	Erin Riley, Mason Ryan	No ARTO observed
4/25/2006	1015-1030	Start: 62.3°F, wind 0-3, 10% cover End: 62.3°F, wind calm, 10% cover	Erin Riley, Mason Ryan	No ARTO observed
5/04/2006	2230-2300	Start: 57.2°F, wild 0-2, 70% cover End: 57.2°F, wind calm, 70% cover	Erin Riley, Barbra Calantas	No ARTO observed
5/05/2006	0900-0920	Start: 59.1°F, wind 0-4, 15% cover End: 59.9°F, wind calm, 15% cover	Erin Riley, Mason Ryan	No ARTO observed
5/17/2006	2150-2240	Start: 73.1°F, wind 0-3, 70% cover End: 74.1°F, wind 0-30; 60%cover	Erin Riley, Barbra Calantas	No ARTO observed
5/18/2006	0540-0610	Start: 61.9°F, wind 0-2, 100% cover/fog End: 61.9°F, wind calm, 100% cover/fog	Erin Riley, Barbra Calantas	No ARTO observed
5/30/2006	2205-2245	Start: 66.4°F, wind 0-2, 0 % cover End: 65°, wind 0-2, 0% cover	Erin Riley, Mason Ryan	No ARTO observed
5/31/2006	0650-0710	Start: 61.7°F, wind 0-2, 0 % cover End: 68.0, wind 0-2, 0% cover	Erin Riley, Mason Ryan	No ARTO observed
6-6-2006	2200-2245	Start: 73.6°F, wind 1-2, 0 % cover End: 71.2°F, wind 1-2, 0% cover	Barbra Calantas, Lyndon Quon	No ARTO observed
6/7/2006	0640-0710	Start: 66°F, wind calm, 100% cover End: 66°F, wind calm, 100% cover, mist	Barbra Calantas, Lyndon Quon	No ARTO observed
7/5/2006	2215-2315	Start: 62°F, wind 0, 0% cover End: 60°F, wind 0, 0% cover	Lyndon Quon, Oren Mizrahi	No ARTO observed
7/6/2006	0645-0715	Start: 69°F, wind calm, 0% cover End: 82°F, wind calm, 0% cover	Lyndon Quon, Oren Mizrahi	No ARTO observed

Four state species of special concern, the western spadefoot toad (*Spea hammondii*), Cooper's hawk (*Accipiter cooperii*), yellow-breasted chat (*Icteria virens*), and southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*), and one state fully protected species, the white-tailed kite (*Elanus leucurus*), were detected within the project footprint during 2006 surveys (Figure 4; Appendix A). Both adults and tadpoles of the western spadefoot toad were observed onsite.

Discussion

No ARTOs were observed onsite during 2006 focused surveys. This site had marginal ARTO habitat because of the proximity of roads and development; the channelized nature of the stream; lack of clear, slow moving water; and lack of abundant deep, soft sand outcrops in the adjacent uplands. Given these conditions and the known breeding localities upstream of the survey site, the biological study area can be considered marginally suitable for ARTO and currently unoccupied by the species.

If you have any questions or comments regarding this letter report, please contact me at (619) 233-1454. Thank you.

Sincerely,

Erin Riley
Wildlife Biologist

Attachments: Figure 1 – Regional Location Map
Figure 2 – Biological Study Area
Figure 3 – Vegetation Communities
Figure 4 – Sensitive Species
Appendix A – Wildlife Species Observed during 2006 Focused Arroyo Toad Surveys for the Golden Valley Road Bridge Project
Appendix B – Field Notes

02080053 Golden Valley 30-Day ARTO Rpt Nov 2006

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APPENDIX A

WILDLIFE SPECIES OBSERVED DURING 2006 FOCUSED ARROYO TOAD SURVEYS

APPENDIX A

Wildlife Species Observed during 2006 Focused Arroyo Toad Surveys for the Golden Valley Road Bridge Project

Scientific Names	Common Names
Amphibians	
Order Anura	**Frogs and Toads**
Family Pelobatidae	
Spea hammondii	western spadefoot toad[1]
Family Bufonidae	
Anaxyrus borea	western toad
Family Hylidae	
Pseudacris regilla	Pacific chorus frog
Reptiles	
Order Squamata	**Lizards and Snakes**
Family Phrysonomatidae	
Cnemidophorus tigris	western whiptail
Family Teiidae	
Sceloporus occidentalis	western fence lizard
Birds	
Order Galliformes	**Megapodes, Curassows, Pheasants, Quail, and Relatives**
Family Odontophoridae	
Callipepla californica	California quail
Order Falconiformes	**Diurnal Birds of Prey**
Family Accipitridae	
Elanus leucurus	white-tailed kite[2]
Accipiter cooperii	Cooper's hawk[1]
Buteo lineatus	red-shouldered hawk
Buteo jamaicensis	red-tailed hawk
Order Charadriiformes	**Shorebirds and Allies**
Family Charadriidae	
Charadrius vociferous	killdeer
Order Columbiformes	**Doves and Pigeons**
Family Columbridae	
Columba livia	rock pigeon
Zenaida macroura	mourning dove
Order Strigiformes	**Owls**
Family Strigidae	
Tyto alba	barn owl
Order Apodiformes	**Swifts and Hummingbirds**
Family Apodidae	
Chaetura vauxi	Vaux's swift
Aeronautes saxatalis	white-throated swift
Family Trochilidae	
Calypte anna	Anna's hummingbird
Calypte costae	Costa's hummingbird
Order Passeriformes	**Perching Birds**
Family Tyrannidae	
Sayornis nigricans	black phoebe
Myiarchus cinerascens	ash-throated flycatcher
Tyrannus verticalis	western kingbird
Family Vireonidae	
Vireo gilvus	warbling vireo

Scientific Names	Common Names
Family Corvidae	
Aphelocoma californica	western scrub jay
Corvus brachyrhynchos	American crow
Corvus corax	common raven
Family Hirundinidae	
Stelgidopteryx serripennis	northern rough-winged swallow
Petrochelidon pyrrhonota	cliff swallow
Family Aegithalidae	
Psaltriparus minimus	bushtit
Family Troglodytidae	
Thryomanes bewickii	Bewick's wren
Troglodytes aedon	house wren
Family Timaliidae	
Chamaea fasciata	wrentit
Family Mimidae	
Mimus polyglottos	northern mockingbird
Family Sturnidae	
Sturnus vulgaris	European starling
Family Parulidae	
Vermivora ruficapill	Nashville warbler
Icteria virens	yellow-breasted chat[1]
Family Thraupidae	
Piranga ludoviciana	western tanager
Family Emberzidae	
Pipilo maculates	spotted towhee
Pipilo crissalis	California towhee
Aimophila ruficeps	southern California rufous-crowned sparrow[1]
Amphispiza belli	sage sparrow
Melospiza melodia	song sparrow
Zonotrichia leucophrys	white-crowned sparrow
Family Cardinalidae	
Carduelis psaltria	black-headed grosbeak
Passerina amoena	lazuli bunting
Family Fringillidae	
Carpodacus mexicanus	house finch
Carduelis psaltria	lesser goldfinch
Carduelis tristis	American goldfinch
Mammals	
Order Carnivora	**Flesh-eaters**
Family Canidae	
Canis latrans	coyote
Order Rodentia	**Gnawing Mammals**
Family Sciuridae	
Citellis beecheyi	California ground squirrel
Family Cricetidae	Mice, Rats, Lemmings, and Voles
Neotoma sp.	unidentified woodrat
Order Lagomorpha	**Rabbits, Hares, and Pikas**
Family Leporidae	
Sylvilagus audubonii	desert cottontail
Sylvilagus bachmani	brush rabbit

1 **California Department of Fish and Game state species of special concern.**

2 **California Department of Fish and Game fully protected species.**

APPENDIX B

FIELD NOTES

FIELD JOURNAL

Job Name Cross Valley / Golden Valley Rd Bridge Job #

Observer EMR Add'l Persons MR

Date 04-24-06 Start Time 1010pm End Time

Location Santa Clarita River

Habitat Description

disturbed, river wash, upland - sage scrub, tamarisk

Purpose of Visit ARTO + CAGN Surveys (#1)

Night Start Weather: Temp 56.6°F Wind Sp/Dir From 0-2mph %Clds 30 Pcp Ø

Describe Surrounding Land Uses and Discuss Wildlife Movement Corridors and Habitat Linkages.

Obs. No.	Time	Notes
		Night Survey
		Pac. Chorus Frogs
		KILL
		West. Toads - eggs (many)
		↳ breeding adults, not calling
		End 1055 52.2°F, Ø clds, 0-2mph
		Day Survey 04.25-06
		Start 1015 - 1030 10% clds, 0-4mph, Ø pcp, gusts to 12mph
		62.3°F
	✓	coyote scat
	✓	ATFL ✓ WAVI
	✓	MODO ✓ LEGO
		CA grnd squirrel ✓ RCSP
	✓	HOFI ✓ cottontail
		[redacted] Cabbage white
	✓	YBCH dragonflies
	✓	west. fence lizard ✓ VASW
	✓	AMCR
	✓	CAQU
	✓	RTHA
	✓	LEGO
	✓	HOWR
	✓	west. whiptail
	✓	BUSH
	✓	BAOW
	✓	NAWA
	✓	WIKI
	✓	WESJ
	✓	WTSW
	✓	WETA

Current Weather: Temp Wind Sp/Dir From %Clds Pcp

CAGN Survey Start 1045-1145am 4/25/06

species observed: same as ARTO species on Pg. 1.

tape played: 1050
1100
1105
1120
1135
} no response

CAGN-suitable habitat species: sage sp.
eriogonum
sambucus
lotus
lupine
mustard
Chamise
goldfields
Scrub oaks
prickly pear
popcorn flower
blue dicks
artem. californica

End 11:45

66°F, 0-4mph, 10% clds

FIELD JOURNAL

Job Name: Cross Valley / Golden Valley Rd Bridge Job #:
Observer: EMR Add'l Persons: MR
Date: 05-04-06 Start Time: 1030 End Time: 1100
Location: Santa Clarita River + associated slopes
Habitat Description: disturbed, river wash, upland - sage scrub tamarisk
Purpose of Visit: ARTO + CAGN Surveys (#2)
Start Weather: Temp 57.2°F Wind Sp/Dir From 0-2mph %Clds 70 Pcp Ø

Describe Surrounding Land Uses and Discuss Wildlife Movement Corridors and Habitat Linkages.

Obs. No.	Time	Notes	
		Night Survey - ARTO	
		- Western Spadefoot heard calling upon approach	
		- Pacific chorus frogs calling	
		- Western toad tadpoles (many)	
	✓	Killdeer	
		CA grnd squirrel	
		Day Survey - ARTO 05-05-05	
		59.1°F, 0-4mph, 15% clds, Ø pcp 0900 - 0920	
	✓	HOFI	✓ SPTO
		~~HOSP~~ EUSP House Sparrow	✓ NOMO
	✓	CA grnd squirrel	✓ WCSP
	✓	WETA	✓ SOSP
	✓	west. toad tadpoles	✓ CALT
	✓	BLPH	✓ BEWR
	✓	ATFL	✓ Coyote Scat
	✓	WEST	✓ COHA
	✓	CORA	✓ RCSP
	✓	LEGO	✓ MOBO
	✓	BUSH	✓ WREN
	✓	COHU	✓ WEKI
	✓	CLSW	✓ cottontail
		SASP Sage	cabbage white
		LABU Lazuli	
	✓	HOLA	
	✓	CAQU	

(Night End cont's)

Current Weather: Temp 56.4°F Wind Sp/Dir From 0-2mph %Clds 80 Pcp Ø

CAGN Survey 05-05-06
WMR

Cross Valley

0925 - 1015 End: 71.0°F, 0-2mph, 352 clds

Species observed: same as pg. 1 Day Survey

0925 played tape twice, no response

0935 " " " "

0950 " " " "

FIELD JOURNAL

Job Name Cross Valley / Golden Valley Rd Bridge Job #

Observer EMR Add'l Persons BC

Date 051706 Start Time End Time

Location Santa Clarita River Valley

Habitat Description

Purpose of Visit ARTO/CAGN (#3)

Start Weather: Temp Wind Sp/Dir From %Clds Pcp

Describe Surrounding Land Uses and Discuss Wildlife Movement Corridors and Habitat Linkages.

Obs. No.	Time	Notes
		Night - ARTO 0950pm, 70%clds, 73.1°F, 0-3mph
		crickets
		west toad observed (non-breeding male?) smaller adult, not calling
		- 2nd west toad observed
		Pac chorus frogs calling, very active
	X MANY	→ tadpoles of ~~Pac chorus frogs~~ West. spadefoot
		small snails
		Some west. toad tadpoles observed
		KILL
		bloodworms
		End 10:40pm 0-3mph, 60%clds, 74.1°F
		Day - ARTO 05-18-06 61.9°F, 100%clds/fog
		Ø prcp, 0-2mph 0540.
	✓	HOFI
	✓	NOMO ✓ RCSP, ♂ calling, ♀ observed
	✓	ATFL ✓ LEGO
	✓	MODO ✓ ANHU
	✓	BUSH ✓ CAQU
	✓	cottontail ✓ RSHA
	✓	KILL ✓ SPTO
	✓	CALT ✓ BLPH
	✓	AMCR ✓ RODO
	✓	BEWR ✓ WEKI
	✓	SOSP End 0610am
	✓	CA gnd sqrl

Current Weather: Temp Wind Sp/Dir From %Clds Pcp

CAGN Survey 05/18/06

Start 0610 → End 0700 59.9°F, fog, 100% clds, 0-2m

- same species observed as ARTODay (Pg. 1)
- played tape: 0615, 0630, 0645 } no response.

FIELD JOURNAL

Job Name Cross Valley / Golden Valley Rd Bridge Job #
Observer EMR Add'l Persons MR
Date 05 30 06 Start Time End Time
Location Santa Clarita River Valley
Habitat Description river wash, tamarisk, upland -

Purpose of Visit ARTO + CAGN (#4)
Start Weather: Temp 66.4°F Wind Sp/Dir From 0-2mph %Clds Ø Pcp Ø
Describe Surrounding Land Uses and Discuss Wildlife Movement Corridors and Habitat Linkages.

Obs. No.	Time	Notes
ARTO-		Night - 10:05pm Ø clds, 0-2mph, 66.4°F
		KILL
		Pac. chorus frogs - calling
		West. toads - 6 adults observed
		no tadpoles
		Appears site experienced heavy scouring
		since hard rain (~5/21/06)
		clean flow, less trash + debris, no bloodworms
		no tadpoles, channel patterns changed some
		places
		End 65°F, 0-2mph, Ø clds 10:45pm
		ARTO - Day 5/31/06
		0650 - 0710am Ø clds, 0-2mph, 61.7°F
	✓	WESJ
	✓	AMGO
	✓	WEKI
	✓	CALT
		LABU LAWU
	✓	RCSP
	✓	AMCR
	✓	CLSW
	✓	HOFI
	✓	woodrat sp.
	✓	BUSH
	✓	NOMO ✓ CA gnd sqrl
	✓	CAGU dom. dog
	✓	BEWR ✓ cottontail
	✓	SOSP ✓ SPTO
	✓	BHGB ✓ KILL
	✓	ANHU ✓ WREN

Current Weather: Temp Wind Sp/Dir From %Clds Pcp

05/31/06 CAGN Survey

0710-0750 68.0°F, 0-2mph, Ø clds

- same species observed as ARTO Day (Pg. 1)
- mud pool @ top of slope in upland cntrs
  toad trks
- played tape 0715
  0730
  0745
  0750 } no response

End Øclds, 0-2mph, 0750 68.0°F

FIELD JOURNAL

Job Name: Cross Valley Connector Job #: 02080053.13
Observer: Barbara Calantas Add'l Persons: Lyndon Quon
Date: 6/6/06 Start Time: 2200 End Time: 2245
Location: Santa Clara River, Santa Clarita, CA
Habitat Description: Disturbed CSS / sandy drainage / Dist. habitat

Purpose of Visit: ARTO survey
Start Weather: Temp 73.6°F Wind Sp/Dir From 1-2 mph %Clds 0 Pcp 0

Describe Surrounding Land Uses and Discuss Wildlife Movement Corridors and Habitat Linkages.

Obs. No.	Time	Notes
		-chorus frogs singing
		-KIDE - Killdeer
		MODO
		-started ARTO survey @ east side of project
		3 western toads in small pond near site
		entrance, along dirt road
		-No tadpoles in ponded areas or in drainage
	✓	- cottontail scat
	✓	- coyote tracks
		1 western toad along drainage slope
		NO ARTO observed during survey

Current Weather: Temp 71.2 Wind Sp/Dir From 1-2 mph %Clds 0 Pcp 0

FIELD JOURNAL

Job Name: CROSS VALLEY CONNECTOR Job #:
Observer: LYNDON QUION Add'l Persons: BARBRA CALANTAS
Date: 6-7-06 Start Time: 0610 End Time: 0710
Location: SANTA CLARA RIVER (NORTH BANK), CITY OF SANTA CLARITA
Habitat Description: DISTURBED CSS

Purpose of Visit: CAGN SURVEY / ARTO SURVEY - Daytime
Start Weather: Temp 66.4°F Wind Sp/Dir From 0 %Clds OVERCAST Pcp 0

Describe Surrounding Land Uses and Discuss Wildlife Movement Corridors and Habitat Linkages.

Obs. No.	Time	Notes
	✓	WEKI
	✓	HOFI
	✓	SOSP
	✓	SPTO
	✓	MODO
	✓	KILL
	✓	NRWS
	✓	CORA
	✓	BEWR
	✓	BUSH
	✓	CATO
	✓	CAQU
	✓	CLSW
	✓	EUST
	✓	CA GROUND SQUIRREL
	✓	ATFL
		STARTED SURVEY ON THE SOUTH SIDE OF THE NORTH RIVER BANK. PLAYED TAPED VOCALIZATION INTO PATCHES OF CSS. CONTINUED TO SURVEY SLOPE IN A CLOCKWISE SPIRAL. NO CAGN OBSERVED OR DETECTED.

Current Weather: Temp 65.7°F Wind Sp/Dir From 0-2 MPH / E %Clds OVERCAST Pcp MIST

FIELD JOURNAL

Job Name CROSS VALLEY CONNECTOR Job #

Observer LYNDON QUOT Add'l Persons OREN MIZRACHI

Date 7-5-06 Start Time 2215 End Time 2315

Location SANTA CLARA RIVER @ CITY OF SANTA CLARITA

Habitat Description DISTURBED SANDY RIVER WASH

Purpose of Visit ARTD SURVEY

Start Weather: Temp 62°F Wind Sp/Dir From 0 %Clds 0 Pcp 0

Describe Surrounding Land Uses and Discuss Wildlife Movement Corridors and Habitat Linkages.

Obs. No.	Time	Notes
		CONDUCTED SURVEY ALONG THE STREAM
		CHANNEL CUTTING ACROSS THE SITE.
		NO ARTD IN THE NARROW EAST-WEST
		STREAM ON THE EAST END OF THE
		SITE.
		CALIFORNIA TOADS WITHIN THE EASTERN
		POND, TOTALLING 5 INDIVIDUALS, WITH
*		2 IN AMPLEXUS.
		KILLDEER MOVING THROUGHOUT THE SITE.
		COYOTES CALLING FROM THE WEST.
		MORE CALIFORNIA TOADS IN THE
		LARGER POND ON THE WEST SIDE
		OF THE SITE, TOTALLING 8 INDIVIDUALS,
		WITH 2 IN AMPLEXUS.
		ONE LONE CALIFORNIA TOAD OBSERVED
		AT SOUTH END OF RUNOFF DRAINAGE
		CHANNEL AT SOUTH END OF THE SITE.
		TOTAL OF 14 CALIFORNIA TOADS,
		WITH BREEDING BEHAVIOR STILL
		BEING EXHIBITED THIS LATE IN
		THE SEASON.
		NO ARTD OBSERVED.

Current Weather: Temp 60°F Wind Sp/Dir From 0 %Clds 0 Pcp 0

FIELD JOURNAL

Job Name CROSS VALLEY CONNECTOR Job # _____

Observer LYNDON QUON Add'l Persons OREN MIZRACHI

Date 7-6-06 Start Time 0615 End Time 0715

Location SANTA CLARA RIVER (NORTH BANK) @ CITY OF SANTA CLARITA

Habitat Description DISTURBED CSS, CONTIGUOUS WITH NATURAL OPEN SPACE.

Purpose of Visit CAGN SURVEY / ARTO SURVEY - Daytime

Start Weather: Temp 74°F Wind Sp/Dir From 0 %Clds 20 Pcp 0

Describe Surrounding Land Uses and Discuss Wildlife Movement Corridors and Habitat Linkages.

Obs. No.	Time	Notes
		START SURVEY @ SOUTHERN END OF
		HABITAT, AND CONTINUED IN A
		CLOCKWISE DIRECTION OVER THE
		HILL / RIVERBANK.
		CATO
		BEWR
		BUSH
		SPTO
		RTHA
		PHAI
		CAQU
		HOFI
		WTKI
		WEKI
		KILL
		SOSP
		WSJA
		NO CAGN OBSERVED. BEWICK'S
		WREN RESPONDING TO TAPED
		VOCALIZATION PLAYBACK.
		CORA
		CALIF. GROUNDSQUIRREL
	0715	END SURVEY.

Current Weather: Temp 76°F Wind Sp/Dir From 0 %Clds 10 Pcp 0

FIGURES

Source: City of Santa Clara; ESRI

NORTH

6 3 0 6 Miles

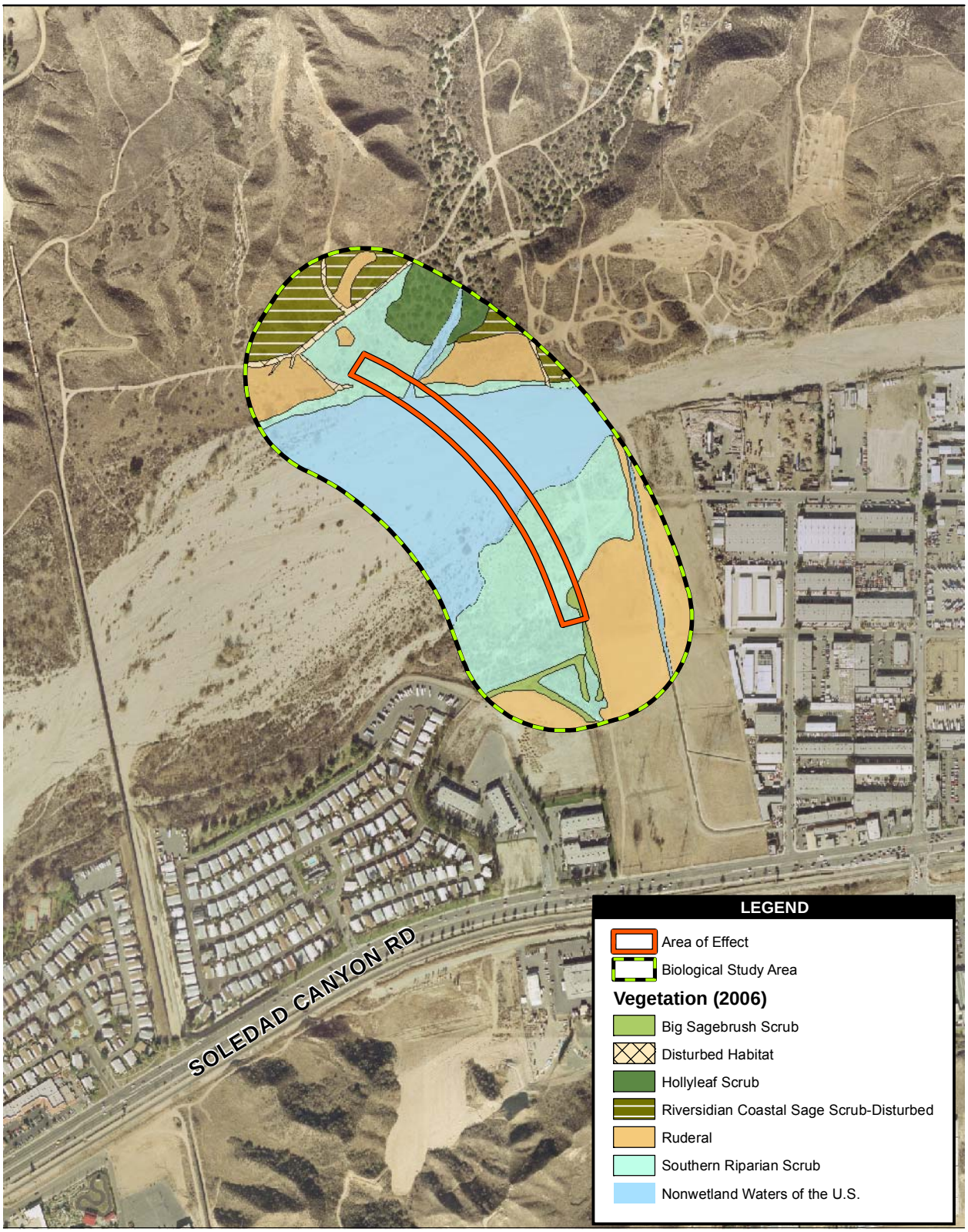
Figure 1
Regional Location Map

Source: City of Santa Clarita

500 250 0 500 Feet

Scale: 1:6,000; 1 inch = 500 feet

Figure 2
Golden Valley Road Bridge Project
Biological Study Area

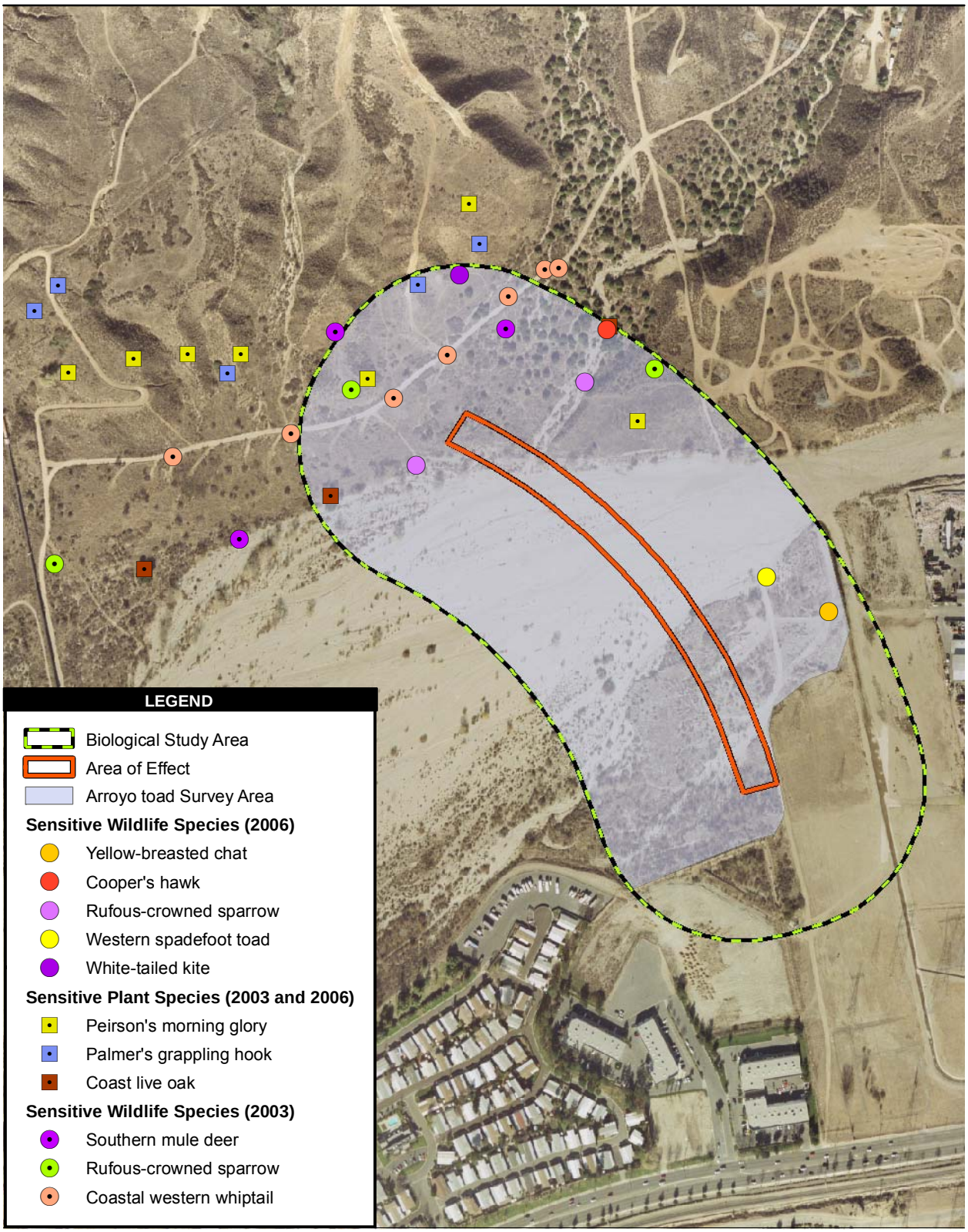


Source: Stewart GeoTechnologies 2004

700 350 0 700 Feet

Scale: 1:8,400; 1 inch = 700 feet

Figure 3
Vegetation Communities



Source: Stewart GeoTechnologies 2004; EDAW 2003, 2006

500 250 0 500 Feet

Scale: 1:6,000; 1 inch = 500 feet

Figure 4
Sensitive Species

EDAW | AECOM

EDAW Inc
1420 Kettner Boulevard, Suite 620, San Diego, California 92101
T 619.233.1454 F 619.233.0952 www.edaw.com

November 7, 2006

Mr. Chris Dellith
Fish and Wildlife Biologist
Ventura Fish and Wildlife Office
2493 Portola Road, Suite B
Ventura, California 93003

RE: 45-day Summary Report of Focused Presence/Absence Surveys for the Coastal California Gnatcatcher (*Polioptila californica californica*) for the Golden Valley Road Bridge, Santa Clarita, Los Angeles County, California

Dear Mr. Dellith:

In compliance with the Special Terms and Conditions for Endangered and Threatened Wildlife Species Permit TE-820658-3, EDAW, Inc. (EDAW) is submitting this letter report summarizing the results of focused surveys for the federally listed threatened coastal California gnatcatcher (CAGN; *Polioptila californica californica*), on behalf of City of Santa Clarita (City) for the Golden Valley Road bridge project. The proposed project is located in Santa Clarita, approximately 35 miles northeast of Los Angeles (Figure 1). EDAW currently holds an Endangered and Threatened Species Permit issued by the U.S. Fish and Wildlife Service (USFWS) under Section 10(a) of the Federal Endangered Species Act. This permit, TE-820658, authorizes EDAW to conduct presence/absence surveys for the coastal California gnatcatcher, among other species. Any potential harassment or take of the CAGN resulting from the responsible application of survey methods following the approved USFWS protocol, such as using taped vocalizations, would be allowable under this permit.

Project Description

The City is proposing to construct the Golden Valley Road bridge, a 1,100-foot long bridge over the Santa Clara River. The proposed typical section of the bridge would include a six-lane roadway with a 14-foot median island and pedestrian and bicycle lanes. The total curb-to-curb width would be approximately 90 feet with a total right-of-way width of approximately 120 feet.

The bridge will connect Soledad Canyon Road and the newly extended Newhall Ranch Road. The northern terminus of the proposed project would therefore be the easternmost extent of Newhall Ranch Road, which is currently under construction to the northwest of the project site. Grading for the majority of Newhall Ranch Road is complete and construction is anticipated to be completed between October 2007 and April 2008. The southern terminus of the proposed project would lie at the northernmost extent of the Golden Valley Road/Soledad Canyon Ranch Interchange, which was recently completed and was opened for public access in late 2005.

The proposed Golden Valley Road Bridge Project would result in impacts to biological resources within a 4.48-acre area of effect (Figure 2). Potential impacts to CAGNs were analyzed as part of a Natural Environmental Study Report within a biological study area, characterized by the limits of the proposed project footprint (area of effect) plus a 500-foot survey buffer on each side of the centerline (Figure 2).

Site Description

The biological study area encompasses a marine terrace on the north side of the Santa Clara River and the river bed where the proposed extension of Newhall Ranch Road will cross the river. The river bed supports a seasonal stream during and immediately after storm events. The study area is surrounded by Riversidian coastal sage

scrub and hollyleaf scrub to the north, waters of the U.S. to the east and west, and ruderal and developed areas to the south. The biological study area is largely nonwetland waters of the U.S. (33%), southern riparian scrub (27%), and ruderal (25%), with smaller areas of Riversidian coastal sage scrub (8%), hollyleaf scrub (4%), big sagebrush scrub (2%), and disturbed habitat (2%) (Figure 3).

Background Information

The CAGN, a subspecies of the California gnatcatcher (*Polioptila californica*), is a federally listed threatened species and is considered a California state species of special concern. The CAGN is a local and uncommon year-round resident of southern California. This species is declining proportionately with the continued loss of coastal sage scrub habitat in the six southern California counties (San Bernardino, Ventura, Los Angeles, Orange, San Diego, and Riverside) located within the coastal plain.

The primary cause of this species' decline is the cumulative loss of coastal sage scrub vegetation to urban and agricultural development. Little of this species habitat is formally protected or managed. Initial studies suggest that the CAGN may be highly sensitive to the effects of habitat fragmentation and development activity (Atwood 1990; ERCE 1990). The USFWS has estimated that coastal sage scrub habitat has been reduced by 70 to 90 percent of its historical extent (USFWS 1991) and little of what remains is protected in natural open space.

CAGN generally inhabit Diegan coastal sage scrub and Riversidian coastal sage scrub dominated by California sagebrush and flat-topped buckwheat generally below 1,500 feet in elevation along the coastal slope. When nesting, this species typically avoids slopes greater than 25 percent with dense, tall vegetation. CAGN pairs will attempt several nests each year, each placed in a different location inside their breeding territory, but most nest attempts are unsuccessful due to depredation by a variety of species. Clutch size ranges from one to five eggs, with three to four eggs most common. CAGN will remain paired through the nonbreeding season and will generally expand their home range when not breeding.

The closest USFWS-designated critical habitat for the CAGN occurs approximately 0.5 mile to the northeast of the site. The closest known occurrence of the species is approximately 2.2 miles to the northeast of the project area in Plum Canyon (USFWS 2000).

Survey Methodology

Prior to 2006 focused CAGN surveys being conducted, the following surveys were completed by qualified EDAW biologists within the biological study area in 2002-2003 as part of the Cross Valley Connector East Project: vegetation mapping, rare plant, wetland delineation, general wildlife, protocol arroyo toad, and protocol CAGN surveys. Additionally, a general wildlife survey was completed during spring 2006 prior to conducting protocol CAGN surveys. All of these survey results mapped vegetation communities and determined areas of suitable CAGN habitat within and adjacent to the project area. Approximately 4.4 acres of habitat were considered suitable for CAGN within the survey area, none of which fell within the project footprint.

Focused, protocol-level CAGN surveys occurred between April 24 and July 7, 2006, within the survey area. To the extent feasible, these surveys followed the current USFWS survey protocol for the species, dated February 28, 1997 (and as amended July 28, 1997). The protocol calls for six surveys to be conducted because the area is not within an approved Natural Communities Conservation Planning (NCCP) program subarea, namely the Coastal Central NCCP area for Orange County. The sixth survey, while conducted after June 30th (the end of the CAGN breeding season), was still in adherence with the USFWS protocol as it was conducted within a calendar week of June 30th (on July 6th).

The survey activity consisted of walking meandering transects through marginal habitat for the species, including all scrub associations, as well as upland and wetland habitats adjacent to areas of scrub. EDAW wildlife biologists Lyndon Quon and Erin Riley conducted the surveys under the current Endangered Species Permit TE-820658-3. Mr. Quon and Ms. Riley conducted passive surveillance (i.e., listening and visually looking for the species) in all habitat with marginal potential to support CAGN. If an observation was not made after approximately 5 to 10 minutes of passive survey activity, a taped vocalization of the CAGN was played for approximately 5 to 10 seconds (i.e., active survey activity), followed by another period of passive observation.

Results

All protocol-level surveys were conducted on foot according to the schedule in Table 1 below. Weather conditions during the surveys were primarily warm, with temperatures ranging from 60 to 80 degrees Fahrenheit (°F) and winds typically ranging from 0 to 2 miles per hour. Details on the date, time, conditions, and surveyors are provided in Table 1, below, and in Appendix A (Field Notes).

Table 1
Coastal California Gnatcatcher Focused Protocol Surveys
Dates, Personnel, Weather Conditions, and Observations

Date	Time	Weather Conditions	Field Biologist	CAGN Observations
4/24/2006	1045-1145	Start: 62°F, wind moderate, 10% cover End: 66°F, wind moderate, 10% cover	Erin Riley[1], Mason Ryan	No CAGN observed
5/4/2006	0925-1015	Start: 59°F, wind moderate, 15% cover End: 71°F, wind calm, 35% cover	Erin Riley[1], Mason Ryan	No CAGN observed
5/17/2006	0610-0700	Start: 62°F, wild calm, 100% cover, fog End: 60°F, wind calm, 100% cover, fog	Erin Riley[1], Barbra Calantas	No CAGN observed
5/30/2006	0710-0750	Start: 68°F, wind calm, 0% cover End: 68°F, wind calm, 0% cover	Erin Riley[1], Mason Ryan,,	No CAGN observed
6/7/2006	0610-0640	Start: 66°F, wind calm, 100% cover End: 66°F, wind calm, 100% cover, mist	Lyndon Quon[1], Barbra Calantas	No CAGN observed
7/6/2006	0615-0645	Start: 69°F, wind calm, 0% cover End: 82°F, wind calm, 0% cover	Lyndon Quon[1], Oren Mizrahi	No CAGN observed

[1] Permitted biologist (TE-820658-3).

A list of all wildlife species observed or detected during 2006 biological surveys conducted by EDAW is included as Appendix B.

No CAGNs were observed during the focused, protocol-level presence/absence surveys within the original survey area. Five state species of special concern, western spadefoot toad (*Spea hammondii*), Cooper's hawk (*Accipiter cooperii*), yellow-breasted chat (*Icteria virens*), southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*), and white-tailed kite (*Elanus leucurus*) were detected within the biological study area during 2006 surveys (Figure 4; Appendix B). The western spadefoot toad and rufous-crowned sparrow were confirmed to be breeding within the biological study area.

Discussion

Although moderately suitable habitat for the CAGN is present within the biological study area, protocol surveys conducted in 2003 and 2006 confirmed the current absence of this species onsite. Based on the habitat characteristics present within the scrub communities of the biological study area, the connection of the project site to larger intact high-quality CAGN occupied habitat to the north, and the historical regional data of known CAGN

occurrences within 2.2 miles, there is a moderate potential for the CAGN to breed onsite. The biological study area is moderately suitable for CAGN but currently unoccupied by the species.

If you have any questions or comments regarding this letter report, please contact me at the address above, or call me at (619) 233-1454.

Sincerely,

Erin Riley
Wildlife Biologist

Attachments: Figure 1 – Regional Location Map
Figure 2 – Biological Study Area
Figure 3 – Vegetation Communities
Figure 4 – Sensitive Species
Appendix A – Field Notes
Appendix B – Wildlife Species Observed during 2006 Focused Coastal California Gnatcatcher Surveys

02080053 Golden Valley 45-Day CAGN Rpt Nov 2006

Bibliography

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ERC Environmental and Energy Services Co. (ERCE)
1990 Phase 1 report Amber Ridge California gnatcatcher study. Prepared for Weingarten, Siegel, Fletcher Group, Inc. April. 30 pp.

U.S. Fish and Wildlife Service (USFWS)
1991 Summary of the proposed rule to list the coastal California gnatcatcher (*Polioptila californica*) as endangered in California and Baja, Mexico. September. 114 pp.

2000 Endangered and Threatened Wildlife and Plants; Proposed Determination of Critical Habitat for the Coastal California Gnatcatcher; Proposed Rule. Federal Register 50 CFR Part 17, Vol. 65, No. 25. February 7.

APPENDIX A

FIELD NOTES

FIELD JOURNAL

Job Name Cross Valley / Golden Valley Rd Bridge Job #

Observer EMR Add'l Persons MR

Date 04-24-06 Start Time 1010pm End Time

Location Santa Clarita River

Habitat Description

disturbed, river wash, upland - sage scrub, tamarisk

Purpose of Visit ARO + CAGN Surveys (#1)

Night

Start Weather: Temp 56.6°F Wind Sp/Dir From 0-2mph %Clds 30 Pcp Ø

Describe Surrounding Land Uses and Discuss Wildlife Movement Corridors and Habitat Linkages.

Obs. No.	Time	Notes
		Night Survey
		Pac. Chorus Frogs
		KILL
		West. Toads - eggs (many)
		↳ breeding adults, not calling
		End 1055 52.2°F, Ø clds, 0-2mph
		Day Survey 04.25-06
		Start 1015 - 1030 10% clds, 0-4mph, Ø pcp.
		gusts to 12mph
		62.3°F
	✓	coyote scat
	✓	ATFL ✓ WAVI
	✓	MODO ✓ LEGO
		CA grnd squirrel ✓ RCSP
	✓	HOPI ✓ cottontail
		~~[illegible]~~ Cabbage white
	✓	YBCH dragonflies
	✓	west. fence lizard ✓ VASW
	✓	AMCR
	✓	CAQU
	✓	RTHA
	✓	LEGO
	✓	HOWR
	✓	west. whiptail
	✓	BUSH
	✓	BAOW
	✓	NAWA
	✓	WTKI
	✓	WESJ
	✓	WTSW
	✓	WETA

Current Weather: Temp Wind Sp/Dir From %Clds Pcp

CAGN Survey Start 1045-1145am 4/25/06

species observed: same as ARTO species on Pg. 1.

tape played: 1050
1100
1105
1120
1135
} no response

CAGN-suitable habitat species: sage sp.
eriogonum
sambucus
lotus
lupine
mustard
chamise
goldfields
scrub oaks
prickly pear
popcorn flower
blue dicks
artem. californica

End 11:45

66°F, 0-4mph, 10% clds

FIELD JOURNAL

Job Name: Cross Valley / Golden Valley Rd Bridge Job #: _____
Observer: EMR Add'l Persons: MR
Date: 05-04-06 Start Time: 1030 End Time: 1100
Location: Santa Clarita River + associated slopes
Habitat Description: disturbed, river wash, upland - sage scrub tamarisk
Purpose of Visit: ARTO + CAGN Surveys (#2)
Start Weather: Temp 57.2°F Wind Sp/Dir From 0-2mph %Clds 70 Pcp Ø
Describe Surrounding Land Uses and Discuss Wildlife Movement Corridors and Habitat Linkages.

Obs. No.	Time	Notes
		Night Survey - ARTO
		- Western Spadefoot heard calling upon approach
		- Pacific chorus frogs calling
		- Western toad tadpoles (many)
	✓	Killdeer
		CA grnd squirrel
		Day Survey - ARTO 05-05-05
		59.1°F, 0-4mph, 15% clds, Ø pcp 0900 - 0920
	✓	HOFI
		~~HOSP~~ EUSP House Sparrow
	✓	CA grnd squirrel
	✓	WETA
	✓	west. toad tadpoles
	✓	BLPH
	✓	ATFL
	✓	WESJ
	✓	CORA
	✓	LEGO
	✓	BUSH
	✓	COHU
	✓	CLSW
		SASP Sage
		LABU Lazuli
	✓	HOWR
	✓	CAQU
		✓ SPTO
		✓ NOMO
		✓ WCSP
		✓ SOSP
		✓ CALT
		✓ BEWR
		✓ Coyote Scat
		✓ COHA
		✓ RCSP
		✓ MODO
		✓ WREN
		✓ WEKI
		✓ cottontail
		cabbage white

(Night End cond's) Current Weather: Temp 56.4°F Wind Sp/Dir From 0-2mph %Clds 80 Pcp Ø

CAGN Survey 05-05-06
WMR

Cross Valley

0925 - 1015 End: 71.0°F, 0-2mph, 352 clds

Species obsrved: same as pg. 1 Day Survey

0925 played tape twice, no response

0935 " " " "

0950 " " " "

FIELD JOURNAL

Job Name Cross Valley / Golden Valley Rd Bridge Job #

Observer EMR Add'l Persons BC

Date 051706 Start Time End Time

Location Santa Clarita River Valley

Habitat Description

Purpose of Visit ARTO/CAGN (#3)

Start Weather: Temp Wind Sp/Dir From %Clds Pcp

Describe Surrounding Land Uses and Discuss Wildlife Movement Corridors and Habitat Linkages.

Obs. No.	Time	Notes
		Night - ARTO 0950pm, 70%clds, 73.1°F, 0-3mph
		crickets
		west toad observed (non-breeding male?) smaller adult, not calling
		- 2nd west toad observed
		Pac chorus frogs calling, very active
X	MANY	→ tadpoles of ~~Pac chorus frogs~~ West. spadefoot
		small snails
		Some west. toad tadpoles observed
		KILL
		bloodworms
		End 10:40pm 0-3mph, 60%clds, 74.1°F
		Day - ARTO 05-18-06 61.9°F, 100%clds/fo ∅ prcp, 0-2mph 0540.
	✓	HOFI
	✓	NOMO ✓ RCSP, ♂ calling, ♀ observed
	✓	ATFL ✓ LEGO
	✓	MODO ✓ ANHU
	✓	BUSH ✓ CAQU
	✓	cottontail ✓ RSHA
	✓	KILL ✓ SPTO
	✓	CALT ✓ BLPH
	✓	AMCR ✓ RODO
	✓	BEWR ✓ WEKI
	✓	SOSP End 0610am
	✓	CA grnd sqrl

Current Weather: Temp Wind Sp/Dir From %Clds Pcp

CAGN Survey 05/18/06

Start 0610 → End 0700 59.9°F, fog. 100% clds, 0-2m

- same species observed as ARTODay (Pg. 1)
- played tape: 0615, 0630, 0645 } no response.

FIELD JOURNAL

Job Name Cross Valley / Golden Valley Rd Bridge Job # _____
Observer EMR Add'l Persons MR
Date 05 30 06 Start Time _____ End Time _____
Location Santa Clarita River Valley
Habitat Description river wash, tamarisk, upland -

Purpose of Visit ARTO + CAGN (#4)
Start Weather: Temp 66.4°F Wind Sp/Dir From 0-2mph %Clds Ø Pcp Ø
Describe Surrounding Land Uses and Discuss Wildlife Movement Corridors and Habitat Linkages.

Obs. No.	Time	Notes
ARTO-		Night - 10:05pm Ø clds, 0-2mph, 66.4°F
		✓ KILL
		Pac. chorus frogs - calling
		West. toads - 6 adults observed
		- no tadpoles
		Appears site experienced heavy scouring
		since hard rain (~5/21/06)
		clean flow, less trash + debris, no bloodworm,
		no tadpoles, channel patterns changed some
		places
		End 65°F, 0-2mph, Ø clds 10:45pm
		ARTO - Day 5/31/06
		0650 - 0710am Ø clds, 0-2mph, 61.7°F
	✓	WESJ
	✓	AMGO
	✓	WEKI
	✓	CALT
		LABU LAWU
	✓	RCSP
	✓	AMCR
	✓	CLSW
	✓	HOFI
	✓	woodrat sp.
	✓	BUSH
	✓	NOMO ✓ CAgund sq.
	✓	CAGU dom. dog
	✓	BEWR ✓ cottontail
	✓	SOSP ✓ SPTO
	✓	BHGB ✓ KILL
	✓	ANHU ✓ WREN

Current Weather: Temp _____ Wind Sp/Dir From _____ %Clds _____ Pcp _____

05/31/06 CAGN Survey

0710-0750 68.0°F, 0-2mph, Ø clds

- same species observed as ARTO Day (Pg. 1)
- mud pool @ top of slope in upland cntrs
  toad trks
- played tape 0715
  0730
  0745
  0750 } no response

End Ø clds, 0-2mph, 0750 68.0°F

FIELD JOURNAL

Job Name CROSS VALLEY CONNECTOR Job #

Observer LYNDON QUIGLEY Add'l Persons BARBARA CALAMITAS

Date 6-7-06 Start Time 0610 End Time 0710

Location SANTA CLARA RIVER (NORTH BANK), CITY OF SANTA CLARITA

Habitat Description DISTURBED CSS

Purpose of Visit CAGN SURVEY / ARTO SURVEY - Daytime

Start Weather: Temp 66.4°F Wind Sp/Dir From 0 %Clds OVERCAST Pcp 0

Describe Surrounding Land Uses and Discuss Wildlife Movement Corridors and Habitat Linkages.

Obs. No.	Time	Notes
		WEKI
		HOFI
		SOSP
		SPTO
		MOCD
		KILL
		NRWS
		CORA
		BEWR
		BUSH
		CATO
		CAQU
		CUSW
		EUST
		CA GROUND SQUIRREL
		ATFL
		STARTED SURVEY ON THE SOUTH SIDE OF THE
		NORTH RIVER BANK. PLAYED TAPED VOCALIZATION
		INTO PATCHES OF CSS. CONTINUED TO
		SURVEY SLOPE IN A CLOCKWISE SPIRAL. NO
		CAGN OBSERVED OR DETECTED.

Current Weather: Temp 65.7°F Wind Sp/Dir From 0 mph/0 %Clds OVERCAST Pcp NOT

FIELD JOURNAL

Job Name CROSS VALLEY CONNECTOR Job #

Observer LYNDON QUON Add'l Persons OREN MIZRACHI

Date 7-6-06 Start Time 0615 End Time 0715

Location SANTA CLARA RIVER (NORTH BANK) @ CITY OF SANTA CLARITA

Habitat Description DISTURBED CSS, CONTIGUOUS WITH NATURAL OPEN SPACE.

Purpose of Visit CAGN SURVEY / ARTO SURVEY - Daytime

Start Weather: Temp 74°F Wind Sp/Dir From 0 %Clds 20 Pcp 0

Describe Surrounding Land Uses and Discuss Wildlife Movement Corridors and Habitat Linkages.

Obs. No.	Time	Notes
		START SURVEY @ SOUTHERN END OF
		HABITAT, AND CONTINUED IN A
		CLOCKWISE DIRECTION OVER THE
		HILL / RIVERBANK.
		CATO
		BEWR
		BUSH
		SPTO
		RTHA
		PHAI
		CAQU
		HOFI
		WTKI
		WEKI
		KILL
		SOSP
		WSJA
		NO CAGN OBSERVED. BEWICK'S
		WREN RESPONDING TO TAPED
		VOCALIZATION PLAYBACK.
		CORA
		CALIF. GROUNDSQUIRREL
	0715	END SURVEY.

Current Weather: Temp 76°F Wind Sp/Dir From 0 %Clds 10 Pcp 0

APPENDIX B

WILDLIFE SPECIES OBSERVED DURING 2006 FOCUSED COASTAL CALIFORNIA GNATCATCHER SURVEYS

APPENDIX B

Wildlife Species Observed during 2006 Focused Coastal California Gnatcatcher Surveys for the Golden Valley Road Bridge Project

Scientific Names	Common Names
Amphibians	
Order Anura	**Frogs and Toads**
Family Pelobatidae	
Spea hammondii	western spadefoot[1]
Family Bufonidae	
Anaxyrus (Bufo) borea	western toad
Family Hylidae	
Pseudacris regilla	Pacific chorus frog
Reptiles	
Order Squamata	**Lizards and Snakes**
Family Phrysonomatidae	
Cnemidophorus tigris	western whiptail
Family Teiidae	
Sceloporus occidentalis	western fence lizard
Birds	
Order Galliformes	**Megapodes, Curassows, Pheasants, Quail, and Relatives**
Family Odontophoridae	
Callipepla californica	California quail
Order Falconiformes	**Diurnal Birds of Prey**
Family Accipitridae	
Elanus leucurus	white-tailed kite[2]
Accipiter cooperii	Cooper's hawk[1]
Buteo lineatus	red-shouldered hawk
Buteo jamaicensis	red-tailed hawk
Order Charadriiformes	**Shorebirds and Allies**
Family Charadriidae	
Charadrius vociferous	killdeer
Order Columbiformes	**Doves and Pigeons**
Family Columbridae	
Columba livia	rock pigeon
Zenaida macroura	mourning dove
Order Strigiformes	**Owls**
Family Strigidae	
Tyto alba	barn owl
Order Apodiformes	**Swifts and Hummingbirds**
Family Apodidae	
Chaetura vauxi	Vaux's swift
Aeronautes saxatalis	white-throated swift
Family Trochilidae	
Calypte anna	Anna's hummingbird
Calypte costae	Costa's hummingbird
Order Passeriformes	**Perching Birds**
Family Tyrannidae	
Sayornis nigricans	black phoebe
Myiarchus cinerascens	ash-throated flycatcher
Tyrannus verticalis	western kingbird
Family Vireonidae	
Vireo gilvus	warbling vireo

Scientific Names	Common Names
Family Corvidae	
Aphelocoma californica	western scrub jay
Corvus brachyrhynchos	American crow
Corvus corax	common raven
Family Hirundinidae	
Stelgidopteryx serripennis	northern rough-winged swallow
Petrochelidon pyrrhonota	cliff swallow
Family Aegithalidae	
Psaltriparus minimus	bushtit
Family Troglodytidae	
Thryomanes bewickii	Bewick's wren
Troglodytes aedon	house wren
Family Timaliidae	
Chamaea fasciata	wrentit
Family Mimidae	
Mimus polyglottos	northern mockingbird
Family Sturnidae	
Sturnus vulgaris	European starling
Family Parulidae	
Vermivora ruficapill	Nashville warbler
Icteria virens	yellow-breasted chat[1]
Family Thraupidae	
Piranga ludoviciana	western tanager
Family Emberzidae	
Pipilo maculates	spotted towhee
Pipilo crissalis	California towhee
Aimophila ruficeps	southern California rufous-crowned sparrow[1]
Amphispiza belli	sage sparrow
Melospiza melodia	song sparrow
Zonotrichia leucophrys	white-crowned sparrow
Family Cardinalidae	
Carduelis psaltria	black-headed grosbeak
Passerina amoena	lazuli bunting
Family Fringillidae	
Carpodacus mexicanus	house finch
Carduelis psaltria	lesser goldfinch
Carduelis tristis	American goldfinch
Mammals	
Order Carnivora	**Flesh-eaters**
Family Canidae	
Canis latrans	coyote
Order Rodentia	**Gnawing Mammals**
Family Sciuridae	
Citellis beecheyi	California ground squirrel
Family Cricetidae	Mice, Rats, Lemmings, and Voles
Neotoma sp.	unidentified woodrat
Order Lagomorpha	**Rabbits, Hares, and Pikas**
Family Leporidae	
Sylvilagus audubonii	desert cottontail
Sylvilagus bachmani	brush rabbit

1 **California Department of Fish and Game state species of special concern.**

2 **California Department of Fish and Game fully protected species.**

FIGURES

Source: City of Santa Clara; ESRI

NORTH

6 3 0 6 Miles

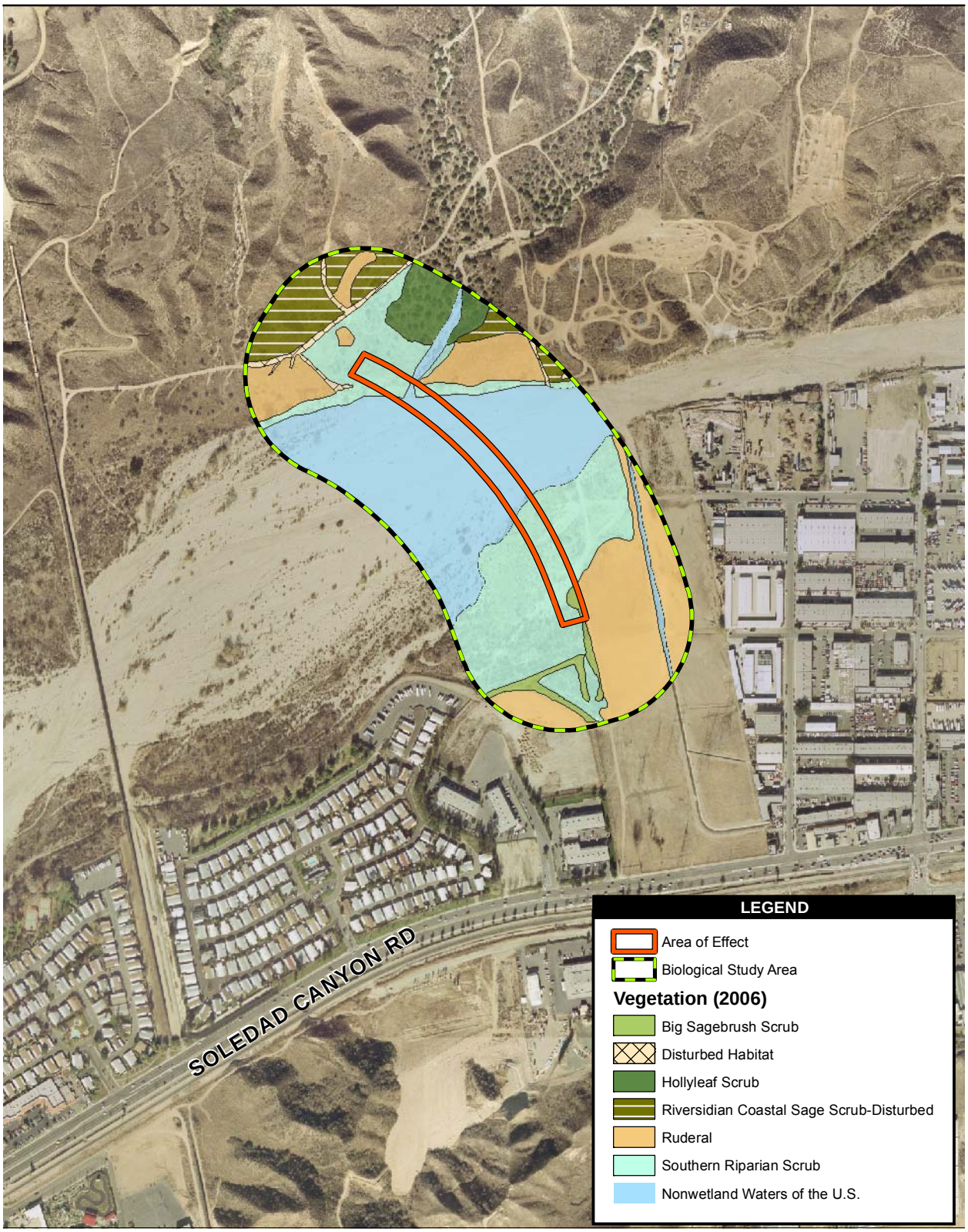
Figure 1
Regional Location Map

Source: City of Santa Clarita

500 250 0 500 Feet

Scale: 1:6,000; 1 inch = 500 feet

Figure 2
Golden Valley Road Bridge Project
Biological Study Area

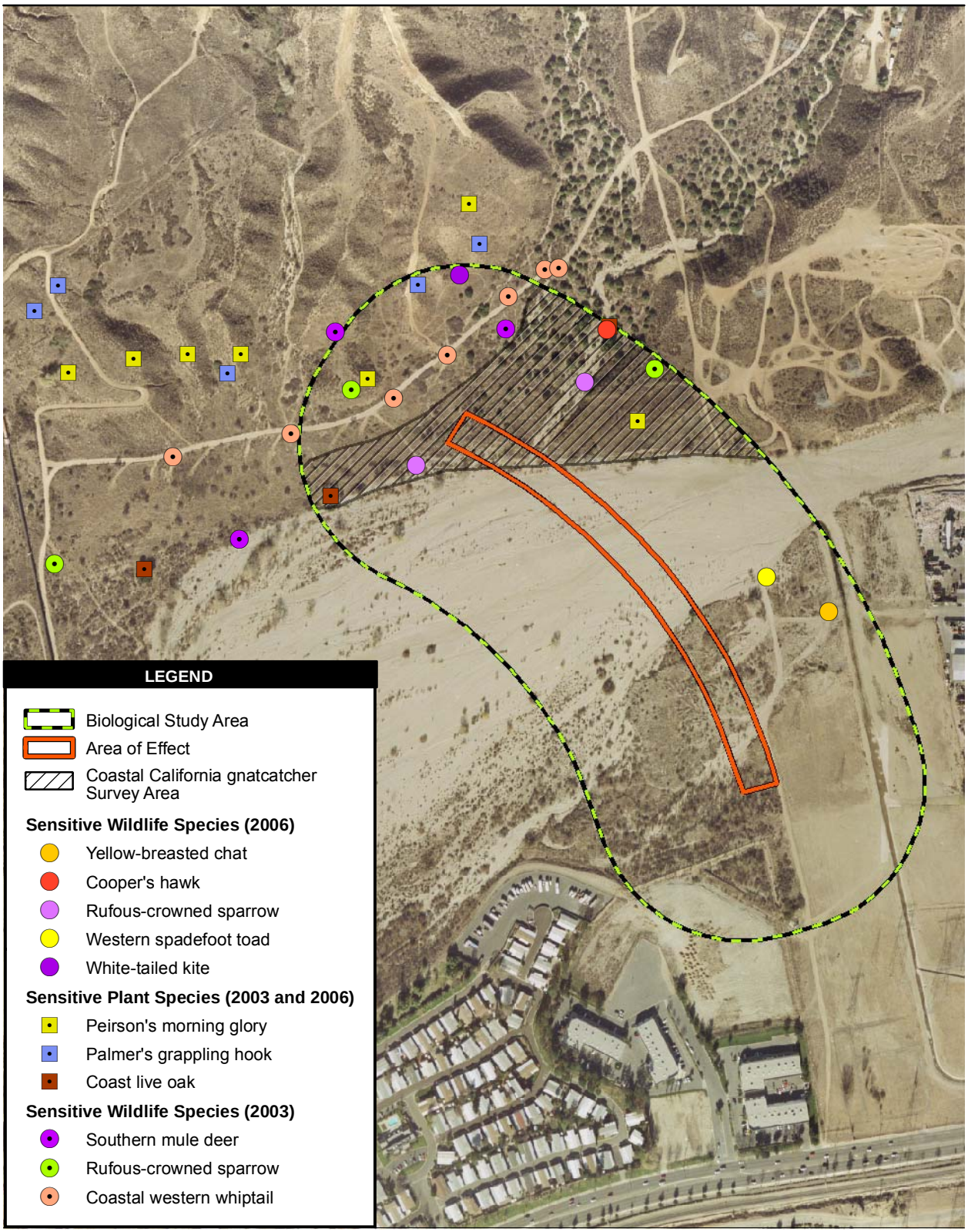


Source: Stewart GeoTechnologies 2004

700 350 0 700 Feet

Scale: 1:8,400; 1 inch = 700 feet

Figure 3
Vegetation Communities



Source: Stewart GeoTechnologies 2004; EDAW 2003, 2006

500 250 0 500 Feet

Scale: 1:6,000; 1 inch = 500 feet

Figure 4
Sensitive Species

EDAW | AECOM

EDAW Inc
1420 Kettner Boulevard, Suite 620, San Diego, California 92101
T 619.233.1454 F 619.233.0952 www.edaw.com

August 10, 2006

Chris Dellith
Fish and Wildlife Biologist
Ventura Fish and Wildlife Office
2493 Portola Road, Suite B
Ventura, California 93003

Subject: Golden Valley Road Bridge Project

Dear Mr. Dellith:

EDAW, Inc. (EDAW) is submitting this letter to request a current list of any endangered, threatened, proposed, or sensitive species, pursuant to the Endangered Species Act of 1973 as amended, that may be affected within the vicinity of the proposed Golden Valley bridge project, (Figures 1 and 2, attached). The proposed project is located within the City of Santa Clarita and occurs over the Santa Clara River. The bridge will connect Soledad Canyon Road and the newly extended Newhall Ranch Road. The northern terminus of the proposed project would therefore be the eastern-most extent of Newhall Ranch Road. The southern terminus of the proposed project would lie at the northern-most extent of the Golden Valley Road/Soledad Canyon Road Interchange, which has recently been completed and opened for public access in December 2005.

The project proposes to build a bridge within those project limits. The proposed project would complete the Cross Valley Connector, a project of the City of Santa Clarita to provide an east-west travel route connecting State Route 14 (SR 14) and Interstate 5 (I-5) across the Santa Clarita Valley. The Cross Valley Connector is designed to increase regional capacity and is part of the larger planned roadway project programmed in the City's General Plan. The Golden Valley Road bridge project would relieve congestion and accommodate the significant population and employment growth being experienced in the Valley. Currently being considered are the "Bridge Alternative" as described above, and a "No Action Alternative".

Should you require additional information or have any questions, please contact me at (619) 233-1454.

Yours sincerely,

Erin Riley

Erin Riley
Wildlife Biologist

Attachments: Figure 1 – Regional Location Map
Figure 2 – Topographical Map of Area of Effect

cc: Bill Graham, EDAW
Hoon Hahn, City of Santa Clarita

02080053 USFWS Request Ltr.doc

Source: City of Santa Clara; ESRI

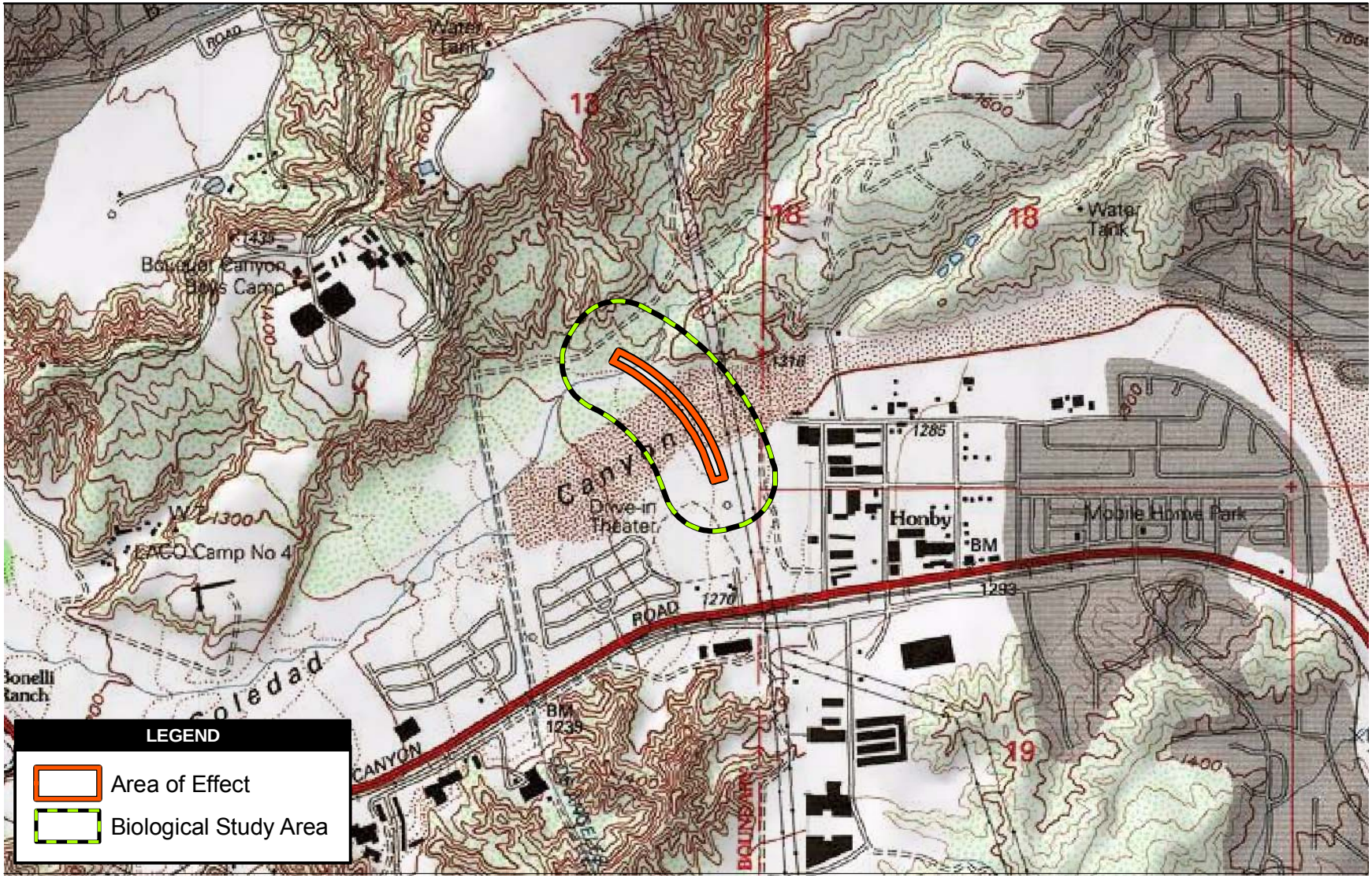
NORTH

6 3 0 6 Miles

Figure 1
Regional Location Map

Golden Valley Bridge Project

Path: P:\2002\2K053 Cross Valley\5GIS\MXD\loc_map.mxd, 08/09/06, AugelloP



Source: City of Santa Clarita, 2002

NORTH

1,500 0 1,500 Feet

Scale: 1:18,000; 1 inch = 1,500 feet

Figure 2
Topographical Map of Area of Effect

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Ventura Fish and Wildlife Office
2493 Portola Road, Suite B
Ventura, California 93003

IN REPLY REFER TO:
PAS 3028.4606.6313

September 29, 2006

Erin Riley
EDAW, Inc.
1420 Kettner Boulevard, Suite 620
San Diego, California 92101

Subject: Species List for the Proposed Golden Valley Bridge Project, City of Santa Clarita, Los Angeles County

Dear Ms Riley:

We are responding to your request, dated August 10, 2006, and received in our office on August 17, 2006, for information on endangered, threatened, proposed, and candidate species that may be present in the vicinity of the proposed Golden Valley Bridge project. The bridge would connect Soledad Canyon Road with the newly extended Newhall Road and span the Santa Clara River in the City of Santa Clarita.

The U.S. Fish and Wildlife Service's (Service) responsibilities include administering the Endangered Species Act of 1973, as amended (Act), including sections 7, 9, and 10. Section 9 of the Act prohibits the taking of any federally listed endangered or threatened species. Section 3(18) of the Act defines take to mean to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. Service regulations (50 CFR 17.3) define harm to include significant habitat modification or degradation which actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering. Harassment is defined by the Service as an intentional or negligent action that creates the likelihood of injury to wildlife by annoying it to such an extent as to significantly disrupt normal behavior patterns which include, but are not limited to, breeding, feeding, or sheltering. The Act provides for civil and criminal penalties for the unlawful taking of listed species.

Exemptions to the prohibitions against take may be obtained through coordination with the Service through interagency consultation for projects with Federal involvement pursuant to section 7 or through the issuance of an incidental take permit under section 10(a)(1)(B) of the Act. If the subject project is to be funded, authorized, or carried out by a Federal agency and may affect a listed species, the Federal agency must consult with the Service, pursuant to section 7(a)(2) of the Act. If a proposed project does not involve

TAKE PRIDE IN AMERICA

a Federal agency but may result in the take of a listed animal species, the project proponent should apply for an incidental take permit, pursuant to section 10(a)(1)(B) of the Act. Once you have determined if the proposed project will have a lead Federal agency, we can provide you with more detailed information regarding the section 7 or 10(a)(1)(B) permitting process.

The federally endangered arroyo toad (*Bufo californicus*), unarmored threespine stickleback (*Gasterosteus aculeatus williamsoni*), least Bell's vireo (*Vireo bellii pusillus*) and the threatened coastal California gnatcatcher (*Polioptila californica californica*) are the listed species that may occur within the area of the proposed project. Designated critical habitat for the coastal California gnatcatcher exists within the proposed project area.

Only listed species receive protection under the Act. However, sensitive species should be considered in the planning process in the event they become listed or proposed for listing prior to project completion. We recommend that you review information in the California Department of Fish and Game's Natural Diversity Data Base. You can contact the California Department of Fish and Game at (916) 324-3812 for information on other sensitive species that may occur in this area.

If you have any questions regarding this letter, please contact Christine Hamilton of my staff at (805) 644-1766, extension 369.

Sincerely,

Carl T. Benz
Assistant Field Supervisor
Southern Santa Barbara/Ventura/Los Angeles

DEPARTMENT OF TRANSPORTATION
OFFICE OF THE DIRECTOR
1120 N STREET
P. O. BOX 942873
SACRAMENTO, CA 94273-0001
PHONE (916) 654-5266
FAX (916) 654-6608
TTY (916) 653-4086

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January 14, 2005

TITLE VI
POLICY STATEMENT

The California Department of Transportation under Title VI of the Civil Rights Act of 1964 and related statutes, ensures that no person in the State of California shall, on the grounds of race, color, national origin, sex, disability, and age, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity it administers.

WILL KEMPTON
Director

FINAL
Traffic Report for the Proposed Golden Valley Road and Newhall Ranch Road Projects in the City of Santa Clarita, California

May 5, 2005

Prepared For:

EDAW, Inc.
1420 Kettner Boulevard, Suite 620
San Diego, California 92101
Telephone: (619) 233-1454
Fax: (619) 233-0952

Prepared by:

Katz, Okitsu & Associates
Traffic Engineers and Transportation Planners
1055 Corporate Center Drive, Suite 300
Monterey Park, California 91754
Telephone: (323) 260-4703
FAX: (323) 260-4705

KOA Job Number JA1384

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1. Background

Area Characteristics and Roadways

The City of Santa Clarita (population 156,000) is located in the center of the Santa Clarita Valley, approximately 35 miles northwest of the City of Los Angeles. Municipal boundaries encompass over 46 square miles of land, situated primarily on the valley floor and lower reaches of the surrounding canyons. Situated within the "V" formed by the two freeways, the City is bounded by the Golden State Freeway (I-5) to the west and the Antelope Valley Freeway (SR-14) to the east.

As part of the City's General Plan, Golden Valley Road, a major arterial highway, is to be constructed from the Antelope Valley Freeway (SR-14) to the future easterly extension of Newhall Ranch Road and terminating at Plum Canyon Road, thereby providing a north-south link through the heart of the City. The future easterly extension of Newhall Ranch Road is to be constructed from Golden Valley Road to Bouquet Canyon Road, thereby providing an east-west link through the City upon completion of Newhall Ranch Road from Interstate 5 to Copper Hill Drive.

The proposed improvements would considerably increase regional capacity. The project would reduce forecast congestion on adjacent streets and accommodate projected traffic growth in the area.

Figure 1 shows the project location.

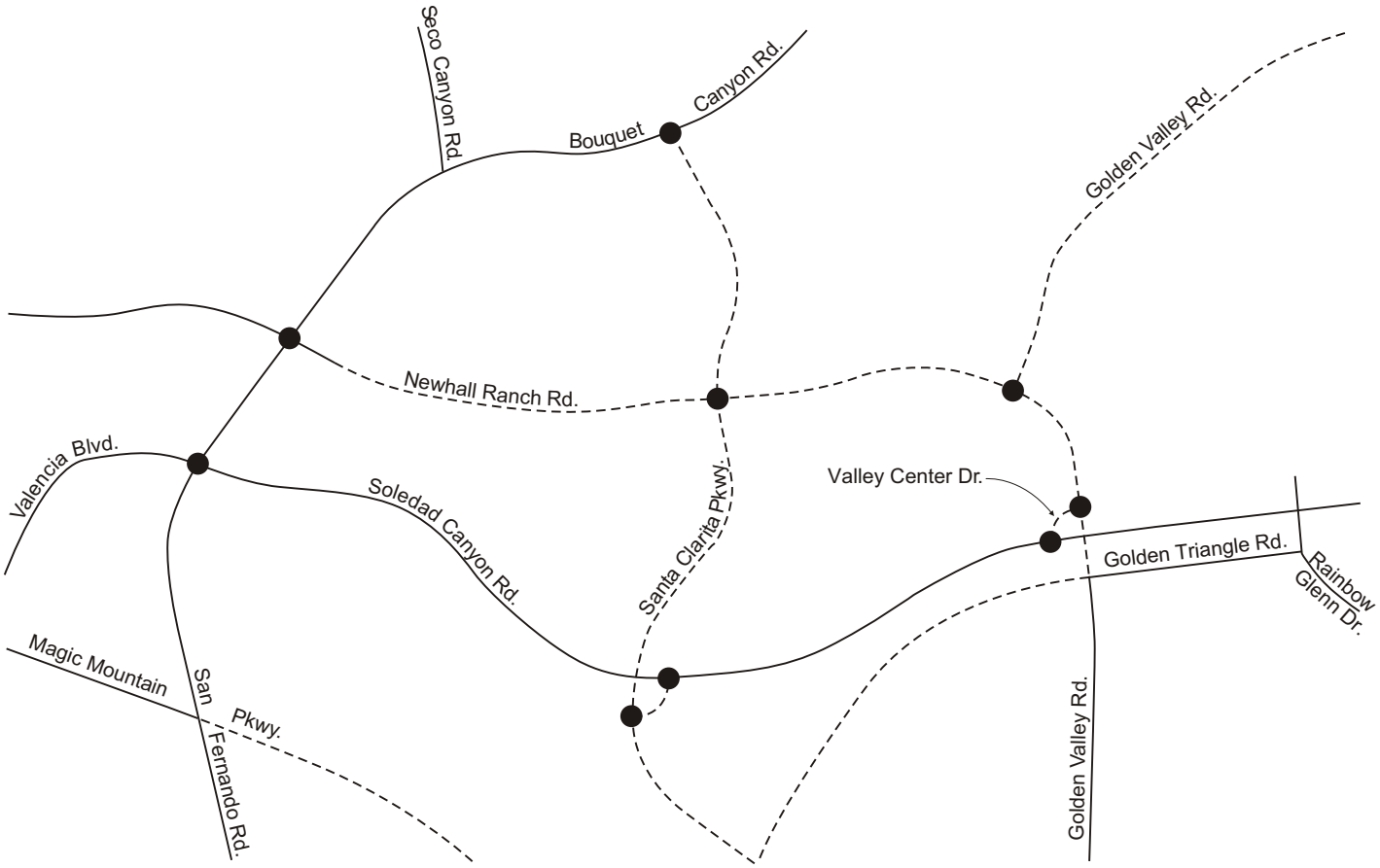
Regional Planning

Development plans for this area indicate that traffic growth will continue into the near future, resulting in an overall increase in intraregional, interregional and commuter traffic. Project alternatives have been developed and are discussed below.

Methodology

The traffic analysis evaluates the existing conditions and the long-range time frames using the Santa Clarita Consolidated Traffic Model (SCVCTM). The SCVCTM was developed jointly by the City of Santa Clarita and the County of Los Angeles and is the primary tool used for forecasting traffic volumes in the Santa Clarita Valley. Katz, Okitsu & Associates obtained the traffic volume forecasts used in this study from the City of Santa Clarita and Austin-Foust Associates, Inc**. The longer-term time-frame would be considered to be between the Year 2025 and 2030 at area build-out.**

This report has been prepared in conformance with guidelines set forth by the City of Santa Clarita. The TRAFFIX software was used to perform the analysis for the surface street network for the above conditions. The intersection analysis was performed utilizing the Intersection Capacity Utilization (ICU) Methodology for signalized intersections. The City of Santa Clarita uses a lane capacity of 1,750 vehicles per hour per lane.



LEGEND

● Study Intersection

- - - - Proposed Roadways

N

Katz, Okitsu & Associates
Traffic Engineers and Transportation Planners

City of Santa Clarita Cross Valley Connector Traffic Study — Figure 1

Location of Proposed Roadways

The analysis of peak hour intersection Level of Service (LOS) is the primary indicator of circulation system performance. Appendix A contains a discussion of the ICU methodology and corresponding level of service definitions. The level of service during the peak hour at intersections ranges from LOS A (optimal conditions, little congestion) to LOS F (stop-and-go traffic, very heavy congestion).

2. Project Alternatives

Three project alternatives and the "no project" alternative are being assessed. The project alternatives are described below:

"Build" Alternatives

Three build alternatives have been evaluated. Build Alternatives 1 and 2 differ in the exact location of the Golden Valley Road/Newhall Ranch Road intersection with the intersection constructed further to the south in Alternative 2. However, the intersection configuration remains the same in both alternatives. Alternatives 1 and 2 differ from Alternative 3 in the configuration of the intersection of Golden Valley Road and Newhall Ranch Road. In Build Alternatives 1 and 2, Golden Valley Road would extend northerly from Soledad Canyon Road, over the Santa Clara River, to the vicinity of the Newhall Ranch Road extension alignment. Golden Valley Road would then curve westerly and become Newhall Ranch Road. The northerly continuation of Golden Valley Road to Plum Canyon Road would extend from a "T" intersection at the transition of Golden Valley Road to Newhall Ranch Road. The proposed roadways and the bridge are to be 120 feet wide to accommodate six traffic lanes, turn lanes at key intersections as well as bicycle lanes.

In Build Alternative 3, Golden Valley Road would extend northerly from Soledad Canyon Road, over the Santa Clara River to an intersection with Plum Canyon Road. The proposed easterly extension of Newhall Ranch Road would intersect Golden Valley Road, creating a "T" intersection.

The "Build" alternatives assume that the Bouquet Junction project is completed (see discussion below) as would an additional eastbound through lane at the Bouquet Canyon Road/Newhall Ranch Road intersection. In addition a fourth through lane would be provided in the eastbound and westbound directions at the Bouquet Canyon Road/Newhall Ranch Road intersection.

"No Project" Alternative

The "No Project" alternative would not construct the proposed project roadways. It was assumed that the Bouquet Junction project, which is currently underway, would be constructed. That improvement will add a fourth southbound through lane at the Bouquet Canyon Road/Newhall Ranch Road intersection and a third eastbound left-turn lane at the Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard intersection. In addition a third eastbound through lane would be completed at the Bouquet Canyon Road/Newhall Ranch Road intersection.

The assumptions regarding improvements to the Bouquet Canyon Road/Newhall Ranch Road and Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road are consistent with assumptions utilized in the traffic impact analysis prepared by Austin-Foust Associates, Inc. for the Riverpark project, dated February 2004.

3. Analysis of Existing Conditions

The traffic analysis performed as part of this report is based on field reviews and traffic volume data and forecasts prepared by the City of Santa Clarita and their consultant Austin-Foust Associates, Inc. That data is provided in Appendix B of this report.

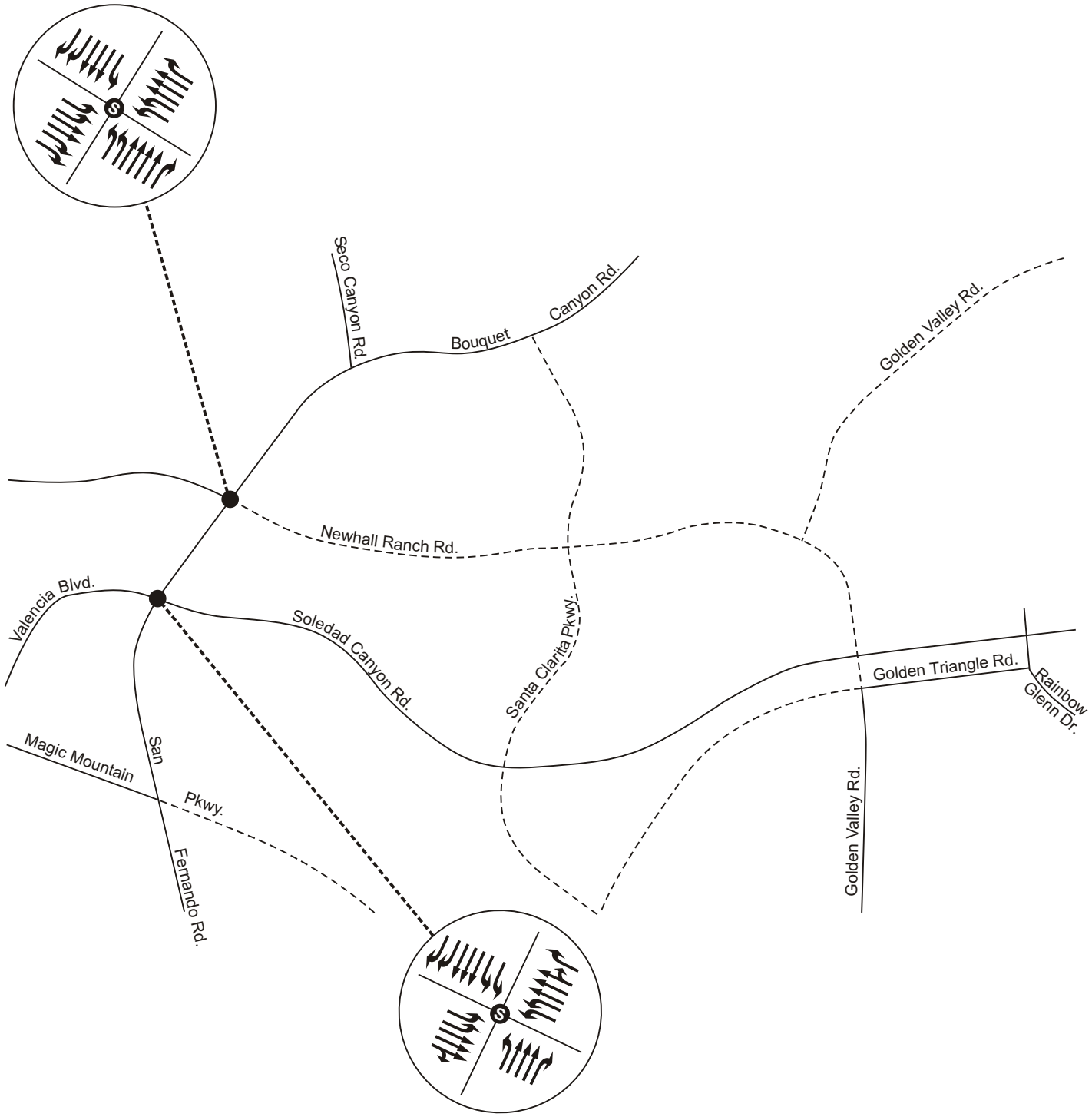
For all alternatives, level-of-service calculations were performed using the Intersection Capacity Utilization (ICU) planning methodology, consistent with the traffic analysis guidelines of the City of Santa Clarita. Calculations were made using the TRAFFIX computer program.

Traffic demand in the project area meets or exceeds roadway capacity on many of the arterial roadways. Significant increases in traffic are anticipated in the future based on proposed area growth. Existing conditions are documented by traffic calculations performed for the Bouquet Canyon Road/Newhall Ranch Road and Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard intersections. These intersections were deemed most likely impacted by the proposed project alternatives. Figure 2 shows the intersection striping and control at each intersection. Figures 3 and 4 provide the existing AM and PM peak hour volumes. Table 1 summarizes the results of level-of-service calculations.

Table 1 – Level-of-Service Calculations – Existing Conditions

Intersection	Weekday AM Peak Hour	Weekday PM Peak Hour
	V/C - LOS	V/C - LOS
Bouquet Canyon Road/Newhall Ranch Road	0.880 D	0.830 D
Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard	0.760 C	1.040 F

The calculations show that the Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard intersection operates at a poor level of service during the PM peak hour. Level-of-service calculations worksheets are provided in Appendix C.



LEGEND

- Study Intersection
- Signalized Intersection
- Intersection Lane Geometry

N

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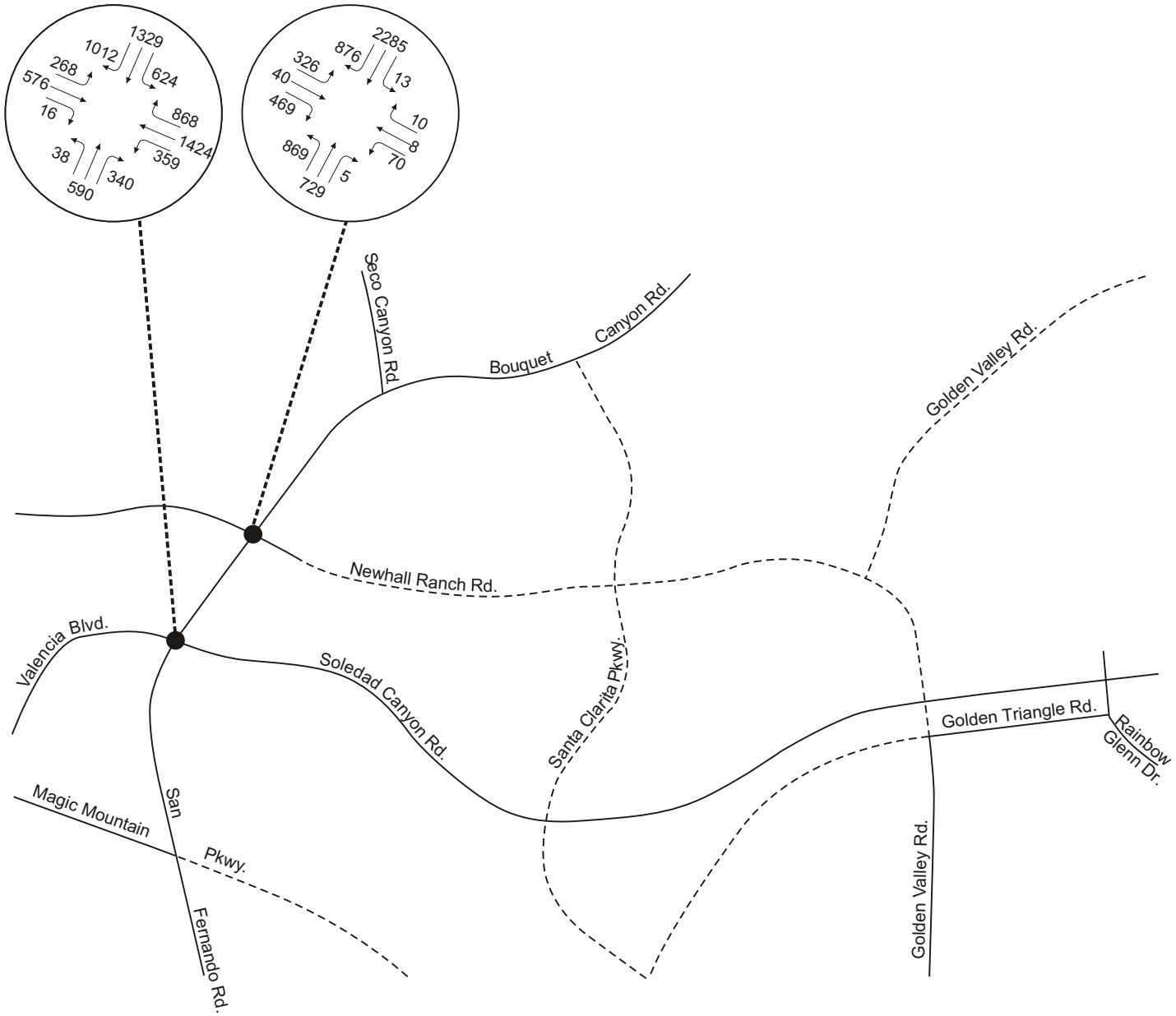
City of Santa Clarita Cross Valley Connector Traffic Study — Figure 2

Lane Configuration and Intersection Control - Existing Conditions



LEGEND

● Study Intersection

XX ↷ Intersection Turn Volume

N

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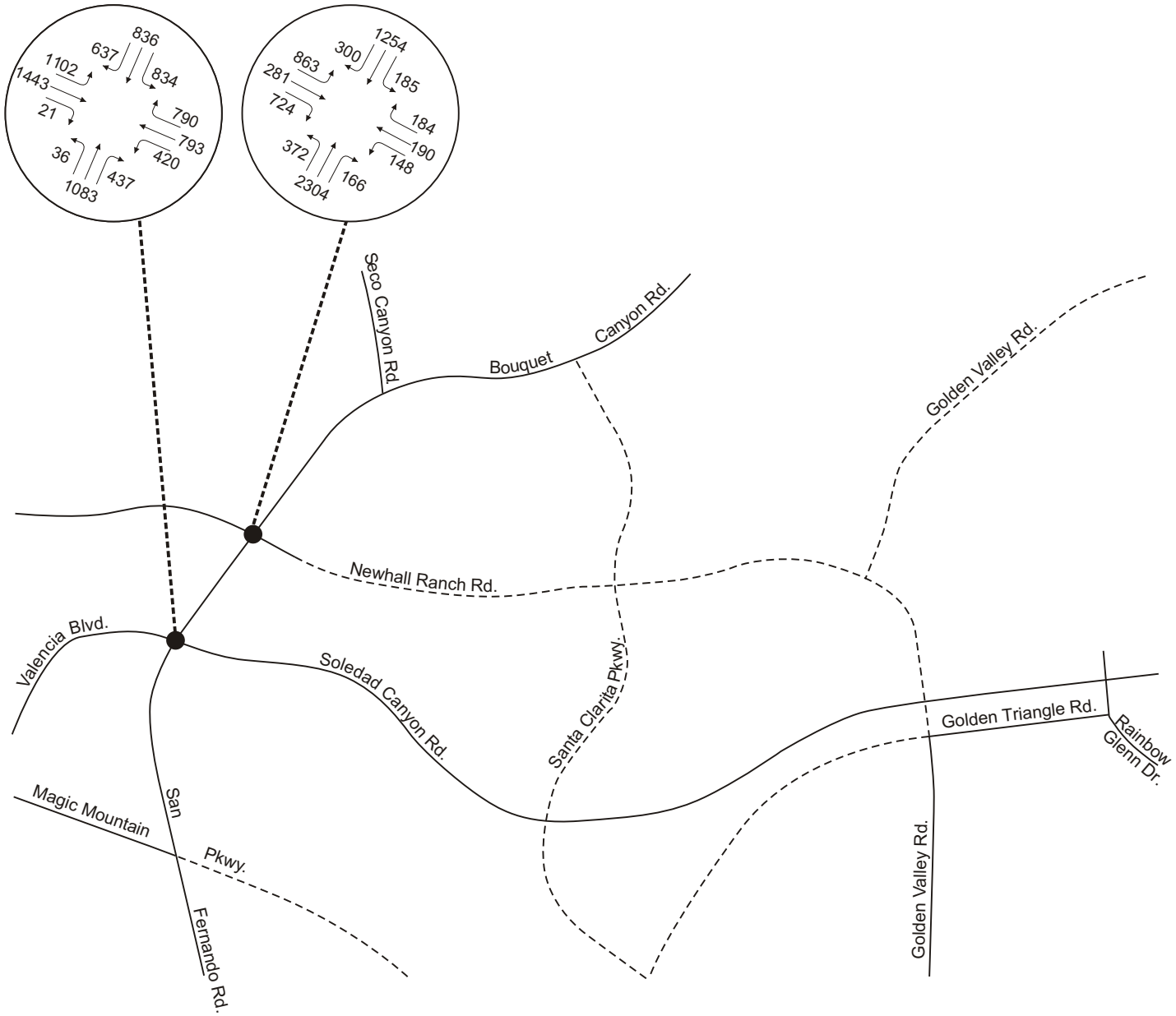
City of Santa Clarita Cross Valley Connector Traffic Study — Figure 3

Existing AM Peak Hour Volumes



LEGEND

● Study Intersection

XX Intersection Turn Volume

N

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City of Santa Clarita Cross Valley Connector Traffic Study — Figure 4

Existing PM Peak Hour Volumes

4. Analysis of Longer Term "No Project" Conditions

Traffic data for future "no project" conditions was provided by the City of Santa Clarita and their consultant Austin-Foust Associates, Inc. is provided in Appendix B. The future conditions assume that the proposed Santa Clarita Parkway project is constructed. Figure 5 shows the roadway geometries and intersection control for future "longer term" "no project" conditions. Figures 6 and 7 show the forecast AM and PM peak hour volumes. Table 2 shows the calculated intersection levels of service.

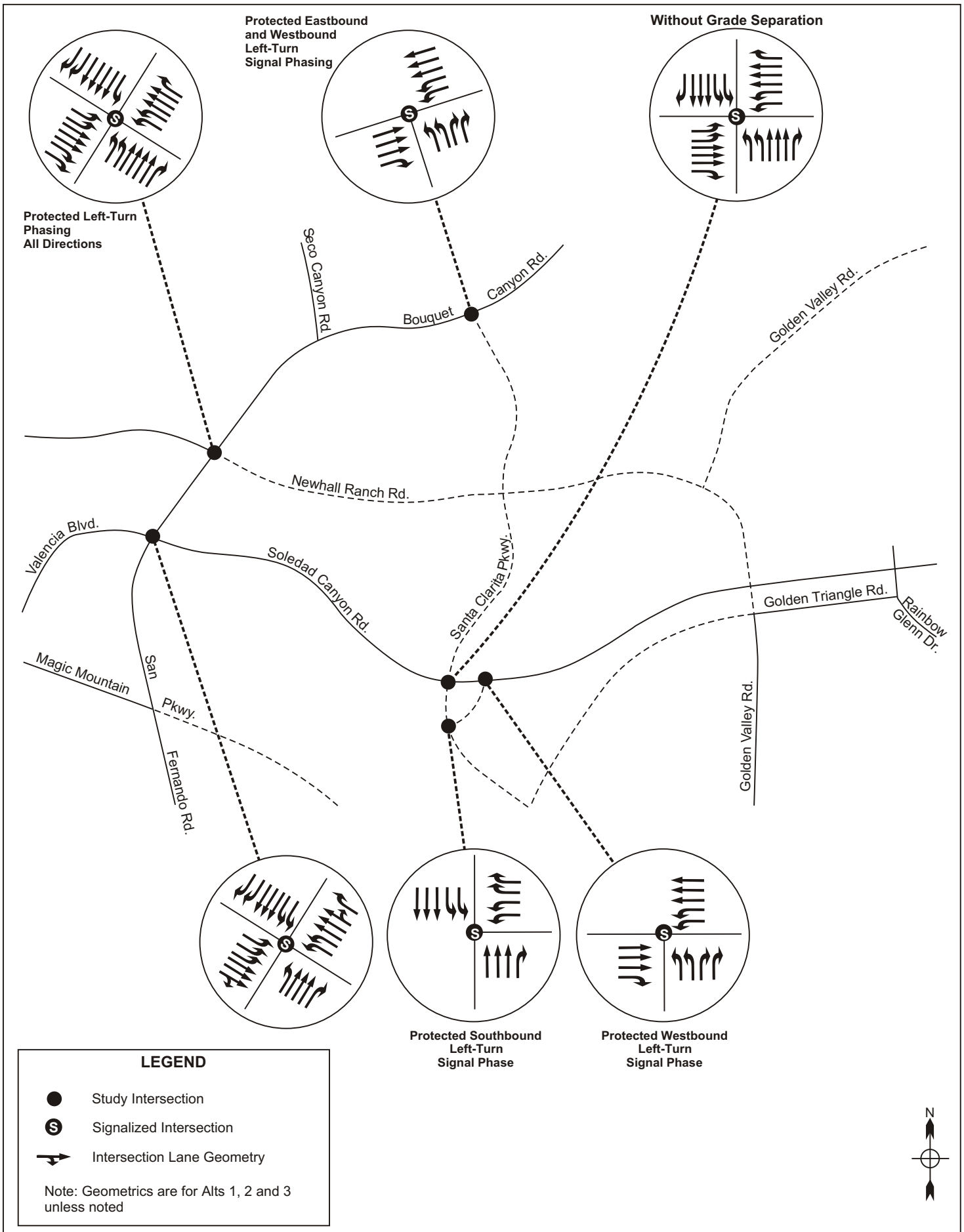
The intersection of Soledad Canyon Road and Santa Clarita Parkway was analyzed as both a grade separated and at-grade intersection since the future configuration is currently undetermined.

Table 2 – Level-of-Service Calculations – Longer Term "No Project" Conditions

Intersection	Weekday AM Peak Hour	Weekday PM Peak Hour
	V/C - LOS	V/C - LOS
Bouquet Canyon Road/Santa Clarita Parkway	0.810 D	**0.960 E**
Bouquet Canyon Road/Newhall Ranch Road	0.880 D	0.810 D
Santa Clarita Parkway/South of Soledad Canyon Road **(GRADE SEPARATED)**	0.610 B	0.730 C
Soledad Canyon Road/East of Santa Clarita Parkway **(GRADE SEPARATED)**	0.640 B	0.860 D
Soledad Canyon Rd/Santa Clarita Pkwy **(AT GRADE)**	0.820 D	0.850 D
Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard	**0.920 E**	**1.070 F**

The calculations also show that the Bouquet Canyon Road/Santa Clarita Parkway and Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road /Valencia Boulevard intersections will operate at poor levels of service during the PM peak hour. The Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard intersection will also operate at a poor level of service during the AM peak hour.

Level-of-service calculations worksheets are provided in Appendix D.



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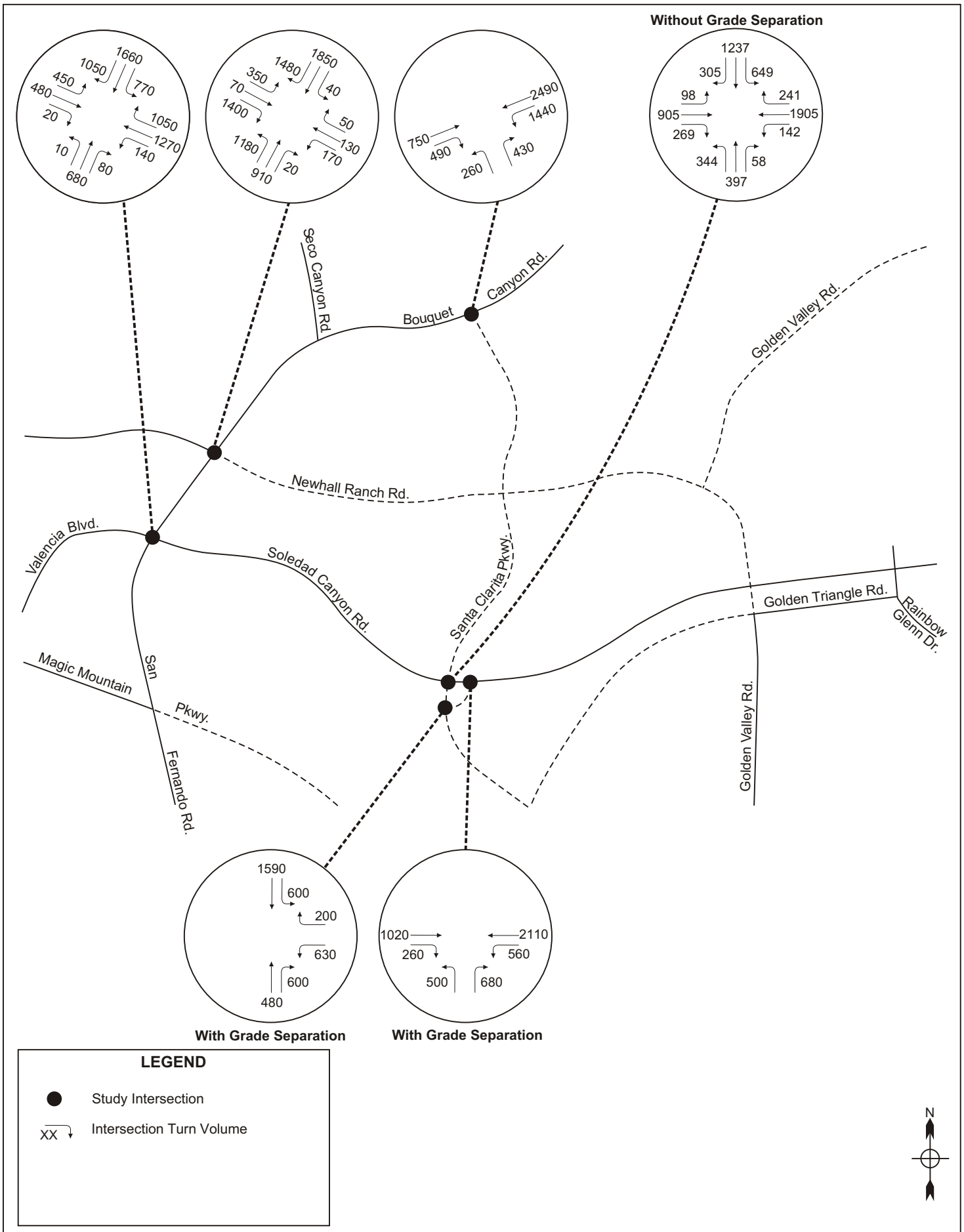
City of Santa Clarita Cross Valley Connector Traffic Study — Figure 5

Lane Configuration and Intersection Control - Longer Term "No Project" Conditions



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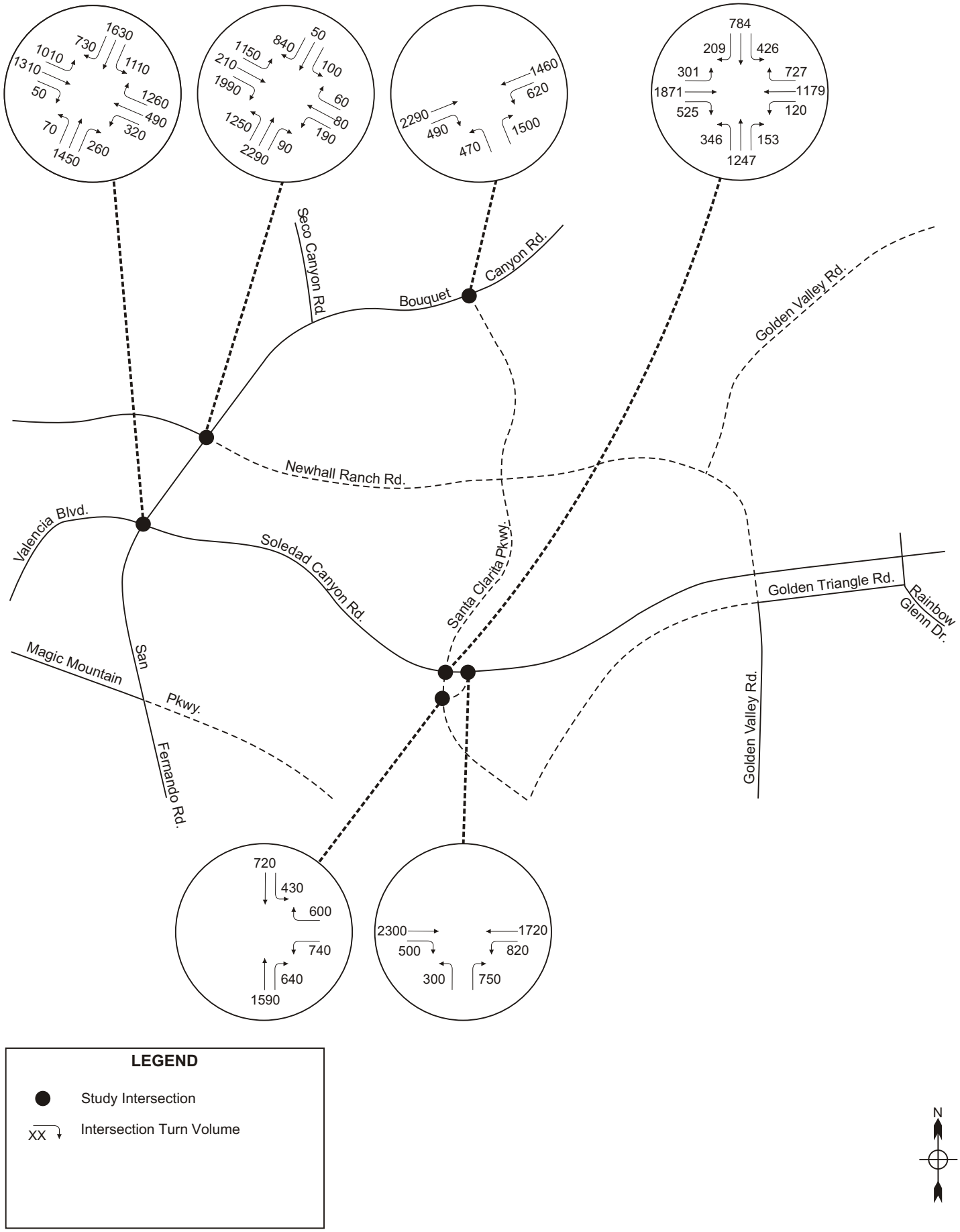
City of Santa Clarita Cross Valley Connector Traffic Study — Figure 6

Long Range AM Peak Hour Volumes with Santa Clarita Parkway - "No Project" Conditions



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City of Santa Clarita Cross Valley Connector Traffic Study — Figure 7

Long Range PM Peak Hour Volumes with Santa Clarita Parkway - "No Project" Conditions

5. Analysis of Longer Term "With Project" Conditions

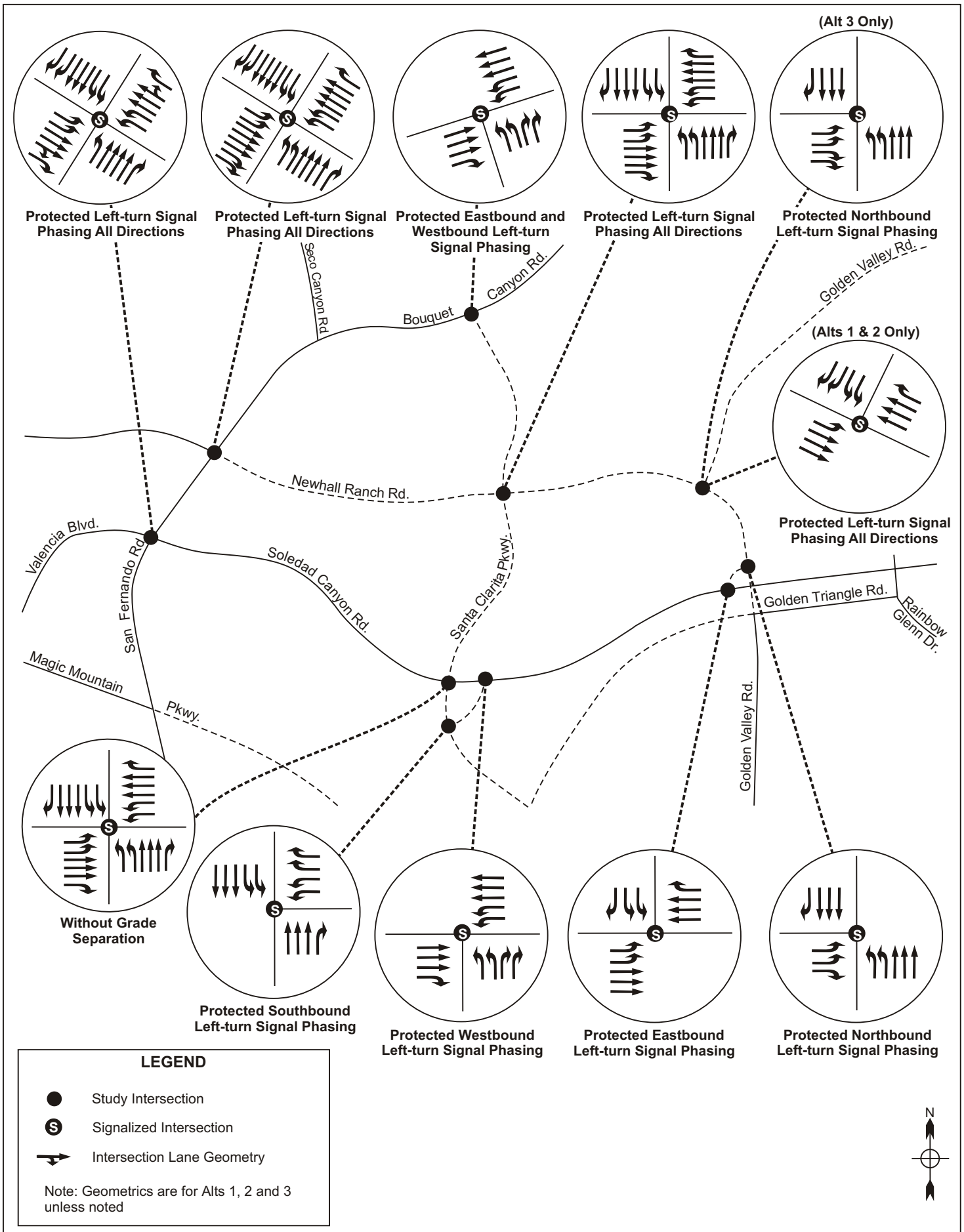
Intersection geometries for the newly proposed intersections were developed during the preparation of the Project Study Report Equivalent for the project and were modified to reflect the proposed grade separation at the Santa Clarita Parkway/Soledad Canyon Road intersection. The proposed lane configurations are summarized in Figure 8.

Again, the analysis of future conditions was based on traffic volumes provided by Austin-Foust Associates, Inc. These volumes were developed with a traffic model that includes the proposed Santa Clarita Parkway extension project. The data provided by the City of Santa Clarita and their consultant Austin-Foust Associates, Inc. is provided in Appendix B. Figure 9 shows the forecast longer term "with project" AM peak hour volumes. Figure 10 shows the forecast longer term "with project" PM peak hour volumes. Table 3 summarizes the analysis of "with project" conditions. Calculations are provided in Appendix E.

Table 3 – Level-of-Service Calculations – Longer Term "With Project" Conditions

Intersection	AM Peak Hour V/C LOS	PM Peak Hour V/C LOS
AM Peak Hour		
Bouquet Canyon Road/Santa Clarita Parkway (Alts. 1, 2, 3)	0.720 C	0.870 D
Bouquet Canyon Road/Newhall Ranch Road (Alts. 1, 2, 3)	0.840 D	0.830 D
Santa Clarita Parkway/Newhall Ranch Road (Alts. 1, 2, 3)	0.750 C	0.800 C
Golden Valley Road/Newhall Ranch Road (Alts. 1 and 2)	0.590 A	**0.940 E**
Golden Valley Road/Newhall Ranch Road (Alt. 3)	**0.960 E**	0.860 D
Santa Clarita Parkway/South of Soledad Canyon Road (Alts. 1, 2, 3) **(GRADE SEPARATED)**	0.510 A	0.630 B
Soledad Canyon Road/East of Santa Clarita Parkway (Alts. 1, 2, 3) **(GRADE SEPARATED)**	0.540 A	0.690 B
Soledad Canyon Rd/Santa Clarita Pkwy (**No Grade Separation**) (1,2,3)	0.820 D	0.740 C
Soledad Canyon Road/Valley Center Drive (Alts. 1, 2, 3)	0.720 C	0.640 B
Golden Valley Road/Valley Center Drive (Alts. 1, 2, 3)	0.640 B	0.580 A
Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard (Alts. 1, 2, 3)	0.790 C	0.900 D

The following is a summary of the advantages and disadvantages associated with each alternative. Based on the City of Santa Clarita's traffic study guidelines, intersections that operate at LOS D or better are considered to operate an acceptable level of service. This guideline was used as a basis for the summary of the conclusions of the analysis.



Katz, Okitsu & Associates
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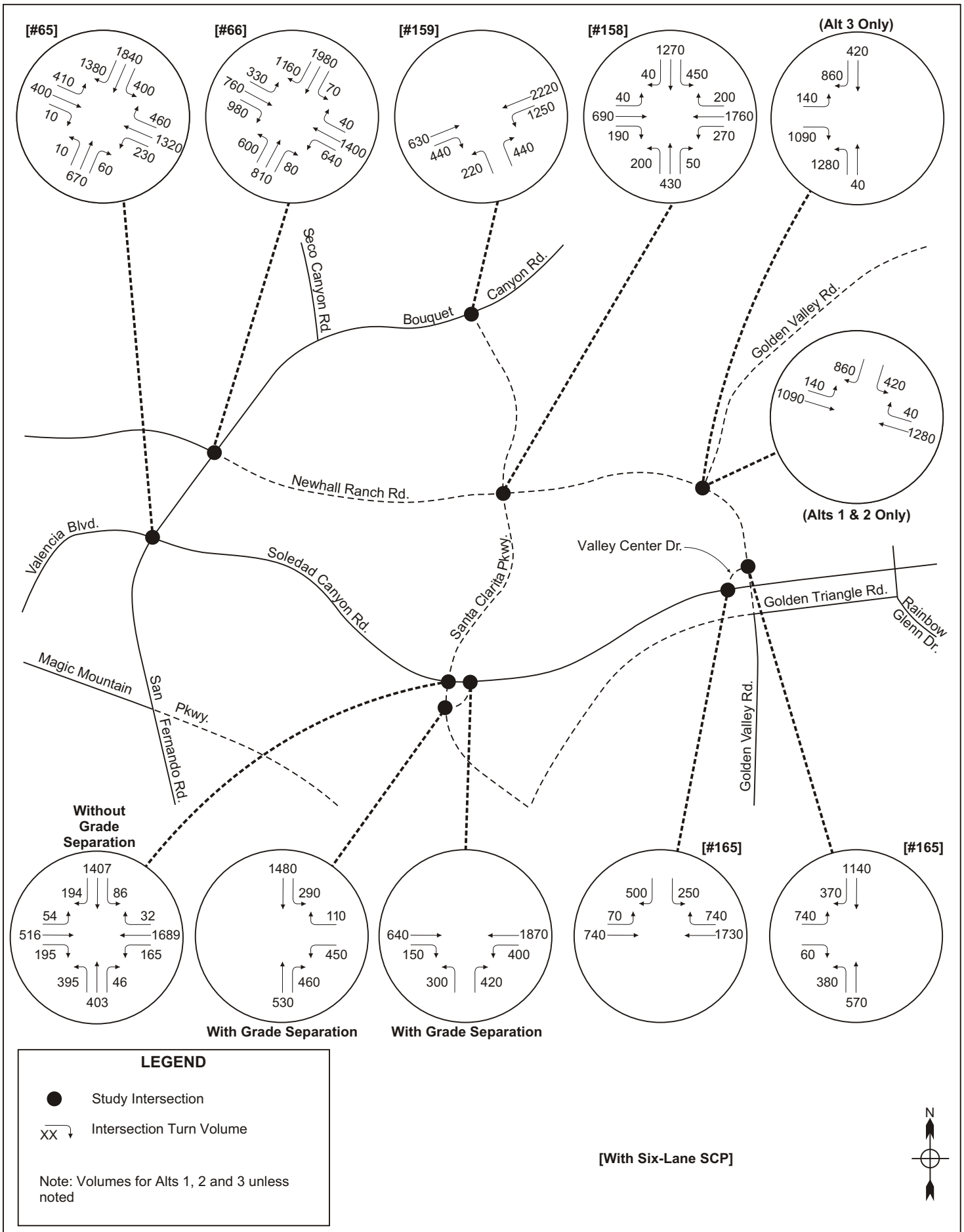
City of Santa Clarita Cross Valley Connector Traffic Study — Figure 8

Lane Configuration and Intersection Control - "With Project" Conditions



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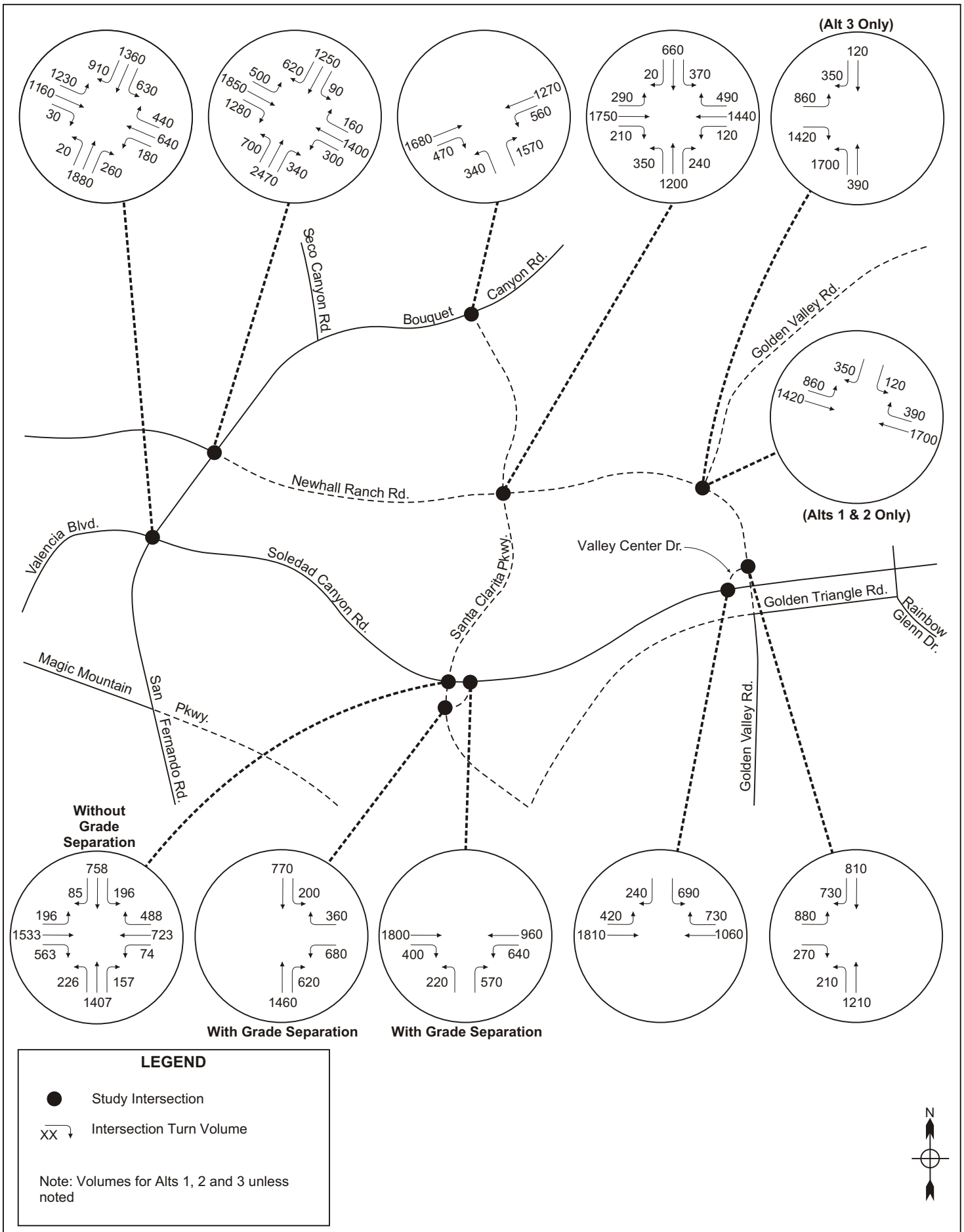
City of Santa Clarita Cross Valley Connector Traffic Study — Figure 9

Long Range AM Peak Hour Volumes with Santa Clarita Parkway - "With Project" Conditions



Katz, Okitsu & Associates
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City of Santa Clarita Cross Valley Connector Traffic Study — Figure 10

Long Range PM Peak Hour Volumes with Santa Clarita Parkway - "With Project" Conditions

"Build" Alternatives 1 and 2

This alternative will provide acceptable levels of service at most of the area intersections during peak periods. The exceptions would be the Golden Valley Road/Newhall Ranch Road intersection during the PM peak hour.

"Build" Alternative 3

Like Alternatives 1 and 2, this alternative will provide acceptable levels of service at most of the area intersections during peak periods. The exceptions would be the Golden Valley Road/Newhall Ranch Road intersection during the AM peak hour.

6. Comparison of Alternatives

Table 4 summarizes the peak hour level-of-service calculations for the exiting and future project conditions.

Table 4 – Level-of-Service Analysis Summary

Intersection	AM Existing V/C LOS	Future AM without Project V/C LOS	Future AM with Project V/C LOS
AM Peak Hour			
Bouquet Canyon Road/Santa Clarita Parkway (Alts. 1, 2, 3)		0.810 D	0.720 C
Bouquet Canyon Road/Newhall Ranch Road (Alts. 1, 2, 3)	0.880 D	0.880 D	0.840 D
Santa Clarita Parkway/Newhall Ranch Road (Alts. 1, 2, 3)			0.750 C
Golden Valley Road/Newhall Ranch Road (Alts. 1 and 2)			0.590 A
Golden Valley Road/Newhall Ranch Road (Alt. 3)			**0.960 E**
Santa Clarita Parkway/South of Soledad Canyon Road (Alts. 1, 2, 3) **(GRADE SEPARATED)**		0.610 B	0.510 A
Soledad Canyon Road/East of Santa Clarita Parkway (Alts. 1, 2, 3) **(GRADE SEPARATED)**		0.640 B	0.540 A
Soledad Canyon Rd/Santa Clarita Pkwy (Alts. 1, 2, 3) **(NO GRADE SEPARATION)**		0.820 D	0.820 D
Soledad Canyon Road/Valley Center Drive (Alts. 1, 2, 3)			0.720 C
Golden Valley Road/Valley Center Drive (Alts. 1, 2, 3)			0.640 B
Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard (Alts. 1, 2, 3)	0.760 C	0.920 E	0.790 C
PM Peak Hour			
Bouquet Canyon Road/Santa Clarita Parkway (Alts. 1, 2, 3)		0.960 E	0.870 D
Bouquet Canyon Road/Newhall Ranch Road (Alts. 1, 2, 3)	0.830 D	0.810 D	0.830 D
Santa Clarita Parkway/Newhall Ranch Road (Alts. 1, 2, 3)			0.800 C
Golden Valley Road/Newhall Ranch Road (Alts. 1 and 2)			**0.940 E**
Golden Valley Road/Newhall Ranch Road (Alt. 3)			0.860 D
Santa Clarita Parkway/South of Soledad Canyon Road (Alts. 1, 2, 3) **(GRADE SEPARATED)**		0.730 C	0.630 B
Soledad Canyon Road/East of Santa Clarita Parkway (Alts. 1, 2, 3) **(GRADE SEPARATED)**		0.860 D	0.690 B
Soledad Canyon Rd/Santa Clarita Pkwy (Alts. 1, 2, 3) **(NO GRADE SEPARATION)**		0.850 D	0.740 C
Soledad Canyon Road/Valley Center Drive (Alts. 1, 2, 3)			0.640 B
Golden Valley Road/Valley Center Drive (Alts. 1, 2, 3)			0.580 A
Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard (Alts. 1, 2, 3)	**1.040 F**	**1.070 F**	0.900 D

Table 4 shows that the proposed project will improve intersection levels of service during the AM and PM peak hours to generally acceptable levels of service.

APPENDIX A
Analysis Methodologies

DEFINITIONS OF LEVEL OF SERVICE FOR SIGNALIZED INTERSECTIONS

LEVEL OF SERVICE DEFINITIONS FOR SIGNALIZED INTERSECTIONS
(Source: County of Los Angeles Traffic Studies Policies and Procedures, November 1993)

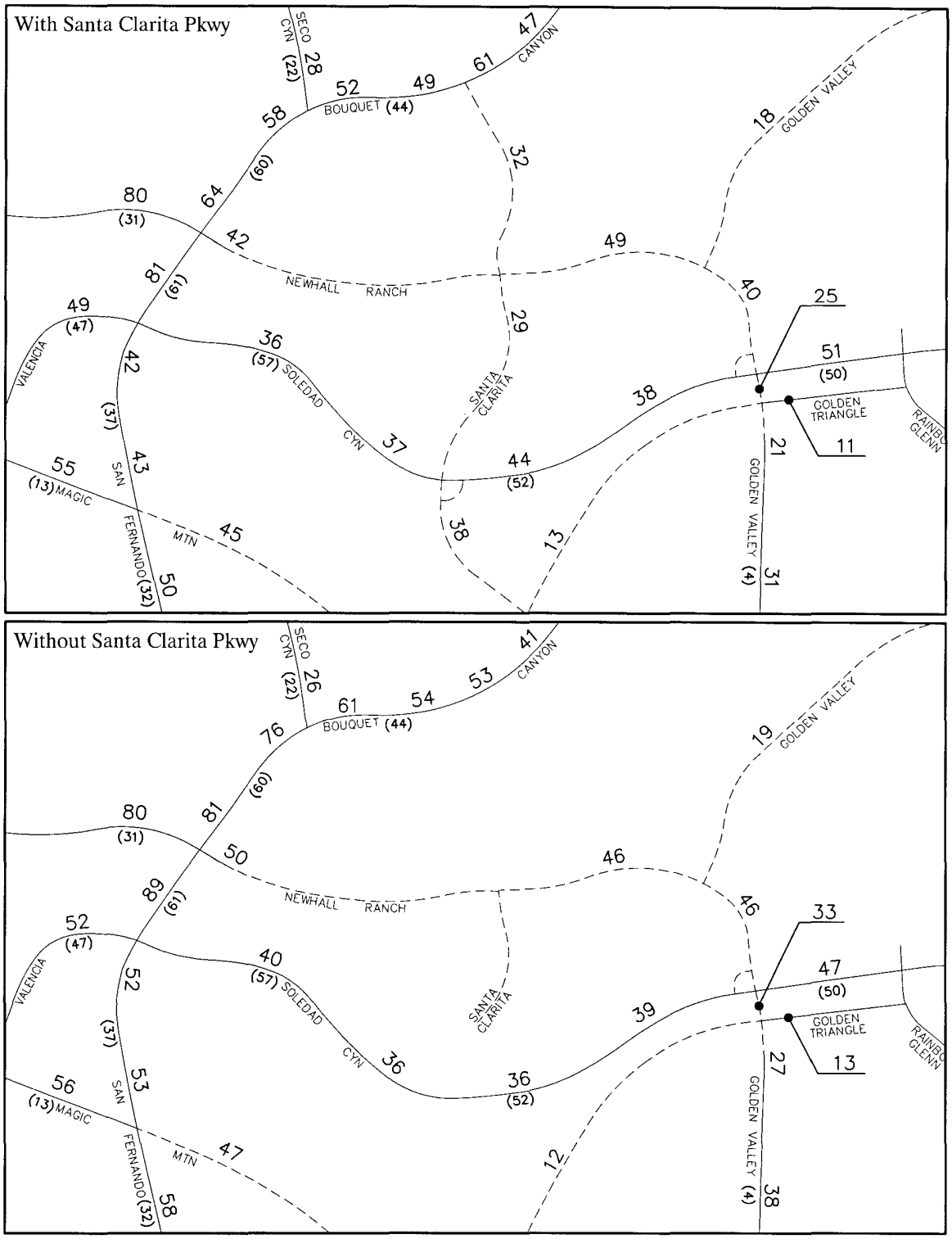
Level of Service	Volume/Capacity Ratio	Definition
A	0.000 - 0.600	EXCELLENT. No vehicle waits longer than one Red light and no approach phase are fully used.
B	0.601 - 0.700	VERY GOOD. An occasional approach phase is fully utilized; many drivers begin to feel somewhat restricted within groups of vehicles.
C	0.701 – 0.800	GOOD. Occasionally, drivers may have to wait through more than one red light; backups may develop behind turning vehicles.
D	0.801 – 0.900	FAIR. Delays may be substantial during portions of the rush hours, but enough lower volume periods occur to permit clearing of developing lines, preventing excessive backups.
E	0.900 – 1.00	POOR. Represents the most vehicles that intersection approaches can accommodate; may be long lines of waiting vehicles through several signal cycles.
F	Greater than 1.000	FAILURE. Backups from nearby intersections or on cross streets may restrict or prevent movement of vehicles out of the intersection approaches. Tremendous delays with continuously increasing queue lengths.

ICU Methodology
For Signalized Intersections

The Intersection Capacity Utilization (ICU) analysis method for evaluating signalized intersections involves the computation of volume-to-capacity (V/C) ratios for each critical movement. Capacity, or saturation flow rate, is defined as the maximum rate of flow that can pass through a given intersection approach under prevailing traffic and roadway conditions. The sum of all critical movement V/C ratios, plus an efficiency lost factor of 0.1 to account for the effect of change intervals, is used to determine the total intersection capacity utilization and corresponding level of service from the following table.

ICU Range	Level of Service (LOS) Characteristics
< or = 0.60	LOS A – This is a condition of "free flow" where most vehicles do not stop at all.
0.61-0.70	LOS B – This is a condition of "steady flow" operations. More vehicles stop than for LOS A.
0.71-0.80	LOS C – This is a condition of "steady flow" operations. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.
0.81-0.90	LOS D – This is a condition where some "unstable flow" occurs. The influence of congestion becomes more noticeable, and individual cycle's failures are noticeable.
0.91-1.00	LOS E – This is a condition of "unstable flow" to be the limit of acceptable delay. Individual cycle failures are frequent occurrences.
>1.00	LOS F – This is a condition of "restricted flow". This condition often occurs when arrival flow rates exceed the capacity of the intersection.

Appendix B
Forecast Traffic Volume Data
(Data provided by Austin-Foust Associates)



Legend

$$\frac{XX}{(YY)} = \frac{\text{Long-Range Forecast}}{\text{Existing Count}}$$

Figure 1

AVERAGE DAILY TRAFFIC VOLUMES (THOUSANDS) - EXISTING COUNTS AND LONG-RANGE

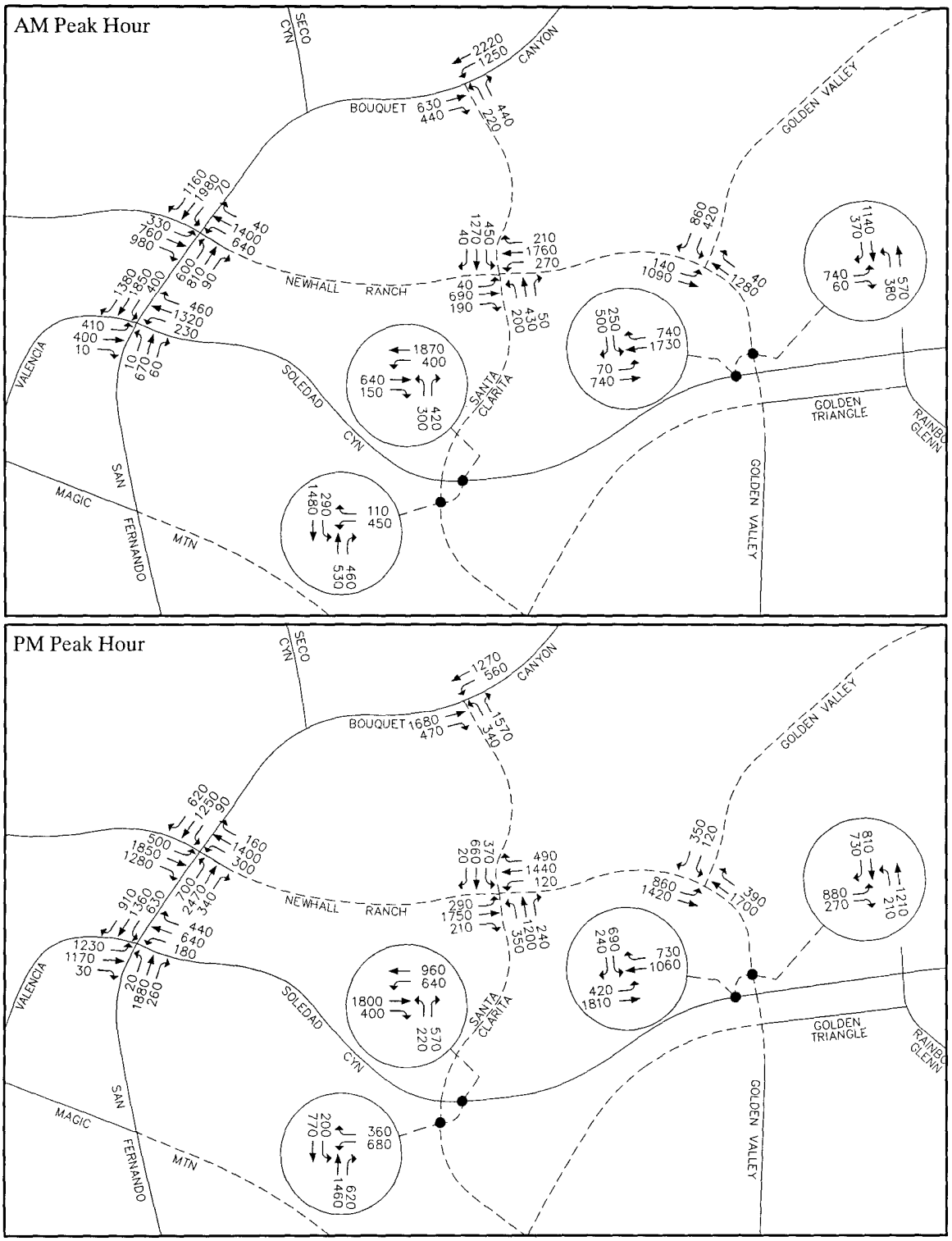


Figure 2

PEAK HOUR TURNING MOVEMENT VOLUMES
- LONG-RANGE WITH SANTA CLARITA PARKWAY

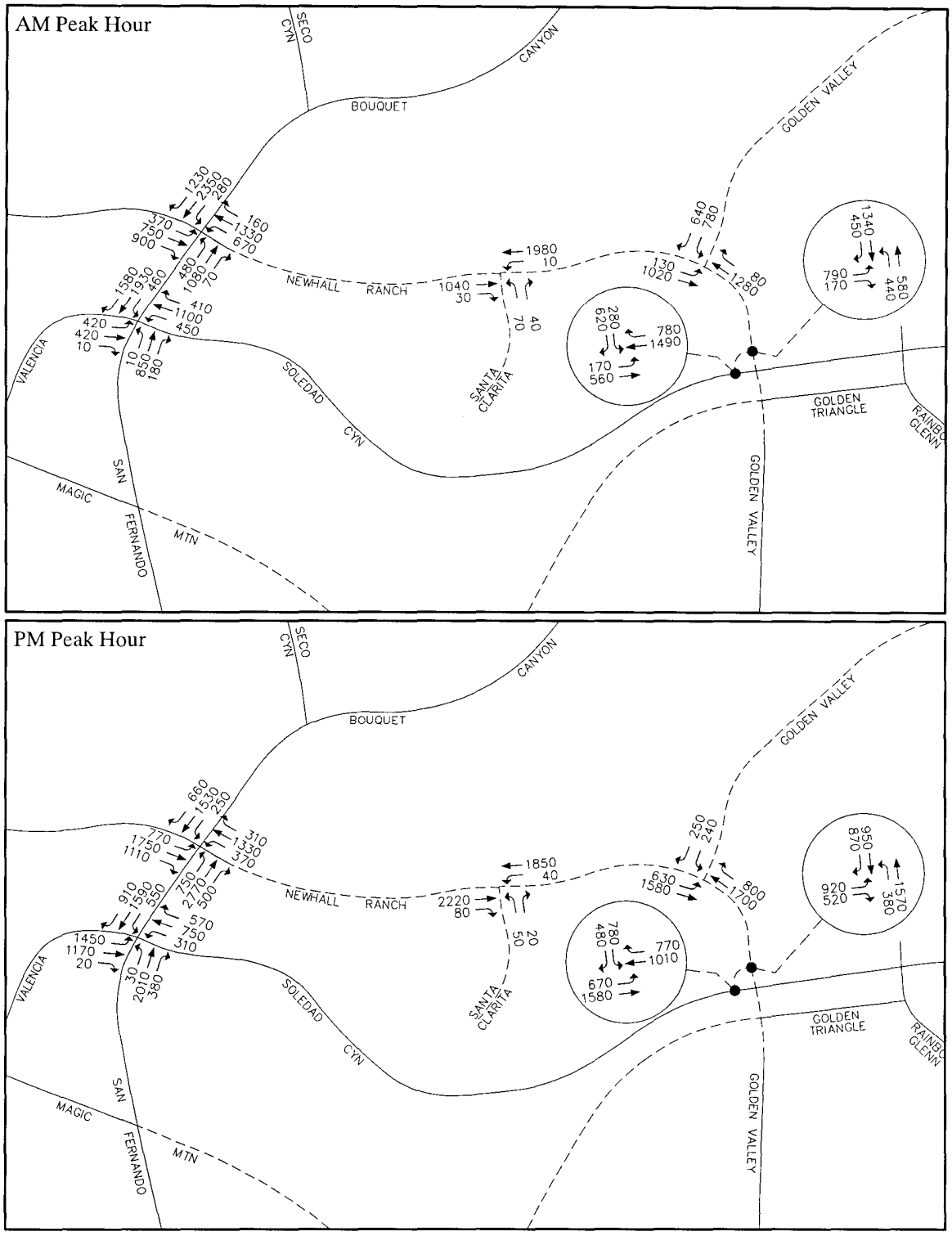


Figure 3

PEAK HOUR TURNING MOVEMENT VOLUMES - LONG-RANGE WITHOUT SANTA CLARITA PARKWAY

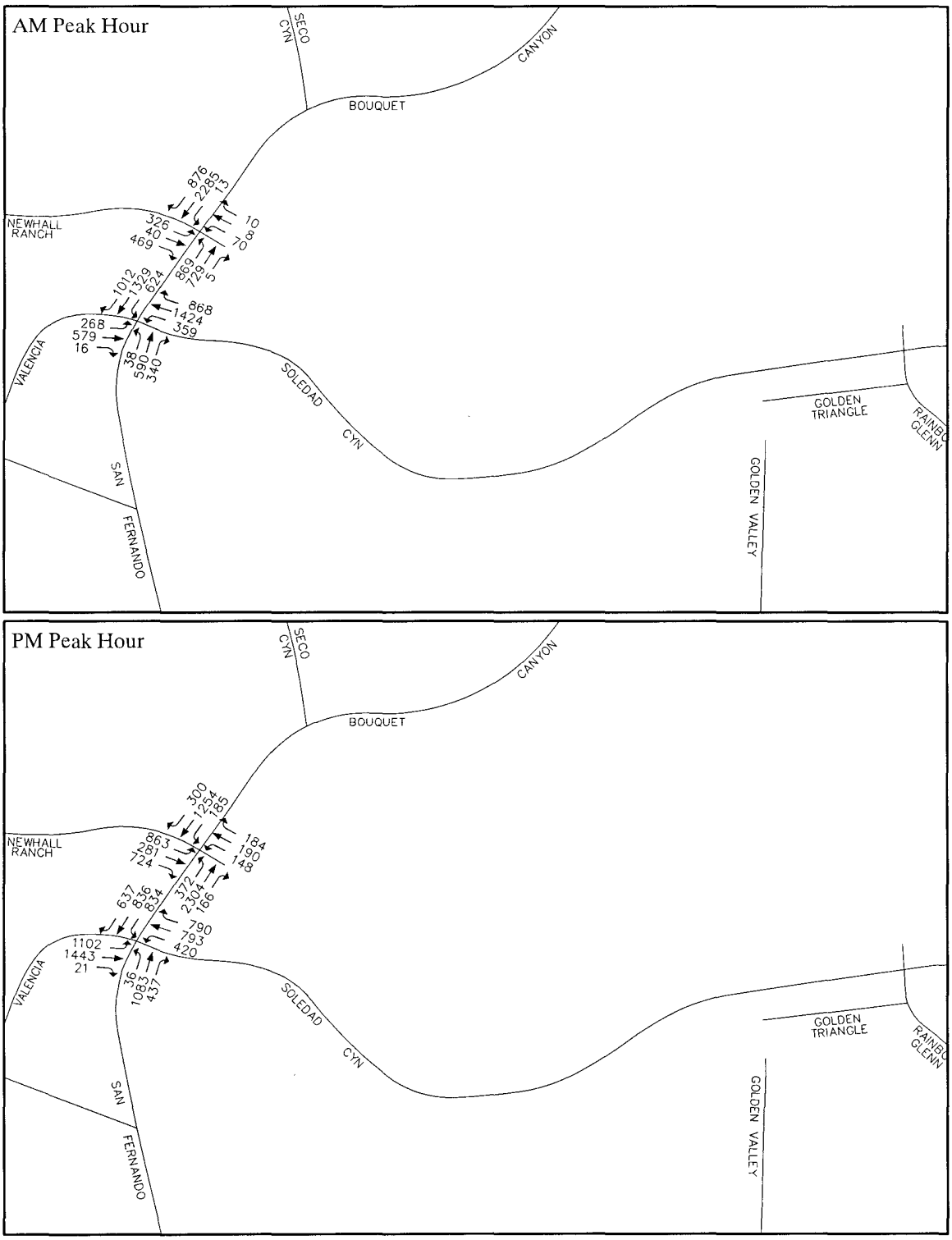
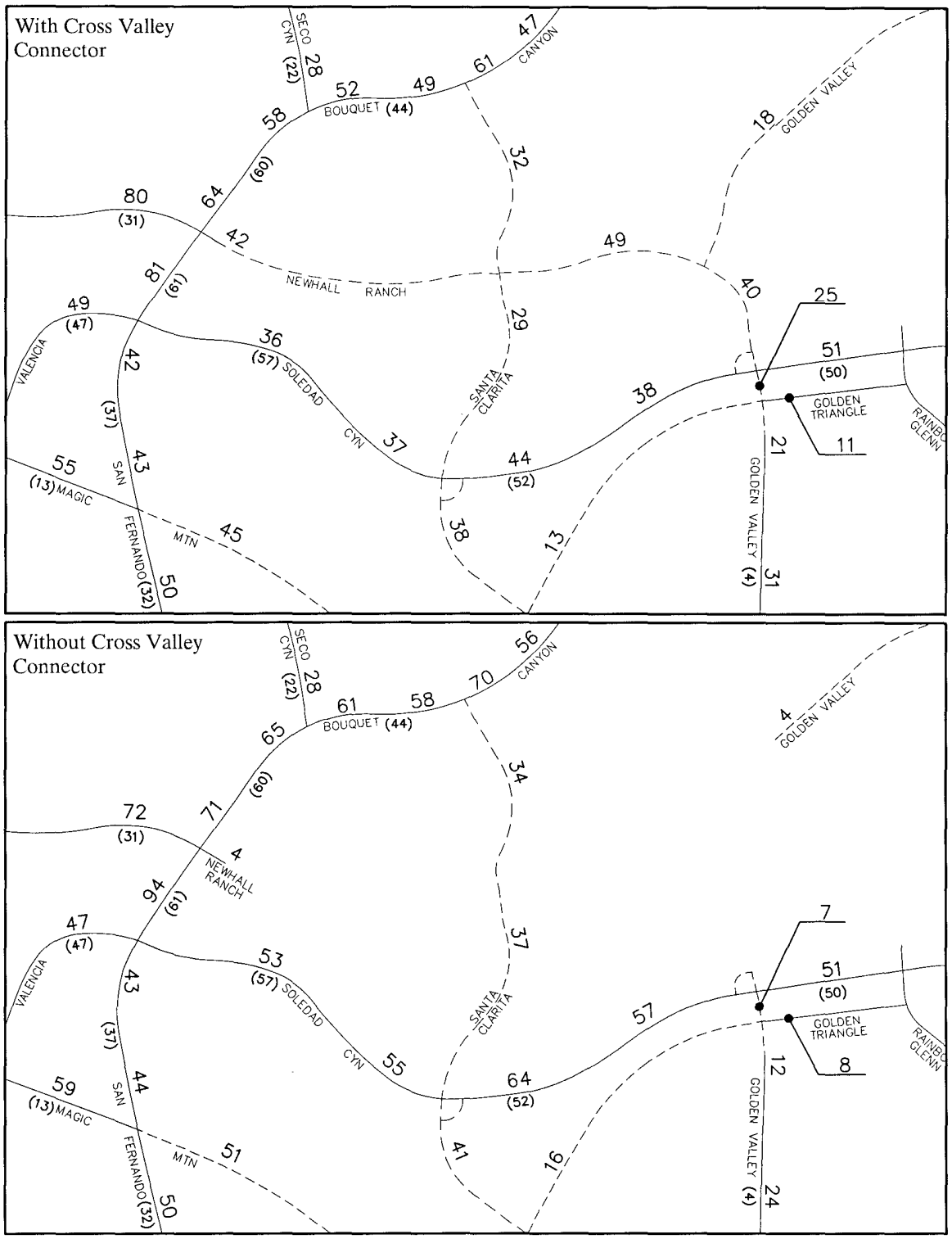


Figure 4

PEAK HOUR TURNING MOVEMENT VOLUMES
- EXISTING COUNTS



Legend

$$\frac{XX}{(YY)} = \frac{\text{Long-Range Forecast}}{\text{Existing Count}}$$

Figure 5

AVERAGE DAILY TRAFFIC VOLUMES (THOUSANDS) - WITH AND W/OUT CROSS VALLEY CONNECTOR

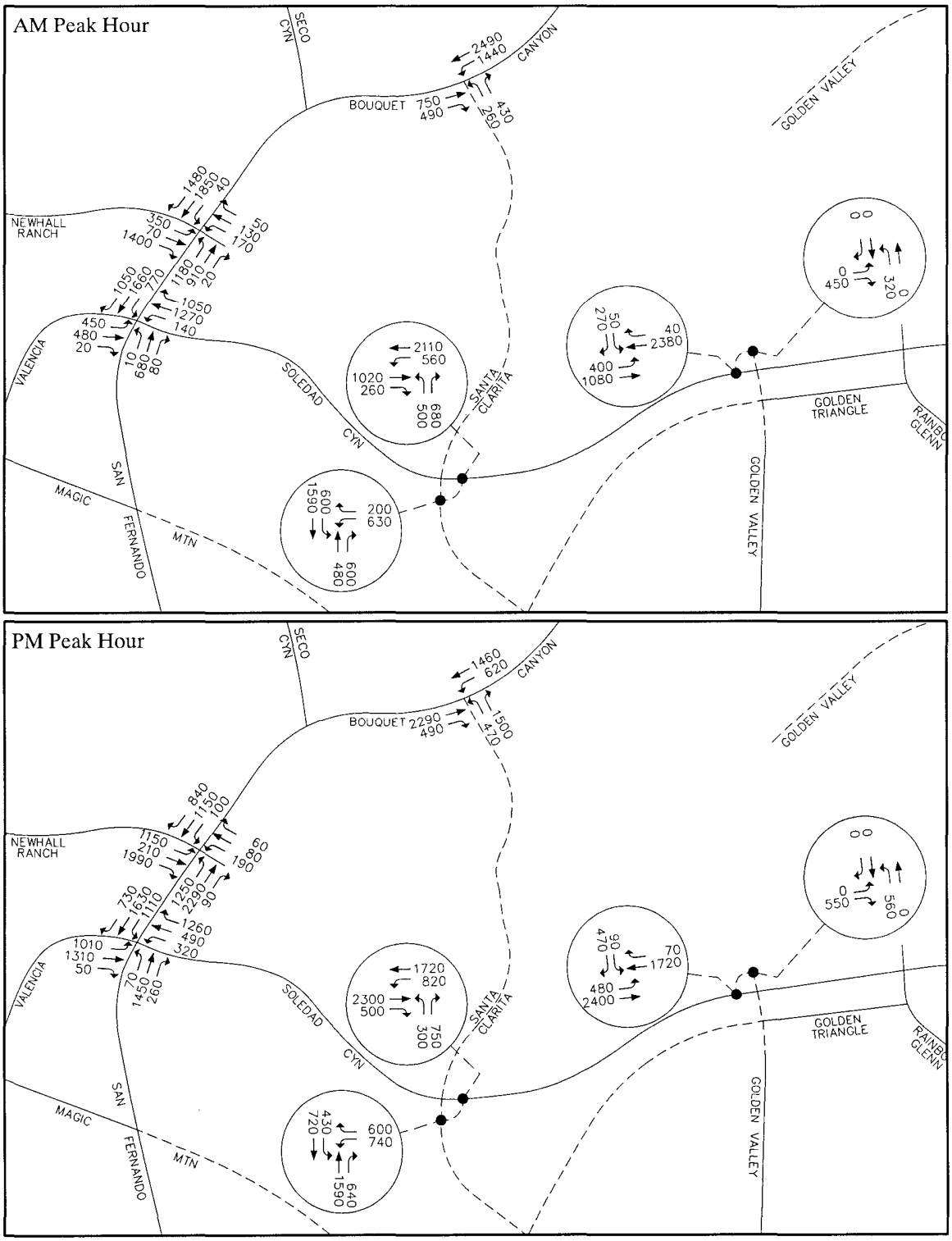


Figure 6

PEAK HOUR TURNING MOVEMENT VOLUMES - LONG-RANGE W/OUT CROSS VALLEY CONNECTOR

Appendix C
Level-of-Service Calculation Worksheets
Existing Conditions

Intersection: Bouquet Canyon Road/Santa Clarita Parkway
Year: Existing
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	869	3500	0.25	***	0.25
NB T	4	729	7000	0.10		
NB R	1	5	1750	0.00		
SB L	1	13	1750	0.01		
SB T	3	2285	5250	0.44	***	0.44
SB R	2	876	3500	0.25		
EB L	2	326	3500	0.09	***	0.09
EB T	2	40	3500	0.01		
EB R	2	469	3500	0.13		
WB L	2	70	3500	0.02		
WB T	3	8	5250	0.00	***	0.00
WB R	1	10	1750	0.01		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.88

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	372	3500	0.11		
NB T	4	2304	7000	0.33	***	0.33
NB R	1	166	1750	0.09		
SB L	1	185	1750	0.11	***	0.11
SB T	3	1254	5250	0.24		
SB R	2	300	3500	0.09		
EB L	2	863	3500	0.25	***	0.25
EB T	2	281	3500	0.08		
EB R	2	724	3500	0.21		
WB L	2	148	3500	0.04		
WB T	3	190	5250	0.04	***	0.04
WB R	1	184	1750	0.11		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.83

Intersection: Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/\
Year: Existing
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	1	38	1750	0.02		
NB T	3	590	5250	0.11	***	0.11
NB R	1	340	1750	0.19		
SB L	2	624	3500	0.18	***	0.18
SB T	3	1329	5250	0.25		
SB R	2	1012	3500	0.29		
EB L	2	268	3500	0.08	***	0.08
EB T	2.5	579	4375	0.13		
EB R	0.5	16	875	0.02		
WB L	2	359	3500	0.10		
WB T	2.8	1424	4900	0.29	***	0.29
WB R	1.2	868	2100	0.41		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.76

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	1	36	1750	0.02		
NB T	3	1083	5250	0.21	***	0.21
NB R	1	437	1750	0.25		
SB L	2	834	3500	0.24	***	0.24
SB T	3	836	5250	0.16		
SB R	2	637	3500	0.18		
EB L	2	1102	3500	0.31	***	0.31
EB T	2.5	1443	4375	0.33		
EB R	0.5	21	875	0.02		
WB L	2	420	3500	0.12		
WB T	2.5	793	4375	0.18	***	0.18
WB R	1.5	790	2625	0.30		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 1.04

Appendix D
Level-of-Service Calculation Worksheets
Longer Term "No Project" Conditions

Intersection: Bouquet Canyon Road/Santa Clarita Parkway
Year: Longer Term No Project
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	260	3500	0.074	***	0.08
NB T	0	0	1	0.000		
NB R	2	430	3500	0.123		
SB L	0	0	1	0.000		
SB T	0	0	1	0.000	***	0.00
SB R	0	0	1	0.000		
EB L	0	0	1	0.000		
EB T	3	750	5250	0.143	***	0.15
EB R	1	490	1750	0.280		
WB L	2	1440	3500	0.411	***	0.42
WB T	3	2490	5250	0.474		
WB R	0	0	1	0.000		

Right Turn Adjustment 0.06

Clearance Interval 0.10

Final ICU 0.81

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	470	3500	0.13	***	0.13
NB T	0	0	1	0.00		0.00
NB R	2	1500	3500	0.43		
SB L	0	0	1	0.00		0.00
SB T	0	0	1	0.00	***	0.00
SB R	0	0	1	0.00		
EB L	0	0	1	0.00		0.00
EB T	3	2290	5250	0.44	***	0.44
EB R	1	490	1750	0.28		
WB L	2	620	3500	0.18	***	0.18
WB T	3	1460	5250	0.28		0.00
WB R	0	0	1	0.00		

Right Turn Adjustment 0.12

Clearance Interval 0.10

Final ICU 0.96

Intersection: Bouquet Canyon Road/Newhall Ranch Road
Year: Longer-Term No Project
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	1180	3500	0.34	***	0.34
NB T	4	910	7000	0.13		
NB R	1	20	1750	0.01		
SB L	1	40	1750	0.02		
SB T	4	1850	7000	0.26	***	0.26
SB R	2	1480	3500	0.42		
EB L	2	350	3500	0.10	***	0.10
EB T	3	70	5250	0.01		
EB R	2	1400	3500	0.40		
WB L	2	170	3500	0.05		
WB T	3	130	5250	0.02	***	0.02
WB R	1	50	1750	0.03		

Right Turn Adjustment	0.06
Clearance Interval	0.10
Final ICU	**0.88**

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	1250	3500	0.36	***	0.36
NB T	4	2290	7000	0.33		
NB R	1	90	1750	0.05		
SB L	1	100	1750	0.06		
SB T	4	50	7000	0.01	***	0.01
SB R	2	840	3500	0.24		
EB L	2	1150	3500	0.33	***	0.33
EB T	3	210	5250	0.04		
EB R	2	1990	3500	0.57		
WB L	2	190	3500	0.05		
WB T	3	80	5250	0.02	***	0.02
WB R	1	60	1750	0.03		

Right Turn Adjustment	0.00
Clearance Interval	0.10
Final ICU	**0.81**

Intersection: Santa Clarita Parkway/South of Soledad Canyon Road GRADE SEP
Year: Longer-term no Project
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	0	0	1	0.00	***	0.00
NB T	3	480	5250	0.09		
NB R	1	600	1750	0.34		
SB L	2	600	3500	0.17		
SB T	3	1590	5250	0.30	***	0.30
SB R	0	0	1	0.00		
EB L	0	0	1	0.00		
EB T	0	0	1	0.00	***	0.00
EB R	0	0	1	0.00		
WB L	2	630	3500	0.18	***	0.18
WB T	0	0	1	0.00		
WB R	2	200	3500	0.06		
				Right Turn Adjustment		0.03
				Clearance Interval		0.10
				Final ICU		**0.61**

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	0	0	1	0.00		
NB T	3	1590	5250	0.30	***	0.30
NB R	1	640	1750	0.37		
SB L	2	430	3500	0.12	***	0.12
SB T	3	720	5250	0.14		
SB R	0	0	1	0.00		
EB L	0	0	1	0.00		0.00
EB T	0	0	1	0.00	***	0.00
EB R	0	0	1	0.00		
WB L	2	740	3500	0.21	***	0.21
WB T	0	0	1	0.00		0.00
WB R	2	600	3500	0.17		
				Right Turn Adjustment		0.00
				Clearance Interval		0.10
				Final ICU		**0.73**

Intersection: Soledad Canyon Road/East of Santa Clarita Parkway GRADE SEPA
Year: Longer-term no Project
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	500	3500	0.14	***	0.14
NB T	0	0	1	0.00		
NB R	2	680	3500	0.19		
SB L	0	0	1	0.00		
SB T	0	0	1	0.00	***	0.00
SB R	0	0	1	0.00		
EB L	0	0	1	0.00	***	0.00
EB T	3	1020	5250	0.19		
EB R	1	260	1750	0.15		
WB L	2	560	3500	0.16		
WB T	3	2110	5250	0.40	***	0.40
WB R	0	0	1	0.00		

Right Turn Adjustment	0.00
Clearance Interval	0.10
Final ICU	**0.64**

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	300	3500	0.09	***	0.09
NB T	0	0	1	0.00		0.00
NB R	2	750	3500	0.21		
SB L	0	0	1	0.00		0.00
SB T	0	0	1	0.00	***	0.00
SB R	0	0	1	0.00		
EB L	0	0	1	0.00		0.00
EB T	3	2300	5250	0.44	***	0.44
EB R	1	500	1750	0.29		
WB L	2	820	3500	0.23	***	0.23
WB T	3	1720	5250	0.33		0.00
WB R	0	0	1	0.00		

Right Turn Adjustment	0.00
Clearance Interval	0.10
Final ICU	**0.86**

Intersection: Soledad Canyon Road/Santa Clarita Parkway AT GRADE
Year: Longer-term no Project
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	344	3500	0.10	***	0.10
NB T	3	397	5250	0.08		
NB R	1	58	1750	0.03		
SB L	2	649	3500	0.19		
SB T	3	1237	5250	0.24	***	0.24
SB R	1	305	1750	0.17		
EB L	2	98	3500	0.03	***	0.03
EB T	3	905	5250	0.17		
EB R	1	269	1750	0.15		
WB L	2	142	3500	0.04		
WB T	3	1905	5250	0.36	***	0.36
WB R	1	241	1750	0.14		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.82

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	346	3500	0.10		
NB T	3	1247	5250	0.24	***	0.24
NB R	1	153	1750	0.09		
SB L	2	426	3500	0.12	***	0.12
SB T	3	784	5250	0.15		
SB R	1	209	1750	0.12		
EB L	2	301	3500	0.09		0.00
EB T	3	1871	5250	0.36	***	0.36
EB R	1	525	1750	0.30		
WB L	2	120	3500	0.03	***	0.03
WB T	3	1179	5250	0.22		0.00
WB R	1	727	1750	0.42		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.85

Intersection: Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road.\
Year: Longer-term no Project
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	1	10	1750	0.01		
NB T	3	680	5250	0.13	***	0.13
NB R	1	80	1750	0.05		
SB L	2	770	3500	0.22	***	0.22
SB T	3	1660	5250	0.32		
SB R	2	1050	3500	0.30		
EB L	3	450	5250	0.09	***	0.09
EB T	2.5	480	4375	0.11		
EB R	0.5	20	875	0.02		
WB L	2	140	3500	0.04		
WB T	2	1270	3500	0.36	***	0.36
WB R	1	1050	1750	0.60		

Right Turn Adjustment 0.02

Clearance Interval 0.10

Final ICU 0.92

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	1	70	1750	0.04		
NB T	3	1450	5250	0.28	***	0.28
NB R	1	260	1750	0.15		
SB L	2	1110	3500	0.32	***	0.32
SB T	3	1630	5250	0.31		
SB R	2	730	3500	0.21		
EB L	3	1010	5250	0.19		0.00
EB T	2.7	1310	4725	0.28	***	0.28
EB R	0.3	50	525	0.10		
WB L	2	320	3500	0.09	***	0.09
WB T	2	490	3500	0.14		0.00
WB R	1	705	1750	0.40		

Overlap Subtract 555

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 1.07

Appendix E
Level-of-Service Calculation Worksheets
Longer Term "With Project" Conditions

Intersection: Bouquet Canyon Road/Santa Clarita Parkway
Year: Longer Term With Project (Alternatives 1, 2, and 3)
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	220	3500	0.063	***	0.07
NB T	0	0	1	0.000		
NB R	2	440	3500	0.126		
SB L	0	0	1	0.000		
SB T	0	0	1	0.000	***	0.00
SB R	0	0	1	0.000		
EB L	0	0	1	0.000		
EB T	3	630	5250	0.120	***	0.12
EB R	1	440	1750	0.251		
WB L	2	1250	3500	0.357	***	0.36
WB T	3	2220	5250	0.423		
WB R	0	0	1	0.000		

Right Turn Adjustment	0.07
Clearance Interval	0.10
Final ICU	**0.72**

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	340	3500	0.10	***	0.10
NB T	0	0	1	0.00		0.00
NB R	2	1570	3500	0.45		
SB L	0	0	1	0.00		0.00
SB T	0	0	1	0.00	***	0.00
SB R	0	0	1	0.00		
EB L	0	0	1	0.00		0.00
EB T	3	1680	5250	0.32	***	0.32
EB R	1	470	1750	0.27		
WB L	2	560	3500	0.16	***	0.16
WB T	3	1270	5250	0.24		0.00
WB R	0	0	1	0.00		

Right Turn Adjustment	0.19
Clearance Interval	0.10
Final ICU	**0.87**

Intersection: Bouquet Canyon Road/Newhall Ranch Road
Year: Longer-Term with Project (Alternatives 1, 2 and 3)
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	600	3500	0.17	***	0.17
NB T	4	810	7000	0.12		
NB R	1	80	1750	0.05		
SB L	2	70	3500	0.02		
SB T	4	1980	7000	0.28	***	0.28
SB R	2	1160	3500	0.33		
EB L	2	330	3500	0.09	***	0.09
EB T	4	760	7000	0.11		
EB R	2	980	3500	0.28		
WB L	2	640	3500	0.18		
WB T	4	1400	7000	0.20	***	0.20
WB R	1	40	1750	0.02		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.84

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	700	3500	0.20	***	0.20
NB T	4	2470	7000	0.35		
NB R	1	340	1750	0.19		
SB L	2	90	3500	0.03		
SB T	4	1250	7000	0.18	***	0.18
SB R	2	620	3500	0.18		
EB L	2	500	3500	0.14		
EB T	4	1850	7000	0.26	***	0.26
EB R	2	1280	3500	0.37		
WB L	2	300	3500	0.09	***	0.09
WB T	4	1400	7000	0.20		
WB R	1	160	1750	0.09		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.83

Intersection: Santa Clarita Parkway/Newhall Ranch Road
Year: Longer-term with Project (Alternatives 1, 2 and 3)
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	200	3500	0.06	***	0.06
NB T	3	430	5250	0.08		
NB R	1	50	1750	0.03		
SB L	2	450	3500	0.13		
SB T	3	1270	5250	0.24	***	0.24
SB R	1	40	1750	0.02		
EB L	2	40	3500	0.01	***	0.01
EB T	3	690	5250	0.13		
EB R	1	190	1750	0.11		
WB L	2	270	3500	0.08		
WB T	3	1760	5250	0.34	***	0.34
WB R	1	200	1750	0.11		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.75

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	350	3500	0.10		
NB T	3	1200	5250	0.23	***	0.23
NB R	1	240	1750	0.14		
SB L	2	370	3500	0.11	***	0.11
SB T	3	660	5250	0.13		
SB R	1	20	1750	0.01		
EB L	2	290	3500	0.08		0.00
EB T	3	1750	5250	0.33	***	0.33
EB R	1	210	1750	0.12		
WB L	2	120	3500	0.03	***	0.03
WB T	3	1440	5250	0.27		0.00
WB R	1	490	1750	0.28		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.80

Intersection: Golden Valley Road/Newhall Ranch Road
Year: Longer-term with Project (Alternatives 1 and 2)
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	0	0	1	0.00		
NB T	0	0	1	0.00	***	0.00
NB R	0	0	1	0.00		
SB L	2	420	3500	0.12	***	0.12
SB T	0	0	1	0.00		
SB R	2	860	3500	0.25		
EB L	1	140	1750	0.08	***	0.08
EB T	3	1090	5250	0.21		
EB R	0	0	1	0.00		
WB L	0	0	1	0.00		
WB T	3	1280	5250	0.24	***	0.24
WB R	1	40	1750	0.02		
				Right Turn Adjustment		0.05
				Clearance Interval		0.10
				Final ICU		**0.59**

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	0	0	1	0.00		
NB T	0	0	1	0.00	***	0.00
NB R	0	0	1	0.00		
SB L	2	120	3500	0.03	***	0.03
SB T	0	0	1	0.00		
SB R	2	350	3500	0.10		
EB L	1	860	1750	0.49	***	0.49
EB T	3	1420	5250	0.27		
EB R	0	0	1	0.00		
WB L	0	0	1	0.00		
WB T	3	1700	5250	0.32	***	0.32
WB R	1	390	1750	0.22		
				Right Turn Adjustment		0.00
				Clearance Interval		0.10
				Final ICU		**0.94**

Intersection: Golden Valley Road/Newhall Ranch Road
Year: Longer-term with Projecdt Alternative 3
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	1280	3500	0.37	***	0.37
NB T	3	40	5250	0.01		
NB R	0	0	1	0.00		
SB L	0	0	1	0.00		
SB T	3	420	5250	0.08	***	0.08
SB R	1	860	1750	0.49		
EB L	2	140	3500	0.04	***	0.04
EB T	0	0	1	0.00		
EB R	2	1090	3500	0.31		
WB L	0	0	1	0.00		
WB T	0	0	1	0.00	***	0.00
WB R	0	0	1	0.00		

Right Turn Adjustment 0.37

Clearance Interval 0.10

Final ICU 0.96

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	1700	3500	0.49	***	0.49
NB T	3	390	5250	0.07		0.00
NB R	0	0	1	0.00		
SB L	0	0	1	0.00		0.00
SB T	3	120	5250	0.02	***	0.02
SB R	1	350	1750	0.20		
EB L	2	860	3500	0.25	***	0.25
EB T	0	0	1	0.00		
EB R	2	1420	3500	0.41		
WB L	0	0	1	0.00		
WB T	0	0	1	0.00	***	0.00
WB R	0	0	1	0.00		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.86

Intersection: Santa Clarita Parkway/South of Soledad Canyon Road GRADE SEP
Year: Longer-term with Project (Alternatives 1, 2 and 3)
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	0	0	1	0.00	***	0.00
NB T	3	530	5250	0.10		
NB R	1	460	1750	0.26		
SB L	2	290	3500	0.08		
SB T	3	1480	5250	0.28	***	0.28
SB R	0	0	1	0.00		
EB L	0	0	1	0.00		
EB T	0	0	1	0.00	***	0.00
EB R	0	0	1	0.00		
WB L	2	450	3500	0.13	***	0.13
WB T	0	0	1	0.00		
WB R	2	110	3500	0.03		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.51

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	0	0	1	0.00		
NB T	3	1460	5250	0.28	***	0.28
NB R	1	620	1750	0.35		
SB L	2	200	3500	0.06	***	0.06
SB T	3	770	5250	0.15		
SB R	0	0	1	0.00		
EB L	0	0	1	0.00		0.00
EB T	0	0	1	0.00	***	0.00
EB R	0	0	1	0.00		
WB L	2	680	3500	0.19	***	0.19
WB T	0	0	1	0.00		0.00
WB R	2	360	3500	0.10		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.63

Intersection: Soledad Canyon Road/East of Santa Clarita Parkway GRADE SEPA
Year: Longer-term with Project Alternatives 1, 2 and 3
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	300	3500	0.09	***	0.09
NB T	0	0	1	0.00		
NB R	2	420	3500	0.12		
SB L	0	0	1	0.00		
SB T	0	0	1	0.00	***	0.00
SB R	0	0	1	0.00		
EB L	0	0	1	0.00	***	0.00
EB T	3	640	5250	0.12		
EB R	1	150	1750	0.09		
WB L	2	400	3500	0.11		
WB T	3	1870	5250	0.36	***	0.36
WB R	0	0	1	0.00		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.54

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	220	3500	0.06	***	0.06
NB T	0	0	1	0.00		0.00
NB R	2	570	3500	0.16		
SB L	0	0	1	0.00		0.00
SB T	0	0	1	0.00	***	0.00
SB R	0	0	1	0.00		
EB L	0	0	1	0.00		0.00
EB T	3	1800	5250	0.34	***	0.34
EB R	1	400	1750	0.23		
WB L	2	640	3500	0.18	***	0.18
WB T	3	960	5250	0.18		0.00
WB R	0	0	1	0.00		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.69

Intersection: Soledad Canyon Road/Santa Clarita Parkway AT GRADE
Year: Longer-term with Project Alternatives 1, 2 and 3
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	395	3500	0.11	***	0.11
NB T	3	403	5250	0.08		
NB R	1	46	1750	0.03		
SB L	2	86	3500	0.02		
SB T	3	1407	5250	0.27	***	0.27
SB R	1	194	1750	0.11		
EB L	2	54	3500	0.02	***	0.02
EB T	3	516	5250	0.10		
EB R	1	195	1750	0.11		
WB L	2	165	3500	0.05		
WB T	3	1689	5250	0.32	***	0.32
WB R	1	32	1750	0.02		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.82

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	226	3500	0.06		
NB T	3	1407	5250	0.27	***	0.27
NB R	1	157	1750	0.09		
SB L	2	196	3500	0.06	***	0.06
SB T	3	758	5250	0.14		
SB R	1	85	1750	0.05		
EB L	2	196	3500	0.06		0.00
EB T	3	1533	5250	0.29	***	0.29
EB R	1	563	1750	0.32		
WB L	2	74	3500	0.02	***	0.02
WB T	3	723	5250	0.14		0.00
WB R	1	488	1750	0.28		

Right Turn Adjustment 0.00

Clearance Interval 0.10

Final ICU 0.74

Intersection: Soledad Canyon Road/Valley Center Drive
Year: Longer-term with Project Alternatives 1, 2 and 3
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	0	0	1	0.00		
NB T	0	0	1	0.00	***	0.00
NB R	0	0	1	0.00		
SB L	2	250	3500	0.07	***	0.07
SB T	0	0	1	0.00		
SB R	1	500	1750	0.29		
EB L	2	70	3500	0.02	***	0.02
EB T	3	740	5250	0.14		
EB R	0	0	1	0.00		
WB L	0	0	1	0.00		
WB T	3	1730	5250	0.33	***	0.33
WB R	1	740	1750	0.42		

Right Turn Adjustment	0.20
Clearance Interval	0.10
Final ICU	**0.72**

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	0	0	1	0.00		
NB T	0	0	1	0.00	***	0.00
NB R	0	0	1	0.00		
SB L	2	690	3500	0.20	***	0.20
SB T	0	0	1	0.00		
SB R	1	240	1750	0.14		
EB L	2	420	3500	0.12		0.00
EB T	3	1810	5250	0.34	***	0.34
EB R	0	0	1	0.00		
WB L	0	0	1	0.00	***	0.00
WB T	3	1060	5250	0.20		0.00
WB R	1	730	1750	0.42		

Right Turn Adjustment	0.00
Clearance Interval	0.10
Final ICU	**0.64**

Intersection: Golden Valley Road/Valley Center Drive
Year: Longer-term with Project Alternatives 1, 2 and 3
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	380	3500	0.11	***	0.11
NB T	3	570	5250	0.11		
NB R	1	0	1750	0.00		
SB L	0	0	1	0.00		
SB T	3	1140	5250	0.22	***	0.22
SB R	1	370	1750	0.21		
EB L	2	740	3500	0.21	***	0.21
EB T	0	0	1	0.00		
EB R	1	60	1750	0.03		
WB L	0	0	1	0.00		
WB T	0	0	1	0.00	***	0.00
WB R	0	0	1	0.00		
				Right Turn Adjustment		0.00
				Clearance Interval		0.10
				Final ICU		**0.64**

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	2	210	3500	0.06		
NB T	3	1210	5250	0.23	***	0.23
NB R	1	0	1750	0.00		
SB L	0	0	1	0.00	***	0.00
SB T	3	810	5250	0.15		
SB R	1	730	1750	0.42		
EB L	2	880	3500	0.25	***	0.25
EB T	0	0	1	0.00		
EB R	1	270	1750	0.15		
WB L	0	0	1	0.00		
WB T	0	0	1	0.00	***	0.00
WB R	0	0	1	0.00		
				Right Turn Adjustment		0.00
				Clearance Interval		0.10
				Final ICU		**0.58**

Intersection: Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road.\
Year: Longer-term with Project Alternatives 1, 2 and 3
Comments:
Period: AM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	1	10	1750	0.01	***	0.01
NB T	4	670	7000	0.10		
NB R	1	60	1750	0.03		
SB L	2	400	3500	0.11		
SB T	3	1840	5250	0.35	***	0.35
SB R	2	1380	3500	0.39		
EB L	3	410	5250	0.08	***	0.08
EB T	2.5	400	4375	0.09		
EB R	0.5	10	875	0.01		
WB L	2	230	3500	0.07		
WB T	3	1320	5250	0.25	***	0.25
WB R	1	460	1750	0.26		

Right Turn Adjustment	0.00
Clearance Interval	0.10
Final ICU	**0.79**

Period: PM Peak Hour

Movement	Lanes	Volume	Capacity	V/C	Critical Moves	Critical V/C
NB L	1	20	1750	0.01		
NB T	4	1880	7000	0.27	***	0.27
NB R	1	20	1750	0.01		
SB L	2	630	3500	0.18	***	0.18
SB T	3	1360	5250	0.26		
SB R	2	910	3500	0.26		
EB L	3	1230	5250	0.23	***	0.23
EB T	2.5	1160	4375	0.27		
EB R	0.5	30	875	0.03		
WB L	2	180	3500	0.05		
WB T	3	640	5250	0.12	***	0.12
WB R	1	440	1750	0.25		

Right Turn Adjustment	0.00
Clearance Interval	0.10
Final ICU	**0.90**

FINAL
Visual Impact Assessment

Cross Valley Connector East Project
SANTA CLARITA, CALIFORNIA

Prepared for:

City of Santa Clarita
23920 W. Valencia Blvd., Suite 300
Santa Clarita, CA 91355
As Lead Agency pursuant to the California Environmental Quality Act of 1970

and

U.S. Federal Highway Administration (FHWA)
c/o California Department of Transportation (Department)
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October 2004

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LIST OF ACRONYMNS

CIP	cast-in-place
CLWA	Castaic Lake Water Agency
FHWA	Federal Highways Administration
LOS	levels of service
MUDC	Santa Clarita Municipal and Unified Development Code
NLFC	Newhall Land and Farm Company
ROW	Right-of-Way

1 INTRODUCTION

1.1 Scope and Purpose of Study

This Visual Impact Assessment has been prepared for the proposed Cross Valley Connector East Project. The proposed action is a cooperative project between the City of Santa Clarita (City) and the California Department of Transportation (Department). Accordingly, this Visual Impact Assessment analysis was conducted using guidelines from the Federal Highway Administration (FHWA), the Department, and the goals and policies of the City.

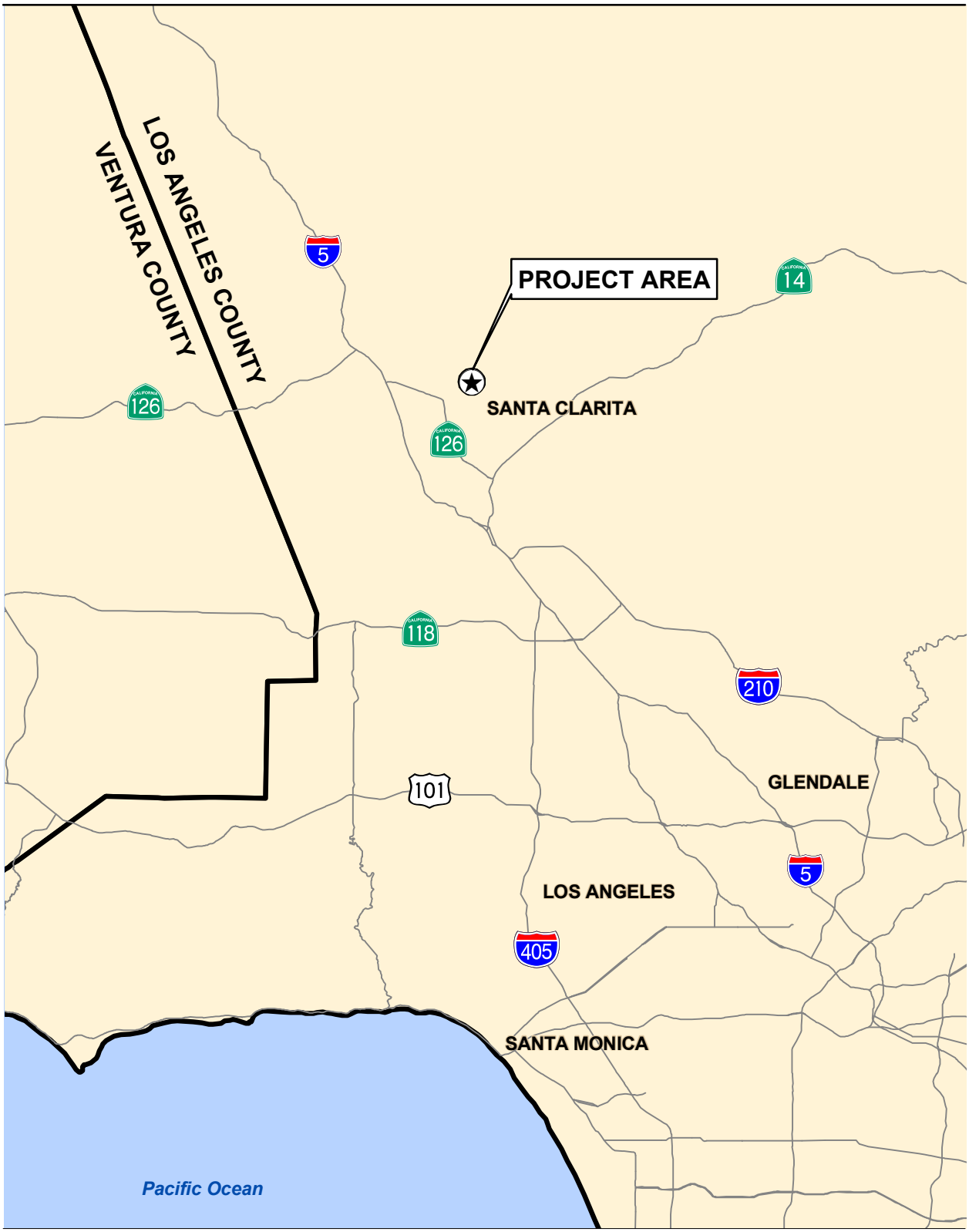
The purpose of this Visual Impact Assessment is to evaluate the potential impacts to visual resources resulting from the construction and operation of the proposed northern extension of Golden Valley Road, the eastern extension of Newhall Ranch Road, and the bridge over the Santa Clara River (Figure 1). This technical report addresses the three project alternatives (Figure 2). The analysis will discuss the existing visual environment, existing and future landscape units, applicable planning documents, viewer types and anticipated view response, and key observation points. Potential visual impacts are assessed based on the anticipated change to the visual environment as a result of project implementation and consistency with approved plans. Lastly, appropriate mitigation measures are recommended for identified visual impacts.

1.2 Project Overview and Regional Context

The proposed project is located in northern Los Angeles County, California. The proposed roadway extension site is located between Soledad Canyon Road to the south and Bouquet Canyon Road to the west. Most of the project site traverses a largely undeveloped area surrounding the Santa Clara River.

The principal transportation routes in Santa Clarita are Interstate 5 (I-5) and the Antelope Valley Freeway (State Route 14 [SR-14]), providing north-south access through the Santa Clarita Valley (see Figure 1). The primary east-west traffic corridor through Santa Clarita is Soledad Canyon Road (Figure 3). Due to severe congestion problems on Soledad Canyon Road, the City has recognized the need for an additional east-west transportation corridor through Santa Clarita. The City adopted a revised General Plan Circulation Element in 1997 that identified a cross-valley route along Newhall Ranch Road and Golden Valley Road. This route, referred to as the Cross Valley Connector, would connect I-5 with SR-14 through the center of the city. The proposed project would complete the eastern portion of this route, from Newhall Ranch Road in the west to Golden Valley Road in the east.

The proposed project would extend Newhall Ranch Road by approximately 3.2 kilometers (2 miles) from its current terminus at Bouquet Canyon Road eastwards. From here, Newhall Ranch Road would connect with Golden Valley Road, which would extend southwards to terminate approximately 610 meters (2,000 feet) north of Soledad Canyon Road (Figure 2). The future extension of Golden Valley Road is part of



Source: City of Santa Clara; ESRI

NORTH

75 0 75 Miles

Figure 1
Regional Location Map

Source: City of Santa Clarita, 2002

0 375 750 1,500 2,250 3,000 Feet

1 inch equals 0.25 miles

Figure 2
Vicinity Map

the larger Cross Valley Connector project, but not part of the proposed project evaluated in this Visual Impact Assessment.

The Golden Valley Road segment would include a new 300-meter-long (980 feet) bridge spanning the Santa Clara River. In addition, a 46-meter (150 feet) single span bridge would be constructed over a concrete pipeline which is part of the 360 kilometer-long (223 miles) Los Angeles Aqueduct (LADWP 2004). The proposed typical section of the alignment would include a six-lane roadway with a 4.3 meter (14 feet) median island and pedestrian and bicycle lanes. Generally, the total curb-to-curb width would be approximately 30 meters (98 feet) with a total right-of-way (ROW) width of approximately 37 meters (120 feet). Near the intersection of the Newhall Ranch Road and Golden Valley Road extensions, the roadway would cut through a secondary ridgeline.

Four alternatives are analyzed at an equal level of detail in this document. The No Action Alternative is required by CEQA and NEPA and is analyzed as Alternative 1. Three other action alternatives are analyzed in this Draft EIR/EA, all of which would extend Newhall Ranch Road to the east and Golden Valley Road to the north, and include a bridge over the Santa Clara River and the Los Angeles Aqueduct pipeline. Each of the three Action alternatives would also closely follow the existing, graded roadway for approximately 1 kilometer (0.6 mile) along the western portion of the alignment.

1.2.1 Alternative 1: No Action Alternative

The No Action Alternative would maintain the current local and regional circulation system. The planned extensions of Newhall Ranch Road and Golden Valley Road would not be constructed; thus, the proposed alternate east-west route between Soledad Canyon Road and Bouquet Canyon Road would not be established. The No Action Alternative would not complete an essential portion of the Cross Valley Connector project, and hence, the ultimate completion of the Cross Valley Connector from SR 14 to I-5, across the central Santa Clarita Valley would not occur.

1.2.2 Alternative 2: Alignment No. 1

Alternative 2 entails construction of a 3.9-kilometer (2.4-mile) roadway alignment including the northward extension of Golden Valley Road and the eastward extension of Newhall Ranch Road. Golden Valley Road would intersect Newhall Ranch Road north of the Santa Clara River. This alternative would include construction of a 150-meter-long (492 feet) portion of Golden Valley Road north of its intersection with Soledad Canyon Road. The proposed action would be a crucial segment of the larger Cross Valley Connector project. The proposed action would include the following components:

- construction of a new 35-meter-wide (116 feet), 6-lane roadway, including pedestrian sidewalks and bike paths;
- construction of a new 300-meter (980 feet) cast-in-place (CIP) or precast, 4 lane bridge spanning the Santa Clara River;
- construction of a new 46-meter (150 feet) single-span bridge over the Los Angeles Aqueduct, and;

- acquisition of approximately 17.2 hectares (42.6 acres) of ROW belonging to Newhall Land and Farm Company (NLFC) and Castaic Lake Water Agency (CLWA).

1.2.3 Alternative 3: Alignment No. 2

The project components under this alternative would be similar to those identified above for Alternative 2, apart from the location of the 580-meter (1,900 feet) radius curve and river crossing. As a result, the intersection of Newhall Ranch Road and Golden Valley Road would occur over the Santa Clara River. This alternative would require a 315-meter-long (1033 feet) bridge along Newhall Ranch Road over Santa Clara River. The extension of Newhall Ranch Road east of the project site would meet Golden Valley Road while the roadway is over the Santa Clara River. As a result, a second bridge would be required. This alternative lies entirely within property owned by NLFC and CLWA. Approximately 17.2 hectares (42.6 acres) of ROW would be required.

1.2.4 Alternative 4: Alignment No. 3

The project components under this alternative would be similar to those identified above for Alternative 2; however, the eastern extension of Newhall Ranch Road in Alternative 4 would extend farther east before intersecting with Golden Valley Road, resulting in a "T" intersection. The north-bound bridge that carries the 35-meter-wide (116 feet) Golden Valley Road across the Santa Clara River would commence at the same point on the south side of the river as that of Alternatives 2 and 3; however, the bridge would veer westward into a right 580-meter-radius (1900 feet) horizontal curve as it traverses the river. This alternative also requires the intersection of Golden Valley Road and Newhall Ranch Road to occur over the Santa Clara River, and similar to Alternative 3, a second bridge would meet the Golden Valley Road bridge, connecting to Newhall Ranch Road at the "T" intersection. This alternative lies entirely within property owned by NLFC and CLWA. Approximately 17.2 hectares (42.6 acres) of ROW would be required.

1.3 Statutory Setting

The following briefly discusses relevant City ordinances, policies, and guidance documents that influence or direct the design and aesthetics of the proposed project.

City of Santa Clarita General Plan

The City of Santa Clarita General Plan (General Plan), adopted on June 26, 1991, provides the framework for development in the city. The Land Use Element provides the City's policy regarding long-range and immediate considerations regarding future development, while the Circulation Element Amendment (City of Santa Clarita, 1997) provides the statutory basis for the overall Cross Valley Connector project, including the proposed extensions of Newhall Ranch Road and Golden Valley Road. The recommendations of the Circulation Element Amendment were analyzed at a program level in the City's Circulation Element Amendment EIR.

Cross Valley Connector Aesthetics Guidelines

The Cross Valley Connector Aesthetics Guidelines (Aesthetics Guidelines), prepared by RRM Design Group for the City (City, 2004), provides direction regarding hardscape and softscape features to be used to enhance roadway design, including lighting, signage, slopes, utility lines, transit shelters, bicycle facilities, and selection of tree species. The Aesthetics Guidelines represent the most specific set of requirements for the Cross Valley Connector project.

Santa Clarita Municipal and Unified Development Code

The Santa Clarita Municipal and Unified Development Code (MUDC) includes an Oak Tree Preservation Ordinance and Ridgeline Preservation and Hillside Development Ordinance, both of which influence the proposed project.

The Oak Tree Preservation Ordinance (MUDC, Section 17.17.090) is designed to protect and preserve oak trees throughout the sity, on the basis that indigenous oak trees provide significant historic, aesthetic, and environmental value. Under the ordinance, all healthy oak trees are required to be preserved unless compelling reasons justify their removal. Furthermore, homeowners are required to maintain existing oak trees in good health.

The Ridgeline Preservation and Hillside Development Ordinance (MUDC, Section 17.80 et seq.) provides the regulatory basis for the identification and protection of significant ridgelines within the city. Certain hillsides have been identified by the City as significant due to important landform, vegetation, wildlife, hydrologic, and scenic qualities. This ordinance permits reasonable development while regulating grading, development, and alteration of such hillsides to provide for the safety and welfare of local residents.

Santa Clarita Beautification Master Plan

The Santa Clarita Beautification Master Plan (Beautification Master Plan) was developed by the City to assist in the long-term goal of citywide streetscape improvements and beautification (City of Santa Clarita 2001). It addresses streetscape design, landscape enhancement, gateways, and monumental and signage features at both regional and community scales, and includes analysis of implementation costs, phasing, and priorities. City-wide guidelines are designed to unify the image of the city as a whole and create a regional identity, while continuity with community-level guidelines allows for the unique individuality of four communities identified within the city to be expressed, while retaining that overall theme.

Golden Valley and Newhall Ranch Roads are identified as Primary Corridors in the Beautification Master Plan (City 2001, p.I-19). According to this plan, medians should extend or complement existing median sections and should include special paving materials, trees, and shrub plantings (City of Santa Clarita 2001, p.I-20). The plan also specifies tree spacing, sizing, and character within the median and along sidewalks and requires that roadways incorporate attractive and functional landscaping that is

aesthetically pleasing and pedestrian friendly (City of Santa Clarita 2001, p.I-22). The plan also indicates that utility lines should be underground where possible, billboards and advertisement signs should be avoided, and fences should be uniform in height, material, and style (City 2001, p.I-28).

Bridges are also addressed in the plan, which recommends that bridge support columns should be minimized while maintaining a thin bridge structure; barrier rails should be an integral part of the bridge structure; and bridge abutment walls and other prominent features, such as light standards and fencing, should be visually complementary (City of Santa Clarita 2001 p.I-34).

County of Los Angeles General Plan

The County of Los Angeles General Plan (County of Los Angeles 1993) provides guidelines for the future resource allocation across the county. The document provides the regulatory framework for Significant Ecological Areas (SEAs), a designation which provides protection in conjunction with the Land Use and Open Space Elements of the County's General Plan. The Santa Clara River, which would be traversed by the proposed project, is designated as SEA Number 23 by the County of Los Angeles. A portion of the Santa Clara River is designated as Open Space in the City's General Plan. However, the areas within the river and adjacent to the proposed alignment are not open to the public. No other recreation/open space areas are designated in the vicinity of the project. Although the site provides visual relief from the surrounding developed area, there are no recreational opportunities available. The Santa Clara River is designated as a natural, wild river.

1.4 Methodology

This Visual Impact Assessment was prepared with guidance from the objectives and methods described in the FHWA's Visual Impact Assessment for Highway Projects (FHWA 1981) and from the goals and policies of the City's General Plan (City of Santa Clarita 1991), the Aesthetics Guidelines (City of Santa Clarita 2004a), and the Beautification Master Plan (City of Santa Clarita 2001). The following steps were conducted for this assessment:

1. The visual environment and existing landscape characteristic/urban districts within the project viewshed were defined and documented. For this project, the visual environment was evaluated for both the existing condition (undeveloped) and for the future, planned development condition.

2. Applicable planning documents were reviewed for pertinent policy and guidance information.

3. Major viewer groups within landscape units were identified and viewer responses for both existing and future conditions determined.

4. Key observation points for the visual assessment were selected, based on public viewing locations and typical viewing conditions.

5. After review of the project engineering plans, the type and degree of visual changes expected to result in the study area were documented.

6. Design recommendations for specific project features and locations were generated to enhance the visual environment for stationary and transient viewers of the proposed roadway.

7. Appropriate mitigation measures were identified.

The geographic limits for the Visual Impact Assessment consist of the viewshed boundary, or the area from which the project can be viewed. The viewshed boundary was determined in the field and through analysis of aerial maps. The character of the existing visual environment was then documented through field reconnaissance, photographic records, and aerial photograph interpretation. The character of the future environment was interpreted from approved planning documents. Viewer groups within the viewshed limit were determined through field visits, land use maps, and other planning documents. For the existing scenario, five landscape units were identified to represent the range of urban and natural environments within the viewshed.

A number of variables affect the degree of visibility, visual contrast, and ultimately project impacts including scale and size of facilities, distance and viewing angle, color and texture, and influences of adjacent scenery or land uses. Even where visible, viewer response and sensitivity vary depending on viewer attitudes and expectations. In conformance with FHWA guidelines, viewer sensitivity is distinguished among project viewers in recreation, residential, commercial, and office/industrial areas, with the first considered to have relatively high sensitivity, the second to have moderate sensitivity, and the latter two to have low sensitivity. Activities can either encourage a viewer to observe the surrounding area more closely (scenic driving) or discourage close observation (commuting in heavy traffic). All of these viewer elements were considered when evaluating expected viewer response.

The selection of typical views was made based on the major viewer groups potentially affected by the project in both the current undeveloped condition and the future built condition, and considering the type of planned roadway improvement. Four key views were selected for analysis. Visual changes or impacts within the study area were evaluated by viewing the existing visual character of the landscape from each typical view and assessing the degree to which construction of the bridge would change those views.

The evaluation of visual changes or impact within the study area was made based on an assessment of the existing visual character of the landscape seen from each key view and the degree to which the proposed project would change or contrast with the existing (or anticipated) view from that location. The existing quality or character of views was determined by evaluating three visual elements – vividness, intactness, and unity. The determination of impact considered the existing quality of the key, as well as the number

and sensitivity of viewers. An evaluation of how the proposed alternatives would conform to pertinent City planning documents is also provided.

Section 2 documents the existing visual resources and types of viewers within the project area viewshed. The degree of visual change that is expected to result from construction of the bridge and an analysis of potential impacts is provided in Section 3, along with a summary of visual effects. Mitigation measures are recommended in Section 4. Section 5 lists the references used for this report and the individuals involved in its preparation.

2 VISUAL ENVIRONMENT

2.1 Project Viewshed

The FHWA Handbook defines the viewshed as: "the surface area visible from a given viewpoint or series of viewpoints: it is also the area from which that viewpoint or series of viewpoints may be seen. Put another way, a viewshed is a tool for identifying the views that a project could actually affect" (FHWA 1981 p.26). For the Cross Valley Connector East Project, the project viewshed includes areas on the east, south, and west of the proposed alignment. The project will also be visible from the Castaic Lake Water Agency to the north; however, this view will not be accessible to the public. Further west, views of the road from residences located north of the proposed alignment will be obstructed by topography.

Along the eastern segment of the alignment, to the east of Golden Valley Road, commercial/industrial land uses dominates the adjacent property. A recycling facility, supply yard, and industrial buildings have been identified. Commercial land uses continue along both the north and south side of Soledad Canyon Road, south of the proposed alignment. An MTA facility is located south of the midpoint of the alignment.

Residential land uses are more developed on the eastern portion of the alignment, becoming more dense 0.8 kilometer (0.5 mile) and beyond past the eastern terminus of the alignment. The residential development east of the Golden Valley Road portion of the project is located beyond the commercial/industrial land uses. Residential land use is sparse south of Soledad Canyon Road, and the residential development northwest of the alignment is blocked by hillsides.

A portion of the Santa Clara River is designated as Open Space in the City's General Plan. However, the areas within the river and adjacent to the proposed alignment are not open to the public. No other recreation/open space areas are designated in the vicinity of the project. Although the site provides visual relief from the surrounding developed area, there are no recreational opportunities available. The Santa Clara River is designated as a Significant Ecological Area, and is designated as a natural, wild river.

Roadways to the east of the project – Sierra Highway, Soledad Canyon Road, and SR-14 – are located nearly 4.8 kilometers (3 miles) east of the alignment. Soledad Canyon Road is currently a heavily traveled, 4-lane roadway that accommodates a steady flow of automobile, bus, and truck traffic. Bouquet Canyon Road is a four-lane heavily traveled road on the west end of the project. On much of the roadways, it is not possible to have distant views of the road, particularly on the southern portion, due to the numerous buildings and vegetation blocking the view. Views are temporary because of the transitory nature of the traffic.

Vegetation types surrounding the project area consist primarily of wetland/riparian communities and upland scrub communities. Five upland communities border the wetlands within the biological study area

including Venturan coastal sage scrub, alluvial fan sage scrub, mainland cherry forest, Great Basin mixed scrub, and chenopod scrub. The five wetland/riparian habitats that occur are southern riparian scrub, southern willow scrub, southern cottonwood willow riparian forest, mule fat scrub, and freshwater marsh. The remaining habitats present in the project area are nonnative and disturbed habitats. These habitats are described as nonnative grassland, nonnative woodland, ruderal, ornamental, developed, and disturbed habitat.

The quality of views of the project site from surrounding areas varies from one location to another within the viewshed for many reasons: the low elevation and a low profile of most of the roadway; the undulating terrain; the urbanized level of development within 0.4 kilometer (0.25 mile) of the alignment; the mature vegetation growth on the hillsides and in the Santa Clara River; and the visible views of the alignment from some elevated roadways. Unobstructed views of the alignment are restricted to motorists and pedestrians on surrounding roadways, commercial establishments south and southwest of the project site, the mobile home park south of the roadway, and elevated residences southeast of the alignment. Views from surrounding residential areas are generally partially to completely blocked by vegetation, hillsides, or buildings.

Future Planned Land Uses: Riverpark Housing Development

NLFC has proposed a residential, recreation, and open space development approximately bounded by the proposed roadway on the north and east, the Santa Clara River on the south, and Bouquet Canyon Road on the west. The tentative plans for the development encompass 281 hectares (695 acres) residential and commercial uses. This would enable construction of 1,183 dwelling units, including 439 single-family and 744 multi-family units, and up to 40,000 square feet of commercial uses (City of Santa Clarita 2004b).

2.2 Landscape Units

Land uses and topographic patterns have created a patchwork of areas, each with a distinct character and viewer type. In accordance with Visual Impact Assessment of Highway Projects (FHWA 1988), two landscape units have been identified for the existing environment: Developed and Undeveloped Units.

Developed Unit – This unit includes all land which has permanent structures associated with it. The commercial area adjacent to the western terminus of the project, and the mobile homes and commercial areas adjacent to the eastern terminus are included in this unit.

Undeveloped Unit – This unit includes disturbed and natural lands which do not have permanent structures associated with them. In the vicinity of the project site, this includes the Santa Clara River and natural areas surrounding it.

2.3 Viewer Types and Anticipated Viewer Response

Within the two landscape units, viewer types include residents, consumers at commercial establishments, industrial workers, and motorists. The only residential development that has an unobstructed view of the proposed alignment project would be the Greenbrier mobile home park. There are 316 mobile homes at this park, many of which would be affected by direct views onto the site of the proposed project during and after construction. Such views would be tempered by foreground fences and some vegetation. Additionally, employees and visitors to the commercial and industrial premises in the vicinity of the proposed project would likewise experience views of the road, both while under construction and during operations.

Motorists along Soledad Canyon Road and Bouquet Canyon Road will have middle-ground views of the roadway, periodically obstructed by intermediate buildings, vegetation, and topography. Roadways surrounding the proposed project currently operate at poor levels of service (LOS) during peak hours. The intersections of Bouquet Canyon Road/Newhall Ranch Road and Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard currently operate at between LOS C and D during the weekday morning peak hour, and between D and F during the evening peak hour (KOA 2004 p.6). Such extended delays would increase exposure to views of the proposed project by motorists on these roads, although the distance between the motorists and the proposed project would diminish the apparent magnitude of the views.

In the future, the viewshed may include extensive residential development, open space, and recreational opportunities. In this case, many residents would have a view of the roadway. Fencing and screening through tree planting, as recommended in the Aesthetics Guidelines (City of Santa Clarita 2004a),

3 VISUAL IMPACTS

3.1 Visual Impacts

Visual resources are defined as the natural and manufactured features that comprise the aesthetic qualities of an area. These features form the overall impression than an observer receives of an area or its landscaped character. Landforms, water surfaces, vegetation, and manufactured features are considered characteristic of an area if they are inherent to the structure and function of the landscape.

The effect of a change in visual character is influenced by social considerations, including public value placed on the resource, public awareness of the area, and general community concern for visual resources in the area. These social considerations are addressed as visual sensitivity and are defined as the degree of public interest in a visual resource and concern over adverse changes in the quality of that resource.

Visual impacts may be associated with changes in either the human-made or natural environment and can be short or long term in duration. The presence of grading activities and heavy machinery (e.g., large trucks, bulldozers, cranes) during construction of the project is considered a short-term visual impact. Long-term changes are associated with altering the natural topography; building permanent structures (e.g., buildings, bridges, walls); and removing vegetation, including mature trees. The focus of this analysis is on long-term physical changes that are permanent in nature.

The evaluation of visual effects is very subjective and depends upon the degree of alteration, the scenic quality of the area disturbed, and the sensitivity of the viewers. The degree of alteration refers to the extent of change to the natural landform and the introduction of urban elements into an existing natural environment, while acknowledging any unique topographical formations or natural landmarks. Scenic quality is often indicated by special zoning and planning overlay zones. Sensitive viewers are those who utilize the outdoor environment or value a scenic viewpoint to enhance their daily activity and are typically residents, recreational users, or motorists in scenic areas. Changes in existing landscape where there are no identified scenic values or sensitive viewers are not considered adverse. It is also possible to acknowledge a visual change as possibly adverse but not a substantial adverse effect if viewers are not sensitive or the surrounding scenic quality is low.

The following impact analysis addresses construction impacts and operational impacts of the proposed roadway extension and all associated project alternatives.

3.2 Typical Views

Four key views were chosen to evaluate the existing view and the proposed view resulting from the roadway extension (Table 1). The four locations were chosen based on locations that are accessible to the public, including residential locations (Figure 4).

Table 1 Key Views

Key View	Location	Viewer Type	Alignment Features Visible	Relevant Figures
1	View north from mobile home park, south of the proposed roadway	Residents	Golden Valley Road and Newhall Ranch Road extension and bridge	5
2	View north from Soledad Canyon Road	Customers, Commuters	Newhall Ranch Road extension and bridge	6
3	View south from the CLWA property	Customers, Recreational	Newhall Ranch Road extension	7, 8
4	View east from Newhall Ranch Road/Bouquet Canyon Road intersection	Customers	Newhall Ranch Road extension	9, 10

These key views were chosen based on vantage points surrounding the project that are visible to citizens and employees in their places of residence or employment, or from the roadway system. There is no key view of the project area facing south because the northern portion of the project consists of hillsides that prevent public views of the project area. It is important to assess how the viewpoints would change for the residents and visitors of Santa Clarita as a result of the proposed project.

For the purposes of this Visual Impact Assessment, sight distance is defined as: foreground (0 – 0.4 kilometer [0 – 0.25 mile]); middle ground (0.4 – 4.8 kilometers [0.25 – 3 miles]); and background (4.8 kilometers [3 miles] and farther).

3.3 Impacts to Viewers

The visual impacts of the proposed project to area viewers were determined based upon the following criteria:

- The existing visual quality of the key views as evidenced by the degree of vividness, intactness, and unity associated with each of the existing settings.

- The degree of change to the existing setting based upon the types of roadway structures that would be viewed; the sensitivity of the viewer; the degree to which these features would obstruct, diminish, or dominate existing view qualities; and the potential for landscape treatment or other mitigation to improve visual quality. Computer-generated perspective plots and cross-sections were used to aid in this evaluation.

The FHWA evaluation methodology consisted of ranking the existing quality of views according to high, moderate, and low levels of vividness, intactness, and unity. These three qualities are defined below:

Insert Figure 5

Insert Figure 6

Insert Figure 7

Figure 7
Key View 3: Facing South from the CLWA Property

Figure 8
Key View 3 Simulation: Newhall Ranch Road from the CLWA Property

Figure 9
Key View 4: Facing East from Newhall Ranch/Bouquet Canyon Road Intersection

Figure 10
Key View 2: Facing North from Soledad Canyon Road

- Vividness – The memorability of the visual impression received from contrasting landscape elements as they combine to form a striking and distinctive visual pattern.

- Intactness – The integrity of visual order in the natural and man-built landscape, and the extent to which the landscape is free from visual encroachment.

- Unity – The degree to which the visual resources of the landscape join together to form a coherent, harmonious visual pattern. Unity refers to the compositional harmony or intercompatibility between landscape elements.

Viewer response to the changes in the visual resources at the four key views was assessed using the following criteria:

Low- Minor adverse change in visual quality caused by the project only slightly affecting the resource, or the viewers are not sensitive to change, or the viewers are at a great distance from the change.

Medium- Major adverse change caused by the project in visual quality. Landscape treatment or other mitigation measures would improve the visual quality.

Medium-High- Major change caused by the project in visual quality due to large change in the resource as seen by sensitive viewers. Major landscape treatment or other mitigation measures will be required and may take longer than three years to mitigate.

High- Major change in visual quality caused by the project to the extent that landscape treatment or other measures cannot mitigate the problem. An alternative solution may be required.

The final determination of significance considered the existing visual quality and the anticipated viewer response. Table 2 summarizes the assessment rankings for all four key views.

Table 2 Summary of Visual Impact Assessment

Key View	Existing Visual Conditions			Viewer Response	Significance Determination
	V	I	U		
1	L	L	L	Low	Not Significant
2	L	L	L	Low	Significant
3	M-H	H	M	High	Potentially Significant
4	L	L	L	Low	Not Significant

V = Vividness; I = Intactness; U = Unity
L = Low; M = Medium; M-H = Medium-High; H = High

3.3.1 Key View No. 1 – View North from Mobile Home Park, South of the Proposed Roadway

Key View 1 (Figure 5) represents the scene that is viewed by residents of the mobile home park on Soledad Canyon Road as they look northward, toward the slopes behind the mobile home park. Foreground views encompass the mobile home park, and middle- to background views of the Los Angeles Aqueduct, which transects the project site. The slopes consist of scattered scrub vegetation.

Alternative 1: No Action Alternative

Under the No Action Alternative, the view from this location would not change. The degree of vividness, intactness, and unity would remain as at the present.

Alternative 2: Alignment No. 1

Residential properties lie to the south of this location, such that typical viewers of this scene would include residents of the mobile home park. At present, the foreground encompasses the mobile home park, while the middle ground views include the Los Angeles Aqueduct amidst slopes covered in sparse scrub. Under Alternative 2, these features would still be visible, with the addition in the middle ground of the proposed roadway as it inclines toward the north-west.

From this view, the roadway would rise toward the northwest. Beyond the aqueduct, the roadway would be concealed from view behind the adjacent slopes. A large fill slope below the roadway would be evident from this view; however, the higher elevation of the roadway would largely obscure the road bed surface from visibility. Consequently, the road itself would not be particularly vivid, although the fill slope would be a somewhat memorable feature in the landscape. The intactness of this landscape is already reformed by the presence of the Los Angeles Aqueduct, which the roadway would cross at right-angles, and foreground views of the mobile home park. Consequently, intactness and unity are already relatively disturbed. Although the roadway would constitute an additional man-made feature within the view, the presence of other non-natural features would lessen the incremental change in visual quality due to the road. Consequently, the vividness, intactness, and unity of this view would be affected only in a minor way by the presence of the proposed roadway.

Alternative 3: Alignment No. 2

At this locality, Alternative 3 would be identical to Alternative 2; hence, the effects for Alternative 3 would be identical to those for Alternative 2. Issues of vividness, intactness, and unity would be similar to that explained for Alternative 2.

Alternative 4: Alignment No. 3

At this locality, Alternative 4 would be identical to Alternative 2; hence, the effects for Alternative 4 would be identical to those for Alternative 2. Issues of vividness, intactness, and unity would be similar to that explained for Alternative 2.

3.2.2 Key View No. 2 – View North from Soledad Canyon Road

Key View 2 (Figure 6) shows a view from Soledad Canyon Road to the north toward the proposed project alignment. The foreground encompasses Soledad Canyon Road and the adjacent sidewalk. Views of the Santa Clara River are obscured from this vantage point, as the topography drops off immediately beyond the edge of Soledad Canyon Road. Distant views of the Castaic Lake Water Authority facilities are visible from this location. Views of the project site from this location are generally transient, being experienced predominantly by passing motorists using Soledad Canyon Road.

Alternative 1: No Action Alternative

Under the No Action Alternative, the view from this location would not change. The degree of vividness, intactness, and unity would remain as at the present.

Alternative 2: Alignment No. 1

Typical viewers of this scene would include passing motorists, particularly those exiting the Park and Ride facility for which these traffic lights were installed. Occasional pedestrians may also experience this view toward the north, as they wait to cross Soledad Canyon Road. From this locality, the proposed roadway alignment would be visible below the ridgeline, paralleling Soledad Canyon Road. The majority of typical viewers are anticipated to be passing motorists; hence, the view of a roadway is not anticipated to be particularly memorable. The distance from this view point also diminishes the road's vividness. As the road would be at approximately the same elevation as Soledad Canyon Road and located at a distance of more than 1 kilometer (0.6 mile) from this viewpoint, cut and fill slopes would be more noticeable than the road itself. Such slopes may lessen the degree of intactness between the roadway and the current landscape, although the road would parallel the long, horizontal lines of Soledad Canyon Road and the ridgeline, contributing both to the intactness and unity of the view. Consequently, the vividness would be somewhat affected, though the intactness and unity may be enhanced by the presence of the proposed roadway.

Alternative 3: Alignment No. 2

At this locality, Alternative 3 would be identical to Alternative 2; hence, the effects for Alternative 3 would be identical to those for Alternative 2. Issues of vividness, intactness, and unity would be similar to that explained for Alternative 2.

Alternative 4: Alignment No. 3

At this locality, Alternative 4 would be identical to Alternative 2; hence, the effects for Alternative 4 would be identical to those for Alternative 2. Issues of vividness, intactness, and unity would be similar to that explained for Alternative 2.

3.3.3 Key View No. 3 – View South from the CLWA Property

Key View 3 (Figure 7) represents the view toward the south/south-west from the CLWA property. The view is at a higher elevation than the proposed project site, which roughly follows the existing grading. Sparse, low-lying vegetation makes up the rest of this scene. The distance to residential and commercial facilities in the background diminishes their overall impact on the scene, further contributing to the impression of an otherwise largely natural setting.

Alternative 1: No Action Alternative

Under the No Action Alternative, the view from this location would not change. The degree of vividness, intactness, and unity would remain as at the present.

Alternative 2: Alignment No. 1

Typical viewers would include staff and visitors to CLWA. Figure 8 provides a visual simulation of the proposed roadway from this location, showing the surface of the proposed roadway, which crosses the view at an oblique angle. Landscaping associated with the proposed project, the bike lane, and pedestrian paths would also be visible from this location. Construction of the proposed roadway would require removal of existing vegetation and disturbance of a relatively intact view. The fill slopes on the far side of the proposed roadway would not be evident from this view.

The proposed roadway would constitute an obvious feature in this landscape, as it represents a new, non-natural feature in the midst of a relatively natural scene. The existing graded surface is somewhat intrusive (see Figure 7), rendering it more prominent and diminishing the proposed roadway's unity within this setting. This in turn contributes to the degree to which the proposed roadway would be memorable. The proposed roadway would also disrupt the intactness by intruding upon the scene. Vividness, intactness, and unity of the view from this location would therefore all diminish with the proposed project.

Alternative 3: Alignment No. 2

At this locality, Alternative 3 would be identical to Alternative 2; hence, the effects for Alternative 3 would be identical to those for Alternative 2. Issues of vividness, intactness, and unity would be similar to that explained for Alternative 2.

Alternative 4: Alignment No. 3

At this locality, Alternative 4 would be identical to Alternative 2; hence, the effects for Alternative 4 would be identical to those for Alternative 2. Issues of vividness, intactness, and unity would be similar to that explained for Alternative 2.

3.3.4 Key View No. 4 – View East from Newhall Ranch Road/Bouquet Canyon Road Intersection

View 4 (Figure 9) shows the view toward the east from the western terminus of the proposed project alignment. From this location, the immediate foreground currently includes asphalt, while sparse vegetation coverage and a winding asphalt road form the middle-ground views. The background consists of ridgelines and the distant hills. The scene is typical of that across much of Santa Clarita and, although pleasant, is not particularly memorable or unusual. The continuity of an otherwise natural scene in the foreground is interrupted by littered trash and the winding, asphalt road, which encroach visually on the integrity of the scene.

Alternative 1: No Action Alternative

Under the No Action Alternative, the view from this location would not change. The degree of vividness, intactness, and unity would remain as at the present.

Alternative 2: Alignment No. 1

Typical viewers of this scene include residents and employees at the commercial center, located immediately adjacent to the western terminus of the proposed project. Future users of the proposed roadway would also experience the roadway from this vantage point, as illustrated in the simulation in Figure 9. From this viewpoint, the proposed roadway would be a memorable feature of the landscape as the primary viewers would be motorists. The proposed landscaping, as outlined in the Cross Valley Connector Aesthetics Guidelines (see Section 1.3, above) would incorporate landscaping to ensure the road would be aesthetically appealing and would blend into the surrounding communities. The conceptual-level landscaping depicted in the Figure 10 simulation would enhance the local landscape, contributing to a positive impression of the proposed roadway. The Aesthetics Guidelines would also ensure the intactness and intercompatibility of the proposed project with surrounding communities. Consequently, although the proposed project would constitute a substantial change from this viewpoint, it would enhance the vividness, intactness, and unity of the scene for roadway users, local residents, and employees.

Alternative 3: Alignment No. 2

At this locality, Alternative 3 would be identical to Alternative 2; hence, the effects for Alternative 3 would be identical to those for Alternative 2. Issues of vividness, intactness, and unity would be similar to that explained for Alternative 2.

Alternative 4: Alignment No. 3

At this locality, Alternative 4 would be identical to Alternative 2; hence, the effects for Alternative 4 would be identical to those for Alternative 2. Issues of vividness, intactness, and unity would be similar to that explained for Alternative 2.

3.4 Summary of Visual Effects

The proposed project would entail the extension of Newhall Ranch and Golden Valley Roads, and the construction of two bridges over the Santa Clara River and the Los Angeles Aqueduct. Such features, traversing a relatively natural setting, would have both negative and positive effects on the scenic quality of the immediate area. Negative effects include the intrusive nature of a bridge structure over the natural channel of the Santa Clara River, and the necessity of large cut and fill slopes. Positive effects include the replacement with landscaped surfaces that provide a consistent theme throughout the project corridor and link cohesively to surrounding communities.

4 MITIGATION MEASURES

4.1 Alternative 1: No Build

There would be no impacts associated with the No Build Alternative; therefore, no mitigation is necessary.

4.2 Alternatives 2, 3, and 4 (Build Alternatives)

The proposed project would entail extension of Newhall Ranch and Golden Valley Roads, and construction of two bridges over the Santa Clara River and the Los Angeles Aqueduct. Such features, traversing a relatively natural setting, would have both negative and positive impacts on the scenic quality of the immediate area. The following measures are proposed to minimize the visual impact of the proposed project. These measures would apply to all three Action alternatives.

1. The bridges over the Santa Clara River and the Los Angeles Aqueduct shall be textured and/or stained with muted colors to diminish stark contrasts with the existing setting.

2. To the extent consistent with the Cross Valley Connector Aesthetics Guidelines, retaining walls shall be textured, patterned, and/or colored, and shall include landscape elements, to reduce their visual scale and assist their visual blending with the existing environment.

3. The extent of cut and fill slopes shall be minimized. Where cut and fill slopes are needed, appropriate visual attenuation shall be achieved through use of texturing and/or muted colors, consistent with the Cross Valley Connector Aesthetics Guidelines.

4. Landscaping shall be consistent with the requirements of the Cross Valley Connector Aesthetics Guidelines.

5 REFERENCES/LIST OF PREPARERS

5.1 References

City of Los Angeles, Department of Water and Power (LADWP)

2004 Los Angeles Aqueduct Facts, online at http://wsoweb.ladwp.com/Aqueduct/historyoflaa/aqueductfacts.htm, viewed September 2, 2004.

City of Santa Clarita (City)

2004a Cross Valley Connector Aesthetics Guidelines, May.

2004b Riverpark Draft Environmental Impact Report/Environmental Impact Statement SCH 2002091081, prepared by Impact Sciences Inc., March.

2001 Santa Clarita Beautification Master Plan, December 11.

1997 Circulation Element Amendment, June.

1991 City of Santa Clarita General Plan.

U.S. Department of Transportation, Federal Highway Administration

1981 Visual Impact Assessment for Highway Projects. March.

5.2 List of Preparers

This Visual Impact Assessment was prepared by EDAW Inc. for the City of Santa Clarita, the FHWA, and Caltrans District 7. The professional staff listed below were principally responsible for preparing the Visual Impact Assessment.

Bill Graham – Principal, MCP Urban and Regional Planning, 20 years of experience
Jennifer Dean – Visual Analyst, B.A. in Geography and Planning, 5 years of experience

Golden Valley Road Bridge Location Hydraulic Study

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GOLDEN VALLEY ROAD BRIDGE LOCATION HYDRAULIC STUDY

1.0 EXECUTIVE SUMMARY

This Location Hydraulic Study was prepared for the City of Santa Clarita for the purpose of determining the impacts to the Santa Clara River from the construction of the Golden Valley Road Bridge.

Previous to this report, a separate study was performed by Pacific Advanced Civil Engineering, Inc. (PACE) titled *River Park Drainage Concept Report Soil Cement Bank Protection- Santa Clara River,* dated August 2004. The study consisted of analyses for potential bank protection downstream of the proposed Golden Valley Road Bridge. Beginning with PACE's analysis and extending the floodplain study further upstream, it was determined that the Golden Valley Road Bridge would raise flood levels by a maximum of 0.9 ft. The rise would lower back into existing conditions 1000 ft upstream and 700 ft downstream of the proposed bridge. All water surface elevations (WSE) and topography contained herein are based on the North American Vertical Datum 1988 (NAVD88).

2.0 PURPOSE OF STUDY

The intent of this study was to quantify impacts to the Santa Clara River due to the construction of the proposed Golden Valley Road Bridge. The study addresses the following:

1.) The Santa Clara River channel 100-year floodplain as it presently exists.
2.) The Santa Clara River channel 100-year floodplain after the construction of the Golden Valley Road Bridge.
3.) Risk assessment associated with any possible encroachment, including impacts on natural and beneficial floodplain values, probable incompatible floodplain development, and special mitigation measures needed (if any) to minimize impacts to the floodplain.

A scour study prepared by Dokken Engineering titled *Golden Valley Road Bridge Scour Study*; March 31, 2005 has incorporated standards from the Los Angeles Flood Control District, Hydraulic Design Manual to determine scour depths and freeboards, in accordance with local floodplain requirements.

3.0 PROJECT LOCATION AND VICINITY MAP

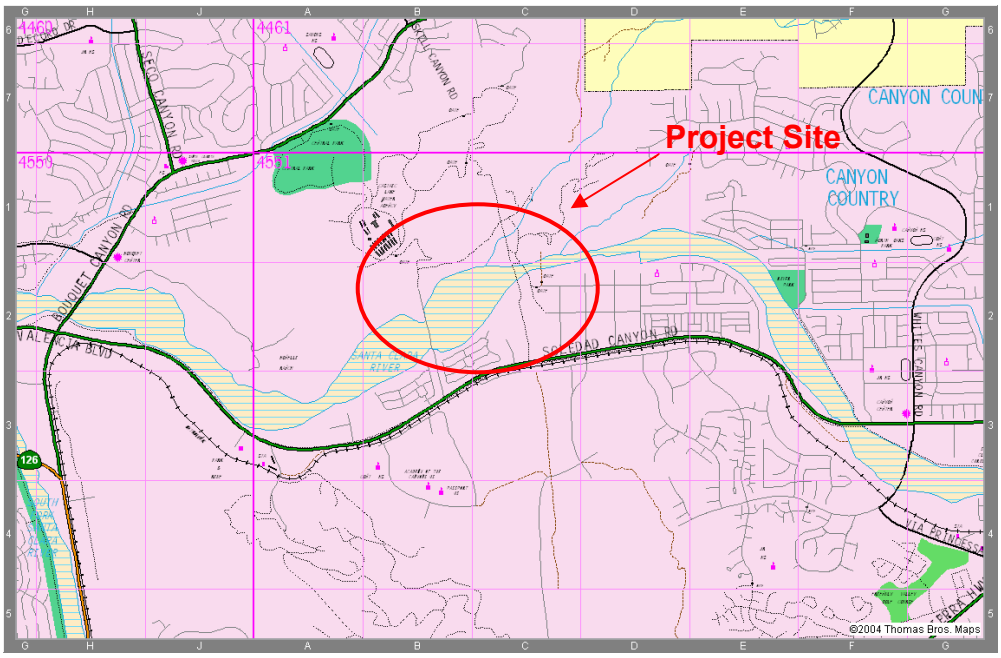


Figure 1: Project Site

The project site is located in central Santa Clarita, CA. North of the project are undeveloped hillsides and the Castaic Lake Water Agency Rio Vista Treatment Plant. Immediately south and to the west of the river, land uses are primarily commercial and residential.

4.0 DESCRIPTION OF BASIN

The total Santa Clara River Basin encompasses 1,634 square miles, consisting primarily of vacant land and unlined river banks. The river lies within the jurisdiction of the Los Angeles County Department of Public Works (LACDPW).

Annual rainfall in this region is approximately 17 inches. Nearly all rainfall in the area occurs from December through March. Precipitation during the summer is infrequent except for the occasional short-duration thunderstorms with major storms occasionally lasting for 4 days or longer.

A document entitled *Geologic and Geotechnical Report, Review of Tentative Tract Map (Dated February 25, 2003), Tentative Tract 53425 River Park Volume I* was completed by Allan E. Seward Engineering Geology, Inc. on April 4, 2003. The document reports recent river-channel deposits in the major tributaries of the Santa Clara River. Based on boring samples obtained for the project, the alluvial deposits consist of interbeds of sandy, silty, and clayey soils with limited inclusion of coarser soils.

5.0 FLOODPLAIN MODELING METHODOLOGY

HYDRAULIC/FLOODPLAIN ANALYSIS

According to the FEMA Flood Insurance Rate Map (FIRM) number 060729 0345C dated September 9, 1989, for the Unincorporated Areas of Los Angeles County, California, the project site lies within a Zone A floodplain. Zone A is defined as an area within the 100-year floodplain, determined by approximate means. Because detailed hydraulic analyses have not been performed for such areas, base flood elevations have not been established.

5.1 HEC-RAS PROGRAM

HEC-RAS River Analysis System v3.1.2 was used to model the Santa Clara River and proposed bridges. HEC-RAS is a graphically based computer program developed by the U.S. Army Corps of Engineers Hydrologic Engineering Center. Input required by the software includes channel cross sectional geometry, channel roughness coefficients, starting water surface elevation, and discharge.

5.11 Cross Sectional Geometry

Cross sections 155-172 of PACE's study were used to model the downstream river and a portion of the upstream section of the river. Cross sections 173 and 174 were created and placed 400 ft upstream, allowing HEC-RAS to measures backwater effects up to 900 ft upstream of the bridge (See Appendix 'A'). These two cross sections were based on a topographic map provided by the County of Los Angeles Department of County Engineer Survey Division, National Geodetic Vertical Datum 1929 (NGVD29) titled *Topographic Map of Flood Plain Mapping Santa Clarita Valley*, March 1977. All elevations for this study were converted to North American Vertical Datum 1988 (NAVD88).

Bridges

Two proposed bridge alternatives are currently under development. Alternative 1 consists of 4 ft wide pier columns, spaced 125 ft apart and alternative 2 consists of 2.5 ft wide pier walls spaced at 185 ft (See Appendix 'A'). The pier widths were doubled from 4 ft to 8 ft and 2.5 ft to 5 ft for alternatives 1 and 2 respectively, to simulate potential clogging from floating debris. For the energy losses through the bridge, the energy (standard step) equation was used. This method allowed HEC-RAS to determine the highest possible energy loss under the bridge.

The two alternatives were modeled in HEC-RAS to determine the shortest allowable bridge lengths without raising the water surface elevation (WSE) above 1 ft and encroaching upon the FEMA 100-yr floodplain. It is the policy of FEMA that a floodplain may be encroached so long as the rise in flood level does not exceed 1 ft.

Contraction and Expansion Coefficients

Contraction and expansion coefficients of 0.1 and 0.3 respectively, were used at the cross sections upstream and downstream of the Golden Valley Road Bridge. These values are typically used where the change in river cross section is gradual. For the cross sections on the upstream and downstream faces of the bridge, contraction and expansion coefficients of 0.3 and 0.5 were used. These values were obtained from Table 3.3 of the *HEC-RAS River Analysis System, Hydraulic Reference Manual*, April 2004.

Ineffective Flow Areas/Levees

Areas in which water was not actively being conveyed were labeled as ineffective flow areas. For existing and proposed conditions, ineffective flow areas were used along the left overbank to account for building structures. However, for the proposed condition, the ineffective flow areas became narrower to account for the abutments on the overbanks (See Appendix 'A').

For the proposed model, levees were used at each of the abutments to prevent water from traveling around the bridge. This forced the full flow of the 100-yr flood to move directly under the bridge, and thus generate a minimum freeboard between the WSE and the bottom soffit of the bridge.

5.1.2 Manning's Roughness Coefficient

Each cross section contains a left over bank, main channel, and right over bank, which represent the different regions of the waterway in terms of roughness coefficients. The main channel represents the base of the river and the left and right slopes represent the overbanks. A Flood Insurance Study (FIS), dated September 9, 1989 for the City of Santa Clarita provided a roughness value (Manning's n value) of 0.06 for the overbanks and an n value of 0.03 for the main channel of the Santa Clara River.

5.1.3 Starting Water Surface Elevation

Normal depth was used for the starting WSE in HEC-RAS. The starting slope of the model was 0.01.

5.1.4 Discharge

According to the report performed by PACE, the peak 100-yr discharge for the Santa Clara River was 15,272 cfs. This value was used throughout the model to determine the rise in WSE upstream and downstream of the Golden Valley Road Bridge as well as any possible encroachment on the existing 100-yr floodplain.

6.0 HEC-RAS OUTPUT

As stated previously, the two bridge alternatives were designed to prevent the existing 100-yr floodplain from rising no more than 1 ft. With the inputted data, different bridge lengths were tested to determine the different rises in WSE. It was concluded that the minimum allowable bridge length for alternative 1 was 1,100 ft. Shortening the bridge any further would raise the WSE above the 1 ft limit. Alternative 2 allowed the bridge length to be adjusted from 1100 ft to 950 ft. The results for comparison are summarized in Figure 2 and Figure 3.

Figure 2: Bridge Descriptions

	Alternative 1	Alternative 2
No. of Bents	8 (Columns)	4 (Pier walls)
Bent Spacing	125 ft	185 ft
Pier Width	4 ft ⇒ 8 ft (doubled for debris)	2.5 ft ⇒ 5 ft (doubled for debris)
Bridge Width	125 ft	125 ft
Bridge Length	1100 ft	950 ft

Figure 3: Changes in Water Surface Elevation (FEMA 100-yr Floodplain)

Cross Section	Exist W.S. Elev (ft)	Alt 1 W.S. Elev (ft)	Δ WSE (Alt1-Exist) (ft)	Alt 2 W.S. Elev (ft)	Δ WSE (Alt2-Exist) (ft)
174	1282.84	1282.84	0	1282.84	0
173	1277	1277	0	1277	0
172	1273.81	1273.81	0	1273.81	0
171	1271.78	1271.4	-0.38	1271.4	-0.38
170	1269.06	1269.06	0	1269.49	0.43
169	1267.64	1267.99	0.35	1268.28	0.64
168	1267.03	1267.1	0.07	1267.16	0.13
167	1265.91	1266.15	0.24	1266.35	0.44
166*	1264.88	1265.72	0.84	1265.79	0.91
165.5**	1263.09	1263.46	0.37	1263.63	0.54
165	1262.36	1263.02	0.66	1262.8	0.44
164	1260.96	1261.37	0.41	1261.37	0.41
163	1260.08	1260.16	0.08	1260.2	0.12
162	1259.16	1259.16	0	1259.2	0.04
161	1257.46	1257.46	0	1257.47	0.01
160	1255.21	1255.21	0	1255.21	0
159	1253.91	1253.91	0	1253.91	0
158	1251.74	1251.74	0	1251.74	0
157	1249.75	1249.75	0	1249.75	0
156	1247.57	1247.57	0	1247.57	0
155	1244.61	1244.61	0	1244.61	0

* = Upstream face of Golden Valley Roadway Bridge
** = Downstream face of Golden Valley Roadway Bridge

The proposed bridge alternatives experienced changes in WSE which were lower than the existing WSE. This is attributed to factors associated with the topography of the main channel and the velocity of flow. At cross section 172, the geometry of the channel changes and the flow path becomes narrower (See Appendix 'A'). As a result, depths approached critical depth indicating a shift between subcritical and supercritical flow. To produce higher WSEs, the model was run strictly using subcritical flow.

6.1 Warning Messages

Warning messages were produced between cross sections 174 and 173, indicating that the cross sections were experiencing divided flow. These warnings are appropriate due to the nature of the topography of the developed and hilly area along the left side of the river. Other warnings indicated that the energy equation could not be balanced for cross sections 170-169 and 158-155. These messages are typical in areas where the flow path becomes narrower, increasing the velocity to supercritical.

Further warnings were generated at cross sections 172, 171 and 165-163, indicating that the energy loss was greater than 1 ft. The program recommended using additional cross sections to resolve the warnings. The interpolated cross section function of HEC-RAS was used to provide the extra sections needed. This feature allowed the changes in energy loss to occur in smaller increments.

7.0 RISK ASSESSMENT

Encroachment is defined by FEMA as "construction, placement of fill, or similar alteration of topography in the floodplain that reduces the area available to convey floodwaters," and by the Federal Highway Administration (FHWA) as "an action within the base floodplain" (*Environmental Handbook Vol. 1*). The construction of the Golden Valley Road Bridge encroaches upon and increases the elevation of the existing floodplain immediately upstream of the proposed bridge (See Appendix 'A'). However, the increase is minimal and will not exceed the FEMA 100-yr floodplain boundary.

7.1 FLOODPLAIN VALUES

The Environmental Handbook Vol.1, 2002 defines floodplain values as fish, wildlife, plants, open space, natural beauty, scientific study, outdoor recreation, agriculture, aquaculture, forestry, natural moderation of floods, water quality maintenance, groundwater discharge, etc. According to the *Environmental Impact Statement/Environmental Impact Report (EIS/EIR)*, dated August 1998, by the U.S. Army Corps of Engineers and the California Department of Fish and Game, the installation of bridges would cause both temporary and permanent impacts to floodplain values within the Santa Clara River. However, these habitats are mostly small and fragmented remnants of larger, previously undisturbed habitats, and are not likely to support self-sustaining wildlife or sensitive species. In addition, affects to these habitats can be mitigated

through the usage of controlled construction zones, restoration of disturbed streambeds, and temporarily relocating habitats.

8.0 CONCLUSION

Cross sectional data used to model the Santa Clara River was obtained from PACE's report. The proposed Golden Valley Road Bridge consisted of two bridge alternatives: alternative 1 and 2. In order to determine the minimum allowable bridge length, without increasing the water surface elevation by over a 1 ft, each bridge was ran in HEC-RAS using the 100-yr flood. It was determined that the minimum allowable bridge length for alternative 1 was 1100 ft. Alternative 2 allowed the bridge length to be adjusted to 950 ft while maintaining the 1 ft limit. Decreasing the length of each bridge any further would raise the water surface elevation above one ft and potentially infringe upon the existing FEMA 100-yr floodplain. The nature of the surrounding area consists of sparse and fragmented habitats. Therefore the construction of the Golden Valley Road Bridge will not cause any significant impacts to the floodplain values of the area.

9.0 REFERENCES

Allan E. Seward Engineering Geology, Inc., April 4, 2003. *Geologic and Geotechnical Report, Review of Tentative Tract Map (Dated February 25, 2003), Tentative Tract 53425 River Park Volume I.*

County of Los Angeles Department of County Engineer Survey Division, March 1977. *Topographic Map of Floodplain Mapping Santa Clarity Valley.*

Dokken Engineering, March 2005. *Advance Planning Study Alternative (APS) NO.1 &2 Cross Valley Connector.*

Dokken Engineering, March 2005. *Golden Valley Road Bridge Scour Study.*

Federal Emergency Management Agency, *Flood Insurance Rate Map,* September 1989. *City of Santa Clarita, California Los Angeles County*, Panel Number 060729 0345C

PACE, Pacific Advanced Civil Engineering, August 2004. Drainage Concept Report for River Park *Santa Clara River Soil Cement Bank Protection.*

Thomas Guide, 2004. *Los Angeles County and Orange County.*

U.S. Army Corps of Engineers, Los Angeles District Regulatory Branch & California Department of Fish and Game, Region 5, August 1998. *Environmental Impact Statement/Environmental Impact Report.*

U.S. Army Corps of Engineers, Hydrologic Engineering Center, April 2004 *HEC-RAS River Analysis System, Hydraulic Reference Manual.*

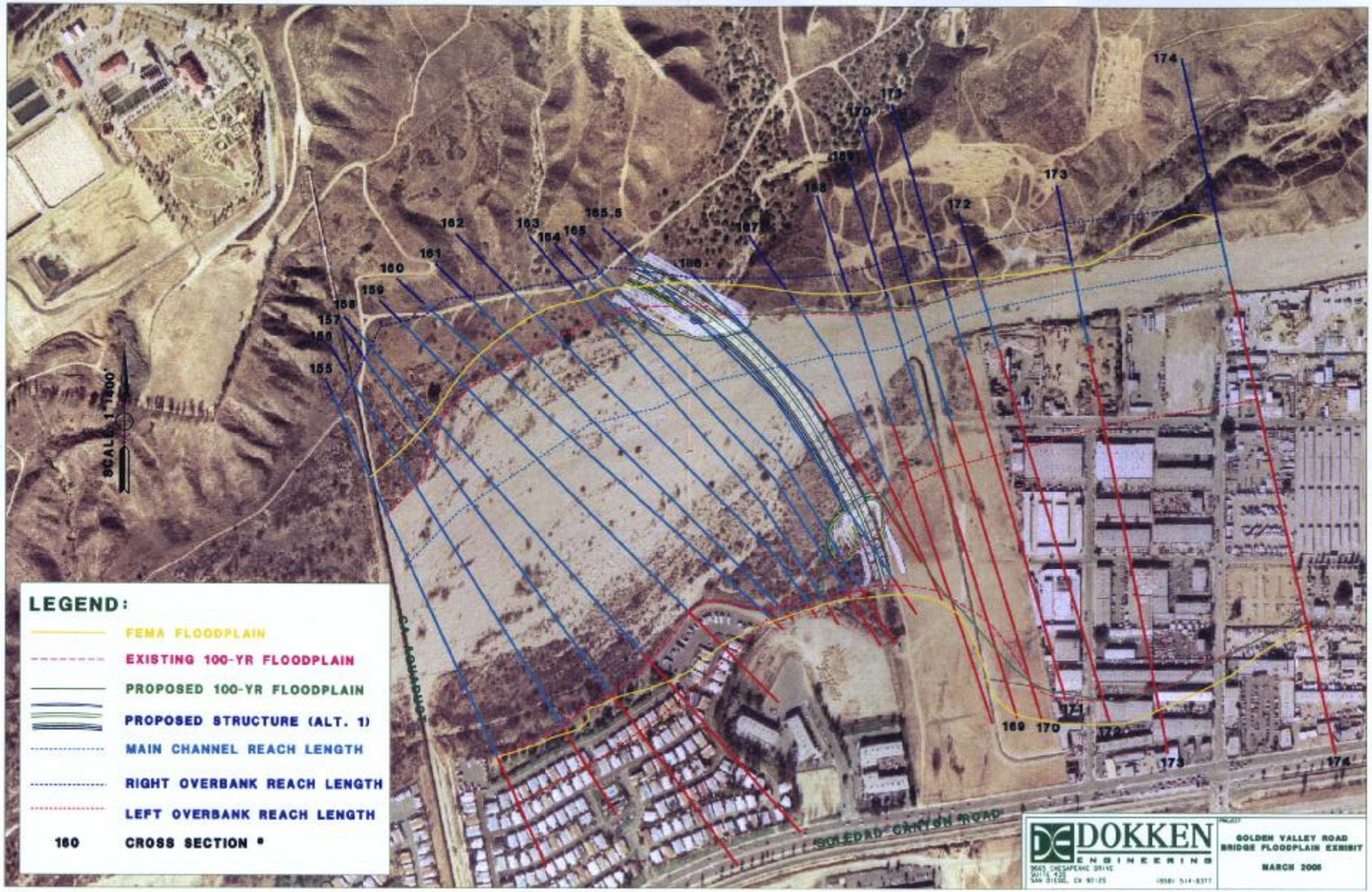
APPENDIX 'A'

Floodplain Exhibit

Ineffective Flow Area Exhibit

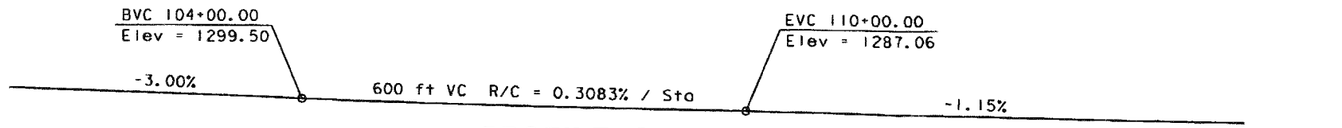
Bridge Advanced Planning Study (APS)

Flood Insurance Rate Map (FIRM)


LEGEND:
FEMA FLOODPLAIN
EXISTING 100-YR FLOODPLAIN
PROPOSED 100-YR FLOODPLAIN
PROPOSED STRUCTURE (ALT. 1)
MAIN CHANNEL REACH LENGTH
RIGHT OVERBANK REACH LENGTH
LEFT OVERBANK REACH LENGTH
160 CROSS SECTION #
SCALE: 1" = 200'
SOLEDAD CANYON ROAD
155
156
157
158
159
160
161
162
163
164
165
165.5
166
167
168
169
170
171
172
173
174
DOKKEN ENGINEERING
9665 CHESAPEAKE DRIVE
SUITE 430
SAN DIEGO, CA 92123
(858) 514-8377
PROJECT
GOLDEN VALLEY ROAD
BRIDGE FLOODPLAIN EXHIBIT
MARCH 2005

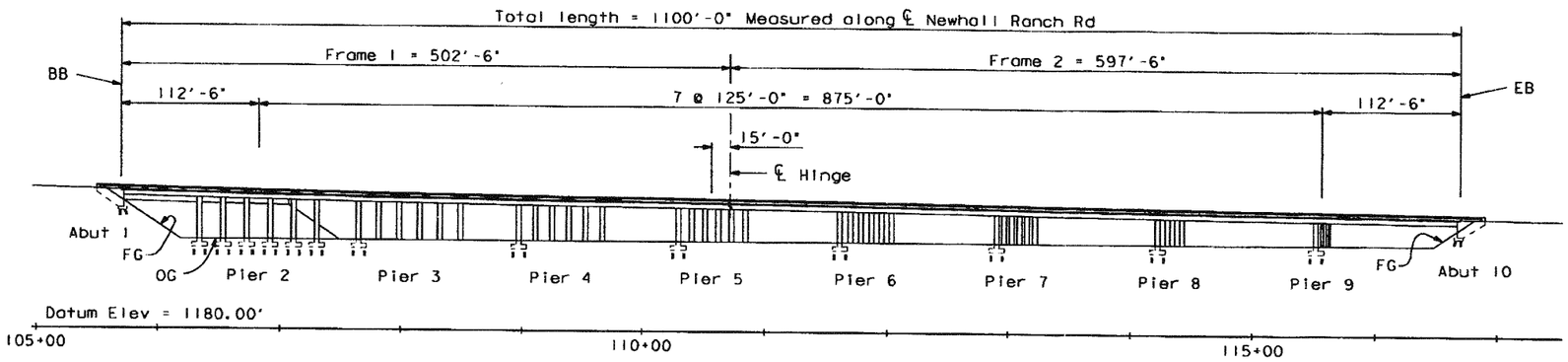
LEGEND:
PROPOSED INEFFECTIVE FLOW AREA
EXISTING INEFFECTIVE FLOW AREA
BOULEVARD/CANYON ROAD
SCALE: 1" = 400'
DOKKEN ENGINEERING
3865 CHESAPEAKE DRIVE
SUITE 100
SAN DIEGO, CA 92123
(858) 514-8311
PROJECT
GOLDEN VALLEY ROAD BRIDGE
INEFFECTIVE FLOW AREA
EXHIBIT
MARCH 2006

Date of estimate	=	1-20-05
Structure depth	=	5'-0"
Length	=	1100'-0"
Width	=	124'-10"
Area	=	137,316 sq ft
Cost/ □ ft Including 10% mobilization & 10% contingency	=	$128.00
Total Cost	=	$17,570,000



PROFILE GRADE

No Scale



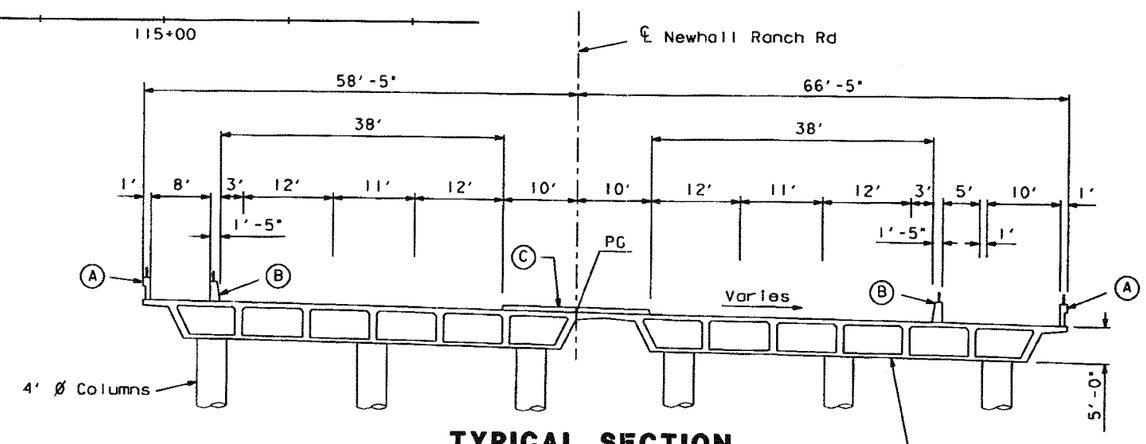
LEGEND

- (A) Concrete Barrier Type 26 (Mod) w/ Tubular Hand Railing
- (B) Concrete Barrier Type 732 w/ Tubular Hand Railing
- (C) Raised median
- (D) Structure Approach Type N(30S)

Assume all piles are driven steel H piles

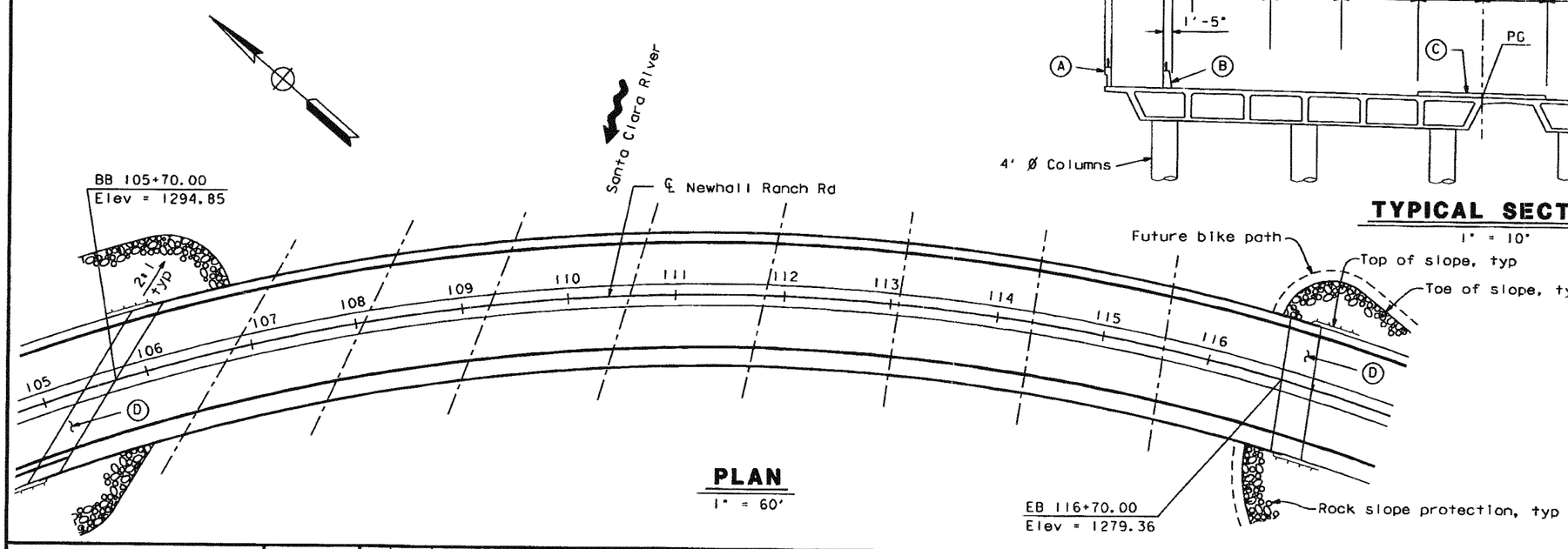
DEVELOPED ELEVATION

1" = 60'



TYPICAL SECTION

1" = 10'



PLAN

1" = 60'

ALTERNATIVE 1

DOKKEN ENGINEERING

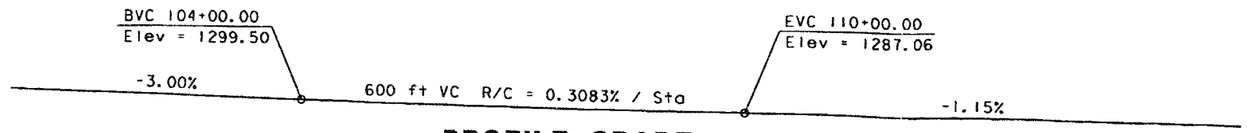
DES.	CT
DR.	CH
CHK.	
APPD.	

NO.	DATE	REVISION	BY	APPD

ADVANCE PLANNING STUDY
CROSS VALLEY CONNECTOR

SHEET	1
OF	3
DATE	1-20-05
DWG. NO.	

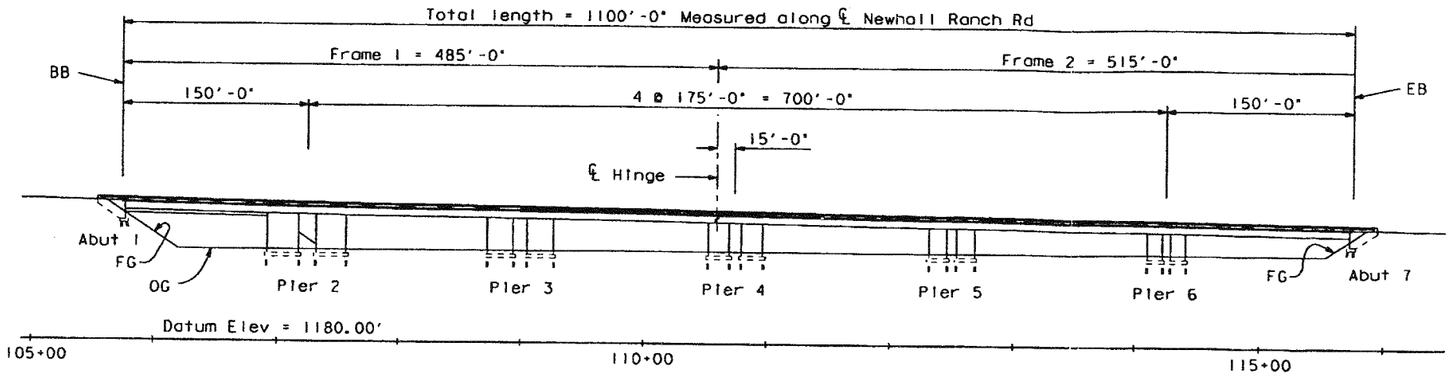
...\1418apsa.dgn



PROFILE GRADE

No Scale

Date of estimate	=	1-20-05
Structure depth	=	6'-9"
Length	=	1000'-0"
Width	=	124'-10"
Area	=	124,833 sq ft
Cost/ □ ft including 10% mobilization & 10% contingency	=	$166.00
Total Cost	=	$20,699,000



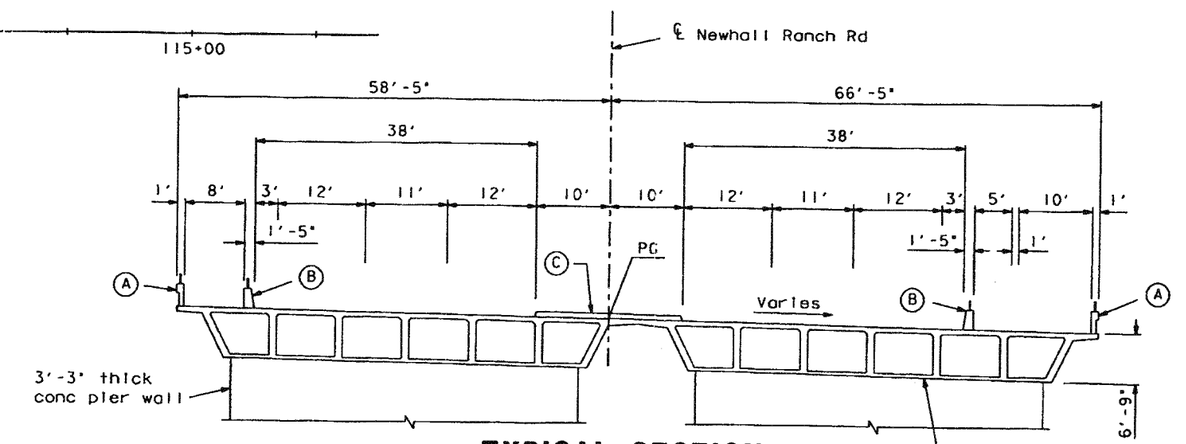
LEGEND

- (A) Concrete Barrier Type 26 (Mod) w/ Tubular Hand Railing
- (B) Concrete Barrier Type 732 w/ Tubular Hand Railing
- (C) Raised median
- (D) Structure Approach Type N(30S)

Assume all piles are driven steel H piles

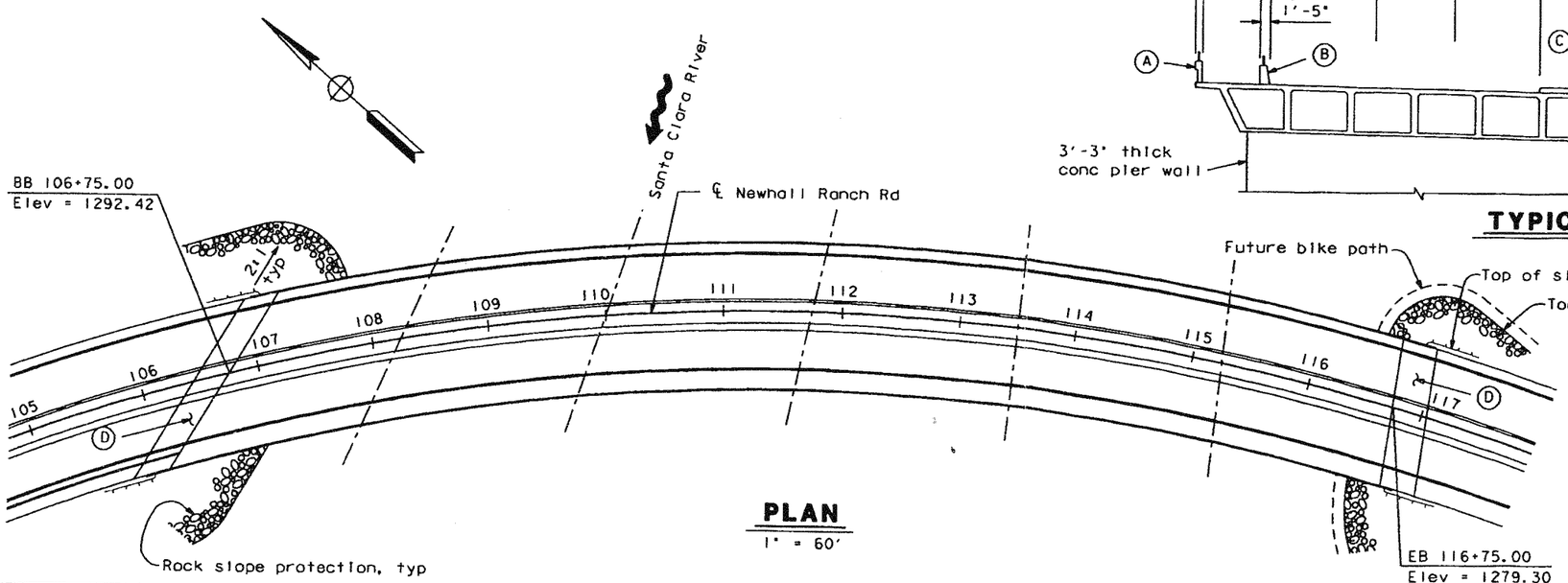
DEVELOPED ELEVATION

1" = 60'



TYPICAL SECTION

1" = 10"



PLAN

1" = 60'

ALTERNATIVE 2

DOKKEN ENGINEERING

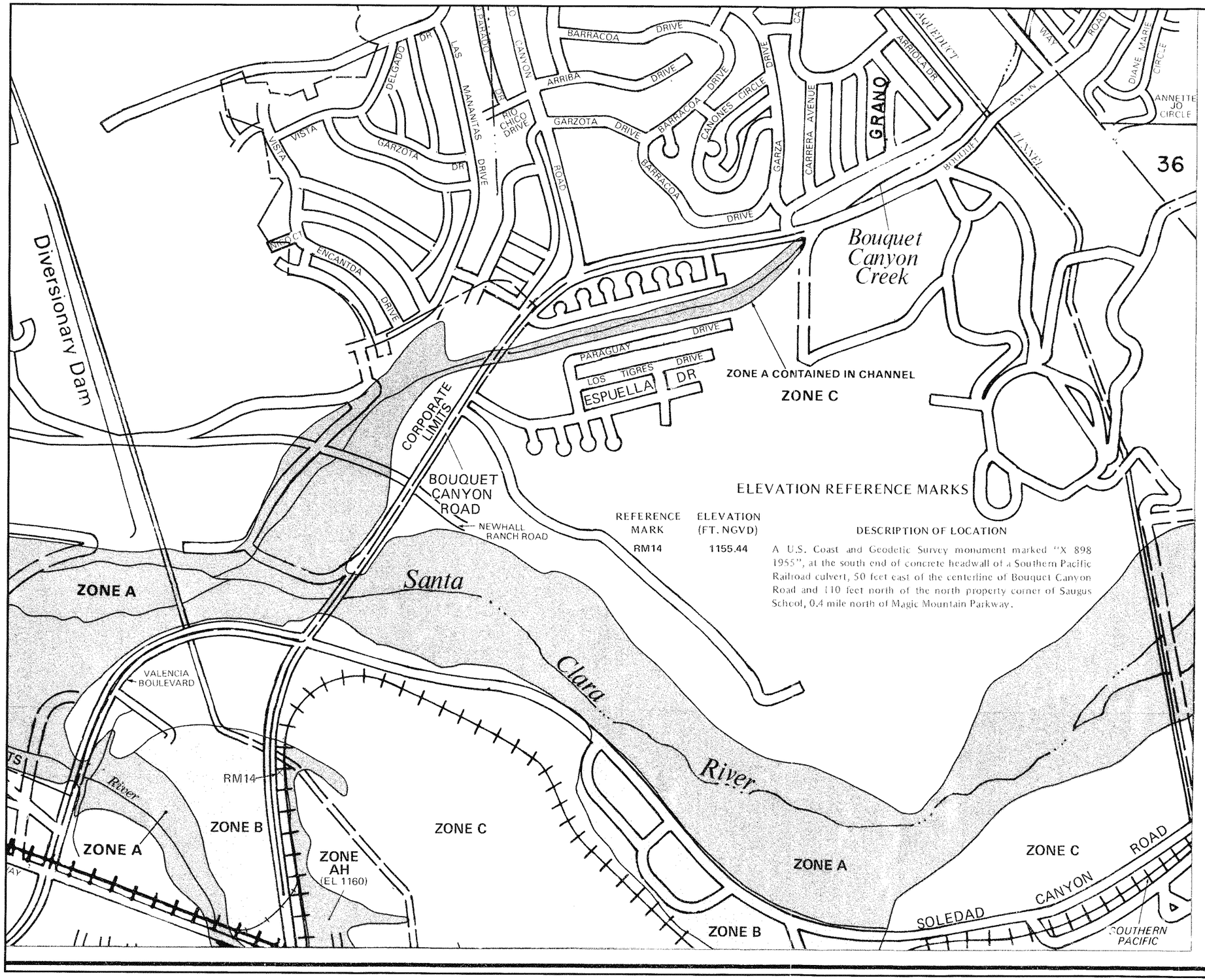
DES.	CT
DR.	CH
CHK.	
APPD.	

NO.	DATE	REVISION	BY	APPD

ADVANCE PLANNING STUDY
CROSS VALLEY CONNECTOR

SHEET	2
OF	3
DATE	1-20-05
DWG. NO.	

...\1418apsb.dgn



ELEVATION REFERENCE MARKS

REFERENCE MARK	ELEVATION (FT. NGVD)	DESCRIPTION OF LOCATION
RM14	1155.44	A U.S. Coast and Geodetic Survey monument marked "X 898 1955", at the south end of concrete headwall of a Southern Pacific Railroad culvert, 50 feet east of the centerline of Bouquet Canyon Road and 110 feet north of the north property corner of Saugus School, 0.4 mile north of Magic Mountain Parkway.

APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
SANTA CLARITA,
CALIFORNIA
LOS ANGELES COUNTY

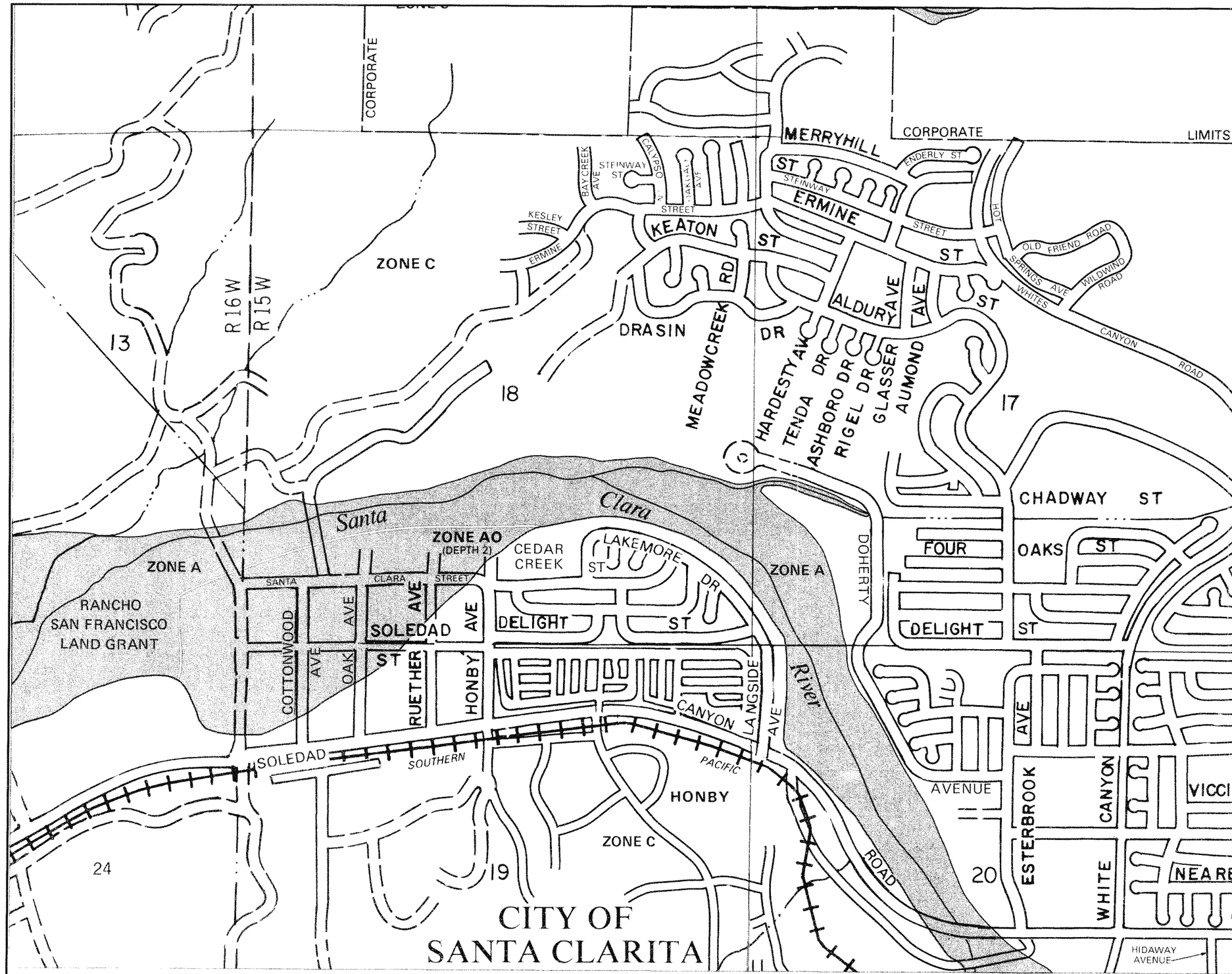
PANEL 345 OF 1275
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
060729 0345 C

MAP REVISED:
SEPTEMBER 29, 1989

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
SANTA CLARITA,
CALIFORNIA
LOS ANGELES COUNTY

PANEL 365 OF 1275
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
060729 0365 C

MAP REVISED:
SEPTEMBER 29, 1989

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

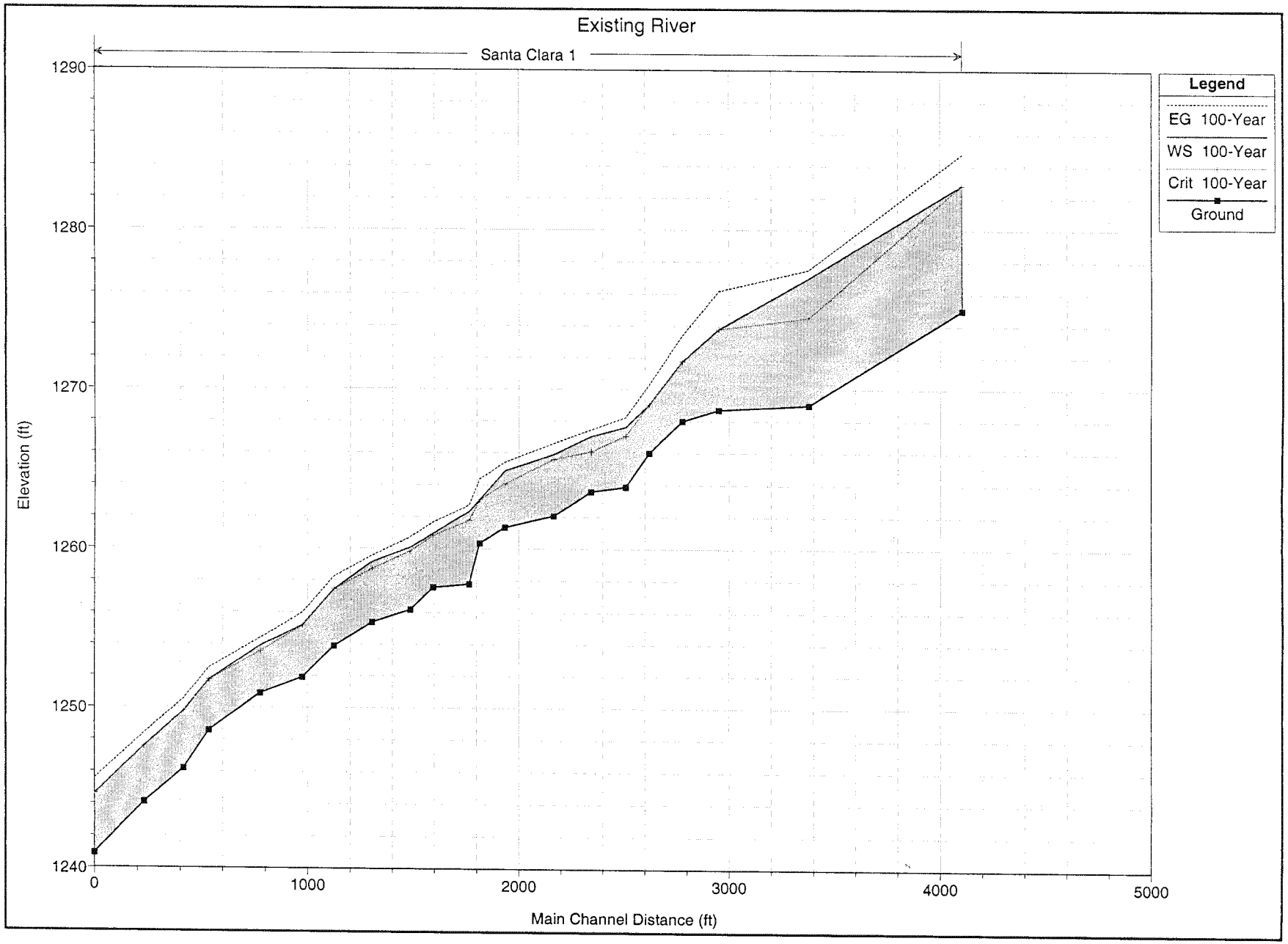
APPENDIX 'B'

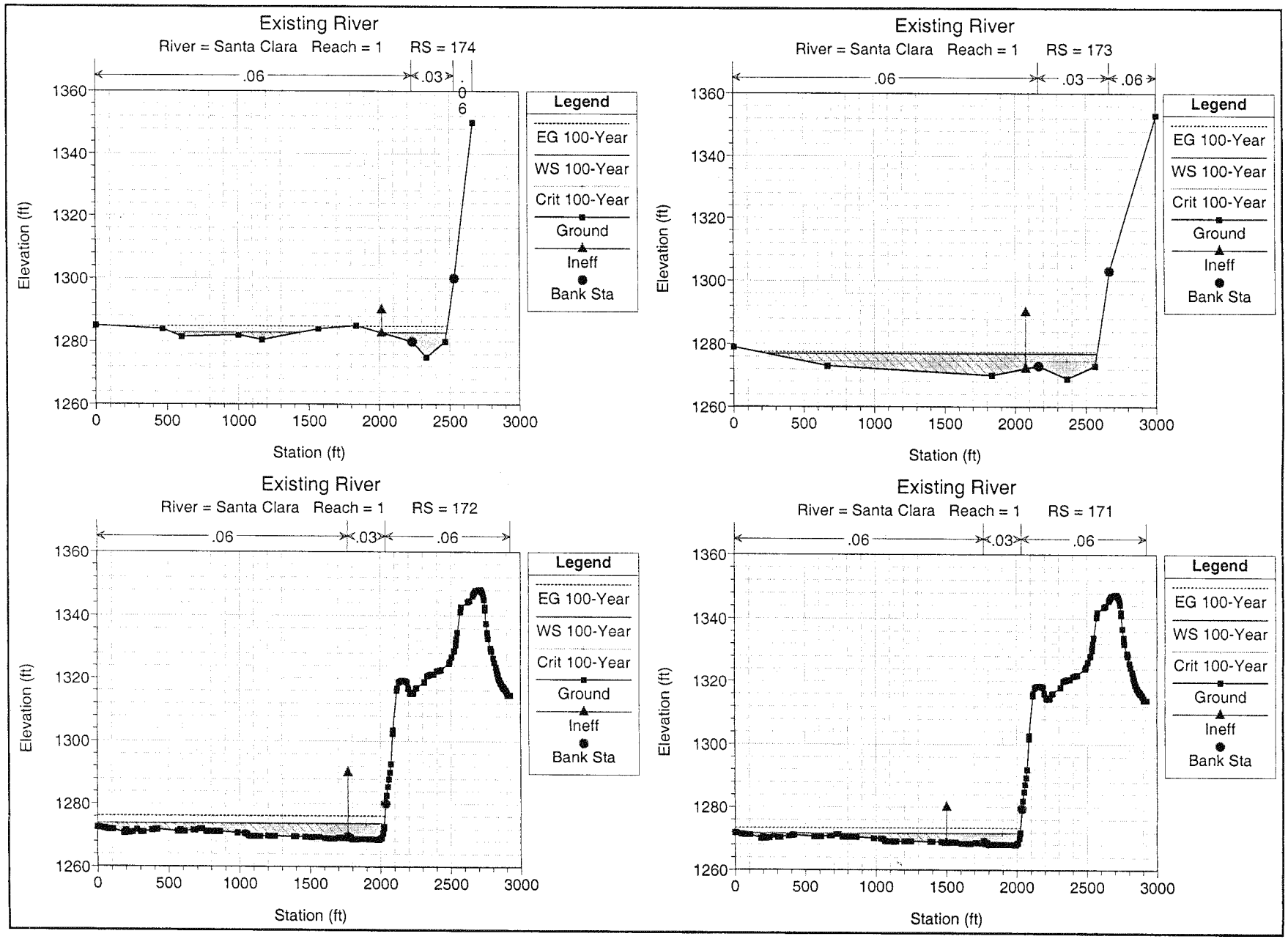
Results Summary

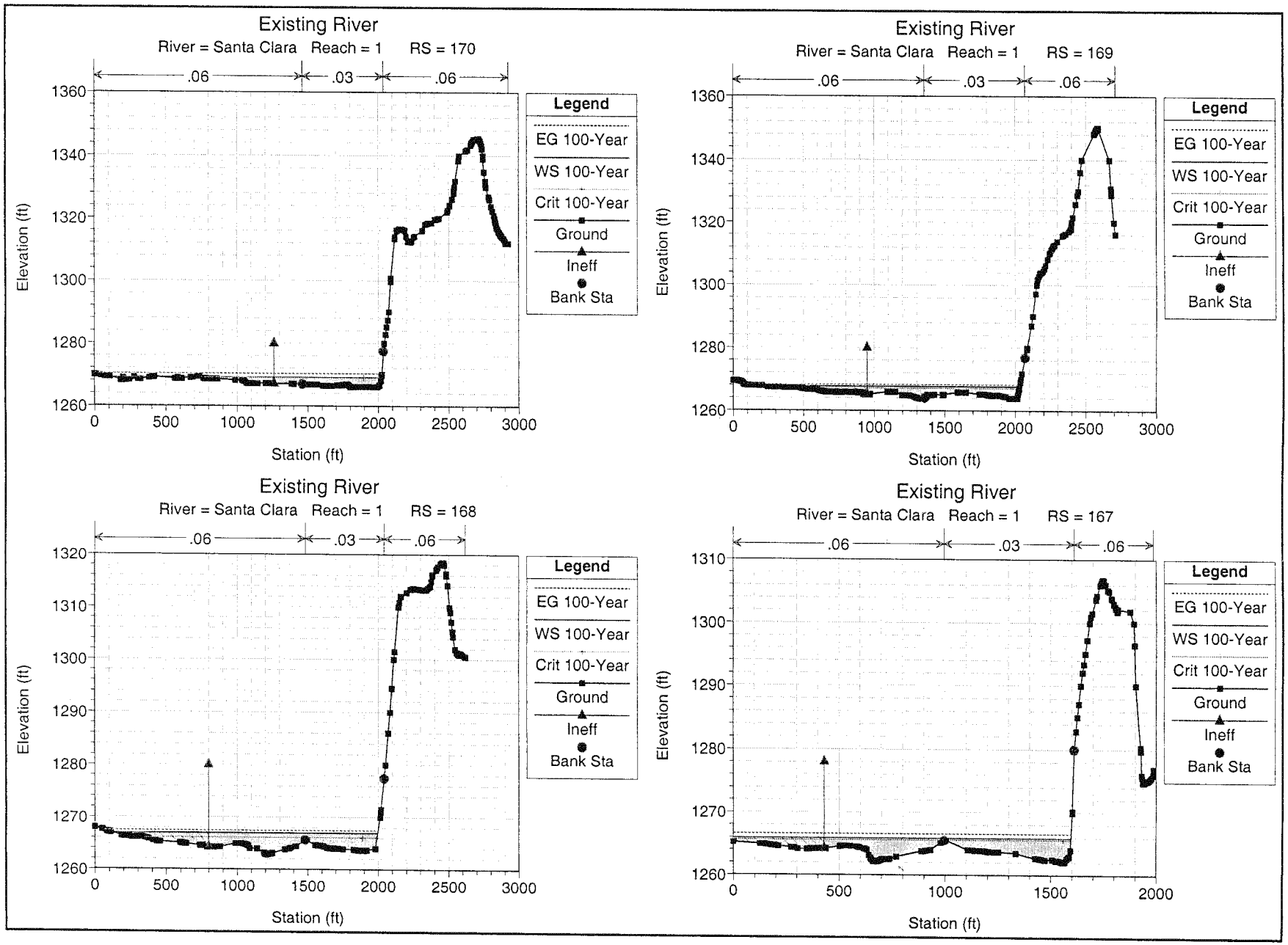
HEC-RAS Cross Section Input/Output

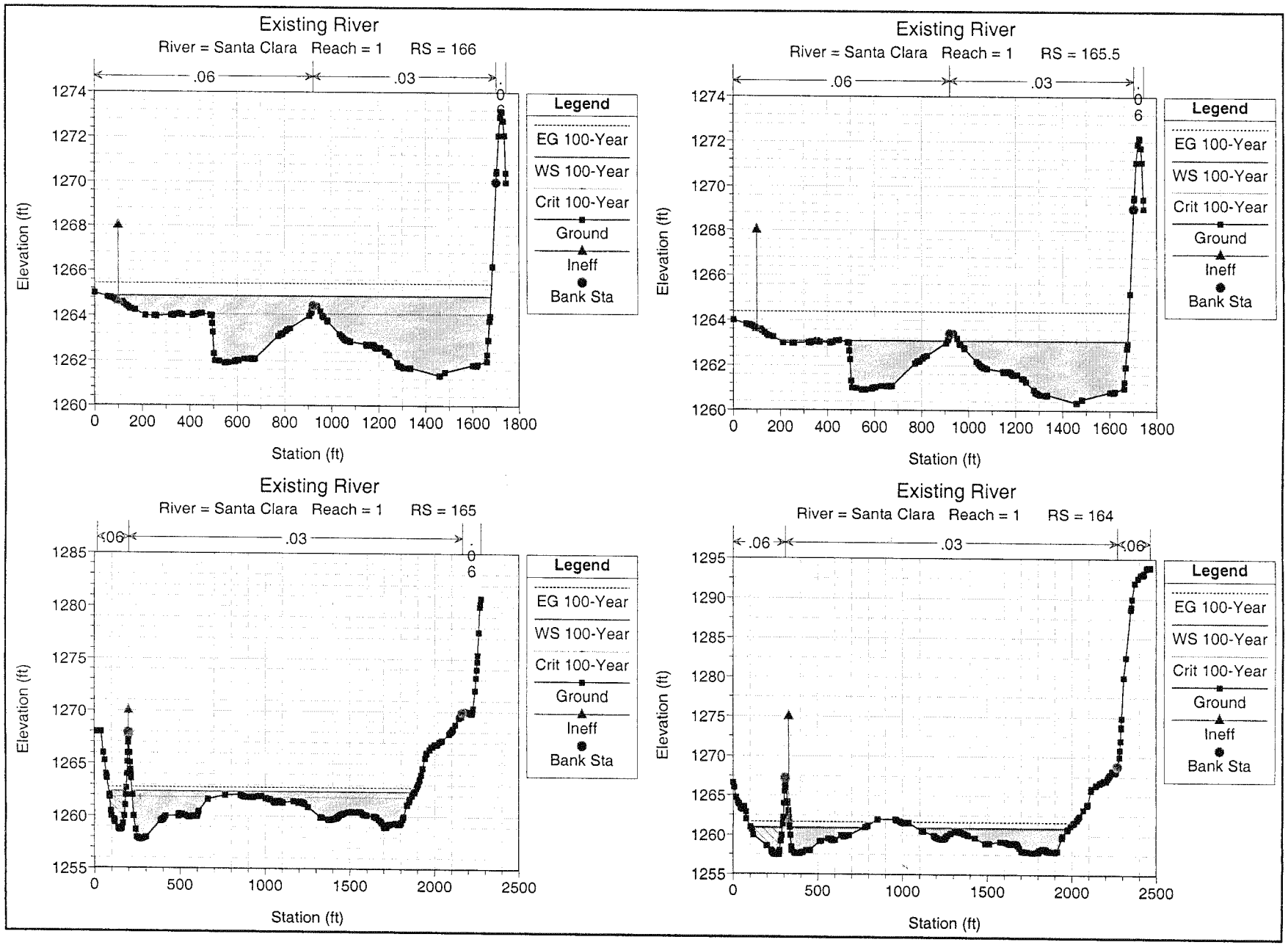
HEC-RAS Plan: Existing River: Santa Clara Reach: 1 Profile: 100-Year

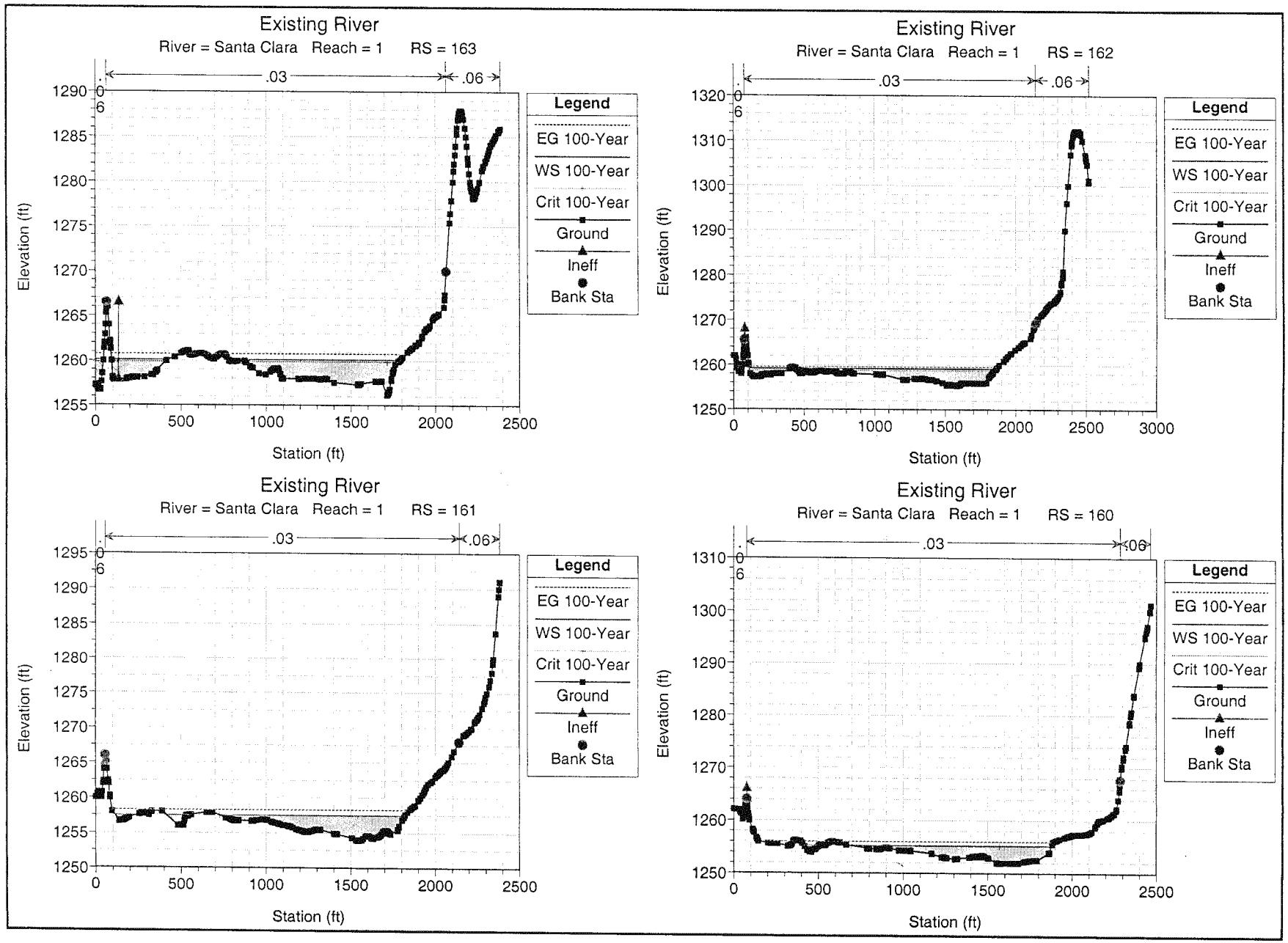
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	174	100-Year	15272.00	1275.00	1282.84	1282.84	1284.78	0.005994	11.47	1583.56	1375.84	0.89
1	173	100-Year	15272.00	1269.00	1277.00	1274.52	1277.51	0.001342	5.90	2830.97	2355.72	0.43
1	172	100-Year	15272.00	1268.71	1273.81	1273.81	1276.18	0.007724	12.36	1235.52	2026.21	0.99
1	171	100-Year	15272.00	1268.00	1271.78	1271.78	1273.40	0.010566	11.75	1754.76	2005.58	1.11
1	170	100-Year	15272.00	1266.00	1269.06	1269.06	1270.29	0.009827	9.32	1879.44	1791.87	1.02
1	169	100-Year	15272.00	1263.90	1267.64	1267.07	1268.23	0.005398	6.82	2762.66	1811.09	0.75
1	168	100-Year	15272.00	1263.60	1267.03	1266.09	1267.46	0.003977	6.26	3414.58	1878.26	0.65
1	167	100-Year	15272.00	1262.08	1265.91	1265.60	1266.60	0.007252	7.57	2672.84	1595.56	0.86
1	166	100-Year	15272.00	1261.35	1264.88	1264.08	1265.43	0.004912	6.48	3157.91	1643.01	0.71
1	165.5	100-Year	15272.00	1260.35	1263.09	1263.09	1264.37	0.016700	9.69	1951.52	1410.77	1.25
1	165	100-Year	15272.00	1257.79	1262.36	1261.79	1262.75	0.004575	5.02	3045.23	1763.22	0.65
1	164	100-Year	15272.00	1257.58	1260.96	1260.83	1261.65	0.008880	6.68	2285.72	1522.36	0.90
1	163	100-Year	15272.00	1256.19	1260.08	1259.84	1260.75	0.007966	6.54	2335.67	1385.69	0.86
1	162	100-Year	15272.00	1255.40	1259.16	1258.72	1259.56	0.004798	5.03	3033.60	1732.99	0.67
1	161	100-Year	15272.00	1253.90	1257.46	1257.46	1258.26	0.011281	7.16	2132.21	1341.81	1.00
1	160	100-Year	15272.00	1251.90	1255.21	1255.18	1255.99	0.010541	7.07	2160.59	1318.22	0.97
1	159	100-Year	15272.00	1250.87	1253.91	1253.54	1254.40	0.005731	5.64	2708.68	1468.79	0.73
1	158	100-Year	15272.00	1248.56	1251.74	1251.74	1252.49	0.011546	6.93	2202.78	1481.18	1.00
1	157	100-Year	15272.00	1246.18	1249.75	1249.75	1250.51	0.011444	7.00	2181.92	1436.14	1.00
1	156	100-Year	15272.00	1244.10	1247.57	1247.57	1248.37	0.011403	7.15	2134.93	1356.49	1.00
1	155	100-Year	15272.00	1240.90	1244.61	1244.61	1245.56	0.010751	7.84	1949.01	1033.46	1.01

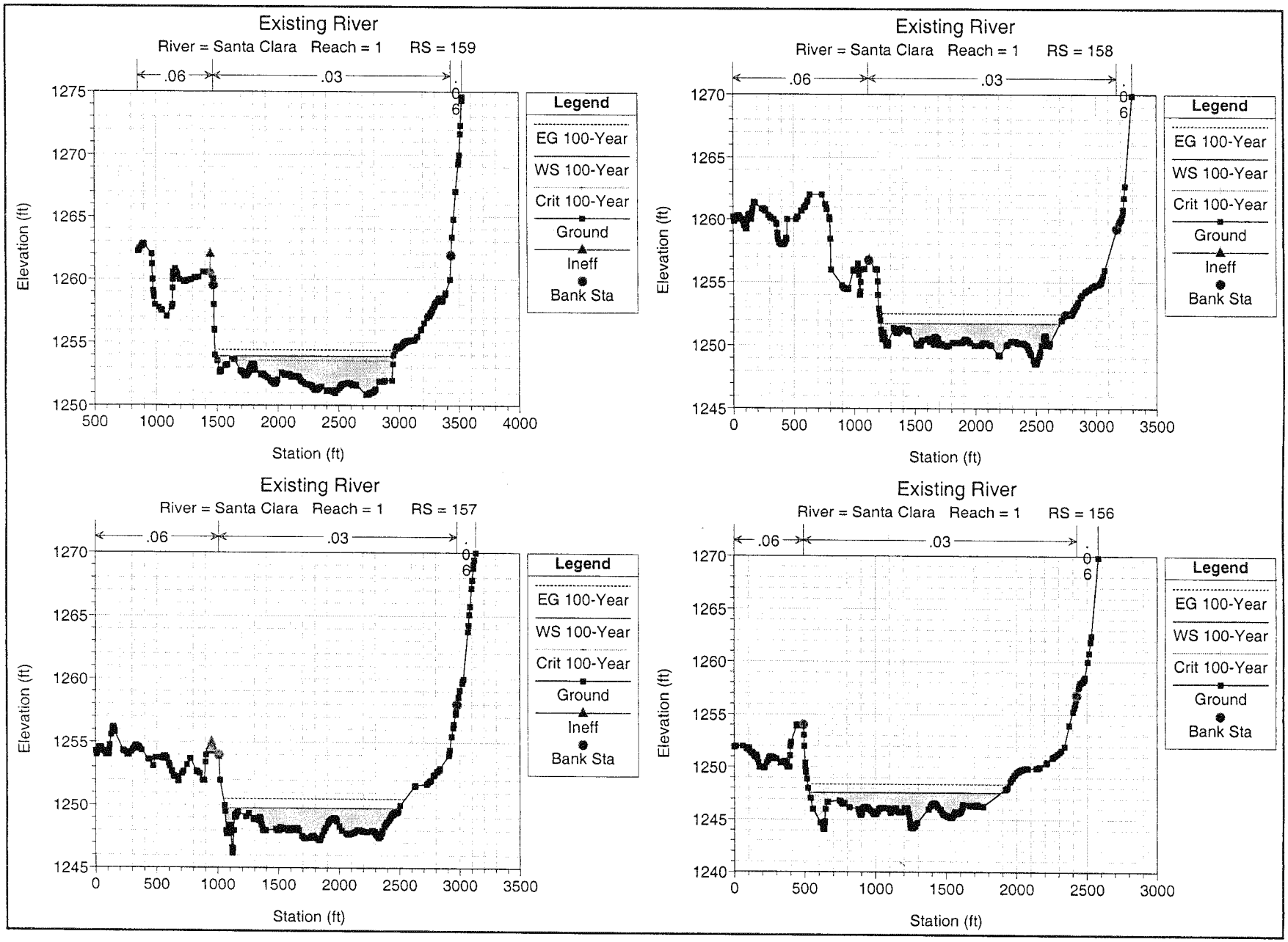

Existing River
Santa Clara 1
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Elevation (ft)
1290
1280
1270
1260
1250
1240
0
1000
2000
3000
4000
5000
Main Channel Distance (ft)

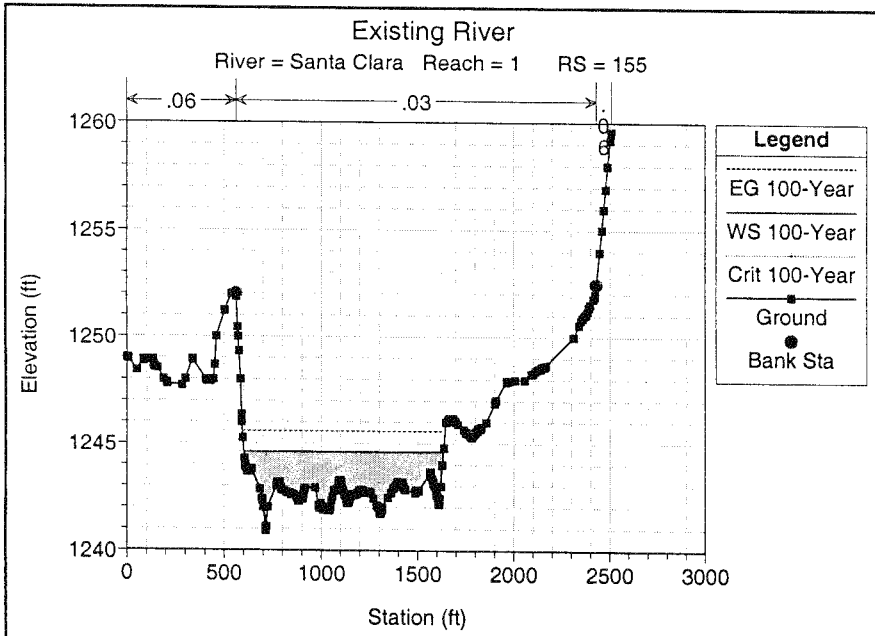

Existing River
River = Santa Clara Reach = 1 RS = 174
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Existing River
River = Santa Clara Reach = 1 RS = 173
.06
.03
.06
Existing River
River = Santa Clara Reach = 1 RS = 172
.06
.03
.06
Existing River
River = Santa Clara Reach = 1 RS = 171
.06
.03
.06


Existing River
River = Santa Clara Reach = 1 RS = 170
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Existing River
River = Santa Clara Reach = 1 RS = 169
Existing River
River = Santa Clara Reach = 1 RS = 168
Existing River
River = Santa Clara Reach = 1 RS = 167


Existing River
River = Santa Clara Reach = 1 RS = 166
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Existing River
River = Santa Clara Reach = 1 RS = 165.5
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Existing River
River = Santa Clara Reach = 1 RS = 165
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Existing River
River = Santa Clara Reach = 1 RS = 164
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta


Existing River
River = Santa Clara Reach = 1 RS = 163
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Existing River
River = Santa Clara Reach = 1 RS = 162
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Existing River
River = Santa Clara Reach = 1 RS = 161
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Existing River
River = Santa Clara Reach = 1 RS = 160
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta


Existing River
River = Santa Clara Reach = 1 RS = 159
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Existing River
River = Santa Clara Reach = 1 RS = 158
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Existing River
River = Santa Clara Reach = 1 RS = 157
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Existing River
River = Santa Clara Reach = 1 RS = 156
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Bank Sta


Existing River
River = Santa Clara Reach = 1 RS = 155
.06
.03
.06
Elevation (ft)
1260
1255
1250
1245
1240
0
500
1000
1500
2000
2500
3000
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Bank Sta

Existing Bridge.rep

HEC-RAS Version 3.1.2 April 2004
U.S. Army Corp of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

```
X     X  XXXXXX    XXXX        XXXX       XX      XXXX
X     X  X        X    X       X   X     X  X    X
X     X  X        X            X   X    X    X   X
XXXXXXX  XXXX     X       XXX  XXXX     XXXXXX    XXXX
X     X  X        X            X  X     X    X        X
X     X  X        X    X       X   X    X    X        X
X     X  XXXXXX    XXXX        X    X   X    X   XXXXX
```

PROJECT DATA
Project Title: Existing River
Project File : Existing Bridge.prj
Run Date and Time: 4/1/2005 10:10:05 AM

Project in English units

Project Description:
Cross sections cut in LDD and imported 04-30-04

PLAN DATA

Plan Title: Existing Profile
Plan File : p:\1418_CVC\410_Drainage_Studies\Location Hydraulic Study\HEC-RAS 3_11_05\Existing Bridge.p03

Geometry Title: Exist Project (banks=0.6, chnl=0.3)
Geometry File : p:\1418_CVC\410_Drainage_Studies\Location Hydraulic Study\HEC-RAS 3_11_05\Existing Bridge.g07

Flow Title : Steady Flow
Flow File : p:\1418_CVC\410_Drainage_Studies\Location Hydraulic Study\HEC-RAS 3_11_05\Existing Bridge.f01

Plan Summary Information:

Number of:	Cross Sections =	21	Multiple Openings =	0
	Culverts =	0	Inline Structures =	0
	Bridges =	0	Lateral Structures =	0

Computational Information
Water surface calculation tolerance = 0.01
Critical depth calculation tolerance = 0.01
Maximum number of iterations = 20
Maximum difference tolerance = 0.3
Flow tolerance factor = 0.001

Computation Options
Critical depth computed only where necessary
Conveyance Calculation Method: At breaks in n values only
Friction Slope Method: Average Conveyance
Computational Flow Regime: Subcritical Flow

RIVER: Santa Clara
REACH: 1 RS: 173

INPUT
Description:
Station Elevation Data num= 8

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1279	667.6	1273	1833	1270	2166	1273	2366	1269
2565	1273	2666	1303	3000	1353				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	2166	.03	2666	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2166	2666	379	427	469	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	2073	1290	F

CROSS SECTION

RIVER: Santa Clara
REACH: 1 RS: 172

INPUT
Description:
Station Elevation Data num= 337

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1272.61	12.11	1272.54	45.45	1272.26	51.09	1272.22	51.69	1272.21
71.31	1272.01	72.31	1272.02	74.24	1272	75.77	1271.98	76.93	1271.97
77.52	1272.01	78.27	1271.96	79.13	1271.96	80.47	1271.95	81.69	1271.95
83.13	1271.91	86.32	1271.95	90.96	1271.95	92.99	1271.91	97.02	1271.95
103.98	1271.95	105.31	1271.91	106.6	1271.95	184.31	1270.79	184.7	1270.8
187.78	1270.71	192.84	1270.71	198.32	1271.51	198.87	1271.44	221.81	1270.85
244.92	1271.01	276.73	1271.78	305.39	1271.12	315.78	1271.12	321.04	1271.11
382.73	1271.62	405.91	1271.88	406.26	1271.87	406.45	1271.86	406.62	1271.81
406.73	1271.85	407.35	1271.85	407.57	1271.81	407.82	1271.87	408.13	1271.88
408.44	1271.88	408.51	1271.87	411.55	1271.91	411.84	1271.86	413.57	1271.87
414.18	1271.88	416.74	1271.89	417.95	1271.91	418.72	1271.89	419.41	1271.89
562.71	1271.34	563.53	1271.31	580.77	1271.68	597.72	1271.33	605.62	1271.33
612.41	1271.31	673.01	1271.69	687.46	1271.68	719.86	1272.11	723.17	1272.11
729.84	1272.09	731.51	1272.08	732.49	1272.11	733.04	1272.08	735.37	1272.09
736.57	1272.09	763.01	1271.38	764.04	1271.41	765.48	1271.36	766.77	1271.35
767.73	1271.32	768.09	1271.3	769.49	1271.31	769.96	1271.26	770.46	1271.27
772.31	1271.31	773.91	1271.31	775.09	1271.38	776.44	1271.4	777.35	1271.41
778.17	1271.41	815.76	1271.21	819.66	1271.23	823.12	1271.23	826.45	1271.26
829.27	1271.31	830.69	1271.3	834.59	1271.3	844.98	1271.28	855.3	1271.21
861.06	1271.23	985.31	1270.83	1033.41	1270.75	1036.93	1270.71	1038.31	1270.72
1038.9	1270.71	1040.28	1270.71	1048.88	1270.49	1049.62	1270.49	1051.24	1270.5
1053.87	1270.43	1054.99	1270.41	1066.75	1269.91	1075.43	1269.83	1079.75	1269.8
1085.08	1269.81	1088.2	1269.76	1106.54	1269.77	1111.89	1269.81	1119.51	1269.76
1121.84	1269.76	1128.71	1269.71	1130.42	1269.74	1144.12	1269.73	1201.06	1269.85
1210.98	1269.85	1221.03	1269.81	1228.01	1269.83	1231.57	1269.82	1244.21	1269.83
1248.82	1269.81	1384.56	1269.69	1389.2	1269.71	1400.26	1269.67	1463.25	1269.59
1507.87	1269.46	1510.58	1269.48	1528.04	1269.48	1530.48	1269.51	1547.74	1269.49
1549.99	1269.5	1556.74	1269.49	1558.96	1269.48	1565.8	1269.51	1605.66	1269.1
1627.2	1269.1	1631.35	1269.11	1635.69	1269.08	1644.53	1269.08	1651.58	1269.06
1660.05	1269.01	1668.44	1269.02	1705.19	1269.32	1708.68	1269.37	1716.17	1269.3
1723.82	1269.21	1726.01	1269.28	1731.42	1269.26	1738.13	1269.34	1742.11	1269.36
1745.14	1269.41	1760.2	1269.49	1768.77	1269.57	1773.53	1269.59	1776.6	1269.61

244.92	1270.3	276.73	1271.07	305.39	1270.41	315.78	1270.41	321.04	1270.4
382.73	1270.91	405.91	1271.17	406.26	1271.16	406.45	1271.15	406.62	1271.1
406.73	1271.14	407.35	1271.14	407.57	1271.1	407.82	1271.16	408.13	1271.17
408.44	1271.17	408.51	1271.16	411.55	1271.2	411.84	1271.15	413.57	1271.16
414.18	1271.17	416.74	1271.18	417.95	1271.2	418.72	1271.18	419.41	1271.18
562.71	1270.63	563.53	1270.6	580.77	1270.97	597.72	1270.62	605.62	1270.62
612.41	1270.6	673.01	1270.98	687.46	1270.97	719.86	1271.4	723.17	1271.4
729.84	1271.38	731.51	1271.37	732.49	1271.4	733.04	1271.37	735.37	1271.38
736.57	1271.38	763.01	1270.67	764.04	1270.7	765.48	1270.65	766.77	1270.64
767.73	1270.61	768.09	1270.59	769.49	1270.6	769.96	1270.55	770.46	1270.56
772.31	1270.6	773.91	1270.6	775.09	1270.67	776.44	1270.69	777.35	1270.7
778.17	1270.7	815.76	1270.5	819.66	1270.52	823.12	1270.52	826.45	1270.55
829.27	1270.6	830.69	1270.59	834.59	1270.59	844.98	1270.57	855.3	1270.5
861.06	1270.52	985.31	1270.12	1033.41	1270.04	1036.93	1270	1038.31	1270.01
1038.9	1270	1040.28	1270	1048.88	1269.78	1049.62	1269.78	1051.24	1269.79
1053.87	1269.72	1054.99	1269.7	1066.75	1269.2	1075.43	1269.12	1079.75	1269.09
1085.08	1269.1	1088.2	1269.05	1106.54	1269.06	1111.89	1269.1	1119.51	1269.05
1121.84	1269.05	1128.71	1269	1130.42	1269.03	1144.12	1269.02	1201.06	1269.14
1210.98	1269.14	1221.03	1269.1	1228.01	1269.12	1231.57	1269.11	1244.21	1269.12
1248.82	1269.1	1384.56	1268.98	1389.2	1269	1400.26	1268.96	1463.25	1268.88
1507.87	1268.75	1510.58	1268.77	1528.04	1268.77	1530.48	1268.8	1547.74	1268.78
1549.99	1268.79	1556.74	1268.78	1558.96	1268.77	1565.8	1268.8	1605.66	1268.39
1627.2	1268.39	1631.35	1268.4	1635.69	1268.37	1644.53	1268.37	1651.58	1268.35
1660.05	1268.3	1668.44	1268.31	1705.19	1268.61	1708.68	1268.66	1716.17	1268.59
1723.82	1268.5	1726.01	1268.57	1731.42	1268.55	1738.13	1268.63	1742.11	1268.65
1745.14	1268.7	1760.2	1268.78	1768.77	1268.86	1773.53	1268.88	1776.6	1268.9
1782.06	1268.78	1786.76	1268.64	1791.31	1268.45	1798.18	1268.1	1799.96	1268
1817.13	1268.07	1822.1	1268.1	1825.91	1268.09	1834.02	1268.1	1837.17	1268.11
1840.39	1268.11	1843.6	1268.1	1847.05	1268.11	1868.17	1268.09	1874.96	1268.1
1879.76	1268.08	1883.99	1268.08	1894.55	1268.1	1920.09	1268.09	1925.31	1268.1
1930.52	1268.08	1964.01	1268.04	1974.58	1268	1986.36	1268.01	1990.6	1268
1993.29	1268.1	2003.25	1268.41	2007.82	1268.6	2018.27	1270	2023.31	1271.57
2024.56	1272	2035.71	1279.46	2041.62	1282	2050.88	1284.8	2058.67	1287.22
2065.74	1289.39	2073.15	1292	2086.82	1301.7	2087.26	1302	2087.57	1302.14
2089.08	1302.78	2117.25	1315.4	2119.26	1316	2129.39	1317.86	2130.34	1318
2137.37	1318.19	2146.22	1318.4	2150.99	1318.48	2154.42	1318.53	2157.12	1318.55
2160.24	1318.54	2165.76	1318.5	2170.51	1318.43	2176.68	1318.32	2183.46	1318.15
2188.68	1318	2197.15	1316.2	2199.03	1316	2210.78	1314.49	2215.37	1314.41
2223.38	1314.41	2225.72	1314.5	2228	1314.38	2229.25	1314.34	2229.92	1314.36
2231.08	1314.4	2232.04	1314.47	2235.22	1314.72	2236.83	1314.81	2250.22	1316
2250.48	1316	2256.99	1316.22	2312.88	1318	2313.65	1318.09	2332.33	1320
2343.19	1320.2	2349.84	1320.36	2353.84	1320.43	2357.22	1320.48	2360.51	1320.51
2364.91	1320.6	2366.72	1320.57	2368.23	1320.57	2371.42	1320.56	2374.85	1320.54
2376.19	1320.5	2378.03	1320.54	2401.57	1321.57	2415.39	1321.74	2425.33	1321.9
2432.5	1322	2489.41	1324	2493.59	1324.6	2506.06	1326	2507.76	1326.18
2523.6	1328	2524.91	1328.2	2535.54	1330	2535.91	1330.2	2537.46	1330.83
2539.95	1332	2546.65	1333.99	2569.74	1340.5	2574.93	1342	2621.29	1343.59
2632.12	1343.9	2633.17	1343.96	2633.46	1343.97	2634.8	1344	2657	1345.52
2661.59	1346	2664.8	1346.24	2670.55	1346.64	2678.86	1347.09	2680.57	1347.2
2682.03	1347.17	2686.39	1347.07	2688.7	1347.21	2693.3	1347.08	2697.41	1347.3
2700.29	1347.22	2705.63	1347.46	2707.89	1347.38	2711.94	1347.42	2715.31	1347.2
2720.71	1346.83	2722.91	1346.6	2728.32	1346	2733.3	1345.15	2736.68	1344.3
2742.76	1342	2743.48	1341.57	2744.32	1341.14	2752.01	1336.86	2760.09	1334
2762.42	1332.94	2765.09	1332	2783.43	1329	2787.89	1328.4	2790.49	1328
2801.46	1325.81	2810.95	1324.38	2822.91	1322.92	2827.01	1322	2827.49	1321.88
2829.48	1321.09	2830.85	1321.03	2832.63	1320.88	2835.24	1320.5	2837.61	1320.04
2839.38	1319.46	2841.1	1319.15	2842.62	1318.95	2843.83	1318.8	2845.38	1318.78
2847.7	1318.73	2851.95	1318	2854.59	1317.78	2855.03	1317.8	2855.85	1317.75
2856.47	1317.73	2857.19	1317.68	2860.3	1317.4	2866.48	1316.9	2867.78	1316.83
2870.18	1316.74	2872.36	1316.71	2875.07	1316.38	2877.01	1316.4	2879.46	1316.08
2880.93	1316	2890.96	1315.66	2894.69	1315.22	2901.22	1314.7	2902.95	1314.51
2904.4	1314	2924.98	1314						

2188.68	1316	2197.15	1314.2	2199.03	1314	2210.78	1312.49	2215.37	1312.41
2223.38	1312.41	2225.72	1312.5	2228	1312.38	2229.25	1312.34	2229.92	1312.36
2231.08	1312.4	2232.04	1312.47	2235.22	1312.72	2236.83	1312.81	2250.22	1314
2250.48	1314	2256.99	1314.22	2312.88	1316	2313.65	1316.09	2332.33	1318
2343.19	1318.2	2349.84	1318.36	2353.84	1318.43	2357.22	1318.48	2360.51	1318.51
2364.91	1318.6	2366.72	1318.57	2368.23	1318.57	2371.42	1318.56	2374.85	1318.54
2376.19	1318.5	2378.03	1318.54	2401.57	1319.57	2415.39	1319.74	2425.33	1319.9
2432.5	1320	2489.41	1322	2493.59	1322.6	2506.06	1324	2507.76	1324.18
2523.6	1326	2524.91	1326.2	2535.54	1328	2535.91	1328.2	2537.46	1328.83
2539.95	1330	2546.65	1331.99	2569.74	1338.5	2574.93	1340	2621.29	1341.59
2632.12	1341.9	2633.17	1341.96	2633.46	1341.97	2634.8	1342	2657	1343.52
2661.59	1344	2664.8	1344.24	2670.55	1344.64	2678.86	1345.09	2680.57	1345.2
2682.03	1345.17	2686.39	1345.07	2688.7	1345.21	2693.3	1345.08	2697.41	1345.3
2700.29	1345.22	2705.63	1345.46	2707.89	1345.38	2711.94	1345.42	2715.31	1345.2
2720.71	1344.83	2722.91	1344.6	2728.32	1344	2733.3	1343.15	2736.68	1342.3
2742.76	1340	2743.48	1339.57	2744.32	1339.14	2752.01	1334.86	2760.09	1332
2762.42	1330.94	2765.09	1330	2783.43	1327	2787.89	1326.4	2790.49	1326
2801.46	1323.81	2810.95	1322.38	2822.91	1320.92	2827.01	1320	2827.49	1319.88
2829.48	1319.09	2830.85	1319.03	2832.63	1318.88	2835.24	1318.5	2837.61	1318.04
2839.38	1317.46	2841.1	1317.15	2842.62	1316.95	2843.83	1316.8	2845.38	1316.78
2847.7	1316.73	2851.95	1316	2854.59	1315.78	2855.03	1315.8	2855.85	1315.75
2856.47	1315.73	2857.19	1315.68	2860.3	1315.4	2866.48	1314.9	2867.78	1314.83
2870.18	1314.74	2872.36	1314.71	2875.07	1314.38	2877.01	1314.4	2879.46	1314.08
2880.93	1314	2890.96	1313.66	2894.69	1313.22	2901.22	1312.7	2902.95	1312.51
2904.4	1312	2924.98	1312						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	1463.25	.03	2035.71	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1463.25	2035.71	120	112	122	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	1260	1280	F

CROSS SECTION

RIVER: Santa Clara
REACH: 1 RS: 169

INPUT
Description:
Station Elevation Data num= 359

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1269.4	6.06	1269.37	6.85	1269.38	7.49	1269.39	8.71	1269.42
9.41	1269.4	10.28	1269.43	13.06	1269.43	13.96	1269.4	18.18	1269.36
18.78	1269.35	19.84	1269.36	20.25	1269.4	20.73	1269.37	21.14	1269.4
21.99	1269.43	22.56	1269.44	23.39	1269.4	24.85	1269.43	25.84	1269.42
27.89	1269.38	30.27	1269.35	32.93	1269.3	36.13	1269.26	39.84	1269.2
43.42	1269.15	46.05	1269.12	50.51	1269.1	53.54	1269.04	57.84	1268.98
68.87	1268.61	68.95	1268.33	69.99	1268.3	71.86	1268.22	73.05	1268.21
74.01	1268.2	78.7	1268.06	78.95	1268.1	80.79	1268	97.39	1267.91
99.54	1267.89	102.14	1267.9	103.91	1267.86	117.36	1267.81	122.87	1267.8
126.47	1267.8	132.9	1267.78	168.88	1267.77	183.99	1267.8	191.24	1267.78
195.21	1267.78	198.91	1267.77	203.35	1267.77	245.39	1267.4	278.83	1267.37
287.86	1267.4	290.26	1267.38	295.46	1267.41	296.71	1267.41	300.67	1267.42
303.42	1267.4	308.16	1267.43	313.72	1267.41	320.28	1267.41	323.13	1267.4
362.87	1267.15	367.74	1267.15	372.52	1267.14	380.28	1267.14	394.33	1267.2
399.31	1267.19	401.14	1267.19	406.48	1267.17	411.36	1267.17	416.22	1267.2
459.53	1267.2	466.82	1267.19	468.45	1267.18	473.32	1267.18	477.05	1267.2
484.58	1267.11	486.23	1267.07	491.65	1266.9	495.51	1266.93	497.89	1266.89

Sta L	Sta R	Elev	Permanent
0	950	1280	F

CROSS SECTION

RIVER: Santa Clara
REACH: 1 RS: 168

INPUT
Description:
Station Elevation Data num= 336

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1268	48.14	1267.63	52.54	1267.59	56.06	1267.6	81.29	1267.28
81.4	1267.28	83.16	1267.25	83.86	1267.25	85.07	1267.2	86.93	1267.22
88.83	1267.21	91.01	1267.19	92.2	1267.19	95.16	1267.2	97.21	1267.16
99.01	1267.15	107.33	1267.08	110.37	1267.1	185.52	1266.41	187.62	1266.4
189.71	1266.4	192.8	1266.39	195.21	1266.4	197.77	1266.38	198.44	1266.39
199.9	1266.4	203.33	1266.38	204.4	1266.4	212.14	1266.36	213.36	1266.36
229.32	1266.31	230.77	1266.3	239.05	1266.28	257.35	1266.15	266.21	1266.13
269.66	1266.13	273.3	1266.1	276.76	1266.15	279.7	1266.16	291.08	1266.23
293.31	1266.2	296.85	1266.24	299.41	1266.25	312.18	1266.25	314.62	1266.3
318.48	1266.25	320.88	1266.24	322.99	1266.24	326.76	1266.21	337.58	1266.2
354.43	1266.06	363.32	1266	377.49	1265.84	407.05	1265.56	410.18	1265.54
422.01	1265.5	424.6	1265.5	431.95	1265.36	433.39	1265.34	435.05	1265.3
436.76	1265.31	444.99	1265.28	445.94	1265.28	448.43	1265.3	450.23	1265.31
452.32	1265.31	456.35	1265.29	596.89	1265.06	598.93	1265.06	600.03	1265.05
601.14	1265.05	602.48	1265.1	603.84	1265.05	606.53	1265.05	609.24	1265.04
610.08	1265	611.36	1265.03	612.74	1265.02	614.17	1265.02	619.06	1265
620.76	1264.99	621.81	1264.99	623.86	1264.97	626.14	1264.96	627.75	1264.9
629.03	1264.94	631.26	1264.95	632.65	1264.94	634.58	1264.94	640.95	1264.9
735.21	1264.57	736.35	1264.57	740.29	1264.56	741.43	1264.56	744	1264.5
745.01	1264.55	746.09	1264.55	754.97	1264.6	756.01	1264.58	786.4	1264.21
800.14	1264.21	804.92	1264.2	810.06	1264.21	815.42	1264.2	825.55	1264.2
827.67	1264.22	833.21	1264.25	835.45	1264.25	840.9	1264.3	844.81	1264.27
846.53	1264.28	851.72	1264.28	853.57	1264.3	856.51	1264.29	862.07	1264.28
865.34	1264.29	871.16	1264.28	875.5	1264.3	880.16	1264.28	986.56	1264.91
988.82	1264.91	991.12	1264.92	998.4	1265	1001.67	1264.97	1004.84	1264.98
1013.59	1264.98	1023.05	1265	1026.8	1264.95	1043.79	1264.89	1049.47	1264.86
1052.5	1264.8	1058.42	1264.79	1065.21	1264.72	1073.87	1264.61	1079.9	1264.5
1087.1	1264	1138.63	1264	1141.24	1263.95	1187.88	1263.16	1192.16	1263.1
1194.04	1263.04	1195.65	1263	1196.07	1262.98	1199.12	1262.9	1200.15	1262.89
1201.1	1262.89	1202.3	1262.88	1202.75	1262.88	1203.03	1262.9	1203.59	1262.87
1203.98	1262.86	1204.28	1262.85	1204.49	1262.85	1204.67	1262.8	1204.87	1262.84
1205.92	1262.84	1206.08	1262.8	1206.23	1262.84	1206.57	1262.84	1206.81	1262.85
1206.93	1262.8	1207.04	1262.85	1207.32	1262.87	1207.39	1262.87	1207.46	1262.88
1207.72	1262.9	1207.95	1262.9	1208.37	1262.91	1208.86	1262.92	1209.29	1262.93
1210.58	1262.9	1211.38	1262.94	1212.05	1262.95	1212.44	1262.94	1213.08	1262.94
1213.67	1262.9	1214.81	1262.93	1215.72	1262.93	1227.41	1262.95	1231.67	1263
1234.04	1262.98	1236.35	1262.99	1242.79	1263.03	1246.18	1263.1	1248.99	1263.07
1338.04	1263.8	1367.84	1264	1377.91	1264.12	1411.46	1264.39	1417.07	1264.45
1483.92	1265.67	1551.21	1264.7	1555.57	1264.65	1569.04	1264.63	1574.41	1264.63
1579.8	1264.6	1584.78	1264.61	1592.96	1264.56	1599.14	1264.51	1605.34	1264.5
1614.82	1264.37	1634.98	1264.18	1645.04	1264.11	1652.2	1264.1	1656.4	1264.05
1659.93	1264.02	1671.88	1264.03	1680.08	1264	1688.17	1264.05	1701.5	1264.04
1716.32	1264	1718.7	1263.99	1749.34	1263.9	1824.55	1263.8	1830.9	1263.8
1837.95	1263.76	1854.36	1263.7	1857.58	1263.7	1860.32	1263.68	1864.56	1263.66
1866.33	1263.66	1868.67	1263.7	1871.34	1263.65	1875.45	1263.64	1880.61	1263.64
1881.85	1263.6	1882.76	1263.63	1884.03	1263.62	1885.16	1263.62	1886.04	1263.61
1886.6	1263.6	1887.68	1263.61	1890.4	1263.61	1891.96	1263.6	1893.28	1263.62
1895.47	1263.62	1896.69	1263.6	1897.4	1263.63	1898.42	1263.63	1899.55	1263.64
1906.02	1263.67	1908.59	1263.7	1913.13	1263.7	1916.04	1263.72	1919.29	1263.73
1978.82	1264	2012.45	1270	2015.94	1270.9	2018.48	1271.56	2041.38	1277.47

1246.74	1263.67	1251.93	1263.7	1332.48	1263.48	1425.05	1262.69	1425.96	1262.69
1427	1262.7	1430.63	1262.69	1433.57	1262.69	1441.7	1262.66	1447.43	1262.6
1456.04	1262.56	1471.85	1262.45	1504.52	1262.53	1522.18	1262.3	1523.64	1262.35
1525.32	1262.38	1533.97	1262.28	1536.27	1262.33	1545.93	1262.1	1548.4	1262.23
1552.93	1262.12	1557.17	1262.08	1557.47	1262.1	1562.16	1262.1	1566.9	1262.18
1573.34	1262.62	1580.16	1262.82	1585.3	1262.96	1586.38	1263	1592.92	1264
1601.08	1269.9	1601.23	1270	1601.46	1270.22	1611.23	1280	1619.76	1282.9
1627.12	1285.1	1633.65	1287.2	1642.48	1290	1650.96	1292.1	1656.65	1293.4
1663.8	1295.07	1672.81	1297.29	1683.27	1300	1689.43	1301	1695.88	1301.55
1713.64	1303.74	1718.71	1304.33	1734.5	1305.97	1737.32	1306.2	1739.99	1306.47
1743.38	1306.7	1745.5	1306.8	1746.82	1306.82	1748.16	1306.8	1749.46	1306.75
1751.25	1306.62	1757.72	1306.03	1759.76	1306.07	1768.61	1305.2	1771.49	1305.2
1776.43	1305	1787.23	1303.92	1789.68	1303.76	1797.27	1303.1	1799.33	1302.94
1805.08	1302.6	1807.93	1302.28	1810.7	1302.27	1812.92	1302	1814.21	1301.79
1816.85	1302.03	1817.52	1302.18	1874.6	1301.84	1892.99	1300	1895.83	1296.5
1901.31	1290	1925.51	1280.37	1926.38	1280	1926.5	1279.8	1929.27	1276
1931.54	1275.62	1934.8	1275.16	1934.84	1274.98	1934.85	1274.9	1934.87	1274.85
1936.56	1274.8	1938.11	1274.76	1939.42	1274.76	1940.82	1274.8	1942.16	1274.8
1943.5	1274.84	1946.32	1274.95	1948.12	1275	1950.25	1275	1951.24	1275.04
1954.24	1274.99	1955.85	1274.99	1957.9	1275.02	1960.42	1275.1	1965.05	1275.22
1971.03	1275.42	1975.51	1275.6	1983.03	1276	1985.78	1276.9	1985.81	1276.91

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	996.21	.03	1611.23	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
996.21	1611.23	59.01	231	386.01	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	430	1278	F

CROSS SECTION

RIVER: Santa Clara
REACH: 1 RS: 166

INPUT
Description:
Station Elevation Data num= 153

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1265	54.79	1264.82	64.69	1264.79	67.97	1264.8	71.36	1264.78
78.35	1264.76	85.72	1264.72	88.08	1264.7	91.75	1264.68	95.8	1264.65
109.01	1264.6	115.86	1264.6	121.7	1264.53	132.87	1264.45	141.61	1264.37
148.02	1264.3	153.32	1264.3	169.11	1264.26	210.97	1264	250.46	1263.99
254.76	1264	258.66	1263.98	320.84	1264.02	329.04	1264	332.7	1264.05
347.99	1264.05	354.56	1264.1	367.22	1264.04	411.13	1264	414.71	1264.03
418.87	1264.03	423.13	1264.04	436.86	1264.1	449.32	1264.11	486.14	1264.02
491.41	1264	493.15	1263.66	495.89	1263.27	501.01	1262.32	504.94	1262
510.11	1262	522.53	1261.98	523.62	1261.98	546.15	1261.9	553.64	1261.93
562.44	1261.91	589.35	1261.95	590.11	1261.97	591.55	1262	593.86	1262
598.49	1262.02	604.4	1262.03	604.7	1262	628.36	1262.08	649.24	1262.07
659.71	1262.1	664.67	1262.06	670	1262.07	675.06	1262.09	772.7	1263.09
782.32	1263.2	782.87	1263.16	783.5	1263.16	784.11	1263.17	784.8	1263.17
785.92	1263.2	786.71	1263.18	787.58	1263.18	789.52	1263.2	790.63	1263.2
792.44	1263.22	804.46	1263.31	810.63	1263.4	823.39	1263.44	904.54	1264
912.06	1264.14	914.9	1264.2	919.43	1264.36	921.25	1264.4	922.88	1264.43
926.01	1264.44	929.37	1264.4	932.6	1264.44	935.6	1264.42	938.2	1264.39
951.44	1264.2	960.02	1264	960.68	1263.99	965.02	1263.94	980.54	1263.8
982.64	1263.76	1033.14	1263.19	1042.04	1263.1	1046.81	1263.03	1053.7	1262.97
1056.91	1262.95	1062.72	1262.9	1069.07	1262.9	1077.93	1262.86	1146.34	1262.75
1148.8	1262.7	1152.31	1262.74	1156.76	1262.75	1164.14	1262.75	1168.05	1262.7

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	921.25	.03	1702.08	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
921.25	1702.08	49	50	232	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	100	1268	F

CROSS SECTION

RIVER: Santa Clara
REACH: 1 RS: 165

INPUT
Description:
Station Elevation Data num= 372

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
17.4	1267.97	17.51	1268	38.95	1268	52.29	1266	58.8	1265.27
68.02	1264	70.87	1263.75	72.3	1263.63	86.7	1262	87	1261.91
87.59	1261.8	94	1260.47	98.34	1260	113.03	1259.68	113.61	1259.62
114.06	1259.6	116.06	1259.49	117.95	1259.42	138.71	1258.86	142.62	1258.77
149.02	1258.7	151.67	1258.81	155.51	1258.76	156.71	1258.82	159.16	1258.82
160.41	1258.9	166.14	1259.29	173.83	1260	178.97	1261.04	183.43	1262
185.84	1262.7	189.97	1264	192.89	1265.16	194.7	1266	197.27	1266.95
198.67	1267.5	198.74	1267.62	198.79	1267.68	198.96	1267.74	199.09	1267.77
199.21	1267.8	199.28	1267.82	199.33	1267.85	199.39	1267.86	199.44	1267.86
199.87	1267.9	199.96	1267.85	200.16	1267.75	200.2	1267.69	200.34	1267.65
200.52	1267.6	200.78	1267.51	204.01	1266	208.02	1265.06	210.25	1264.39
211.72	1264	213.25	1263.62	220.07	1262	226.82	1260	239.75	1258.7
247.26	1258	250.9	1257.95	258.53	1257.87	261.98	1257.81	263.69	1257.8
264.63	1257.79	267.51	1257.79	274.52	1257.82	275.87	1257.8	279.88	1257.87
284.05	1257.89	286.78	1257.89	295.61	1257.93	299.56	1258	301.66	1258
385.42	1259.52	389.5	1259.6	392.06	1259.62	393.31	1259.64	395.58	1259.66
396.82	1259.7	399.4	1259.67	400.17	1259.67	406.54	1259.85	413.42	1260
489.78	1260	490.39	1260.15	491.05	1260.2	492.31	1260.2	493.93	1260.22
495.89	1260.22	502.31	1260.19	506.64	1260.2	509.1	1260.2	521.99	1260.09
527.35	1260.1	540.41	1260	540.86	1260	548.43	1259.95	551.36	1259.9
555.96	1259.94	568.96	1260	569.62	1260	574.1	1260.05	577.16	1260.03
577.75	1260	584.03	1259.97	587.32	1260	591.51	1259.98	598.06	1260
598.87	1260.02	603.43	1260.2	606.69	1260.4	608.44	1260.47	662.51	1261.6
763.47	1262	854.98	1262.05	855.07	1262	858.97	1262	864.76	1261.95
867.75	1261.91	869.56	1261.89	873.57	1261.9	876.96	1261.86	880.95	1261.84
898.72	1261.8	910.47	1261.8	911.66	1261.81	913.63	1261.84	915.6	1261.84
918.16	1261.85	920.83	1261.85	926.48	1261.8	929.07	1261.84	960.12	1261.9
967.06	1261.93	977.04	1261.93	1003.21	1261.7	1004.42	1261.72	1020.41	1261.65
1022.34	1261.63	1028.56	1261.59	1030.45	1261.6	1045.45	1261.43	1052.32	1261.34
1057.28	1261.3	1059.1	1261.32	1061.32	1261.36	1065.23	1261.46	1067.8	1261.5
1074.85	1261.5	1077.78	1261.47	1082.47	1261.45	1085.17	1261.4	1092.82	1261.38
1096.24	1261.33	1098.72	1261.33	1103.11	1261.3	1166.04	1261.45	1195.57	1261.29
1197.33	1261.29	1198.09	1261.3	1198.77	1261.3	1200.47	1261.32	1201.03	1261.33
1201.34	1261.3	1201.52	1261.35	1201.63	1261.36	1201.73	1261.37	1201.85	1261.38
1202.04	1261.4	1202.45	1261.39	1203.37	1261.4	1203.82	1261.41	1204.29	1261.41
1205.18	1261.4	1205.97	1261.42	1206.4	1261.43	1206.99	1261.43	1207.18	1261.4
1207.43	1261.43	1208.08	1261.43	1209.03	1261.4	1209.15	1261.42	1210.5	1261.4
1211.12	1261.4	1211.81	1261.39	1212.45	1261.4	1213.32	1261.38	1214.27	1261.36
1215.4	1261.35	1216.09	1261.34	1216.94	1261.3	1217.95	1261.33	1218.99	1261.32
1220.68	1261.31	1221.5	1261.31	1222.41	1261.3	1225.98	1261.27	1227.87	1261.24
1231.92	1261.19	1251.32	1260.9	1324.54	1259.95	1327.16	1259.92	1330.26	1259.9
1333.85	1259.9	1370.45	1259.74	1375.05	1259.7	1380.64	1259.73	1388.2	1259.73
1393.22	1259.74	1401.93	1259.8	1412.94	1259.82	1416.89	1259.84	1420.53	1259.87

306.6	1266.56	307.36	1266.71	307.99	1266.84	308.4	1267.01	308.7	1267.1
309.02	1267.19	309.31	1267.23	311.75	1267.25	311.98	1267.2	312.23	1267.2
312.29	1267.07	312.37	1266.97	312.79	1266.81	313.39	1266.59	313.48	1266.4
313.59	1266.24	314.38	1266.01	320.94	1264.2	321.87	1264	325.84	1263.04
327.32	1262.68	329.87	1262	332.61	1261.3	334.15	1261.03	338.02	1260
343.32	1258.46	344.88	1258	359.69	1257.7	364.78	1257.65	368.21	1257.59
385.31	1257.58	392.23	1257.63	406.72	1257.7	410.64	1257.77	431.92	1258
450.79	1258	453.56	1258.01	455.05	1258.01	510.75	1259.2	516.03	1259.21
521.97	1259.29	561.14	1259.6	565.23	1259.57	566.83	1259.57	570.6	1259.59
572.69	1259.59	574.9	1259.6	576.85	1259.56	578.13	1259.52	579.56	1259.48
581.56	1259.35	590.63	1259.3	591.5	1259.34	592.77	1259.36	594.2	1259.37
595.71	1259.37	599.86	1259.4	603.32	1259.36	638.42	1260	653.55	1259.84
661.82	1259.9	664.83	1259.9	674.87	1260	685.47	1260	778.7	1261.02
783.36	1261.05	794.38	1261.18	852.52	1262	956.52	1262	963.09	1261.9
983.6	1261.77	994.79	1261.67	999.35	1261.6	999.41	1261.64	1004.35	1261.59
1004.94	1261.58	1006.23	1261.6	1007.32	1261.57	1008.6	1261.57	1010.55	1261.56
1014.28	1261.55	1015.31	1261.6	1016.48	1261.55	1018.01	1261.55	1018.41	1261.6
1019.05	1261.56	1019.69	1261.57	1020.51	1261.57	1021.35	1261.6	1023.08	1261.56
1026.44	1261.56	1028.7	1261.6	1032.29	1261.57	1036.31	1261.57	1113.02	1260.6
1123.56	1260.55	1184.46	1260	1188.28	1259.92	1195.02	1259.8	1198.11	1259.75
1202.23	1259.7	1210.88	1259.61	1213.73	1259.6	1219.18	1259.56	1223.5	1259.55
1227.73	1259.53	1231.14	1259.53	1233.63	1259.5	1236.79	1259.53	1238.95	1259.53
1240.79	1259.54	1243.06	1259.56	1245.87	1259.6	1248.15	1259.62	1249.78	1259.64
1251	1259.68	1252.19	1259.74	1253.66	1259.8	1255.53	1259.87	1262.32	1260
1264.75	1260.05	1281.45	1260.28	1306.92	1260.49	1311.94	1260.5	1314.27	1260.54
1318.82	1260.55	1320.95	1260.56	1323.9	1260.55	1326.05	1260.5	1328.18	1260.54
1331.25	1260.52	1341.94	1260.43	1343.27	1260.41	1358.29	1260.3	1365.08	1260.22
1379.35	1260.09	1387.34	1260	1425.31	1259.7	1488.07	1258.96	1493.39	1258.96
1496.29	1258.97	1498.17	1259	1499.99	1258.97	1504.93	1258.97	1506.13	1259
1508.01	1258.95	1510.7	1258.94	1511.81	1258.94	1576.93	1259.21	1579.61	1259.2
1583.79	1259.21	1586.24	1259.2	1589.63	1259.2	1592.92	1259.21	1596.88	1259.2
1598.74	1259.22	1600.84	1259.22	1606.67	1259.18	1610.42	1259.1	1616.85	1259.08
1624.96	1258.97	1628.69	1258.96	1634.09	1258.9	1636.8	1258.91	1641.92	1258.91
1645.14	1258.92	1648.17	1258.94	1651.79	1259	1654.44	1259	1657.98	1259.06
1660.11	1259.03	1662	1259.05	1666.9	1259	1670.26	1258.95	1673.62	1258.88
1676.08	1258.82	1679.63	1258.7	1687.85	1258.4	1688.63	1258.4	1699.22	1258
1701.4	1257.99	1712.4	1257.96	1721.81	1257.9	1734.99	1257.89	1760.75	1257.82
1766.12	1257.82	1773.83	1257.8	1792.42	1257.84	1796.07	1257.9	1797.95	1257.88
1800.33	1257.94	1803.16	1257.98	1805	1258	1807.8	1258.1	1820.77	1258.23
1823.78	1258.25	1827.29	1258.26	1830.79	1258.3	1833.45	1258.26	1836.48	1258.25
1841.78	1258.21	1843.41	1258.2	1846.52	1258.11	1850.44	1258.01	1850.96	1258
1854.63	1257.98	1859.94	1258	1863.77	1257.94	1866.69	1257.94	1868.42	1257.93
1878.28	1257.92	1879.74	1257.9	1881.91	1257.93	1886.81	1257.93	1890.53	1257.94
1895.88	1257.94	1897.83	1257.9	1901.49	1257.96	1914.1	1258	1940.14	1259.74
1943.77	1260	1972.07	1260.77	1976.6	1260.88	1990.97	1261.27	2005.93	1261.56
2008.51	1261.6	2010.26	1261.65	2011.95	1261.68	2028.62	1262	2029.29	1262.02
2036.78	1262.3	2043.93	1262.49	2065.79	1263.26	2087.92	1263.84	2090.05	1263.91
2093.92	1264	2111.16	1265.75	2114.18	1266	2140.53	1266.37	2142.25	1266.42
2144.18	1266.5	2162.76	1266.68	2165.95	1266.76	2174.38	1266.84	2177.34	1266.9
2186.96	1267.01	2189.11	1267.03	2193.03	1267.03	2195.32	1267.01	2198.68	1267
2199.39	1266.96	2201.19	1266.98	2203.2	1267.03	2209.59	1267.28	2210.44	1267.3
2215.32	1267.51	2218.53	1267.56	2223.6	1267.75	2225.15	1267.77	2235.5	1268.13
2239.28	1268.22	2241.85	1268.25	2242.69	1268.22	2253.14	1268.03	2253.42	1268.03
2253.53	1268	2253.66	1268.03	2253.75	1268.03	2253.8	1268	2253.96	1268.04
2254.03	1268.05	2259.54	1268.12	2263.19	1268.45	2269.78	1268.8	2281.02	1270
2283.61	1270.86	2287.56	1272	2291.8	1273.63	2292.15	1273.8	2294.7	1274.88
2306.89	1280	2319.18	1282.6	2348.34	1288.7	2350.1	1289.01	2354.95	1290
2371.91	1292	2390.21	1292.6	2405.54	1292.97	2407.74	1292.99	2412.64	1292.99
2417.54	1293	2421.35	1293.06	2426.02	1293.19	2426.67	1293.21	2440.68	1293.83
2446.18	1293.9	2455.39	1293.94	2461.35	1293.9	2461.84	1293.88	2463.26	1293.95

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val

1542.72	1257.35	1543.52	1257.35	1543.93	1257.3	1544.26	1257.35	1544.81	1257.35
1544.87	1257.4	1544.89	1257.35	1545.76	1257.35	1545.82	1257.34	1545.92	1257.3
1546.04	1257.34	1546.34	1257.34	1557.3	1257.42	1643.76	1257.7	1645.28	1257.71
1647.26	1257.71	1648.54	1257.7	1649.65	1257.7	1650.65	1257.68	1651.92	1257.68
1652.84	1257.67	1653.54	1257.67	1653.96	1257.7	1656.32	1257.67	1658.37	1257.67
1659.26	1257.7	1660.54	1257.67	1661.01	1257.67	1661.89	1257.68	1662.83	1257.68
1680.12	1257.74	1713.48	1256.19	1716.49	1256.33	1717.44	1256.3	1718.72	1256.35
1720.16	1256.45	1724.17	1256.5	1727.05	1256.78	1727.11	1256.8	1737.59	1257.83
1738.72	1257.9	1739.5	1258	1745.33	1258.65	1748.4	1258.8	1752.85	1259.04
1760.84	1259.63	1778.9	1259.92	1779.62	1260	1782.02	1260	1785.99	1260.05
1792.22	1260.15	1792.92	1260.16	1798.7	1260.3	1805.45	1260.4	1831.85	1260.99
1846.31	1261.2	1851.97	1261.3	1860.74	1261.42	1864.67	1261.5	1880.42	1261.72
1882.46	1261.8	1884.03	1261.78	1899.27	1262	1901.71	1262.06	1903.22	1262.13
1916.96	1262.6	1920.63	1262.78	1932.51	1263.26	1935.61	1263.35	1942.27	1263.49
1944.6	1263.6	1949.31	1263.65	1955.87	1263.68	1960.29	1263.77	1966.33	1263.96
1982.07	1264.63	1986.21	1264.79	1989.55	1264.89	1992.67	1264.96	1996.91	1265
2000.79	1265.05	2005.64	1265.05	2007.63	1265.07	2016.57	1265.2	2018.24	1265.26
2049.19	1266	2052.82	1266.84	2054.44	1267.4	2062.67	1270	2083.4	1275.43
2087.91	1276.45	2095.46	1277.9	2104.42	1280	2108.71	1281.2	2111.45	1282
2117.05	1283.03	2120.19	1284	2126.75	1285.34	2128.98	1286	2134.06	1286.88
2136.79	1287.21	2139.86	1287.47	2141.64	1287.67	2146.8	1287.9	2151.62	1287.87
2152.36	1287.92	2155.36	1287.79	2155.86	1287.81	2156.17	1287.8	2156.51	1287.81
2156.92	1287.79	2157.7	1287.75	2158.87	1287.67	2161.54	1287.4	2168.22	1286.97
2176.67	1286	2181.57	1285.04	2186.57	1284	2192.75	1282.7	2195.57	1282
2201.53	1280.95	2206.2	1280	2209.03	1279.5	2211.69	1279.2	2214.72	1279.02
2220.72	1278.33	2224.34	1278.26	2225.1	1278.2	2225.55	1278.2	2225.7	1278.15
2226.01	1278.14	2226.58	1278.14	2227.66	1278.2	2231.2	1278.21	2232.15	1278.24
2233.63	1278.31	2237.8	1278.47	2242.88	1278.8	2247.01	1279	2252.02	1279.3
2261.53	1279.94	2261.85	1279.96	2262.36	1280	2278.36	1281.28	2284.17	1281.63
2286.4	1281.8	2296.64	1282.2	2298.79	1282.37	2306.96	1282.7	2310.94	1283.02
2315.6	1283.24	2319.17	1283.5	2320.43	1283.61	2326.4	1284	2330.23	1284.14
2338.45	1284.34	2341.04	1284.5	2347.95	1284.68	2351.77	1284.83	2355.45	1284.99
2359.21	1285.19	2372.53	1285.5	2374.76	1285.62	2376.01	1285.67	2377.04	1285.7
2378.23	1285.72	2385.63	1285.9						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	64.64	.03	2062.67	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
64.64	2062.67	76	182	285	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	135	1266.51	F

CROSS SECTION

RIVER: Santa Clara
REACH: 1 RS: 162

INPUT
Description:
Station Elevation Data num= 377

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1262	10	1262	14.3	1261.15	19.95	1260	22.28	1259.8
25.18	1259.3	31.75	1258.45	39.59	1259.4	48.47	1258.47	52.65	1258
54.89	1258.6	60.52	1260	64.64	1261.49	65.86	1262	69.15	1263.16
71.3	1264	75.91	1265.5	77.32	1266	85.38	1266	88.78	1264.9
91.08	1264	94.37	1263.04	98.26	1262	103.91	1260.28	104.94	1260
115.93	1258	129.08	1257.59	136.71	1257.37	139.97	1257.3	183.36	1257.26
183.72	1257.28	183.88	1257.29	186.18	1257.34	188.21	1257.4	191.81	1257.38
192.79	1257.39	193.48	1257.4	194.19	1257.43	194.88	1257.5	196.31	1257.59

2410.22	1311.42	2415.38	1311.7	2416.15	1311.96	2422.53	1311.59	2424.01	1312.11
2430.33	1311.6	2430.96	1311.8	2439.14	1311.94	2440.14	1311.99	2448.01	1312.17
2450.23	1312	2458.2	1311.7	2460.13	1311.75	2461.11	1311.66	2462.49	1311.42
2472.31	1310	2495.29	1306.9	2497.78	1306.39	2501.17	1305.74	2506.99	1304.74
2518.23	1301.19	2519.73	1300.8						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	75.91	.03	2142.24	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
75.91	2142.24	128	180	197	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	77	1268	F

CROSS SECTION

RIVER: Santa Clara
REACH: 1 RS: 161

INPUT
Description:
Station Elevation Data num= 389

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1260	9.01	1260	9.91	1260.5	15.59	1260.78	17.1	1260
35.27	1260	38.28	1260.79	43.33	1262	44.5	1262.32	49.57	1264
51.09	1264.64	55.36	1266	61.01	1266	62.93	1265	65.32	1264
74.39	1262.47	77.13	1262	82.68	1260.24	83.38	1260	83.46	1259.99
94.51	1258	137	1256.7	138.43	1256.7	139.03	1256.65	146.56	1256.64
146.65	1256.64	147.02	1256.7	147.35	1256.65	147.93	1256.66	148.2	1256.66
148.31	1256.7	148.42	1256.68	148.65	1256.69	149.01	1256.7	149.41	1256.71
149.66	1256.7	149.95	1256.71	151.65	1256.71	152.3	1256.7	152.99	1256.71
153.31	1256.72	154.27	1256.73	154.61	1256.73	154.92	1256.7	155.38	1256.72
155.62	1256.72	155.91	1256.7	156.25	1256.7	156.69	1256.69	157.75	1256.69
158.35	1256.7	161.93	1256.75	163.6	1256.77	165.53	1256.8	168.56	1256.82
170.43	1256.84	172.58	1256.87	179.33	1257	183.28	1257.03	185.51	1257.06
196.2	1257.16	254.29	1257.63	254.91	1257.6	266.38	1257.73	266.92	1257.73
277.51	1257.83	277.9	1257.83	283.21	1257.9	284.17	1257.87	284.49	1257.87
285.13	1257.86	285.79	1257.86	288.05	1257.9	290.09	1257.84	291.72	1257.8
292.87	1257.76	293.71	1257.66	310.33	1257.5	323.7	1257.91	326.44	1258
387.39	1258	480.08	1256	493.24	1256	493.65	1256.02	496.12	1256.1
498.41	1256.12	500.63	1256.08	502.87	1256	512.29	1256	513.56	1256.14
517.56	1256.64	519.85	1256.93	521.61	1257.1	525.87	1257.33	526.75	1257.37
527.73	1257.4	528.81	1257.43	529.35	1257.4	530.32	1257.46	531.01	1257.45
531.42	1257.44	531.61	1257.42	531.69	1257.3	532.13	1257.31	533.03	1257.29
533.61	1257.29	534.76	1257.31	537.95	1257.3	538.93	1257.32	539.52	1257.36
540.11	1257.44	540.57	1257.47	541.19	1257.5	541.96	1257.5	543.45	1257.51
547.26	1257.51	548.01	1257.5	548.67	1257.52	549.72	1257.55	551.83	1257.55
557.16	1257.5	557.68	1257.52	647.48	1257.88	653.09	1257.88	656.79	1257.9
659.54	1257.87	664.53	1257.87	665.86	1257.86	667.14	1257.9	667.73	1257.86
669.52	1257.86	670.33	1257.9	671.1	1257.86	672.38	1257.86	672.68	1257.9
672.87	1257.86	673.64	1257.86	674.23	1257.9	674.76	1257.86	675.59	1257.86
676.39	1257.9	678.33	1257.86	679.1	1257.87	680.26	1257.87	681.07	1257.9
759.46	1257.12	762.8	1257.12	767.18	1257.11	770.71	1257.11	777.48	1257.09
779.5	1257.08	784.14	1257.03	788.8	1256.94	791.71	1256.89	796.9	1256.81
800.12	1256.81	802.26	1256.8	804.59	1256.77	808.67	1256.74	810.59	1256.72
812.95	1256.7	814.84	1256.7	816.34	1256.67	820.15	1256.71	823.76	1256.74
829.21	1256.8	834.44	1256.8	836.85	1256.76	912.58	1256.69	918.61	1256.72
924.37	1256.7	942.88	1256.8	977.32	1256.84	982.22	1256.9	987.01	1256.86
991.22	1256.87	994.2	1256.87	997.86	1256.86	1001.4	1256.8	1004.93	1256.82
1030.92	1256.58	1037.95	1256.5	1051.6	1256.41	1068.11	1256.34	1071.67	1256.32

35.86	1261.5	41.77	1261.21	52.01	1260.19	55.51	1260.81	57.71	1260.71
61.68	1262	65.08	1263.15	67.7	1264	76.94	1264	77.73	1263.5
78.21	1263.39	79.49	1262.82	81.09	1262	85.47	1261.14	88.15	1260.6
90.86	1260	111.76	1258.25	114.68	1258	116.38	1257.88	119.62	1257.7
132.75	1256.73	135.93	1256.52	136.88	1256.47	137.69	1256.45	139.98	1256.4
143.22	1256	202.42	1255.62	207.09	1255.6	218.73	1255.57	219.85	1255.57
222.07	1255.56	225.65	1255.5	227.24	1255.54	230.36	1255.53	231.53	1255.53
235.25	1255.5	248.5	1255.5	249.76	1255.51	252.66	1255.51	253.72	1255.5
257.03	1255.53	258.44	1255.54	318.43	1255.05	322.29	1255.07	326.32	1255.1
330.12	1255.14	333.96	1255.2	336.65	1255.26	339.34	1255.35	343.5	1255.5
351.24	1255.96	352.19	1256	354.83	1256.12	358.18	1256.2	363.22	1256.29
366.11	1256.28	371.68	1256.15	372.17	1256.16	375.58	1256.1	382.96	1256.14
390.56	1256.11	394.78	1256.05	396.59	1256	404.31	1255.7	406.58	1255.6
419.17	1255.03	433.95	1254.3	436	1254.27	437.29	1254.39	439.58	1254.38
442.83	1254.29	450.22	1254	457.61	1254	478.19	1254.45	479.9	1254.5
486.19	1254.66	495.41	1254.93	497.6	1254.98	502.32	1255.13	505.81	1255.2
507.92	1255.25	512.28	1255.37	515.49	1255.45	521.4	1255.4	524.57	1255.34
530.24	1255.33	532.02	1255.3	535.73	1255.21	537.03	1255.2	538.75	1255.22
543.22	1255.31	556.55	1255.67	561.68	1255.8	567.17	1255.88	567.99	1255.89
572.96	1255.96	573.2	1255.97	577.53	1256	585.2	1256	605.13	1255.88
615.31	1255.78	625.9	1255.74	627.13	1255.7	627.98	1255.73	664.79	1255.33
786.26	1254.69	786.44	1254.7	786.73	1254.69	787.2	1254.69	787.63	1254.7
791.59	1254.7	791.78	1254.68	792.05	1254.67	792.49	1254.65	792.88	1254.6
793.82	1254.62	794.53	1254.61	795.4	1254.61	796.3	1254.6	797.18	1254.6
798.24	1254.61	799.76	1254.62	842.38	1254.51	845.09	1254.51	850.19	1254.5
861.61	1254.54	867.45	1254.58	887.05	1254.75	891.36	1254.8	894.59	1254.82
897.64	1254.83	904.16	1254.83	906.92	1254.8	908.99	1254.8	912.72	1254.74
920.27	1254.7	975	1254.28	983.15	1254.28	986.58	1254.3	989.67	1254.29
992.16	1254.3	997.62	1254.3	999.1	1254.31	1003.69	1254.31	1004.97	1254.3
1006.17	1254.32	1009.2	1254.32	1010.1	1254.3	1011.24	1254.32	1015.2	1254.32
1016.09	1254.3	1017.33	1254.31	1018.25	1254.31	1027.03	1254.28	1036.63	1254.3
1043.29	1254.23	1167.89	1253.77	1226.13	1253.04	1230.06	1253.04	1234.36	1253.1
1236.02	1253.05	1237.47	1253.05	1243.46	1253	1245.13	1252.96	1250.2	1252.93
1254.47	1252.93	1255.56	1252.9	1304.3	1252.73	1310.65	1252.77	1311.98	1252.77
1316.46	1252.8	1318.32	1252.8	1389.41	1253.02	1403.78	1253.14	1409.58	1253.2
1413.19	1253.21	1419.22	1253.26	1430.41	1253.3	1431.5	1253.3	1441.7	1253.15
1442.14	1253.11	1442.88	1253.1	1445.34	1253.1	1450.27	1253.13	1452.73	1253.2
1453.67	1253.16	1455.58	1253.2	1457.61	1253.25	1459.3	1253.3	1461.19	1253.3
1462.05	1253.34	1462.76	1253.35	1464.87	1253.35	1465.75	1253.4	1467.01	1253.35
1472.96	1253.3	1475.56	1253.26	1477.98	1253.23	1495.29	1252.98	1502.18	1252.9
1549.65	1252.02	1550.9	1252	1551.36	1251.98	1552.57	1252	1555.27	1251.96
1558.61	1251.95	1565.52	1251.95	1570.51	1251.9	1574.05	1251.95	1605.13	1251.97
1612.59	1252	1616.29	1251.98	1624.56	1251.98	1628.38	1251.97	1631.2	1252
1632.88	1251.96	1633.09	1251.95	1659.06	1251.94	1663.96	1251.95	1670.05	1252
1676.76	1251.99	1678.73	1252	1710.61	1252.21	1721.04	1252.3	1731.65	1252.35
1738.89	1252.41	1744.05	1252.44	1746.72	1252.45	1749.18	1252.5	1750.78	1252.47
1752.27	1252.47	1754.29	1252.48	1757.86	1252.48	1759.56	1252.5	1760.68	1252.48
1765.03	1252.5	1768.91	1252.5	1771.89	1252.51	1775.68	1252.51	1776.14	1252.52
1777.03	1252.5	1777.76	1252.53	1778.4	1252.54	1780.01	1252.54	1781.37	1252.5
1782.7	1252.53	1784.98	1252.53	1785.53	1252.52	1787.61	1252.5	1788.52	1252.5
1860.34	1253.88	1864.12	1254	1879.71	1255.56	1885.2	1256	1900.49	1256.24
1910.66	1256.35	1925.15	1256.55	1954.74	1256.9	1972.59	1257.06	1979.21	1257.13
1982.89	1257.15	1985.49	1257.2	1990.44	1257.21	1996.76	1257.3	2001.7	1257.38
2003.51	1257.4	2005.88	1257.4	2007.66	1257.43	2009.41	1257.44	2011.08	1257.44
2016.05	1257.43	2018.99	1257.4	2022.23	1257.41	2025.62	1257.4	2039.19	1257.43
2041.97	1257.4	2051.81	1257.45	2057.51	1257.43	2079	1257.54	2081.43	1257.5
2086.97	1257.57	2094.61	1257.64	2102.65	1257.74	2107.08	1257.81	2115.35	1258
2115.44	1257.99	2116.01	1258	2133.78	1258.83	2138.21	1259.08	2148.5	1259.6
2154.82	1259.89	2157.8	1260	2159.89	1260.04	2164.23	1260.1	2172.4	1260.1
2180.26	1260.17	2181.21	1260.19	2182.09	1260.2	2183.39	1260.22	2206.24	1260.5
2209.46	1260.53	2211.4	1260.57	2218.14	1260.67	2227.04	1260.92	2231.07	1261
2237.59	1261.24	2242.27	1261.37	2244.16	1261.41	2245.15	1261.42	2247.61	1261.4
2258.49	1262	2260.5	1262.29	2273.04	1264	2278.95	1265.64	2280.6	1266

1777.64	1253.1	1778.99	1253.1	1780	1253.14	1781.07	1253.22	1781.6	1253.24
1782.46	1253.3	1783.96	1253.28	1786.5	1253.32	1787.54	1253.33	1788.65	1253.33
1790.75	1253.3	1791.72	1253.33	1792.58	1253.32	1794.05	1253.3	1795.72	1253.27
1796.69	1253.3	1798.45	1253.26	1799.67	1253.25	1800.67	1253.23	1801.39	1253.22
1803.27	1253.1	1804.4	1253.09	1805.56	1253	1806.96	1252.9	1808.03	1252.86
1809.31	1252.8	1810.29	1252.85	1857.97	1252.46	1858.5	1252.46	1860.63	1252.48
1861.18	1252.5	1862.84	1252.5	1863.25	1252.51	1864.09	1252.51	1865.42	1252.52
1867.23	1252.52	1868.38	1252.5	1869.22	1252.52	1869.75	1252.53	1870.41	1252.53
1870.69	1252.5	1871.06	1252.53	1871.62	1252.53	1872.09	1252.5	1872.67	1252.53
1873.75	1252.52	1874.74	1252.52	1874.87	1252.5	1874.97	1252.51	1875.18	1252.5
1876.55	1252.48	1878.22	1252.5	1881.44	1252.43	1883.38	1252.41	1895.97	1252.31
1914.58	1252.2	1935.65	1252	1940.28	1251.94	1948.23	1251.86	1954.95	1251.81
1965.72	1251.7	1970.05	1251.72	1973.14	1251.72	1978.8	1251.74	1982.09	1251.76
1984.77	1251.8	1986.92	1251.84	1991.65	1252	1995.06	1252.05	2029.59	1252.6
2051.22	1252.53	2051.33	1252.49	2052.43	1252.45	2054.56	1252.42	2057.52	1252.4
2060.44	1252.4	2062.41	1252.41	2067.88	1252.43	2069.76	1252.44	2075.89	1252.5
2081.78	1252.5	2086.34	1252.51	2089.96	1252.51	2096.53	1252.46	2099.14	1252.4
2106.46	1252.29	2108.7	1252.31	2112.01	1252.27	2113.05	1252.3	2116.95	1252.27
2117.76	1252.27	2125.85	1252.26	2126.66	1252.26	2130.47	1252.3	2141.82	1252.35
2146.22	1252.36	2166.04	1252.3	2172.62	1252.23	2177.66	1252.16	2186.19	1252
2193.55	1251.9	2207.8	1251.84	2225.13	1251.71	2230.06	1251.69	2235.96	1251.7
2243.33	1251.65	2264.45	1251.64	2268.34	1251.6	2272.24	1251.61	2278.29	1251.56
2280.2	1251.53	2281.31	1251.5	2282.4	1251.44	2297.85	1251.28	2299.57	1251.28
2300.96	1251.27	2305.05	1251.3	2306.63	1251.25	2311.03	1251.24	2314.77	1251.24
2316.01	1251.2	2319.22	1251.25	2321.65	1251.26	2328.07	1251.3	2331.85	1251.35
2335.09	1251.37	2342.55	1251.43	2356.99	1251.5	2400.65	1251.15	2408.42	1251.18
2412.52	1251.15	2414.84	1251.2	2417.5	1251.15	2435.15	1251.19	2441.29	1251.19
2443.01	1251.2	2446.16	1251.2	2447.5	1251.21	2449.68	1251.2	2451.32	1251.17
2452.35	1251.1	2452.67	1251.1	2470.39	1250.98	2489.58	1251.25	2505.42	1251.4
2512.17	1251.51	2517.5	1251.57	2521.85	1251.6	2525.07	1251.64	2526.92	1251.7
2531.11	1251.68	2535.01	1251.72	2540.99	1251.74	2541.76	1251.7	2545.22	1251.75
2581.94	1251.81	2590.44	1251.79	2594.69	1251.8	2598.36	1251.75	2606.83	1251.69
2609.06	1251.68	2612.5	1251.7	2614.7	1251.63	2615.26	1251.63	2616.06	1251.62
2616.18	1251.6	2616.32	1251.61	2617.5	1251.61	2617.86	1251.6	2618.45	1251.61
2621.78	1251.61	2622.66	1251.6	2623.58	1251.61	2625.06	1251.61	2625.54	1251.6
2625.9	1251.61	2629.44	1251.61	2630.07	1251.6	2630.86	1251.61	2631.74	1251.61
2632.61	1251.62	2633.57	1251.62	2634.47	1251.6	2635.9	1251.63	2637.59	1251.63
2639.58	1251.64	2641.04	1251.64	2642.69	1251.6	2643.88	1251.65	2726.84	1250.87
2729.91	1250.87	2731.64	1250.88	2738.1	1250.9	2740.83	1250.89	2746.21	1250.9
2748.65	1250.9	2750.21	1250.92	2753.67	1251	2757.39	1250.99	2762.16	1251
2768.81	1251.03	2772.83	1251	2779.38	1251.07	2786.14	1251.08	2788.71	1251.1
2790.81	1251.13	2797.91	1251.2	2802.69	1251.29	2805.06	1251.3	2834.39	1251.92
2836.5	1251.92	2839.05	1251.9	2841.73	1251.93	2845.71	1251.92	2851.53	1251.92
2853.09	1251.9	2853.46	1251.91	2853.64	1251.9	2854.37	1251.89	2855.08	1251.89
2857.16	1251.9	2861.56	1251.9	2863.99	1251.91	2866.29	1251.91	2869.12	1251.9
2871.36	1251.94	2873.91	1251.95	2877.1	1251.98	2881.57	1252	2941.59	1252
2950.32	1253.32	2954.28	1254	2966.93	1254.35	2974.99	1254.54	2979.87	1254.62
2983.55	1254.7	2986.48	1254.65	2995.66	1254.57	2997.41	1254.6	3001.09	1254.61
3003	1254.6	3007.97	1254.67	3009.99	1254.68	3015.99	1254.75	3022.67	1254.75
3027.46	1254.8	3031.75	1254.92	3036.45	1254.91	3040.55	1254.99	3046.79	1255.07
3052.63	1255	3058.32	1255.11	3064.38	1255.08	3069.83	1255.14	3075.23	1255.13
3080.53	1255.1	3084.86	1255.17	3090.9	1255.15	3094.49	1255.2	3100.69	1255.18
3108.21	1255.2	3118.78	1255.17	3122.2	1255.18	3129.92	1255.25	3130.11	1255.2
3145.87	1255.43	3152.33	1255.51	3181.55	1256	3184.24	1256.06	3207.69	1256.55
3231.61	1256.97	3238.49	1257.1	3242.01	1257.11	3244.87	1257.13	3247.24	1257.14
3252.3	1257.11	3256.88	1257.3	3259.37	1257.28	3262.78	1257.38	3265.86	1257.4
3269.8	1257.49	3277.45	1257.6	3279.33	1257.67	3287.79	1257.84	3288.46	1257.85
3294.64	1258	3298.45	1258.1	3298.9	1258.07	3308.32	1258.22	3322.57	1258.39
3329.9	1258.5	3333.45	1258.54	3335.69	1258.55	3338.6	1258.54	3340.95	1258.5
3341.85	1258.5	3345.31	1258.33	3347.86	1258.25	3350.55	1258.27	3352.05	1258.25
3354.01	1258.3	3355.71	1258.29	3358.04	1258.32	3361.26	1258.39	3363.83	1258.43
3381.99	1258.8	3385.7	1258.93	3422.68	1260	3432.67	1261.9	3441.07	1263.37
3454.69	1264.8	3471.25	1267.04	3496.22	1269.27	3498.42	1269.5	3503.73	1270

1515.29	1250.1	1518.25	1250.13	1521.23	1250.1	1525.71	1250	1545.67	1250
1548.15	1250.07	1552.51	1250.27	1554.78	1250.3	1559.15	1250.42	1602.98	1250.51
1603.24	1250.48	1603.98	1250.47	1605.4	1250.5	1611.1	1250.54	1613.16	1250.55
1615.01	1250.55	1616.47	1250.53	1618.11	1250.5	1621.67	1250.34	1623.14	1250.3
1625.16	1250.29	1627.51	1250.3	1637.01	1250.4	1639.38	1250.38	1641.71	1250.38
1645.72	1250.34	1647.46	1250.3	1652.62	1250.13	1654.78	1250.09	1656.82	1250.09
1657.78	1250.1	1658.44	1250.26	1659.75	1250.35	1661.97	1250.66	1662.58	1250.7
1663.59	1250.71	1666.37	1250.71	1670.57	1250.65	1677.63	1250.6	1683.77	1250.53
1687.4	1250.51	1689.06	1250.49	1690.21	1250.46	1692.41	1250.3	1694.68	1250.17
1696.79	1250.11	1699.46	1250.06	1702.15	1250.03	1716.23	1250.12	1719.09	1250.08
1721.58	1250.07	1722.89	1250.1	1739.45	1250	1760.9	1250	1763.85	1249.92
1776.5	1250	1779.89	1250	1782.22	1250.02	1810.43	1250.2	1814.08	1250.2
1817.46	1250.23	1820.45	1250.23	1823.01	1250.24	1826.17	1250.23	1830.66	1250.2
1841.46	1250.2	1853.67	1250.23	1855.97	1250.2	1860.4	1250.23	1870.04	1250.23
1874.23	1250.22	1882.12	1250.22	1884.91	1250.2	1888.29	1250.24	1892.49	1250.26
1900.36	1250.32	1902.99	1250.35	1904.97	1250.4	1906.75	1250.41	1910.85	1250.45
1912.47	1250.45	1914.33	1250.5	1917.32	1250.46	1920.3	1250.45	1923.07	1250.45
1925.59	1250.44	1927.18	1250.4	1929.6	1250.42	1937.78	1250.37	1955.35	1250.2
1990.12	1250	1999.27	1249.99	2048.89	1250	2052.68	1250.1	2056.19	1250.13
2058.27	1250.16	2060.79	1250.19	2062.88	1250.2	2066.89	1250.2	2071.43	1250.22
2076.02	1250.22	2086.54	1250.2	2093.04	1250.2	2116.48	1250.08	2128.38	1250
2188.26	1249.27	2191.25	1249.23	2192.18	1249.2	2192.96	1249.21	2193.52	1249.2
2193.99	1249.19	2194.59	1249.19	2194.79	1249.2	2194.92	1249.18	2195.71	1249.18
2195.95	1249.2	2196.13	1249.18	2196.38	1249.18	2196.85	1249.19	2197.27	1249.2
2198.29	1249.2	2199.08	1249.21	2199.54	1249.21	2200.48	1249.2	2200.77	1249.23
2255.91	1250	2265.54	1250.1	2290.87	1250.29	2296.18	1250.32	2299.74	1250.3
2305.15	1250.35	2323.07	1250.35	2327.22	1250.3	2332.06	1250.31	2340.95	1250.25
2341.09	1250.25	2350.74	1250.19	2354.76	1250.2	2359.54	1250.17	2383.29	1250.18
2390.22	1250.2	2397.31	1250.14	2410.16	1250.09	2423.91	1250	2430.78	1249.9
2438.74	1249.71	2439.42	1249.7	2447.93	1249.49	2452.41	1249.43	2457.65	1249.3
2460.06	1249.29	2478.28	1248.87	2484.62	1248.69	2486.88	1248.6	2488.05	1248.6
2489.26	1248.58	2490.52	1248.57	2491.48	1248.56	2493.08	1248.6	2496.24	1248.57
2498.75	1248.58	2501.56	1248.6	2502.8	1248.6	2503.82	1248.65	2508.72	1248.81
2510.79	1248.86	2513.36	1248.9	2526.31	1249.14	2529.54	1249.26	2534.46	1249.48
2535.55	1249.48	2545.75	1250	2560.9	1250.55	2563.78	1250.63	2567.48	1250.71
2570.33	1250.8	2572.07	1250.78	2573.13	1250.79	2575.34	1250.78	2576.81	1250.77
2579.47	1250.7	2581.09	1250.71	2582.66	1250.66	2584.1	1250.56	2584.81	1250.45
2585.66	1250.3	2587.32	1250.22	2590.65	1250.11	2595.24	1250	2605.74	1250
2617	1250.19	2710.94	1252	2713.39	1252.05	2727.16	1252.31	2733	1252.4
2740.92	1252.5	2752.61	1252.55	2755.52	1252.55	2770.65	1252.5	2771.47	1252.47
2783.1	1252.41	2785.73	1252.43	2789.87	1252.43	2792.74	1252.5	2795.32	1252.49
2797.89	1252.52	2801.41	1252.6	2804.29	1252.7	2807.97	1252.76	2812.03	1252.78
2816.36	1252.89	2822.03	1252.94	2827.64	1253.1	2834.91	1253.15	2842.99	1253.34
2848.81	1253.44	2867.21	1253.8	2868.12	1253.81	2869.02	1253.84	2879.49	1254
2903.19	1254.22	2904.5	1254.2	2913.85	1254.31	2933.68	1254.42	2935.06	1254.4
2941.75	1254.47	2943.21	1254.48	2959.32	1254.61	2961.01	1254.62	2967.94	1254.7
2972.09	1254.67	2977.93	1254.69	2981.76	1254.71	2989.04	1254.8	2994.49	1254.8
3009.24	1254.83	3012.46	1254.83	3014.12	1254.8	3014.69	1254.81	3017.8	1254.83
3028.66	1254.92	3031.15	1254.95	3033.66	1255	3036.26	1255.03	3040.01	1255.12
3044.8	1255.25	3053.67	1255.52	3066.92	1256	3168.65	1259.25	3182.98	1259.6
3189.47	1259.8	3197.42	1259.92	3204.45	1260	3211.48	1260.19	3217.73	1260.5
3218.18	1260.54	3218.55	1260.55	3218.83	1260.57	3219.33	1260.61	3220.32	1260.7
3221.05	1260.77	3221.73	1260.84	3229.41	1261.78	3238.18	1262.7	3296.26	1269.9

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	1119.8	.03	3168.65	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1119.8	3168.65	246	120	52	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	1125.27	1256.75	F

1566.96	1248.17	1568.79	1248.14	1580.49	1248	1592.2	1248	1606.29	1248.13
1615.51	1248.08	1616.3	1248.1	1618.25	1248.04	1620.49	1248.05	1623.47	1248.07
1625.87	1248.12	1627.2	1248.2	1653.02	1248.19	1653.9	1248.18	1666.8	1248
1668.02	1248	1692.29	1247.59	1697.36	1247.52	1708.46	1247.41	1712.72	1247.4
1718.03	1247.36	1721.61	1247.35	1750.9	1247.4	1759.1	1247.4	1767.9	1247.5
1773.95	1247.52	1774.55	1247.52	1780.51	1247.53	1781.08	1247.5	1781.32	1247.54
1782.62	1247.58	1783.06	1247.59	1783.71	1247.59	1784.82	1247.6	1785.93	1247.59
1787.94	1247.56	1789.16	1247.5	1790.57	1247.49	1792.19	1247.46	1793.35	1247.45
1798.69	1247.44	1815.17	1247.37	1816.11	1247.37	1824.97	1247.35	1828.63	1247.32
1833.48	1247.2	1835.5	1247.24	1837.98	1247.25	1842.26	1247.29	1845.54	1247.34
1859.44	1247.62	1872.67	1247.94	1875.3	1248	1885.95	1248.2	1903.83	1248.49
1909.84	1248.62	1913.91	1248.69	1917.05	1248.7	1923.32	1248.81	1933.38	1248.9
1940.09	1248.93	1944.36	1248.9	1948.56	1248.95	1955.93	1248.97	1958.51	1248.97
1961.28	1249	1964.22	1248.95	1967.95	1248.93	1973.98	1248.86	1976.61	1248.8
1981.32	1248.74	2000.42	1248.34	2019.04	1248	2054.8	1247.81	2054.95	1247.81
2065.62	1247.75	2067.86	1247.7	2070.07	1247.74	2072.97	1247.73	2075.22	1247.73
2077.45	1247.72	2080.36	1247.7	2083.24	1247.73	2093.65	1247.74	2096.65	1247.75
2099.6	1247.8	2113.68	1247.79	2120.86	1247.82	2123.69	1247.84	2129.63	1247.9
2146.56	1248	2147.13	1248.01	2153.06	1248	2159	1248.06	2167.75	1248.03
2172.05	1248	2181.72	1248	2189.1	1247.95	2212.88	1247.93	2213.05	1247.9
2213.26	1247.93	2213.74	1247.93	2213.82	1247.9	2213.99	1247.93	2214.39	1247.93
2227.25	1247.9	2232.87	1247.93	2269.83	1248	2275.2	1247.99	2287.49	1247.93
2292.5	1247.89	2295.67	1247.9	2299.58	1247.79	2302.97	1247.74	2306.27	1247.7
2309.42	1247.68	2312.51	1247.6	2314.9	1247.61	2322.9	1247.47	2326.65	1247.42
2340.43	1247.5	2340.52	1247.5	2341.33	1247.53	2343.14	1247.56	2354.09	1247.8
2356.06	1247.92	2357.94	1248	2374.68	1248.33	2384.27	1248.5	2391.98	1248.61
2397.85	1248.68	2410.77	1248.81	2414.94	1248.87	2420.83	1249	2424.51	1249.04
2430.33	1249.16	2433.93	1249.22	2435.97	1249.25	2437.86	1249.3	2440.06	1249.28
2447.65	1249.28	2450.62	1249.34	2452.52	1249.4	2455.87	1249.4	2457.23	1249.41
2460.68	1249.45	2463.97	1249.46	2471.16	1249.4	2478.3	1249.44	2481.35	1249.47
2484.6	1249.51	2486.29	1249.55	2489.96	1249.6	2502.21	1250	2623.42	1251.52
2626.91	1251.6	2627.8	1251.57	2628.06	1251.58	2628.77	1251.58	2629.02	1251.6
2629.19	1251.59	2629.92	1251.59	2630.13	1251.6	2630.25	1251.59	2630.83	1251.59
2631.18	1251.6	2631.38	1251.59	2632.52	1251.59	2722.92	1251.7	2730.74	1251.8
2748.33	1251.92	2757.38	1252	2758.84	1252.02	2758.99	1252.02	2779.04	1252.35
2780.83	1252.36	2782.12	1252.4	2787.58	1252.46	2792.67	1252.48	2807.19	1252.72
2809.26	1252.72	2810.08	1252.7	2813.34	1252.73	2826.58	1252.83	2830.95	1252.9
2835.48	1252.93	2908.42	1254	2909.56	1254.1	2910.95	1254.19	2914.43	1254.4
2930.29	1255.48	2945.51	1256.2	2950.33	1256.47	2965.47	1257.26	2968.29	1257.42
2977.45	1258	2989.39	1258.6	3000.08	1259.11	3020.04	1259.68	3024.91	1259.86
3030.38	1260	3067.65	1263.78	3071.72	1264.3	3079.49	1265.16	3084.86	1265.77
3096.83	1267.2	3102.18	1267.83	3112.09	1268.78	3114.32	1269.06	3119.88	1269.44
3135	1270								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	1008.28	.03	2977.45	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1008.28	2977.45	298	184	118	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	949.64	1255	F

CROSS SECTION

RIVER: Santa Clara
REACH: 1 RS: 156

INPUT
Description:
Station Elevation Data num= 466

1388.02	1246.3	1395.12	1246.42	1399	1246.47	1403.18	1246.51	1407.8	1246.54
1412.72	1246.6	1417.33	1246.55	1420	1246.54	1423.53	1246.51	1431.16	1246.4
1438.76	1246.19	1454.1	1246.02	1455.44	1246	1459.07	1245.93	1459.24	1245.93
1469.96	1245.69	1476.13	1245.57	1480.68	1245.5	1484.94	1245.47	1499.06	1245.41
1499.86	1245.41	1509.3	1245.3	1512.14	1245.31	1519.61	1245.3	1521.85	1245.28
1527.35	1245.22	1529.79	1245.2	1533.51	1245.21	1537.17	1245.23	1539.67	1245.26
1543.45	1245.32	1549.38	1245.4	1553.18	1245.5	1557.32	1245.55	1558.02	1245.57
1558.34	1245.58	1559.57	1245.6	1561.17	1245.68	1561.93	1245.72	1562.25	1245.73
1562.78	1245.74	1563	1245.7	1563.18	1245.76	1568.59	1245.77	1568.69	1245.7
1568.8	1245.67	1569.08	1245.66	1569.81	1245.66	1570.55	1245.7	1571.07	1245.68
1571.59	1245.68	1572.01	1245.67	1572.16	1245.66	1572.68	1245.6	1573.31	1245.61
1574.71	1245.57	1578.81	1245.61	1579.39	1245.6	1588.23	1245.6	1597.64	1245.7
1601.62	1245.78	1605.3	1245.88	1608.68	1246	1612.12	1246.1	1613.86	1246.14
1615.07	1246.25	1616.1	1246.35	1618.17	1246.44	1664.93	1246.4	1666.46	1246.34
1667.86	1246.33	1670.44	1246.32	1686.25	1246.31	1687.12	1246.3	1697.24	1246.3
1706.4	1246.39	1714.95	1246.44	1717.48	1246.4	1719.43	1246.43	1723.28	1246.34
1725.36	1246.31	1729.47	1246.28	1732.49	1246.3	1734.26	1246.27	1757.51	1246.26
1760.41	1246.27	1918.86	1247.9	1927.27	1247.97	1932.07	1248	1936.32	1248.2
1952.54	1248.63	1958.55	1248.77	1968.39	1248.98	1972.49	1249	1981.3	1249.23
1988.71	1249.31	1999.44	1249.52	2013.62	1249.6	2016.76	1249.67	2026.53	1249.73
2028.25	1249.76	2033.88	1249.77	2035.25	1249.8	2036.2	1249.8	2037.47	1249.82
2042.71	1249.82	2056.25	1249.88	2068.61	1249.9	2080.71	1249.86	2138.66	1249.93
2149.25	1249.9	2160.42	1249.99	2160.74	1249.99	2162.97	1250	2207.11	1250.37
2211.62	1250.4	2214.9	1250.49	2252.55	1250.89	2255.69	1250.93	2261.52	1250.99
2274.55	1251.1	2289.57	1251.29	2303.87	1251.43	2317.96	1251.6	2340.4	1252
2373.38	1254	2401.25	1255.3	2409.77	1255.71	2416.64	1256	2422.9	1256.46
2428.92	1256.81	2440.74	1257.54	2442.74	1257.63	2443.77	1257.67	2443.98	1257.68
2445.94	1257.7	2450.29	1257.94	2453.62	1258	2454.94	1258.02	2463.63	1258.08
2471.83	1258.1	2471.96	1258.15	2475.88	1258.29	2476.51	1258.33	2477.18	1258.33
2478.99	1258.28	2479.78	1258.29	2481.22	1258.32	2481.99	1258.34	2483.61	1258.4
2485.78	1258.54	2505.32	1260	2514.76	1260.81	2526.12	1261.88	2530.74	1262.46
2581.77	1269.86								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	492.24	.03	2428.92	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
492.24	2428.92	121	232	363	.1	.3

CROSS SECTION

RIVER: Santa Clara
REACH: 1 RS: 155

INPUT
Description:
Station Elevation Data num= 500

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1249	3.13	1249	4.36	1248.99	7.16	1248.95	50.28	1248.42
83.9	1248.9	85.02	1248.86	88.15	1248.91	132.31	1248.91	136.53	1248.69
138.99	1248.6	141.01	1248.59	144.81	1248.54	147.45	1248.53	148.23	1248.53
158.37	1248.5	187.75	1248	203.34	1247.86	205.94	1247.81	206.45	1247.79
281.61	1247.7	299.85	1248	336.41	1248.93	336.49	1248.93	336.59	1248.93
336.83	1248.93	338.54	1248.9	404.32	1248	405.32	1248	409.13	1247.94
411.47	1247.93	413.05	1247.91	414.34	1247.9	416.01	1247.9	424.44	1247.95
426.55	1247.95	428.55	1247.9	433.49	1248	444.93	1248	450.39	1248.68
459.92	1250	503.48	1251.2	537.35	1252	561.81	1252	561.97	1251.9
562.35	1251.86	568.48	1250.44	570.73	1250	575.1	1249.31	583.25	1248
587.9	1246.36	588.98	1246	594.99	1245.27	603.26	1244.28	605.38	1244
606.22	1243.97	609.41	1243.88	615	1243.76	616.18	1243.7	617.07	1243.7
617.59	1243.69	618.24	1243.68	619	1243.68	619.8	1243.7	620.58	1243.68

1611.15	1242.2	1611.23	1242.18	1611.31	1242.18	1611.43	1242.21	1611.59	1242.23
1612.02	1242.3	1612.58	1242.3	1613.29	1242.34	1613.63	1242.36	1614.39	1242.43
1619.87	1243	1628.21	1244	1635.72	1244.79	1646	1246	1648.33	1246
1654.09	1246.1	1659.35	1246.14	1662.23	1246.15	1666.08	1246.2	1669.98	1246.17
1676.63	1246.17	1679.6	1246.16	1682	1246.2	1682.28	1246.15	1690.59	1246.09
1693.8	1246.06	1698.18	1246	1708.4	1245.9	1739.14	1245.65	1749.19	1245.55
1751.84	1245.5	1751.94	1245.53	1762.09	1245.49	1765.18	1245.5	1767.11	1245.46
1770.45	1245.44	1771.91	1245.42	1772.79	1245.41	1773.28	1245.4	1773.5	1245.4
1773.71	1245.37	1776.21	1245.36	1777.2	1245.36	1777.93	1245.4	1778.55	1245.36
1779.74	1245.35	1780.28	1245.35	1781.27	1245.34	1781.98	1245.3	1782.63	1245.34
1783.22	1245.34	1783.71	1245.35	1784.02	1245.35	1784.55	1245.4	1785.15	1245.38
1786.92	1245.41	1789.46	1245.44	1792.06	1245.5	1795.01	1245.47	1800.39	1245.52
1805.29	1245.59	1809.65	1245.6	1812.29	1245.68	1817.33	1245.72	1823.05	1245.73
1826.48	1245.7	1830.4	1245.78	1832.63	1245.79	1855.72	1246	1900.64	1246.91
1903.16	1247	1906.86	1247.05	1961.75	1247.94	1965.1	1247.94	1967.81	1247.9
1970.67	1247.94	1974.72	1247.95	2005.92	1248	2055.7	1248	2089.72	1248.26
2100.07	1248.3	2111.08	1248.4	2122.43	1248.47	2131.89	1248.51	2139.74	1248.5
2142.58	1248.56	2146.87	1248.58	2150.66	1248.61	2153.58	1248.62	2158.19	1248.6
2161.63	1248.65	2162.9	1248.65	2166.67	1248.66	2167.59	1248.67	2311.19	1250
2312.15	1250	2339.58	1250.57	2350.42	1250.78	2356.52	1250.88	2360.11	1250.9
2366.08	1250.99	2370.86	1251.04	2371.17	1251.04	2378.01	1251.09	2384.08	1251.2
2389.53	1251.37	2391.07	1251.39	2398.48	1251.53	2415.71	1251.8	2423.08	1251.9
2425.81	1252	2429.91	1252.46	2448.54	1254	2460.33	1255.04	2469.27	1256
2479.6	1256.94	2488.11	1258	2503.73	1259.2	2507.86	1259.5	2509.42	1259.6

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	561.81	.03	2429.91	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
561.81	2429.91	745	220	330	.1	.3

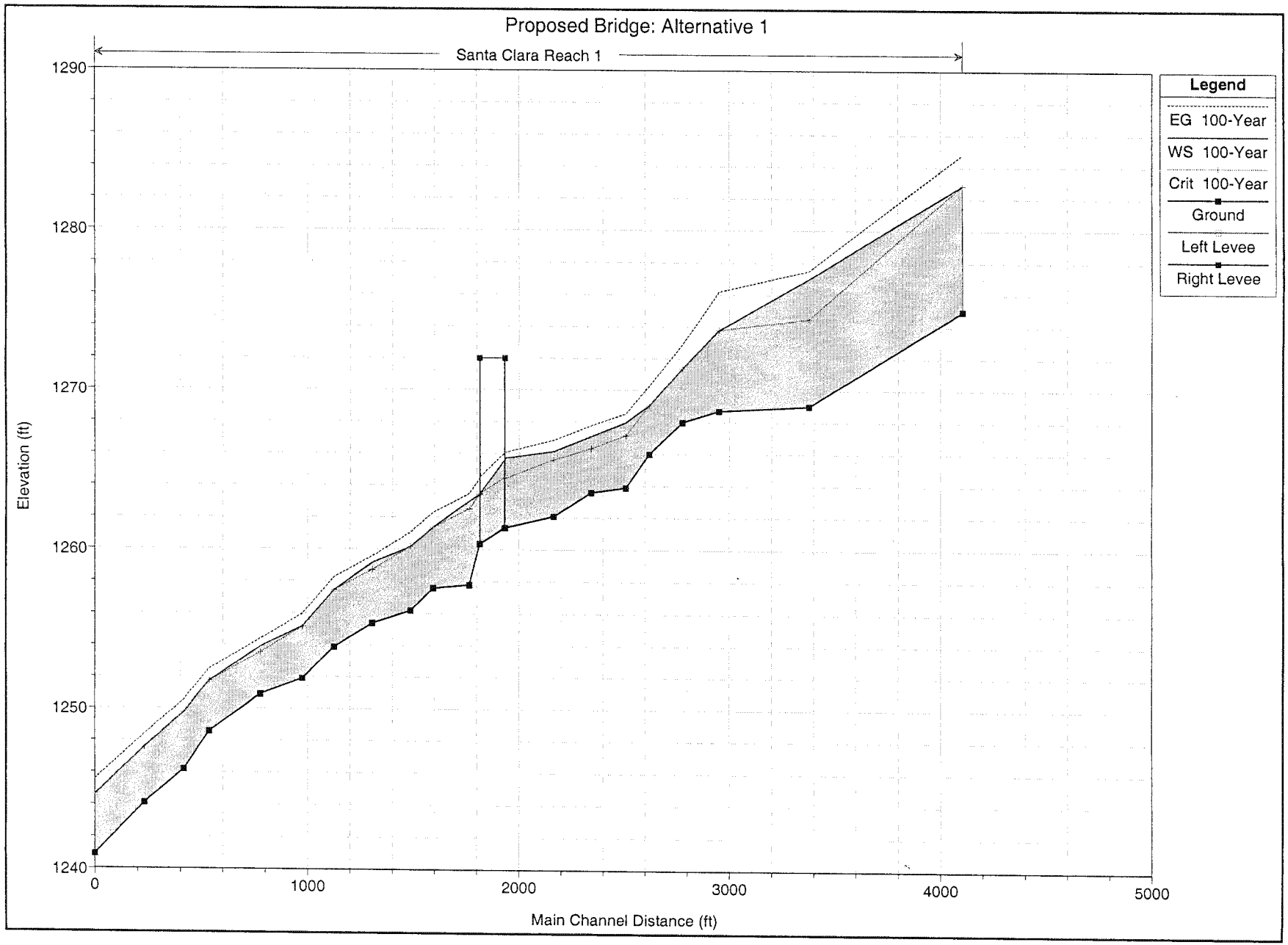
SUMMARY OF MANNING'S N VALUES

River:Santa Clara

Reach	River Sta.	n1	n2	n3
1	174	.06	.03	.06
1	173	.06	.03	.06
1	172	.06	.03	.06
1	171	.06	.03	.06
1	170	.06	.03	.06
1	169	.06	.03	.06
1	168	.06	.03	.06
1	167	.06	.03	.06
1	166	.06	.03	.06
1	165.5	.06	.03	.06
1	165	.06	.03	.06
1	164	.06	.03	.06
1	163	.06	.03	.06
1	162	.06	.03	.06
1	161	.06	.03	.06
1	160	.06	.03	.06
1	159	.06	.03	.06
1	158	.06	.03	.06
1	157	.06	.03	.06
1	156	.06	.03	.06
1	155	.06	.03	.06

HEC-RAS Plan: Alt. 1 River: Santa Clara Reach: Reach 1 Profile: 100-Year

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach 1	174	100-Year	15272.00	1275.00	1282.84	1282.84	1284.78	0.005994	11.47	1583.56	1375.84	0.89
Reach 1	173	100-Year	15272.00	1269.00	1277.00	1274.52	1277.51	0.001339	5.89	2832.70	2356.12	0.43
Reach 1	172	100-Year	15272.00	1268.71	1273.81	1273.81	1276.19	0.007741	12.37	1234.26	2026.21	1.00
Reach 1	171	100-Year	15272.00	1268.00	1271.40	1271.40	1272.89	0.009201	9.82	1554.86	1955.56	1.00
Reach 1	170	100-Year	15272.00	1266.00	1269.06	1269.06	1270.29	0.009827	9.32	1879.44	1791.87	1.02
Reach 1	169	100-Year	15272.00	1263.90	1267.99	1267.15	1268.52	0.003905	6.31	2863.50	1948.31	0.65
Reach 1	168	100-Year	15272.00	1263.60	1267.10	1266.34	1267.78	0.005388	7.39	2558.50	1891.44	0.76
Reach 1	167	100-Year	15272.00	1262.08	1266.15	1265.62	1266.85	0.006069	7.37	2528.21	1595.89	0.80
Reach 1	166	100-Year	15272.00	1261.35	1265.72	1264.46	1266.08	0.002157	5.18	3561.03	1100.00	0.50
Reach 1	165.9		Bridge									
Reach 1	165.5	100-Year	15272.00	1260.35	1263.46	1263.46	1264.43	0.010667	8.47	2171.13	1100.00	1.02
Reach 1	165	100-Year	15272.00	1257.79	1263.02	1262.53	1263.50	0.004707	5.60	2724.85	1791.63	0.68
Reach 1	164	100-Year	15272.00	1257.58	1261.37	1261.37	1262.29	0.010758	7.73	1976.16	1619.11	1.00
Reach 1	163	100-Year	15272.00	1256.19	1260.16	1260.16	1261.05	0.010590	7.58	2014.97	1403.98	0.99
Reach 1	162	100-Year	15272.00	1255.40	1259.16	1258.72	1259.56	0.004798	5.04	3031.80	1732.89	0.67
Reach 1	161	100-Year	15272.00	1253.90	1257.46	1257.46	1258.26	0.011281	7.16	2132.21	1341.81	1.00
Reach 1	160	100-Year	15272.00	1251.90	1255.21	1255.18	1255.99	0.010541	7.07	2160.59	1318.22	0.97
Reach 1	159	100-Year	15272.00	1250.87	1253.91	1253.54	1254.40	0.005731	5.64	2708.68	1468.79	0.73
Reach 1	158	100-Year	15272.00	1248.56	1251.74	1251.74	1252.49	0.011546	6.93	2202.78	1481.18	1.00
Reach 1	157	100-Year	15272.00	1246.18	1249.75	1249.75	1250.51	0.011444	7.00	2181.92	1436.14	1.00
Reach 1	156	100-Year	15272.00	1244.10	1247.57	1247.57	1248.37	0.011403	7.15	2134.93	1356.49	1.00
Reach 1	155	100-Year	15272.00	1240.90	1244.61	1244.61	1245.56	0.010751	7.84	1949.01	1033.46	1.01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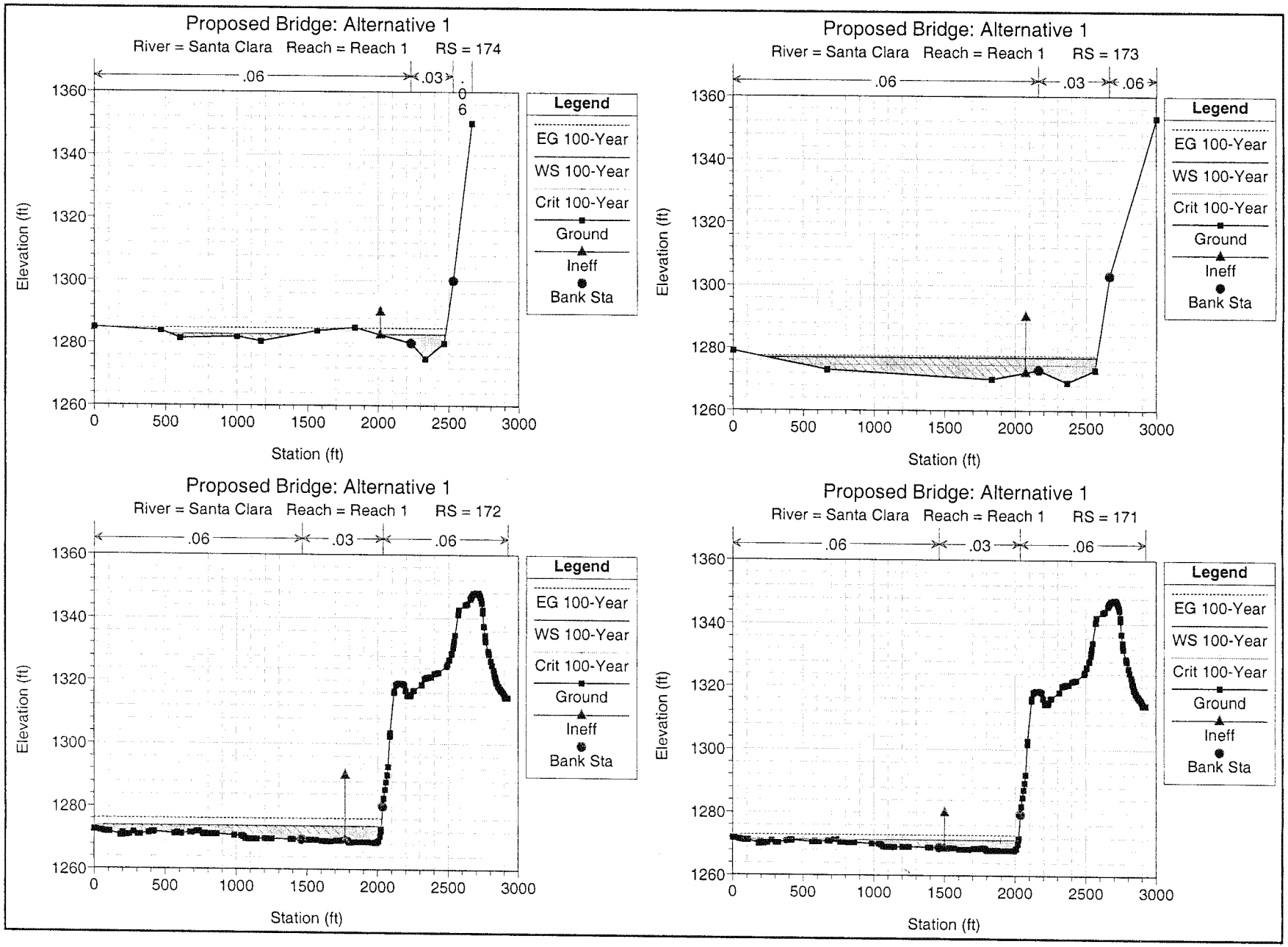
Santa Clara Reach 1
Elevation (ft)
1290
1280
1270
1260
1250
1240
0
1000
2000
3000
4000
5000
Main Channel Distance (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Left Levee
Right Levee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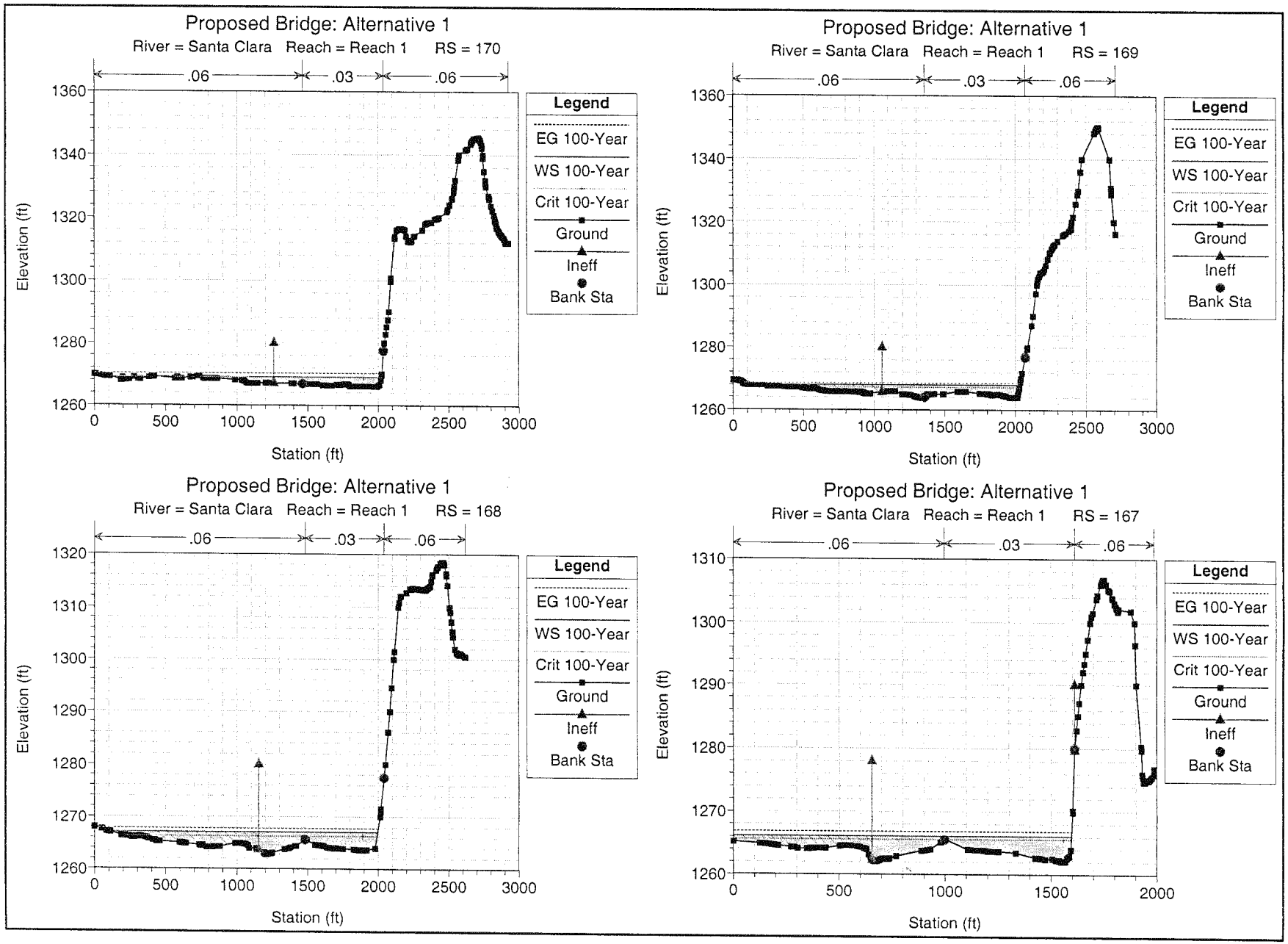
River = Santa Clara Reach = Reach 1 RS = 174
.06
.03
.06
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 173
.06
.03
.06
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 172
.06
.03
.06
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 171
.06
.03
.06
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)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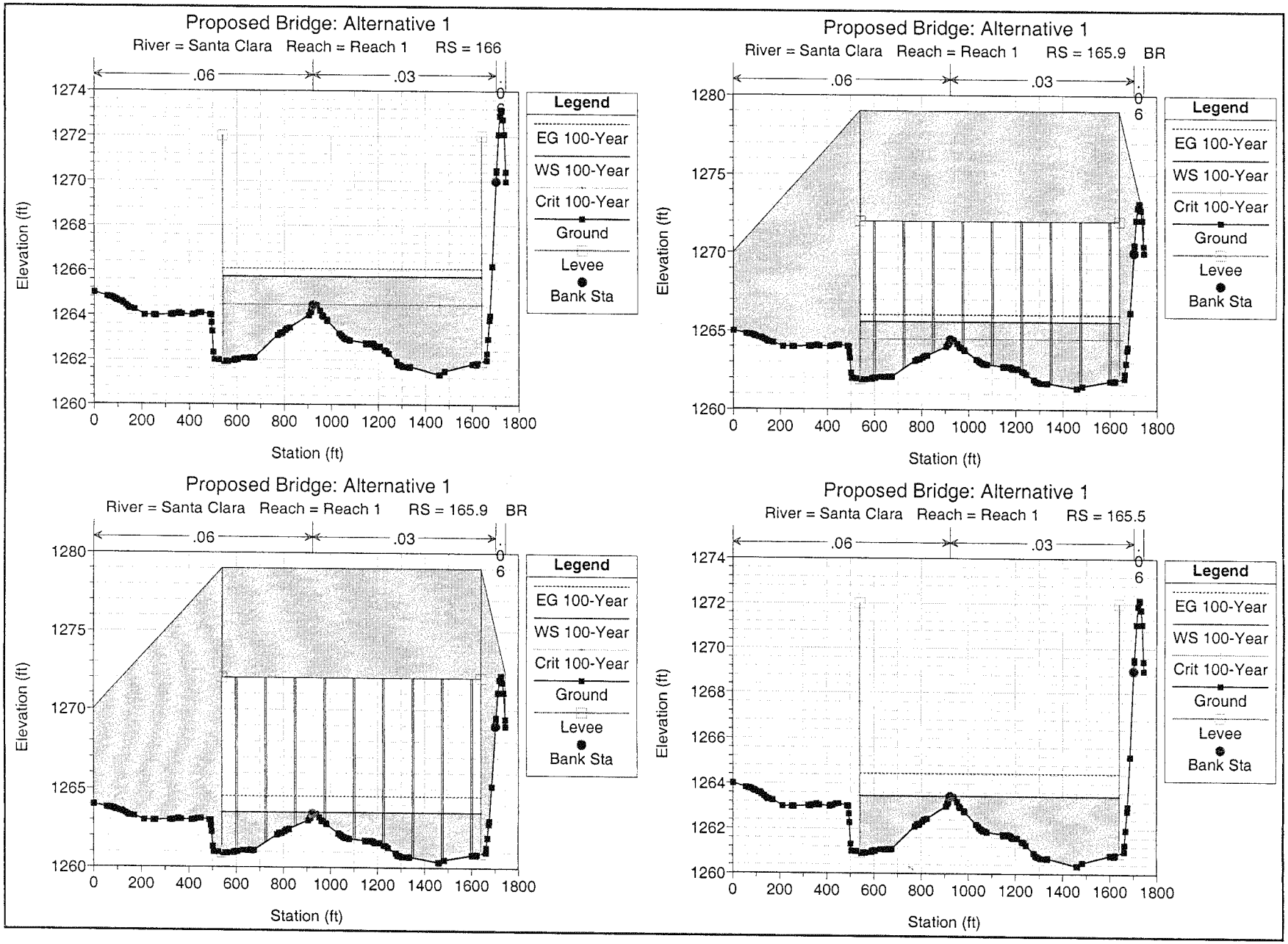
River = Santa Clara Reach = Reach 1 RS = 170
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 169
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 168
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 167
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta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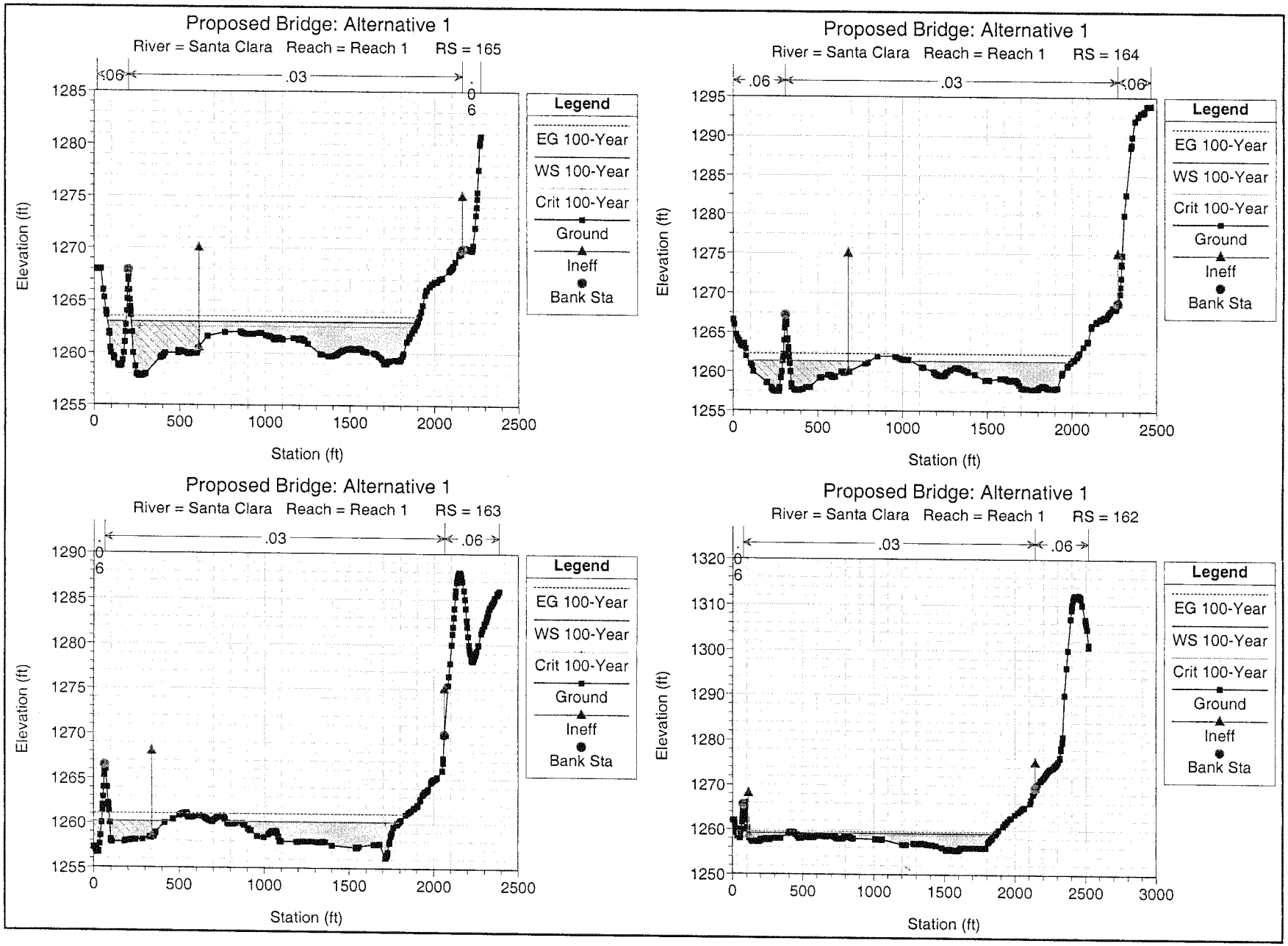
River = Santa Clara Reach = Reach 1 RS = 166
.06
.03
.06
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)
Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 165.9 BR
.06
.03
.06
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)
Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 165.9 BR
.06
.03
.06
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)
Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 165.5
.06
.03
.06
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)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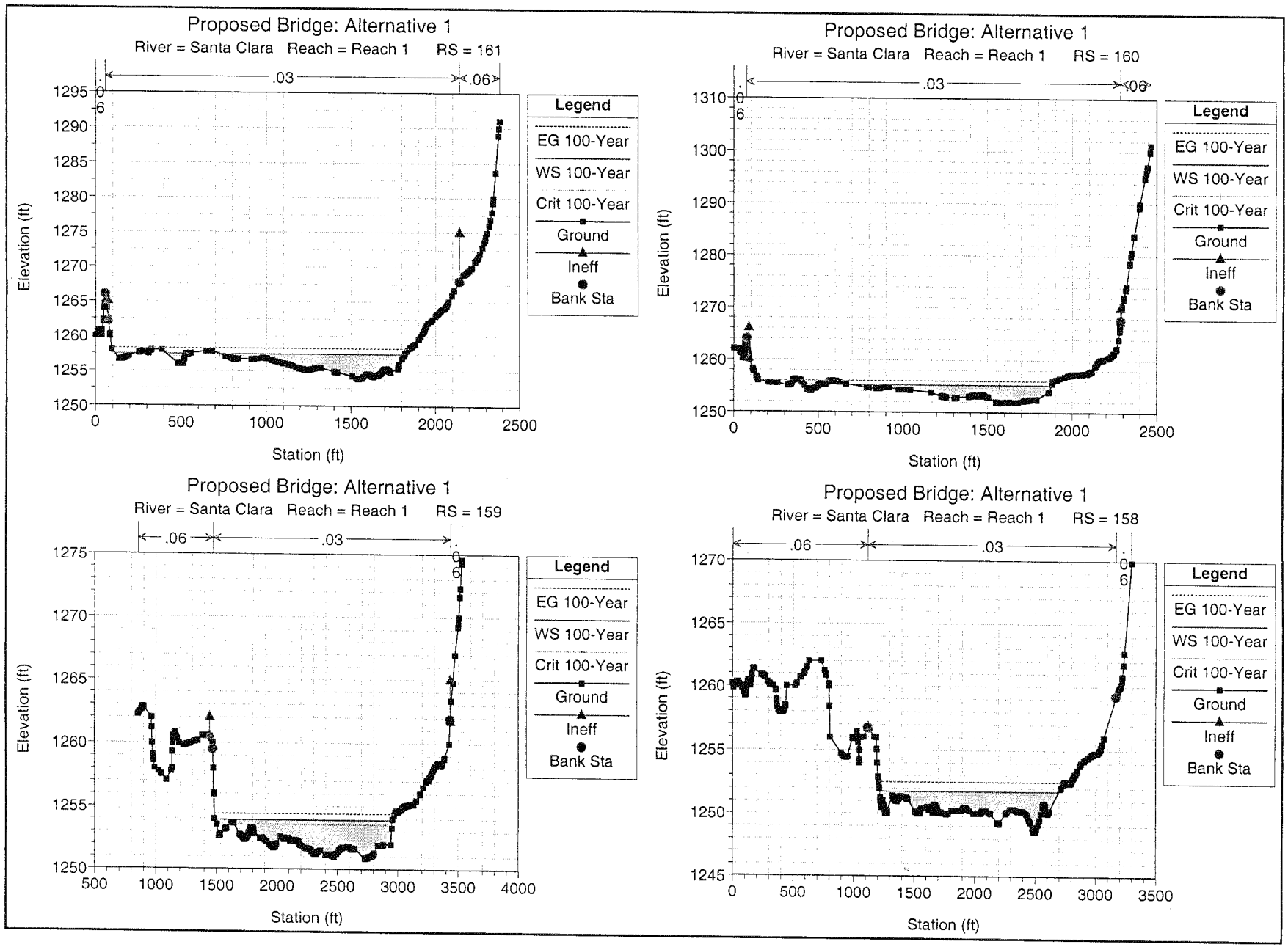
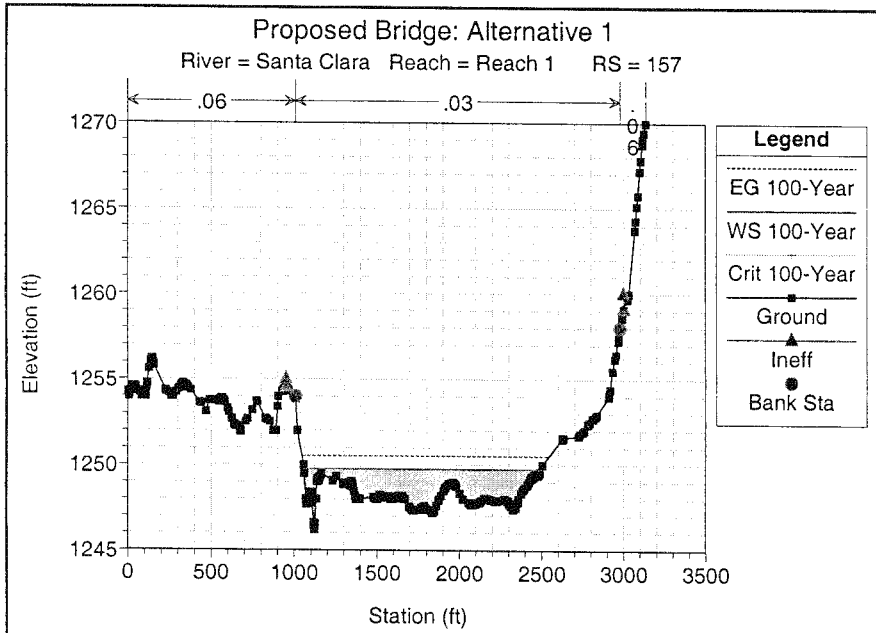
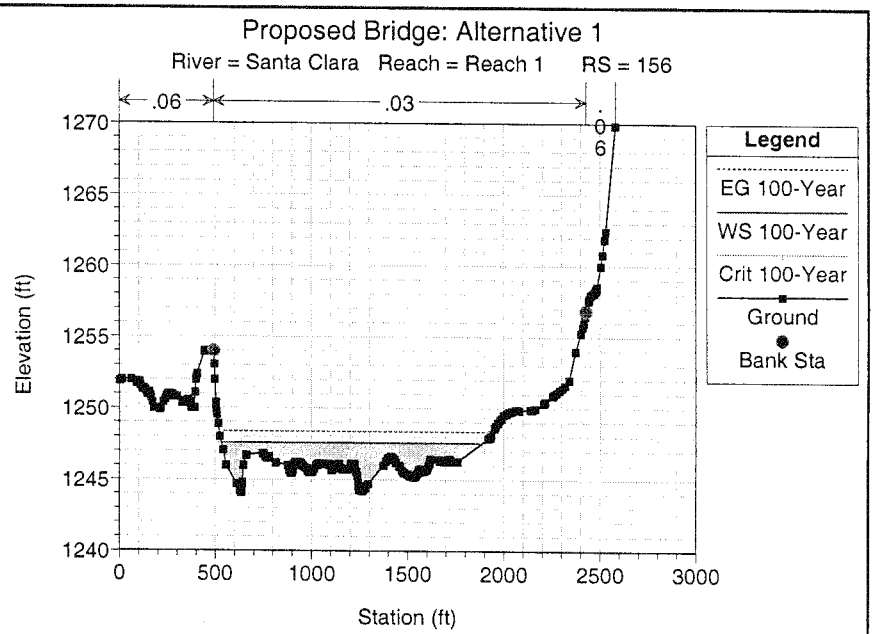
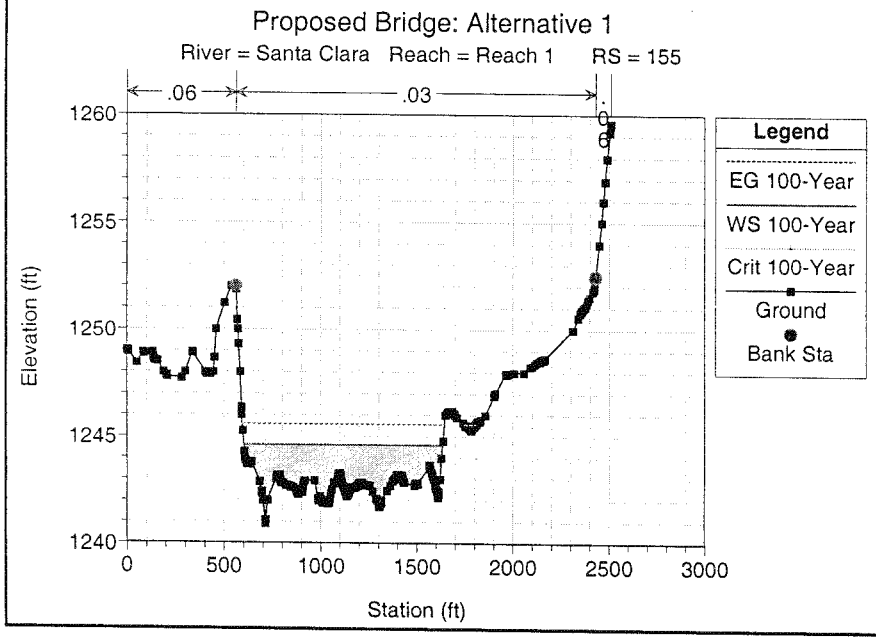
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 164
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 163
.03
.06
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 162
.03
.06
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta


Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 161
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 160
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 159
.06
.03
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 158
.06
.03
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta


Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 157
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta


Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 156
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Bank Sta


Proposed Bridge: Alternative 1
River = Santa Clara Reach = Reach 1 RS = 155
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Bank Sta

Alernative 1.rep

HEC-RAS Version 3.1.2 April 2004
U.S. Army Corp of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

```
X     X  XXXXXX    XXXX        XXXX       XX      XXXX
X     X  X        X    X      X   X     X  X    X
X     X  X        X           X   X    X    X   X
XXXXXXX  XXXX     X       XXX XXXX     XXXXXX    XXXX
X     X  X        X           X  X     X    X        X
X     X  X        X    X      X   X    X    X        X
X     X  XXXXXX    XXXX       X    X   X    X   XXXXX
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PROJECT DATA
Project Title: Proposed Bridge: Alternative 1
Project File : Alernative 1.prj
Run Date and Time: 4/1/2005 8:07:17 AM

Project in English units

Project Description:
Cross sections cut in LDD and imported 04-30-04

PLAN DATA

Plan Title: River Profile
Plan File : p:\1418_CVC\410_Drainage_Studies\Location Hydraulic Study\HEC-RAS 3_11_05\Alernative 1.p03

Geometry Title: Exist Project (banks=0.6, chnl=0.3)
Geometry File : p:\1418_CVC\410_Drainage_Studies\Location Hydraulic Study\HEC-RAS 3_11_05\Alernative 1.g07

Flow Title : Steady Flow
Flow File : p:\1418_CVC\410_Drainage_Studies\Location Hydraulic Study\HEC-RAS 3_11_05\Alernative 1.f01

Plan Summary Information:

Number of:	Cross Sections	= 21	Multiple Openings	=	0
	Culverts	= 0	Inline Structures	=	0
	Bridges	= 1	Lateral Structures	=	0

Computational Information
Water surface calculation tolerance = 0.01
Critical depth calculation tolerance = 0.01
Maximum number of iterations = 20
Maximum difference tolerance = 0.3
Flow tolerance factor = 0.001

Computation Options
Critical depth computed only where necessary
Conveyance Calculation Method: At breaks in n values only
Friction Slope Method: Average Conveyance
Computational Flow Regime: Subcritical Flow

CROSS SECTION

RIVER: Santa Clara
REACH: Reach 1 RS: 173

INPUT
Description:
Station Elevation Data num= 8

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1279	667.6	1273	1833	1270	2166	1273	2366	1269
2565	1273	2666	1303	3000	1353				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	2166	.03	2666	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2166	2666	379	427	469	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	2073	1290	F

CROSS SECTION

RIVER: Santa Clara
REACH: Reach 1 RS: 172

INPUT
Description:
Station Elevation Data num= 337

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1272.61	12.11	1272.54	45.45	1272.26	51.09	1272.22	51.69	1272.21
71.31	1272.01	72.31	1272.02	74.24	1272	75.77	1271.98	76.93	1271.97
77.52	1272.01	78.27	1271.96	79.13	1271.96	80.47	1271.95	81.69	1271.95
83.13	1271.91	86.32	1271.95	90.96	1271.95	92.99	1271.91	97.02	1271.95
103.98	1271.95	105.31	1271.91	106.6	1271.95	184.31	1270.79	184.7	1270.8
187.78	1270.71	192.84	1270.71	198.32	1271.51	198.87	1271.44	221.81	1270.85
244.92	1271.01	276.73	1271.78	305.39	1271.12	315.78	1271.12	321.04	1271.11
382.73	1271.62	405.91	1271.88	406.26	1271.87	406.45	1271.86	406.62	1271.81
406.73	1271.85	407.35	1271.85	407.57	1271.81	407.82	1271.87	408.13	1271.88
408.44	1271.88	408.51	1271.87	411.55	1271.91	411.84	1271.86	413.57	1271.87
414.18	1271.88	416.74	1271.89	417.95	1271.91	418.72	1271.89	419.41	1271.89
562.71	1271.34	563.53	1271.31	580.77	1271.68	597.72	1271.33	605.62	1271.33
612.41	1271.31	673.01	1271.69	687.46	1271.68	719.86	1272.11	723.17	1272.11
729.84	1272.09	731.51	1272.08	732.49	1272.11	733.04	1272.08	735.37	1272.09
736.57	1272.09	763.01	1271.38	764.04	1271.41	765.48	1271.36	766.77	1271.35
767.73	1271.32	768.09	1271.3	769.49	1271.31	769.96	1271.26	770.46	1271.27
772.31	1271.31	773.91	1271.31	775.09	1271.38	776.44	1271.4	777.35	1271.41
778.17	1271.41	815.76	1271.21	819.66	1271.23	823.12	1271.23	826.45	1271.26
829.27	1271.31	830.69	1271.3	834.59	1271.3	844.98	1271.28	855.3	1271.21
861.06	1271.23	985.31	1270.83	1033.41	1270.75	1036.93	1270.71	1038.31	1270.72
1038.9	1270.71	1040.28	1270.71	1048.88	1270.49	1049.62	1270.49	1051.24	1270.5
1053.87	1270.43	1054.99	1270.41	1066.75	1269.91	1075.43	1269.83	1079.75	1269.8
1085.08	1269.81	1088.2	1269.76	1106.54	1269.77	1111.89	1269.81	1119.51	1269.76
1121.84	1269.76	1128.71	1269.71	1130.42	1269.74	1144.12	1269.73	1201.06	1269.85
1210.98	1269.85	1221.03	1269.81	1228.01	1269.83	1231.57	1269.82	1244.21	1269.83
1248.82	1269.81	1384.56	1269.69	1389.2	1269.71	1400.26	1269.67	1463.25	1269.59
1507.87	1269.46	1510.58	1269.48	1528.04	1269.48	1530.48	1269.51	1547.74	1269.49
1549.99	1269.5	1556.74	1269.49	1558.96	1269.48	1565.8	1269.51	1605.66	1269.1
1627.2	1269.1	1631.35	1269.11	1635.69	1269.08	1644.53	1269.08	1651.58	1269.06

83.13	1271.2	86.32	1271.24	90.96	1271.24	92.99	1271.2	97.02	1271.24
103.98	1271.24	105.31	1271.2	106.6	1271.24	184.31	1270.08	184.7	1270.09
187.78	1270	192.84	1270	198.32	1270.8	198.87	1270.73	221.81	1270.14
244.92	1270.3	276.73	1271.07	305.39	1270.41	315.78	1270.41	321.04	1270.4
382.73	1270.91	405.91	1271.17	406.26	1271.16	406.45	1271.15	406.62	1271.1
406.73	1271.14	407.35	1271.14	407.57	1271.1	407.82	1271.16	408.13	1271.17
408.44	1271.17	408.51	1271.16	411.55	1271.2	411.84	1271.15	413.57	1271.16
414.18	1271.17	416.74	1271.18	417.95	1271.2	418.72	1271.18	419.41	1271.18
562.71	1270.63	563.53	1270.6	580.77	1270.97	597.72	1270.62	605.62	1270.62
612.41	1270.6	673.01	1270.98	687.46	1270.97	719.86	1271.4	723.17	1271.4
729.84	1271.38	731.51	1271.37	732.49	1271.4	733.04	1271.37	735.37	1271.38
736.57	1271.38	763.01	1270.67	764.04	1270.7	765.48	1270.65	766.77	1270.64
767.73	1270.61	768.09	1270.59	769.49	1270.6	769.96	1270.55	770.46	1270.56
772.31	1270.6	773.91	1270.6	775.09	1270.67	776.44	1270.69	777.35	1270.7
778.17	1270.7	815.76	1270.5	819.66	1270.52	823.12	1270.52	826.45	1270.55
829.27	1270.6	830.69	1270.59	834.59	1270.59	844.98	1270.57	855.3	1270.5
861.06	1270.52	985.31	1270.12	1033.41	1270.04	1036.93	1270	1038.31	1270.01
1038.9	1270	1040.28	1270	1048.88	1269.78	1049.62	1269.78	1051.24	1269.79
1053.87	1269.72	1054.99	1269.7	1066.75	1269.2	1075.43	1269.12	1079.75	1269.09
1085.08	1269.1	1088.2	1269.05	1106.54	1269.06	1111.89	1269.1	1119.51	1269.05
1121.84	1269.05	1128.71	1269	1130.42	1269.03	1144.12	1269.02	1201.06	1269.14
1210.98	1269.14	1221.03	1269.1	1228.01	1269.12	1231.57	1269.11	1244.21	1269.12
1248.82	1269.1	1384.56	1268.98	1389.2	1269	1400.26	1268.96	1463.25	1268.88
1507.87	1268.75	1510.58	1268.77	1528.04	1268.77	1530.48	1268.8	1547.74	1268.78
1549.99	1268.79	1556.74	1268.78	1558.96	1268.77	1565.8	1268.8	1605.66	1268.39
1627.2	1268.39	1631.35	1268.4	1635.69	1268.37	1644.53	1268.37	1651.58	1268.35
1660.05	1268.3	1668.44	1268.31	1705.19	1268.61	1708.68	1268.66	1716.17	1268.59
1723.82	1268.5	1726.01	1268.57	1731.42	1268.55	1738.13	1268.63	1742.11	1268.65
1745.14	1268.7	1760.2	1268.78	1768.77	1268.86	1773.53	1268.88	1776.6	1268.9
1782.06	1268.78	1786.76	1268.64	1791.31	1268.45	1798.18	1268.1	1799.96	1268
1817.13	1268.07	1822.1	1268.1	1825.91	1268.09	1834.02	1268.1	1837.17	1268.11
1840.39	1268.11	1843.6	1268.1	1847.05	1268.11	1868.17	1268.09	1874.96	1268.1
1879.76	1268.08	1883.99	1268.08	1894.55	1268.1	1920.09	1268.09	1925.31	1268.1
1930.52	1268.08	1964.01	1268.04	1974.58	1268	1986.36	1268.01	1990.6	1268
1993.29	1268.1	2003.25	1268.41	2007.82	1268.6	2018.27	1270	2023.31	1271.57
2024.56	1272	2035.71	1279.46	2041.62	1282	2050.88	1284.8	2058.67	1287.22
2065.74	1289.39	2073.15	1292	2086.82	1301.7	2087.26	1302	2087.57	1302.14
2089.08	1302.78	2117.25	1315.4	2119.26	1316	2129.39	1317.86	2130.34	1318
2137.37	1318.19	2146.22	1318.4	2150.99	1318.48	2154.42	1318.53	2157.12	1318.55
2160.24	1318.54	2165.76	1318.5	2170.51	1318.43	2176.68	1318.32	2183.46	1318.15
2188.68	1318	2197.15	1316.2	2199.03	1316	2210.78	1314.49	2215.37	1314.41
2223.38	1314.41	2225.72	1314.5	2228	1314.38	2229.25	1314.34	2229.92	1314.36
2231.08	1314.4	2232.04	1314.47	2235.22	1314.72	2236.83	1314.81	2250.22	1316
2250.48	1316	2256.99	1316.22	2312.88	1318	2313.65	1318.09	2332.33	1320
2343.19	1320.2	2349.84	1320.36	2353.84	1320.43	2357.22	1320.48	2360.51	1320.51
2364.91	1320.6	2366.72	1320.57	2368.23	1320.57	2371.42	1320.56	2374.85	1320.54
2376.19	1320.5	2378.03	1320.54	2401.57	1321.57	2415.39	1321.74	2425.33	1321.9
2432.5	1322	2489.41	1324	2493.59	1324.6	2506.06	1326	2507.76	1326.18
2523.6	1328	2524.91	1328.2	2535.54	1330	2535.91	1330.2	2537.46	1330.83
2539.95	1332	2546.65	1333.99	2569.74	1340.5	2574.93	1342	2621.29	1343.59
2632.12	1343.9	2633.17	1343.96	2633.46	1343.97	2634.8	1344	2657	1345.52
2661.59	1346	2664.8	1346.24	2670.55	1346.64	2678.86	1347.09	2680.57	1347.2
2682.03	1347.17	2686.39	1347.07	2688.7	1347.21	2693.3	1347.08	2697.41	1347.3
2700.29	1347.22	2705.63	1347.46	2707.89	1347.38	2711.94	1347.42	2715.31	1347.2
2720.71	1346.83	2722.91	1346.6	2728.32	1346	2733.3	1345.15	2736.68	1344.3
2742.76	1342	2743.48	1341.57	2744.32	1341.14	2752.01	1336.86	2760.09	1334
2762.42	1332.94	2765.09	1332	2783.43	1329	2787.89	1328.4	2790.49	1328
2801.46	1325.81	2810.95	1324.38	2822.91	1322.92	2827.01	1322	2827.49	1321.88
2829.48	1321.09	2830.85	1321.03	2832.63	1320.88	2835.24	1320.5	2837.61	1320.04
2839.38	1319.46	2841.1	1319.15	2842.62	1318.95	2843.83	1318.8	2845.38	1318.78
2847.7	1318.73	2851.95	1318	2854.59	1317.78	2855.03	1317.8	2855.85	1317.75
2856.47	1317.73	2857.19	1317.68	2860.3	1317.4	2866.48	1316.9	2867.78	1316.83
2870.18	1316.74	2872.36	1316.71	2875.07	1316.38	2877.01	1316.4	2879.46	1316.08

2089.08	1300.78	2117.25	1313.4	2119.26	1314	2129.39	1315.86	2130.34	1316
2137.37	1316.19	2146.22	1316.4	2150.99	1316.48	2154.42	1316.53	2157.12	1316.55
2160.24	1316.54	2165.76	1316.5	2170.51	1316.43	2176.68	1316.32	2183.46	1316.15
2188.68	1316	2197.15	1314.2	2199.03	1314	2210.78	1312.49	2215.37	1312.41
2223.38	1312.41	2225.72	1312.5	2228	1312.38	2229.25	1312.34	2229.92	1312.36
2231.08	1312.4	2232.04	1312.47	2235.22	1312.72	2236.83	1312.81	2250.22	1314
2250.48	1314	2256.99	1314.22	2312.88	1316	2313.65	1316.09	2332.33	1318
2343.19	1318.2	2349.84	1318.36	2353.84	1318.43	2357.22	1318.48	2360.51	1318.51
2364.91	1318.6	2366.72	1318.57	2368.23	1318.57	2371.42	1318.56	2374.85	1318.54
2376.19	1318.5	2378.03	1318.54	2401.57	1319.57	2415.39	1319.74	2425.33	1319.9
2432.5	1320	2489.41	1322	2493.59	1322.6	2506.06	1324	2507.76	1324.18
2523.6	1326	2524.91	1326.2	2535.54	1328	2535.91	1328.2	2537.46	1328.83
2539.95	1330	2546.65	1331.99	2569.74	1338.5	2574.93	1340	2621.29	1341.59
2632.12	1341.9	2633.17	1341.96	2633.46	1341.97	2634.8	1342	2657	1343.52
2661.59	1344	2664.8	1344.24	2670.55	1344.64	2678.86	1345.09	2680.57	1345.2
2682.03	1345.17	2686.39	1345.07	2688.7	1345.21	2693.3	1345.08	2697.41	1345.3
2700.29	1345.22	2705.63	1345.46	2707.89	1345.38	2711.94	1345.42	2715.31	1345.2
2720.71	1344.83	2722.91	1344.6	2728.32	1344	2733.3	1343.15	2736.68	1342.3
2742.76	1340	2743.48	1339.57	2744.32	1339.14	2752.01	1334.86	2760.09	1332
2762.42	1330.94	2765.09	1330	2783.43	1327	2787.89	1326.4	2790.49	1326
2801.46	1323.81	2810.95	1322.38	2822.91	1320.92	2827.01	1320	2827.49	1319.88
2829.48	1319.09	2830.85	1319.03	2832.63	1318.88	2835.24	1318.5	2837.61	1318.04
2839.38	1317.46	2841.1	1317.15	2842.62	1316.95	2843.83	1316.8	2845.38	1316.78
2847.7	1316.73	2851.95	1316	2854.59	1315.78	2855.03	1315.8	2855.85	1315.75
2856.47	1315.73	2857.19	1315.68	2860.3	1315.4	2866.48	1314.9	2867.78	1314.83
2870.18	1314.74	2872.36	1314.71	2875.07	1314.38	2877.01	1314.4	2879.46	1314.08
2880.93	1314	2890.96	1313.66	2894.69	1313.22	2901.22	1312.7	2902.95	1312.51
2904.4	1312	2924.98	1312						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	1463.25	.03	2035.71	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1463.25	2035.71	120	112	122	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	1260	1280	F

CROSS SECTION

RIVER: Santa Clara
REACH: Reach 1 RS: 169

INPUT
Description:
Station Elevation Data num= 359

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1269.4	6.06	1269.37	6.85	1269.38	7.49	1269.39	8.71	1269.42
9.41	1269.4	10.28	1269.43	13.06	1269.43	13.96	1269.4	18.18	1269.36
18.78	1269.35	19.84	1269.36	20.25	1269.4	20.73	1269.37	21.14	1269.4
21.99	1269.43	22.56	1269.44	23.39	1269.4	24.85	1269.43	25.84	1269.42
27.89	1269.38	30.27	1269.35	32.93	1269.3	36.13	1269.26	39.84	1269.2
43.42	1269.15	46.05	1269.12	50.51	1269.1	53.54	1269.04	57.84	1268.98
68.87	1268.61	68.95	1268.33	69.99	1268.3	71.86	1268.22	73.05	1268.21
74.01	1268.2	78.7	1268.06	78.95	1268.1	80.79	1268	97.39	1267.91
99.54	1267.89	102.14	1267.9	103.91	1267.86	117.36	1267.81	122.87	1267.8
126.47	1267.8	132.9	1267.78	168.88	1267.77	183.99	1267.8	191.24	1267.78
195.21	1267.78	198.91	1267.77	203.35	1267.77	245.39	1267.4	278.83	1267.37
287.86	1267.4	290.26	1267.38	295.46	1267.41	296.71	1267.41	300.67	1267.42
303.42	1267.4	308.16	1267.43	313.72	1267.41	320.28	1267.41	323.13	1267.4
362.87	1267.15	367.74	1267.15	372.52	1267.14	380.28	1267.14	394.33	1267.2

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1358.13	2069.96	140	165	155	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	1056	1280	F

CROSS SECTION

RIVER: Santa Clara
REACH: Reach 1 RS: 168

INPUT
Description:
Station Elevation Data num= 336

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1268	48.14	1267.63	52.54	1267.59	56.06	1267.6	81.29	1267.28
81.4	1267.28	83.16	1267.25	83.86	1267.25	85.07	1267.2	86.93	1267.22
88.83	1267.21	91.01	1267.19	92.2	1267.19	95.16	1267.2	97.21	1267.16
99.01	1267.15	107.33	1267.08	110.37	1267.1	185.52	1266.41	187.62	1266.4
189.71	1266.4	192.8	1266.39	195.21	1266.4	197.77	1266.38	198.44	1266.39
199.9	1266.4	203.33	1266.38	204.4	1266.4	212.14	1266.36	213.36	1266.36
229.32	1266.31	230.77	1266.3	239.05	1266.28	257.35	1266.15	266.21	1266.13
269.66	1266.13	273.3	1266.1	276.76	1266.15	279.7	1266.16	291.08	1266.23
293.31	1266.2	296.85	1266.24	299.41	1266.25	312.18	1266.25	314.62	1266.3
318.48	1266.25	320.88	1266.24	322.99	1266.24	326.76	1266.21	337.58	1266.2
354.43	1266.06	363.32	1266	377.49	1265.84	407.05	1265.56	410.18	1265.54
422.01	1265.5	424.6	1265.5	431.95	1265.36	433.39	1265.34	435.05	1265.3
436.76	1265.31	444.99	1265.28	445.94	1265.28	448.43	1265.3	450.23	1265.31
452.32	1265.31	456.35	1265.29	596.89	1265.06	598.93	1265.06	600.03	1265.05
601.14	1265.05	602.48	1265.1	603.84	1265.05	606.53	1265.05	609.24	1265.04
610.08	1265	611.36	1265.03	612.74	1265.02	614.17	1265.02	619.06	1265
620.76	1264.99	621.81	1264.99	623.86	1264.97	626.14	1264.96	627.75	1264.9
629.03	1264.94	631.26	1264.95	632.65	1264.94	634.58	1264.94	640.95	1264.9
735.21	1264.57	736.35	1264.57	740.29	1264.56	741.43	1264.56	744	1264.5
745.01	1264.55	746.09	1264.55	754.97	1264.6	756.01	1264.58	786.4	1264.21
800.14	1264.21	804.92	1264.2	810.06	1264.21	815.42	1264.2	825.55	1264.2
827.67	1264.22	833.21	1264.25	835.45	1264.25	840.9	1264.3	844.81	1264.27
846.53	1264.28	851.72	1264.28	853.57	1264.3	856.51	1264.29	862.07	1264.28
865.34	1264.29	871.16	1264.28	875.5	1264.3	880.16	1264.28	986.56	1264.91
988.82	1264.91	991.12	1264.92	998.4	1265	1001.67	1264.97	1004.84	1264.98
1013.59	1264.98	1023.05	1265	1026.8	1264.95	1043.79	1264.89	1049.47	1264.86
1052.5	1264.8	1058.42	1264.79	1065.21	1264.72	1073.87	1264.61	1079.9	1264.5
1087.1	1264	1138.63	1264	1141.24	1263.95	1187.88	1263.16	1192.16	1263.1
1194.04	1263.04	1195.65	1263	1196.07	1262.98	1199.12	1262.9	1200.15	1262.89
1201.1	1262.89	1202.3	1262.88	1202.75	1262.88	1203.03	1262.9	1203.59	1262.87
1203.98	1262.86	1204.28	1262.85	1204.49	1262.85	1204.67	1262.8	1204.87	1262.84
1205.92	1262.84	1206.08	1262.8	1206.23	1262.84	1206.57	1262.84	1206.81	1262.85
1206.93	1262.8	1207.04	1262.85	1207.32	1262.87	1207.39	1262.87	1207.46	1262.88
1207.72	1262.9	1207.95	1262.9	1208.37	1262.91	1208.86	1262.92	1209.29	1262.93
1210.58	1262.9	1211.38	1262.94	1212.05	1262.95	1212.44	1262.94	1213.08	1262.94
1213.67	1262.9	1214.81	1262.93	1215.72	1262.93	1227.41	1262.95	1231.67	1263
1234.04	1262.98	1236.35	1262.99	1242.79	1263.03	1246.18	1263.1	1248.99	1263.07
1338.04	1263.8	1367.84	1264	1377.91	1264.12	1411.46	1264.39	1417.07	1264.45
1483.92	1265.67	1551.21	1264.7	1555.57	1264.65	1569.04	1264.63	1574.41	1264.63
1579.8	1264.6	1584.78	1264.61	1592.96	1264.56	1599.14	1264.51	1605.34	1264.5
1614.82	1264.37	1634.98	1264.18	1645.04	1264.11	1652.2	1264.1	1656.4	1264.05
1659.93	1264.02	1671.88	1264.03	1680.08	1264	1688.17	1264.05	1701.5	1264.04
1716.32	1264	1718.7	1263.99	1749.34	1263.9	1824.55	1263.8	1830.9	1263.8
1837.95	1263.76	1854.36	1263.7	1857.58	1263.7	1860.32	1263.68	1864.56	1263.66
1866.33	1263.66	1868.67	1263.7	1871.34	1263.65	1875.45	1263.64	1880.61	1263.64
1881.85	1263.6	1882.76	1263.63	1884.03	1263.62	1885.16	1263.62	1886.04	1263.61
1886.6	1263.6	1887.68	1263.61	1890.4	1263.61	1891.96	1263.6	1893.28	1263.62

1149.07	1263.94	1157.18	1263.94	1170.46	1263.9	1176.2	1263.9	1182.92	1263.84
1188.21	1263.82	1199.22	1263.75	1202.66	1263.7	1206.06	1263.72	1208.48	1263.71
1212.59	1263.71	1216.04	1263.7	1220.2	1263.71	1230.87	1263.71	1244.78	1263.67
1246.74	1263.67	1251.93	1263.7	1332.48	1263.48	1425.05	1262.69	1425.96	1262.69
1427	1262.7	1430.63	1262.69	1433.57	1262.69	1441.7	1262.66	1447.43	1262.6
1456.04	1262.56	1471.85	1262.45	1504.52	1262.53	1522.18	1262.3	1523.64	1262.35
1525.32	1262.38	1533.97	1262.28	1536.27	1262.33	1545.93	1262.1	1548.4	1262.23
1552.93	1262.12	1557.17	1262.08	1557.47	1262.1	1562.16	1262.1	1566.9	1262.18
1573.34	1262.62	1580.16	1262.82	1585.3	1262.96	1586.38	1263	1592.92	1264
1601.08	1269.9	1601.23	1270	1601.46	1270.22	1611.23	1280	1619.76	1282.9
1627.12	1285.1	1633.65	1287.2	1642.48	1290	1650.96	1292.1	1656.65	1293.4
1663.8	1295.07	1672.81	1297.29	1683.27	1300	1689.43	1301	1695.88	1301.55
1713.64	1303.74	1718.71	1304.33	1734.5	1305.97	1737.32	1306.2	1739.99	1306.47
1743.38	1306.7	1745.5	1306.8	1746.82	1306.82	1748.16	1306.8	1749.46	1306.75
1751.25	1306.62	1757.72	1306.03	1759.76	1306.07	1768.61	1305.2	1771.49	1305.2
1776.43	1305	1787.23	1303.92	1789.68	1303.76	1797.27	1303.1	1799.33	1302.94
1805.08	1302.6	1807.93	1302.28	1810.7	1302.27	1812.92	1302	1814.21	1301.79
1816.85	1302.03	1817.52	1302.18	1874.6	1301.84	1892.99	1300	1895.83	1296.5
1901.31	1290	1925.51	1280.37	1926.38	1280	1926.5	1279.8	1929.27	1276
1931.54	1275.62	1934.8	1275.16	1934.84	1274.98	1934.85	1274.9	1934.87	1274.85
1936.56	1274.8	1938.11	1274.76	1939.42	1274.76	1940.82	1274.8	1942.16	1274.8
1943.5	1274.84	1946.32	1274.95	1948.12	1275	1950.25	1275	1951.24	1275.04
1954.24	1274.99	1955.85	1274.99	1957.9	1275.02	1960.42	1275.1	1965.05	1275.22
1971.03	1275.42	1975.51	1275.6	1983.03	1276	1985.78	1276.9	1985.81	1276.91

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	996.21	.03	1611.23	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
996.21	1611.23	59.01	231	386.01	.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	655	1278	F
1611	1985.81	1290	F

CROSS SECTION

RIVER: Santa Clara
REACH: Reach 1 RS: 166

INPUT
Description:
Station Elevation Data num= 153

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1265	54.79	1264.82	64.69	1264.79	67.97	1264.8	71.36	1264.78
78.35	1264.76	85.72	1264.72	88.08	1264.7	91.75	1264.68	95.8	1264.65
109.01	1264.6	115.86	1264.6	121.7	1264.53	132.87	1264.45	141.61	1264.37
148.02	1264.3	153.32	1264.3	169.11	1264.26	210.97	1264	250.46	1263.99
254.76	1264	258.66	1263.98	320.84	1264.02	329.04	1264	332.7	1264.05
347.99	1264.05	354.56	1264.1	367.22	1264.04	411.13	1264	414.71	1264.03
418.87	1264.03	423.13	1264.04	436.86	1264.1	449.32	1264.11	486.14	1264.02
491.41	1264	493.15	1263.66	495.89	1263.27	501.01	1262.32	504.94	1262
510.11	1262	522.53	1261.98	523.62	1261.98	546.15	1261.9	553.64	1261.93
562.44	1261.91	589.35	1261.95	590.11	1261.97	591.55	1262	593.86	1262
598.49	1262.02	604.4	1262.03	604.7	1262	628.36	1262.08	649.24	1262.07
659.71	1262.1	664.67	1262.06	670	1262.07	675.06	1262.09	772.7	1263.09
782.32	1263.2	782.87	1263.16	783.5	1263.16	784.11	1263.17	784.8	1263.17
785.92	1263.2	786.71	1263.18	787.58	1263.18	789.52	1263.2	790.63	1263.2
792.44	1263.22	804.46	1263.31	810.63	1263.4	823.39	1263.44	904.54	1264
912.06	1264.14	914.9	1264.2	919.43	1264.36	921.25	1264.4	922.88	1264.43
926.01	1264.44	929.37	1264.4	932.6	1264.44	935.6	1264.42	938.2	1264.39

1148.8	1262.7	1152.31	1262.74	1156.76	1262.75	1164.14	1262.75	1168.05	1262.7
1172.97	1262.73	1175.52	1262.72	1177.79	1262.7	1181.54	1262.66	1185.68	1262.6
1191.45	1262.58	1193.7	1262.58	1198.16	1262.6	1202.46	1262.6	1202.76	1262.61
1207.28	1262.59	1226.3	1262.44	1234.27	1262.4	1243.47	1262.28	1276.72	1261.93
1284.16	1261.8	1289.61	1261.78	1293.91	1261.75	1304.5	1261.7	1325.54	1261.69
1333.57	1261.67	1334.64	1261.7	1458.45	1261.35	1461.01	1261.35	1482.63	1261.5
1601.16	1261.82	1611.88	1261.83	1616.73	1261.8	1621.72	1261.86	1660.76	1262
1662.48	1262.3	1667.3	1262.95	1673.46	1263.8	1675.01	1264	1684.93	1266.21
1702.08	1270	1703.78	1270.43	1704.06	1270.48	1704.29	1270.51	1712.69	1272.09
1718.53	1272.9	1720.13	1272.91	1724.22	1273.17	1727.04	1273.13	1731.43	1272.74
1736.15	1272.1	1742.18	1270.43	1743.42	1270				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	922.88	.03	1702.08	.06

Bank Sta: Left	Right	Coeff Contr.	Expan.
922.88	1702.08	.3	.5

Left Levee Station= 540 Elevation= 1272
Right Levee Station= 1640 Elevation= 1272

Downstream Deck/Roadway Coordinates
num= 2

Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord
540	1279	1272	1640	1279	1272

Downstream Bridge Cross Section Data
Station Elevation Data num= 153

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1264	54.79	1263.82	64.69	1263.79	67.97	1263.8	71.36	1263.78
78.35	1263.76	85.72	1263.72	88.08	1263.7	91.75	1263.68	95.8	1263.65
109.01	1263.6	115.86	1263.6	121.7	1263.53	132.87	1263.45	141.61	1263.37
148.02	1263.3	153.32	1263.3	169.11	1263.26	210.97	1263	250.46	1262.99
254.76	1263	258.66	1262.98	320.84	1263.02	329.04	1263	332.7	1263.05
347.99	1263.05	354.56	1263.1	367.22	1263.04	411.13	1263	414.71	1263.03
418.87	1263.03	423.13	1263.04	436.86	1263.1	449.32	1263.11	486.14	1263.02
491.41	1263	493.15	1262.66	495.89	1262.27	501.01	1261.32	504.94	1261
510.11	1261	522.53	1260.98	523.62	1260.98	546.15	1260.9	553.64	1260.93
562.44	1260.91	589.35	1260.95	590.11	1260.97	591.55	1261	593.86	1261
598.49	1261.02	604.4	1261.03	604.7	1261	628.36	1261.08	649.24	1261.07
659.71	1261.1	664.67	1261.06	670	1261.07	675.06	1261.09	772.7	1262.09
782.32	1262.2	782.87	1262.16	783.5	1262.16	784.11	1262.17	784.8	1262.17
785.92	1262.2	786.71	1262.18	787.58	1262.18	789.52	1262.2	790.63	1262.2
792.44	1262.22	804.46	1262.31	810.63	1262.4	823.39	1262.44	904.54	1263
912.06	1263.14	914.9	1263.2	919.43	1263.36	921.25	1263.4	922.88	1263.43
926.01	1263.44	929.37	1263.4	932.6	1263.44	935.6	1263.42	938.2	1263.39
951.44	1263.2	960.02	1263	960.68	1262.99	965.02	1262.94	980.54	1262.8
982.64	1262.76	1033.14	1262.19	1042.04	1262.1	1046.81	1262.03	1053.7	1261.97
1056.91	1261.95	1062.72	1261.9	1069.07	1261.9	1077.93	1261.86	1146.34	1261.75
1148.8	1261.7	1152.31	1261.74	1156.76	1261.75	1164.14	1261.75	1168.05	1261.7
1172.97	1261.73	1175.52	1261.72	1177.79	1261.7	1181.54	1261.66	1185.68	1261.6
1191.45	1261.58	1193.7	1261.58	1198.16	1261.6	1202.46	1261.6	1202.76	1261.61
1207.28	1261.59	1226.3	1261.44	1234.27	1261.4	1243.47	1261.28	1276.72	1260.93
1284.16	1260.8	1289.61	1260.78	1293.91	1260.75	1304.5	1260.7	1325.54	1260.69
1333.57	1260.67	1334.64	1260.7	1458.45	1260.35	1461.01	1260.35	1482.63	1260.5
1601.16	1260.82	1611.88	1260.83	1616.73	1260.8	1621.72	1260.86	1660.76	1261
1662.48	1261.3	1667.3	1261.95	1673.46	1262.8	1675.01	1263	1684.93	1265.21
1702.08	1269	1703.78	1269.43	1704.06	1269.48	1704.29	1269.51	1712.69	1271.09
1718.53	1271.9	1720.13	1271.91	1724.22	1272.17	1727.04	1272.13	1731.43	1271.74
1736.15	1271.1	1742.18	1269.43	1743.42	1269				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val

```
Pier Station      Upstream=      350    Downstream=      350
Upstream      num=        2
    Width    Elev     Width    Elev
       8     1250        8     1275
Downstream      num=        2
    Width    Elev     Width    Elev
       8     1250        8     1275

Pier Data
Pier Station      Upstream=      475    Downstream=      475
Upstream      num=        2
    Width    Elev     Width    Elev
       8     1250        8     1275
Downstream      num=        2
    Width    Elev     Width    Elev
       8     1250        8     1275

Pier Data
Pier Station      Upstream=      600    Downstream=      600
Upstream      num=        2
    Width    Elev     Width    Elev
       8     1250        8     1275
Downstream      num=        2
    Width    Elev     Width    Elev
       8     1250        8     1275

Pier Data
Pier Station      Upstream=      725    Downstream=      725
Upstream      num=        2
    Width    Elev     Width    Elev
       8     1250        8     1275
Downstream      num=        2
    Width    Elev     Width    Elev
       8     1250        8     1275

Pier Data
Pier Station      Upstream=      850    Downstream=      850
Upstream      num=        2
    Width    Elev     Width    Elev
       8     1250        8     1275
Downstream      num=        2
    Width    Elev     Width    Elev
       8     1250        8     1275

Pier Data
Pier Station      Upstream=      975    Downstream=      975
Upstream      num=        2
    Width    Elev     Width    Elev
       8     1250        8     1275
Downstream      num=        2
    Width    Elev     Width    Elev
       8     1250        8     1275

Pier Data
Pier Station      Upstream=     1100    Downstream=     1100
Upstream      num=        2
    Width    Elev     Width    Elev
       8     1250        8     1275
Downstream      num=        2
    Width    Elev     Width    Elev
       8     1250        8     1275

Pier Data
```

RIVER: Santa Clara
REACH: Reach 1 RS: 165.5

INPUT
Description:
Station Elevation Data num= 153

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1264	54.79	1263.82	64.69	1263.79	67.97	1263.8	71.36	1263.78
78.35	1263.76	85.72	1263.72	88.08	1263.7	91.75	1263.68	95.8	1263.65
109.01	1263.6	115.86	1263.6	121.7	1263.53	132.87	1263.45	141.61	1263.37
148.02	1263.3	153.32	1263.3	169.11	1263.26	210.97	1263	250.46	1262.99
254.76	1263	258.66	1262.98	320.84	1263.02	329.04	1263	332.7	1263.05
347.99	1263.05	354.56	1263.1	367.22	1263.04	411.13	1263	414.71	1263.03
418.87	1263.03	423.13	1263.04	436.86	1263.1	449.32	1263.11	486.14	1263.02
491.41	1263	493.15	1262.66	495.89	1262.27	501.01	1261.32	504.94	1261
510.11	1261	522.53	1260.98	523.62	1260.98	546.15	1260.9	553.64	1260.93
562.44	1260.91	589.35	1260.95	590.11	1260.97	591.55	1261	593.86	1261
598.49	1261.02	604.4	1261.03	604.7	1261	628.36	1261.08	649.24	1261.07
659.71	1261.1	664.67	1261.06	670	1261.07	675.06	1261.09	772.7	1262.09
782.32	1262.2	782.87	1262.16	783.5	1262.16	784.11	1262.17	784.8	1262.17
785.92	1262.2	786.71	1262.18	787.58	1262.18	789.52	1262.2	790.63	1262.2
792.44	1262.22	804.46	1262.31	810.63	1262.4	823.39	1262.44	904.54	1263
912.06	1263.14	914.9	1263.2	919.43	1263.36	921.25	1263.4	922.88	1263.43
926.01	1263.44	929.37	1263.4	932.6	1263.44	935.6	1263.42	938.2	1263.39
951.44	1263.2	960.02	1263	960.68	1262.99	965.02	1262.94	980.54	1262.8
982.64	1262.76	1033.14	1262.19	1042.04	1262.1	1046.81	1262.03	1053.7	1261.97
1056.91	1261.95	1062.72	1261.9	1069.07	1261.9	1077.93	1261.86	1146.34	1261.75
1148.8	1261.7	1152.31	1261.74	1156.76	1261.75	1164.14	1261.75	1168.05	1261.7
1172.97	1261.73	1175.52	1261.72	1177.79	1261.7	1181.54	1261.66	1185.68	1261.6
1191.45	1261.58	1193.7	1261.58	1198.16	1261.6	1202.46	1261.6	1202.76	1261.61
1207.28	1261.59	1226.3	1261.44	1234.27	1261.4	1243.47	1261.28	1276.72	1260.93
1284.16	1260.8	1289.61	1260.78	1293.91	1260.75	1304.5	1260.7	1325.54	1260.69
1333.57	1260.67	1334.64	1260.7	1458.45	1260.35	1461.01	1260.35	1482.63	1260.5
1601.16	1260.82	1611.88	1260.83	1616.73	1260.8	1621.72	1260.86	1660.76	1261
1662.48	1261.3	1667.3	1261.95	1673.46	1262.8	1675.01	1263	1684.93	1265.21
1702.08	1269	1703.78	1269.43	1704.06	1269.48	1704.29	1269.51	1712.69	1271.09
1718.53	1271.9	1720.13	1271.91	1724.22	1272.17	1727.04	1272.13	1731.43	1271.74
1736.15	1271.1	1742.18	1269.43	1743.42	1269				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	922.88	.03	1702.08	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
922.88	1702.08	49	50	232	.3	.5

Left Levee Station= 540 Elevation= 1272
Right Levee Station= 1640 Elevation= 1272

CROSS SECTION

RIVER: Santa Clara
REACH: Reach 1 RS: 165

INPUT
Description:
Station Elevation Data num= 372

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
17.4	1267.97	17.51	1268	38.95	1268	52.29	1266	58.8	1265.27
68.02	1264	70.87	1263.75	72.3	1263.63	86.7	1262	87	1261.91
87.59	1261.8	94	1260.47	98.34	1260	113.03	1259.68	113.61	1259.62
114.06	1259.6	116.06	1259.49	117.95	1259.42	138.71	1258.86	142.62	1258.77
149.02	1258.7	151.67	1258.81	155.51	1258.76	156.71	1258.82	159.16	1258.82

2153.38	1269.6	2154.82	1269.59	2155.67	1269.6	2157.11	1269.53	2157.45	1269.52
2164.35	1269.88	2164.55	1269.89	2167.46	1270	2170.89	1270.06	2174.25	1270.08
2179.2	1270.07	2187.19	1270.02	2189.04	1270	2196.34	1269.88	2199.45	1269.87
2207.72	1269.91	2216.43	1269.85	2219.53	1269.8	2221.09	1269.86	2222.71	1269.89
2225.06	1270	2228	1270.31	2240.4	1272	2245.98	1273.22	2250.37	1274
2252.67	1274.8	2254.27	1275.44	2261.16	1277.6	2267.41	1280	2268.98	1280.24
2269.1	1280.26	2273.4	1280.79						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
17.4	.06	199.87	.03	2164.35	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
199.87	2164.35	146	171	76.5	.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
17.4	612	1270	F
2164.35	2273.4	1275	F

CROSS SECTION

RIVER: Santa Clara
REACH: Reach 1 RS: 164

INPUT
Description:
Station Elevation Data num= 350

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1266.6	.24	1266.58	5.16	1266	17.42	1264.7	24.49	1264.22
29.08	1264	34.13	1263.9	34.33	1263.89	34.89	1263.85	42.44	1263.43
43.5	1263.4	48.65	1263.28	51.12	1263.36	55.46	1263.19	58.57	1263.29
61.18	1263.4	63.92	1263.58	73.79	1262.88	75.48	1262	101.7	1260.99
110.56	1260.7	118.58	1260	196.89	1258.62	200.36	1258.57	225.13	1258
228.78	1257.79	230.84	1257.7	237.35	1257.56	240.44	1257.52	242.15	1257.51
247.53	1257.5	251.21	1257.46	263.62	1257.44	266.49	1257.45	267.6	1257.5
269.24	1257.48	270.37	1257.52	271.47	1257.6	272.05	1257.7	272.74	1257.8
274.2	1258	281.7	1259.21	287.25	1260	292.6	1261.39	294.76	1262
295.51	1262.21	300.81	1264	304.16	1265.55	305.47	1266	305.65	1266.2
306.6	1266.56	307.36	1266.71	307.99	1266.84	308.4	1267.01	308.7	1267.1
309.02	1267.19	309.31	1267.23	311.75	1267.25	311.98	1267.2	312.23	1267.2
312.29	1267.07	312.37	1266.97	312.79	1266.81	313.39	1266.59	313.48	1266.4
313.59	1266.24	314.38	1266.01	320.94	1264.2	321.87	1264	325.84	1263.04
327.32	1262.68	329.87	1262	332.61	1261.3	334.15	1261.03	338.02	1260
343.32	1258.46	344.88	1258	359.69	1257.7	364.78	1257.65	368.21	1257.59
385.31	1257.58	392.23	1257.63	406.72	1257.7	410.64	1257.77	431.92	1258
450.79	1258	453.56	1258.01	455.05	1258.01	510.75	1259.2	516.03	1259.21
521.97	1259.29	561.14	1259.6	565.23	1259.57	566.83	1259.57	570.6	1259.59
572.69	1259.59	574.9	1259.6	576.85	1259.56	578.13	1259.52	579.56	1259.48
581.56	1259.35	590.63	1259.3	591.5	1259.34	592.77	1259.36	594.2	1259.37
595.71	1259.37	599.86	1259.4	603.32	1259.36	638.42	1260	653.55	1259.84
661.82	1259.9	664.83	1259.9	674.87	1260	685.47	1260	778.7	1261.02
783.36	1261.05	794.38	1261.18	852.52	1262	956.52	1262	963.09	1261.9
983.6	1261.77	994.79	1261.67	999.35	1261.6	999.41	1261.64	1004.35	1261.59
1004.94	1261.58	1006.23	1261.6	1007.32	1261.57	1008.6	1261.57	1010.55	1261.56
1014.28	1261.55	1015.31	1261.6	1016.48	1261.55	1018.01	1261.55	1018.41	1261.6
1019.05	1261.56	1019.69	1261.57	1020.51	1261.57	1021.35	1261.6	1023.08	1261.56
1026.44	1261.56	1028.7	1261.6	1032.29	1261.57	1036.31	1261.57	1113.02	1260.6
1123.56	1260.55	1184.46	1260	1188.28	1259.92	1195.02	1259.8	1198.11	1259.75
1202.23	1259.7	1210.88	1259.61	1213.73	1259.6	1219.18	1259.56	1223.5	1259.55
1227.73	1259.53	1231.14	1259.53	1233.63	1259.5	1236.79	1259.53	1238.95	1259.53
1240.79	1259.54	1243.06	1259.56	1245.87	1259.6	1248.15	1259.62	1249.78	1259.64
1251	1259.68	1252.19	1259.74	1253.66	1259.8	1255.53	1259.87	1262.32	1260

51.96	1262	55.21	1262.91	58.51	1264	61.32	1265.35	62.7	1266
62.86	1266.07	63.46	1266.32	64.09	1266.42	64.64	1266.51	69.44	1266.5
69.88	1266.45	70.37	1266.35	70.49	1266.19	70.64	1266	70.7	1266
78.09	1264	85.81	1262.2	86.48	1262	89.17	1261.3	93.61	1260
99.21	1258.15	99.72	1258	100.2	1257.99	105.46	1257.85	180.4	1257.9
180.69	1257.92	184.31	1258	188.95	1258.01	200.01	1258	210.02	1258.06
212.7	1258.07	215.02	1258.07	218.5	1258.09	223.11	1258.1	227.52	1258.12
229.28	1258.12	229.85	1258.1	230.88	1258.13	232.33	1258.12	232.88	1258.13
233.99	1258.13	234.99	1258.1	235.36	1258.13	236.97	1258.13	237.76	1258.1
238.5	1258.13	241.72	1258.13	242.77	1258.1	243.73	1258.13	284.67	1258.14
325.72	1258.42	326.18	1258.42	327	1258.4	327.33	1258.42	328.95	1258.42
329.34	1258.4	329.59	1258.41	329.88	1258.4	330.28	1258.37	332.07	1258.37
332.25	1258.4	332.5	1258.37	332.78	1258.38	333.07	1258.38	333.89	1258.37
334.56	1258.4	350.18	1258.65	350.99	1258.69	352.18	1258.73	354.42	1258.79
356.33	1258.8	359.98	1258.91	413.75	1260	460.78	1260.4	463.4	1260.44
498.39	1260.83	507.78	1260.9	512.28	1260.99	524.05	1261.09	529.39	1261.1
536.32	1261.15	540.03	1261.15	542.01	1261.1	543.13	1261.13	544.95	1261.03
545.56	1260.95	546.28	1260.85	547.44	1260.8	549.06	1260.7	551.98	1260.65
555.02	1260.62	560	1260.59	564.08	1260.7	572.14	1260.66	574.24	1260.7
580.92	1260.7	583.12	1260.74	590.39	1260.8	597.41	1260.78	599.5	1260.81
605.17	1260.82	612.88	1260.82	614.76	1260.8	622.23	1260.83	635.38	1260.72
637	1260.72	648.83	1260.6	653.35	1260.54	655.48	1260.52	659.37	1260.45
669.73	1260.34	672.22	1260.3	673.78	1260.28	678.63	1260.26	680.04	1260.24
680.7	1260.24	682.14	1260.3	682.73	1260.25	690.09	1260.15	693.8	1260.2
704.34	1260.38	712.22	1260.5	717.14	1260.59	722.92	1260.66	728.62	1260.71
732.72	1260.73	739.5	1260.8	741.86	1260.78	747.44	1260.78	749.79	1260.8
751.98	1260.75	755.46	1260.72	757.72	1260.69	760.99	1260.62	762.83	1260.6
765.33	1260.48	768.38	1260.38	780.09	1260.03	781.42	1260	783.67	1260
786.26	1259.95	790.64	1259.92	800.1	1259.9	811.5	1259.9	822.82	1259.93
830.78	1260	870.02	1260	872.68	1259.94	878.23	1259.8	883.4	1259.77
903.24	1259.39	913.48	1259.21	918.45	1259.2	956.38	1258.56	995.71	1258.45
1022.56	1258.78	1030.8	1258.94	1034.68	1258.93	1041.09	1259.1	1044.89	1259.08
1047.94	1259.14	1051.46	1259.14	1054.4	1259.13	1058.56	1259.1	1063.23	1259.17
1066.38	1259.13	1069.46	1259.07	1071.81	1259	1074.11	1258.9	1080.31	1258.49
1081.07	1258.5	1082.25	1258.5	1088.83	1258.06	1088.94	1258.1	1089.89	1258
1093.31	1258	1098.36	1257.99	1187.98	1257.99	1194.24	1257.94	1225.92	1257.97
1226.23	1258	1238.95	1257.98	1240.82	1257.99	1276.67	1258	1307.77	1257.95
1312.23	1257.95	1317.84	1257.9	1322.74	1257.95	1341.21	1257.95	1345.35	1258
1350.52	1257.95	1359.12	1257.93	1398.09	1257.55	1540.71	1257.3	1540.81	1257.35
1541.2	1257.35	1541.56	1257.4	1541.71	1257.35	1542.19	1257.35	1542.43	1257.4
1542.72	1257.35	1543.52	1257.35	1543.93	1257.3	1544.26	1257.35	1544.81	1257.35
1544.87	1257.4	1544.89	1257.35	1545.76	1257.35	1545.82	1257.34	1545.92	1257.3
1546.04	1257.34	1546.34	1257.34	1557.3	1257.42	1643.76	1257.7	1645.28	1257.71
1647.26	1257.71	1648.54	1257.7	1649.65	1257.7	1650.65	1257.68	1651.92	1257.68
1652.84	1257.67	1653.54	1257.67	1653.96	1257.7	1656.32	1257.67	1658.37	1257.67
1659.26	1257.7	1660.54	1257.67	1661.01	1257.67	1661.89	1257.68	1662.83	1257.68
1680.12	1257.74	1713.48	1256.19	1716.49	1256.33	1717.44	1256.3	1718.72	1256.35
1720.16	1256.45	1724.17	1256.5	1727.05	1256.78	1727.11	1256.8	1737.59	1257.83
1738.72	1257.9	1739.5	1258	1745.33	1258.65	1748.4	1258.8	1752.85	1259.04
1760.84	1259.63	1778.9	1259.92	1779.62	1260	1782.02	1260	1785.99	1260.05
1792.22	1260.15	1792.92	1260.16	1798.7	1260.3	1805.45	1260.4	1831.85	1260.99
1846.31	1261.2	1851.97	1261.3	1860.74	1261.42	1864.67	1261.5	1880.42	1261.72
1882.46	1261.8	1884.03	1261.78	1899.27	1262	1901.71	1262.06	1903.22	1262.13
1916.96	1262.6	1920.63	1262.78	1932.51	1263.26	1935.61	1263.35	1942.27	1263.49
1944.6	1263.6	1949.31	1263.65	1955.87	1263.68	1960.29	1263.77	1966.33	1263.96
1982.07	1264.63	1986.21	1264.79	1989.55	1264.89	1992.67	1264.96	1996.91	1265
2000.79	1265.05	2005.64	1265.05	2007.63	1265.07	2016.57	1265.2	2018.24	1265.26
2049.19	1266	2052.82	1266.84	2054.44	1267.4	2062.67	1270	2083.4	1275.43
2087.91	1276.45	2095.46	1277.9	2104.42	1280	2108.71	1281.2	2111.45	1282
2117.05	1283.03	2120.19	1284	2126.75	1285.34	2128.98	1286	2134.06	1286.88
2136.79	1287.21	2139.86	1287.47	2141.64	1287.67	2146.8	1287.9	2151.62	1287.87
2152.36	1287.92	2155.36	1287.79	2155.86	1287.81	2156.17	1287.8	2156.51	1287.81
2156.92	1287.79	2157.7	1287.75	2158.87	1287.67	2161.54	1287.4	2168.22	1286.97

653.5	1258.44	658.14	1258.42	684.22	1258.52	687.02	1258.51	688.4	1258.5
694.6	1258.53	701.69	1258.53	714.99	1258.5	720.12	1258.41	725.04	1258.34
729.97	1258.24	736.32	1258.07	736.51	1258.1	740.01	1258	746.1	1258
748.6	1257.99	751.39	1258	771.98	1257.99	775.92	1258	778.33	1258
779.25	1258.02	784.8	1258.2	792.28	1258.39	794.48	1258.43	796.24	1258.4
798.33	1258.46	801.87	1258.47	805.44	1258.47	810.07	1258.46	813.57	1258.4
818.16	1258.43	831.18	1258.31	837.03	1258.2	847.12	1258.09	852.67	1258
1010.78	1257.86	1014.26	1257.9	1017.16	1257.85	1032.56	1257.84	1034.3	1257.8
1035.65	1257.84	1042.29	1257.84	1043.21	1257.8	1044.14	1257.84	1047.07	1257.84
1047.97	1257.8	1048.71	1257.84	1049.9	1257.84	1050.28	1257.8	1050.66	1257.84
1052.69	1257.84	1053.36	1257.8	1054.19	1257.84	1057.82	1257.84	1059.7	1257.8
1199.96	1256.68	1211.12	1256.69	1223.71	1256.66	1227.96	1256.7	1280.3	1256.98
1286.99	1256.95	1288.85	1256.93	1291.88	1256.88	1294.56	1256.9	1297.69	1256.85
1305.22	1256.85	1311.29	1256.87	1314.14	1256.9	1318.27	1256.91	1322.11	1256.94
1322.64	1256.95	1333.64	1257	1336.22	1257	1351.04	1256.92	1356.66	1256.9
1372.73	1256.76	1385.42	1256.7	1393.35	1256.71	1401.39	1256.7	1411.35	1256.65
1437.97	1256.43	1479.35	1256	1509.4	1255.51	1512.76	1255.48	1515.95	1255.5
1518.81	1255.46	1520.61	1255.47	1521.47	1255.5	1523	1255.62	1525.26	1255.6
1528.64	1255.67	1532.56	1255.68	1536.8	1255.67	1551.85	1255.6	1558.46	1255.53
1564.61	1255.48	1569.83	1255.45	1577.55	1255.43	1583.8	1255.4	1593.13	1255.44
1599.27	1255.51	1603.03	1255.6	1605.68	1255.67	1611.8	1255.9	1614.85	1256
1635.67	1256	1646.07	1255.98	1672.99	1255.97	1676.94	1256	1682.88	1255.97
1702.29	1255.96	1709.85	1256	1712.63	1255.95	1721.06	1255.95	1726.7	1256
1729.37	1255.95	1738.97	1255.95	1741.41	1256	1743.32	1255.95	1744.53	1255.95
1745.38	1255.94	1757.35	1255.94	1763.69	1255.9	1766.11	1255.95	1791.06	1256
1808.25	1257.21	1815.45	1257.53	1824.1	1257.84	1828.38	1258	1834.88	1258.2
1836.49	1258.23	1838.82	1258.33	1858.22	1259.02	1866.24	1259.39	1880.28	1260
1913.4	1260.89	1927.49	1261.39	1932.13	1261.52	1944.82	1262	1961.6	1262.5
1969.12	1262.68	1996.46	1263.43	2018.54	1263.93	2021.43	1264	2037.08	1264.4
2048.02	1264.76	2052.34	1264.87	2056.21	1264.96	2061	1265.05	2065.04	1265.1
2105.27	1266	2112.02	1266.76	2125.04	1268	2130.42	1268.4	2134.94	1268.79
2142.24	1269.38	2147.82	1270	2155.73	1270.32	2158.36	1270.4	2176.58	1271.07
2183.22	1271.26	2195.17	1271.63	2206.23	1272	2211.7	1272.37	2215.92	1272.55
2221.62	1272.84	2231.35	1273.16	2239.54	1273.5	2246.6	1273.66	2249.36	1273.76
2265.41	1273.94	2268.53	1274	2269.1	1274.02	2269.29	1274.02	2274.17	1274.27
2275.28	1274.29	2279.35	1274.5	2281.52	1274.55	2283.75	1274.56	2285.84	1274.59
2287.85	1274.65	2290.96	1274.8	2295.94	1275.01	2303.05	1275.38	2314.29	1276
2315.57	1276.36	2322.49	1278	2325.1	1278.34	2332.6	1279.56	2334.46	1279.86
2335.34	1280	2336.33	1280.9	2349.47	1290	2363.68	1296.14	2373.56	1300
2391.32	1307.03	2397.77	1309	2398.83	1309.32	2399.24	1309.43	2399.63	1309.51
2399.92	1309.55	2400.2	1309.6	2400.5	1309.56	2401.82	1310	2406.49	1310.96
2410.22	1311.42	2415.38	1311.7	2416.15	1311.96	2422.53	1311.59	2424.01	1312.11
2430.33	1311.6	2430.96	1311.8	2439.14	1311.94	2440.14	1311.99	2448.01	1312.17
2450.23	1312	2458.2	1311.7	2460.13	1311.75	2461.11	1311.66	2462.49	1311.42
2472.31	1310	2495.29	1306.9	2497.78	1306.39	2501.17	1305.74	2506.99	1304.74
2518.23	1301.19	2519.73	1300.8						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	75.91	.03	2142.24	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
75.91	2142.24	128	180	197	.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	112	1268	F
2142.24	2519.73	1275	F

CROSS SECTION

RIVER: Santa Clara
REACH: Reach 1 RS: 161

1724.99	1255.1	1728.23	1254.98	1734.15	1254.87	1777.3	1255.49	1778.04	1255.44
1784.78	1256	1784.9	1255.95	1785.35	1256	1802.4	1256.84	1813.06	1257.25
1820.32	1257.6	1834.31	1258	1849.68	1258.37	1851.85	1258.44	1859.18	1258.59
1861.89	1258.7	1871.24	1258.84	1878.51	1258.97	1898.59	1259.66	1900.6	1259.72
1909.05	1260	1910.03	1260.04	1922.05	1260.49	1922.13	1260.5	1929.65	1260.78
1934.17	1261	1937.46	1261.21	1943.95	1261.52	1945.5	1261.62	1954.79	1261.97
1955.44	1262	1972.01	1262.28	1981.36	1262.48	1998.46	1263.01	2006.08	1263.2
2009.93	1263.29	2012.97	1263.35	2017.37	1263.4	2022.64	1263.62	2024.06	1263.6
2025.28	1263.63	2028.35	1263.76	2029.8	1263.74	2033.61	1263.88	2034	1263.9
2042.28	1264	2047.22	1264.03	2047.31	1264.03	2047.65	1264.04	2047.8	1264
2047.95	1264.05	2048.11	1264.06	2048.4	1264.08	2055.6	1264.22	2056.27	1264.3
2057.99	1264.34	2063.78	1264.54	2069.2	1264.79	2077.06	1265.11	2096.97	1266
2109.25	1266.69	2141.09	1268	2141.88	1268.05	2142.07	1268.06	2142.31	1268.1
2142.71	1268.07	2164.72	1268.97	2170.06	1269.02	2175.2	1269.08	2181.01	1269.2
2190.13	1269.41	2199.48	1269.59	2211.26	1269.9	2211.78	1269.9	2215.34	1270
2232.76	1270.85	2236.72	1270.98	2245.7	1271.2	2250.09	1271.36	2252.68	1271.44
2256.03	1271.61	2263.08	1272	2276.22	1272.9	2287.44	1273.62	2292.69	1274
2296.49	1274.48	2303.79	1275	2304.17	1275.01	2318.49	1276	2325.16	1276.9
2335.72	1278	2340.7	1279.3	2342.42	1279.78	2343.52	1280	2356.67	1283.7
2372.79	1288.98	2372.93	1289	2375.97	1290	2379.75	1291.04		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	55.36	.03	2141.09	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
55.36	2141.09	79	150	223	.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	75	1265	F
2142	2379.75	1275	F

CROSS SECTION

RIVER: Santa Clara
REACH: Reach 1 RS: 160

INPUT
Description:
Station Elevation Data num= 347

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1262.1	11.25	1262.04	25.68	1262	26	1261.99	35.21	1261.58
35.86	1261.5	41.77	1261.21	52.01	1260.19	55.51	1260.81	57.71	1260.71
61.68	1262	65.08	1263.15	67.7	1264	76.94	1264	77.73	1263.5
78.21	1263.39	79.49	1262.82	81.09	1262	85.47	1261.14	88.15	1260.6
90.86	1260	111.76	1258.25	114.68	1258	116.38	1257.88	119.62	1257.7
132.75	1256.73	135.93	1256.52	136.88	1256.47	137.69	1256.45	139.98	1256.4
143.22	1256	202.42	1255.62	207.09	1255.6	218.73	1255.57	219.85	1255.57
222.07	1255.56	225.65	1255.5	227.24	1255.54	230.36	1255.53	231.53	1255.53
235.25	1255.5	248.5	1255.5	249.76	1255.51	252.66	1255.51	253.72	1255.5
257.03	1255.53	258.44	1255.54	318.43	1255.05	322.29	1255.07	326.32	1255.1
330.12	1255.14	333.96	1255.2	336.65	1255.26	339.34	1255.35	343.5	1255.5
351.24	1255.96	352.19	1256	354.83	1256.12	358.18	1256.2	363.22	1256.29
366.11	1256.28	371.68	1256.15	372.17	1256.16	375.58	1256.1	382.96	1256.14
390.56	1256.11	394.78	1256.05	396.59	1256	404.31	1255.7	406.58	1255.6
419.17	1255.03	433.95	1254.3	436	1254.27	437.29	1254.39	439.58	1254.38
442.83	1254.29	450.22	1254	457.61	1254	478.19	1254.45	479.9	1254.5
486.19	1254.66	495.41	1254.93	497.6	1254.98	502.32	1255.13	505.81	1255.2
507.92	1255.25	512.28	1255.37	515.49	1255.45	521.4	1255.4	524.57	1255.34
530.24	1255.33	532.02	1255.3	535.73	1255.21	537.03	1255.2	538.75	1255.22
543.22	1255.31	556.55	1255.67	561.68	1255.8	567.17	1255.88	567.99	1255.89
572.96	1255.96	573.2	1255.97	577.53	1256	585.2	1256	605.13	1255.88

RIVER: Santa Clara
REACH: Reach 1 RS: 159

INPUT
Description:
Station Elevation Data num= 499

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
853.47	1262.22	860.14	1262.3	865.46	1262.41	868.19	1262.45	882.04	1262.6
886.28	1262.64	889.1	1262.69	889.8	1262.72	890.23	1262.7	890.61	1262.77
891.2	1262.79	891.61	1262.8	892.84	1262.82	893.94	1262.8	894.38	1262.83
895.47	1262.82	898.24	1262.81	898.92	1262.8	900.61	1262.8	902.53	1262.76
964.66	1262	966.95	1261.2	970.47	1260	977.33	1259.09	980.59	1258.8
982.5	1258.59	990.97	1258	1023.14	1257.76	1041.36	1257.57	1043.7	1257.55
1048.09	1257.52	1049.26	1257.5	1086.28	1257.07	1126.49	1257.78	1134.13	1258
1135.78	1259.29	1137.07	1260	1137.27	1260.18	1138.98	1260.56	1156.73	1260.85
1162.72	1260.62	1166.43	1260.5	1170.6	1260.45	1177.09	1260.36	1191.48	1260
1227.08	1259.81	1228.25	1259.8	1229.38	1259.8	1233.09	1259.81	1238.8	1259.84
1244.89	1259.85	1251.31	1259.9	1257.66	1259.89	1274.77	1259.93	1278.42	1259.95
1284.32	1260	1286.79	1260	1314	1260.11	1319.18	1260.1	1323.7	1260.14
1346.51	1260.19	1383.99	1260.57	1394.9	1260.6	1401.13	1260.6	1414.86	1260.56
1420.57	1260.6	1426.36	1260.55	1428.76	1260.54	1430.35	1260.53	1433.08	1260.5
1434.15	1260.5	1435.66	1260.52	1436.83	1260.52	1438.95	1260.53	1445.31	1260.52
1446.51	1260.5	1449.16	1260.46	1455.5	1260.32	1467.16	1260.04	1468.26	1260
1469.44	1259.5	1471.8	1258	1476.64	1256.06	1476.77	1256	1476.86	1255.96
1480.89	1254	1500.15	1253.55	1518.79	1252.64	1519.37	1252.64	1520.27	1252.67
1521.64	1252.7	1522.43	1252.74	1522.53	1252.74	1522.86	1252.76	1523.32	1252.78
1523.68	1252.8	1524.3	1252.8	1524.64	1252.81	1524.8	1252.81	1524.94	1252.82
1525.05	1252.8	1525.22	1252.82	1526.33	1252.82	1527.18	1252.81	1527.5	1252.8
1528.02	1252.8	1528.43	1252.78	1528.84	1252.77	1529.38	1252.7	1529.79	1252.74
1530.25	1252.73	1530.57	1252.73	1566.43	1253.14	1570.96	1253.2	1575.75	1253.2
1578.18	1253.21	1580.57	1253.26	1582.86	1253.25	1620.1	1253.7	1625.75	1253.69
1640.39	1253.64	1689.21	1252.78	1694.36	1252.73	1698.86	1252.7	1700.92	1252.66
1704.54	1252.64	1707.99	1252.6	1710.41	1252.6	1714.39	1252.55	1717.34	1252.53
1718.38	1252.52	1720.2	1252.49	1721.1	1252.5	1722.49	1252.47	1723.6	1252.46
1725.34	1252.43	1726.77	1252.42	1727.43	1252.4	1728.55	1252.38	1729.16	1252.38
1730.63	1252.36	1732.14	1252.36	1732.89	1252.4	1733.28	1252.35	1733.58	1252.36
1733.94	1252.38	1734.25	1252.4	1734.61	1252.4	1734.99	1252.44	1735.56	1252.45
1736.33	1252.46	1737.64	1252.46	1739.27	1252.5	1739.98	1252.46	1741.61	1252.49
1742.99	1252.49	1743.98	1252.5	1744.5	1252.48	1744.78	1252.47	1744.91	1252.45
1745.32	1252.45	1745.96	1252.5	1747.03	1252.48	1750.64	1252.57	1751.87	1252.59
1753.74	1252.6	1754.85	1252.64	1756.63	1252.66	1758.41	1252.7	1760.76	1252.76
1763.28	1252.9	1764.45	1252.88	1770.42	1253	1772.06	1253.05	1772.26	1253.07
1774.07	1253.1	1774.82	1253.15	1775.68	1253.14	1776.3	1253.13	1776.86	1253.08
1777.64	1253.1	1778.99	1253.1	1780	1253.14	1781.07	1253.22	1781.6	1253.24
1782.46	1253.3	1783.96	1253.28	1786.5	1253.32	1787.54	1253.33	1788.65	1253.33
1790.75	1253.3	1791.72	1253.33	1792.58	1253.32	1794.05	1253.3	1795.72	1253.27
1796.69	1253.3	1798.45	1253.26	1799.67	1253.25	1800.67	1253.23	1801.39	1253.22
1803.27	1253.1	1804.4	1253.09	1805.56	1253	1806.96	1252.9	1808.03	1252.86
1809.31	1252.8	1810.29	1252.85	1857.97	1252.46	1858.5	1252.46	1860.63	1252.48
1861.18	1252.5	1862.84	1252.5	1863.25	1252.51	1864.09	1252.51	1865.42	1252.52
1867.23	1252.52	1868.38	1252.5	1869.22	1252.52	1869.75	1252.53	1870.41	1252.53
1870.69	1252.5	1871.06	1252.53	1871.62	1252.53	1872.09	1252.5	1872.67	1252.53
1873.75	1252.52	1874.74	1252.52	1874.87	1252.5	1874.97	1252.51	1875.18	1252.5
1876.55	1252.48	1878.22	1252.5	1881.44	1252.43	1883.38	1252.41	1895.97	1252.31
1914.58	1252.2	1935.65	1252	1940.28	1251.94	1948.23	1251.86	1954.95	1251.81
1965.72	1251.7	1970.05	1251.72	1973.14	1251.72	1978.8	1251.74	1982.09	1251.76
1984.77	1251.8	1986.92	1251.84	1991.65	1252	1995.06	1252.05	2029.59	1252.6
2051.22	1252.53	2051.33	1252.49	2052.43	1252.45	2054.56	1252.42	2057.52	1252.4
2060.44	1252.4	2062.41	1252.41	2067.88	1252.43	2069.76	1252.44	2075.89	1252.5
2081.78	1252.5	2086.34	1252.51	2089.96	1252.51	2096.53	1252.46	2099.14	1252.4
2106.46	1252.29	2108.7	1252.31	2112.01	1252.27	2113.05	1252.3	2116.95	1252.27
2117.76	1252.27	2125.85	1252.26	2126.66	1252.26	2130.47	1252.3	2141.82	1252.35

INPUT
Description:
Station Elevation Data num= 470

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1260.2	4.2	1260	7.56	1259.83	17.76	1260	33.31	1260.31
38.29	1260.3	43.02	1260.31	47.67	1260.27	54.92	1260.15	59.74	1260.01
60.63	1260	61.34	1259.99	68.7	1259.99	68.94	1260	75.54	1260
79.16	1259.86	83.2	1259.77	88.48	1259.6	92.58	1259.46	102.12	1259.22
103.98	1259.21	108.37	1259.26	110.32	1259.4	112.07	1259.48	115.72	1259.89
117.55	1260	123.65	1260.3	129.26	1260.44	131.93	1260.45	134.08	1260.38
139.32	1260	149.02	1260	153.38	1260.46	155.82	1260.63	158.68	1260.8
159.89	1260.85	160.15	1260.89	168.63	1261.33	169.97	1261.35	171.34	1261.4
173.35	1261.35	174.69	1261.35	178.63	1261.32	179.93	1261.32	181.19	1261.3
236.56	1260.85	240.47	1260.87	245.84	1260.87	247.64	1260.9	252.51	1260.84
254.12	1260.79	254.72	1260.79	263.09	1260.8	264.82	1260.73	267.74	1260.69
289.39	1260.35	304.29	1260.19	308.1	1260.16	308.55	1260.16	309.37	1260.1
335.47	1260	355.99	1259.7	356.27	1259.68	358.9	1259.6	364.07	1258.9
365.6	1258.81	366.77	1258.82	367.71	1258.59	368.51	1258.55	370.53	1258.4
371.8	1258.36	380.27	1258.13	380.6	1258.13	389.27	1258.08	389.87	1258.1
391.84	1258	393.63	1257.98	404.31	1257.95	413.21	1257.97	419.44	1258
423.4	1258.06	423.53	1258.06	432.97	1258.21	435.61	1258.5	441.28	1258.41
448.03	1260	520.17	1260	530.56	1260.2	531.33	1260.21	534.1	1260.24
561.26	1260.68	563.81	1260.7	568.8	1260.7	587.28	1260.98	592.27	1261.02
595.62	1261.06	599.05	1261.12	611.18	1261.4	618.45	1261.53	633.54	1262
736.14	1262	762.91	1261.24	771.71	1260.95	775.27	1260.84	795.18	1260.17
796.13	1260.1	800.11	1260	803.49	1258.43	808.44	1256	898.37	1254.75
906.4	1254.6	915.38	1254.53	919.99	1254.47	920.19	1254.5	937.47	1254.53
938.13	1254.5	939.19	1254.5	940.81	1254.45	942.23	1254.42	942.72	1254.42
943.27	1254.5	943.86	1254.48	944.78	1254.49	945.81	1254.51	947.01	1254.49
948.01	1254.5	948.76	1254.48	949.67	1254.46	950.05	1254.46	951.49	1254.52
991.54	1255.9	992.4	1256	993.59	1255.91	993.67	1255.92	993.86	1255.94
995.88	1256	1031.02	1256.46	1036.88	1256.05	1037.55	1256	1039.01	1255.57
1044.21	1254	1048.42	1254	1049.36	1254.23	1052.58	1255.01	1057.08	1256
1059.98	1256.01	1075.16	1256.03	1082.32	1256.05	1084.56	1256.05	1119.8	1256.7
1125.27	1256.75	1172.57	1256.03	1189.55	1256	1192.3	1255.07	1194.52	1254
1202.54	1252.9	1207.76	1252.47	1213.87	1252	1220.57	1251.24	1222.91	1251
1224.7	1250.96	1229.7	1250.48	1230.24	1250.57	1241.22	1251.02	1250.68	1250.6
1256.21	1250.31	1261.54	1250	1275.91	1250	1278	1250.14	1278.42	1250.14
1278.6	1250.13	1279.86	1250.23	1322.89	1251.4	1326.09	1251.35	1333.39	1251.27
1335.63	1251.22	1340.04	1251.1	1343.01	1251.07	1345.09	1251.04	1350.32	1251
1354.49	1251	1355.31	1250.95	1356.59	1250.96	1357.45	1250.97	1358.7	1250.97
1371.83	1251.1	1372.35	1251.12	1375.19	1251.2	1381.76	1251.31	1383.73	1251.3
1384.38	1251.33	1385.55	1251.34	1394.39	1251.37	1432.68	1251.24	1434.13	1251.2
1435.82	1251.23	1441.15	1251.17	1443.86	1251.13	1444.93	1251.1	1446.62	1251.11
1449.2	1251.09	1510.43	1250.15	1511.21	1250.15	1512.06	1250.1	1512.4	1250.13
1515.29	1250.1	1518.25	1250.13	1521.23	1250.1	1525.71	1250	1545.67	1250
1548.15	1250.07	1552.51	1250.27	1554.78	1250.3	1559.15	1250.42	1602.98	1250.51
1603.24	1250.48	1603.98	1250.47	1605.4	1250.5	1611.1	1250.54	1613.16	1250.55
1615.01	1250.55	1616.47	1250.53	1618.11	1250.5	1621.67	1250.34	1623.14	1250.3
1625.16	1250.29	1627.51	1250.3	1637.01	1250.4	1639.38	1250.38	1641.71	1250.38
1645.72	1250.34	1647.46	1250.3	1652.62	1250.13	1654.78	1250.09	1656.82	1250.09
1657.78	1250.1	1658.44	1250.26	1659.75	1250.35	1661.97	1250.66	1662.58	1250.7
1663.59	1250.71	1666.37	1250.71	1670.57	1250.65	1677.63	1250.6	1683.77	1250.53
1687.4	1250.51	1689.06	1250.49	1690.21	1250.46	1692.41	1250.3	1694.68	1250.17
1696.79	1250.11	1699.46	1250.06	1702.15	1250.03	1716.23	1250.12	1719.09	1250.08
1721.58	1250.07	1722.89	1250.1	1739.45	1250	1760.9	1250	1763.85	1249.92
1776.5	1250	1779.89	1250	1782.22	1250.02	1810.43	1250.2	1814.08	1250.2
1817.46	1250.23	1820.45	1250.23	1823.01	1250.24	1826.17	1250.23	1830.66	1250.2
1841.46	1250.2	1853.67	1250.23	1855.97	1250.2	1860.4	1250.23	1870.04	1250.23
1874.23	1250.22	1882.12	1250.22	1884.91	1250.2	1888.29	1250.24	1892.49	1250.26
1900.36	1250.32	1902.99	1250.35	1904.97	1250.4	1906.75	1250.41	1910.85	1250.45
1912.47	1250.45	1914.33	1250.5	1917.32	1250.46	1920.3	1250.45	1923.07	1250.45
1925.59	1250.44	1927.18	1250.4	1929.6	1250.42	1937.78	1250.37	1955.35	1250.2

257.47	1254	270.86	1254	289.37	1254.23	301.07	1254.4	308.62	1254.47
316.63	1254.56	318.88	1254.58	322.22	1254.63	325.1	1254.7	327.45	1254.68
328.62	1254.7	330.1	1254.72	330.78	1254.72	331.4	1254.7	332.47	1254.74
349.32	1254.66	349.55	1254.65	350.51	1254.63	351.61	1254.6	355.56	1254.54
357.14	1254.52	359.18	1254.5	361.59	1254.47	375.34	1254.35	430.19	1253.66
437.96	1253.6	469.52	1253.11	488.23	1253.77	538.96	1253.77	542.58	1253.75
544.68	1253.7	547.26	1253.76	553.06	1253.82	557.73	1253.85	557.89	1253.85
558.17	1253.9	558.57	1253.87	560.9	1253.89	560.97	1253.9	561.26	1253.9
566.38	1253.88	566.49	1253.88	566.57	1253.87	566.64	1253.9	566.73	1253.87
571.5	1253.77	571.68	1253.76	576.44	1253.75	576.67	1253.7	577.02	1253.73
577.78	1253.72	578.31	1253.7	582.57	1253.65	597.82	1253.3	606.4	1253.08
622.56	1252.72	624.09	1252.71	626.01	1252.67	638.23	1252.38	638.64	1252.36
639.58	1252.35	641.41	1252.31	642.94	1252.3	645.14	1252.26	645.99	1252.28
662.24	1252.26	672.37	1252	673.84	1252	675.56	1251.93	676.69	1251.92
677.9	1251.92	678.92	1251.98	679.4	1252	705.81	1252.53	717.26	1252.7
746.24	1253.2	771.63	1253.7	772.48	1253.71	774.45	1253.71	776.38	1253.7
824.53	1252.7	826.21	1252.72	833.65	1252.63	834.02	1252.64	852.22	1252.53
874.21	1252	890.1	1252	898.64	1253.4	902.54	1254	927.57	1254.28
930.68	1254.32	932.95	1254.3	935.42	1254.37	937.09	1254.39	940.13	1254.42
941.84	1254.4	942.58	1254.44	943.35	1254.44	944.22	1254.45	945.02	1254.4
945.34	1254.45	946.19	1254.45	946.52	1254.5	946.87	1254.45	949.15	1254.45
949.64	1254.5	950.06	1254.45	950.54	1254.45	950.72	1254.4	950.82	1254.45
952.47	1254.43	953.02	1254.43	953.69	1254.42	954.5	1254.4	955.41	1254.41
956.19	1254.41	957.17	1254.4	959.75	1254.38	963.62	1254.3	965.51	1254.33
1008.28	1254	1009.1	1253.86	1019.65	1252	1056.69	1250	1060.14	1249.5
1069.09	1248	1071.54	1247.71	1082.67	1247.75	1082.84	1248	1084.79	1248.1
1087.52	1248.28	1089.66	1248.36	1092.3	1248.41	1093.72	1248.42	1096.39	1248.4
1098.53	1248.41	1101.16	1248.33	1102.75	1248.24	1105.73	1248	1106.98	1247.8
1116.03	1246.61	1117.08	1246.44	1117.67	1246.34	1118	1246.31	1118.42	1246.3
1119.59	1246.2	1120.08	1246.18	1120.42	1246.18	1120.55	1246.2	1120.64	1246.18
1120.87	1246.19	1120.93	1246.2	1121.04	1246.3	1121.29	1246.31	1122.79	1246.52
1123.99	1246.55	1132.04	1248	1135.48	1249.03	1136.22	1249.08	1137.17	1249.12
1138.27	1249.14	1140.47	1249.2	1142.29	1249.12	1144.67	1249.06	1147.16	1249.28
1151.92	1249.12	1154.52	1249.3	1156	1249.32	1157.43	1249.36	1160.51	1249.44
1161.91	1249.48	1231.46	1249.1	1252.76	1249.33	1291.86	1248.95	1295.01	1248.89
1296.41	1248.86	1335.79	1248.8	1337.16	1248.78	1338.26	1248.78	1339.31	1248.8
1340.42	1248.85	1341.61	1248.9	1342.63	1249.02	1343.35	1249.04	1344.36	1249.05
1345.42	1249.04	1346.31	1249	1347.28	1249	1350.69	1248.89	1351.61	1248.84
1352.5	1248.73	1353.54	1248.7	1358.79	1248.45	1365.9	1248.18	1366.38	1248.18
1371.57	1248	1386.26	1248	1389.73	1248.02	1392.91	1248.03	1394.91	1248
1478.23	1248.12	1478.69	1248.09	1479.9	1248.07	1481.87	1248.06	1484.23	1248.1
1489.27	1248.12	1493.44	1248.12	1494.57	1248.09	1494.67	1248	1501.69	1248
1503.84	1248.08	1505.75	1248.11	1506.99	1248.1	1511.65	1248.12	1513.35	1248.15
1514.92	1248.22	1516.07	1248.24	1517.89	1248.2	1519.78	1248.24	1521.24	1248.23
1521.57	1248.21	1525.7	1248.13	1527.69	1248.1	1529.16	1248.11	1529.3	1248.16
1566.96	1248.17	1568.79	1248.14	1580.49	1248	1592.2	1248	1606.29	1248.13
1615.51	1248.08	1616.3	1248.1	1618.25	1248.04	1620.49	1248.05	1623.47	1248.07
1625.87	1248.12	1627.2	1248.2	1653.02	1248.19	1653.9	1248.18	1666.8	1248
1668.02	1248	1692.29	1247.59	1697.36	1247.52	1708.46	1247.41	1712.72	1247.4
1718.03	1247.36	1721.61	1247.35	1750.9	1247.4	1759.1	1247.4	1767.9	1247.5
1773.95	1247.52	1774.55	1247.52	1780.51	1247.53	1781.08	1247.5	1781.32	1247.54
1782.62	1247.58	1783.06	1247.59	1783.71	1247.59	1784.82	1247.6	1785.93	1247.59
1787.94	1247.56	1789.16	1247.5	1790.57	1247.49	1792.19	1247.46	1793.35	1247.45
1798.69	1247.44	1815.17	1247.37	1816.11	1247.37	1824.97	1247.35	1828.63	1247.32
1833.48	1247.2	1835.5	1247.24	1837.98	1247.25	1842.26	1247.29	1845.54	1247.34
1859.44	1247.62	1872.67	1247.94	1875.3	1248	1885.95	1248.2	1903.83	1248.49
1909.84	1248.62	1913.91	1248.69	1917.05	1248.7	1923.32	1248.81	1933.38	1248.9
1940.09	1248.93	1944.36	1248.9	1948.56	1248.95	1955.93	1248.97	1958.51	1248.97
1961.28	1249	1964.22	1248.95	1967.95	1248.93	1973.98	1248.86	1976.61	1248.8
1981.32	1248.74	2000.42	1248.34	2019.04	1248	2054.8	1247.81	2054.95	1247.81
2065.62	1247.75	2067.86	1247.7	2070.07	1247.74	2072.97	1247.73	2075.22	1247.73
2077.45	1247.72	2080.36	1247.7	2083.24	1247.73	2093.65	1247.74	2096.65	1247.75
2099.6	1247.8	2113.68	1247.79	2120.86	1247.82	2123.69	1247.84	2129.63	1247.9

506.11	1249.68	507.15	1249.61	507.97	1249.53	513.91	1248.9	522.96	1248
539.17	1247.05	555.16	1246	609.84	1244.7	626.52	1244.27	630.72	1244.17
632.15	1244.13	632.77	1244.12	633	1244.1	636.35	1244.14	636.53	1244.21
639.54	1244.83	639.92	1244.7	645.3	1246	658.88	1246.69	660.31	1246.68
661.49	1246.7	744.94	1246.83	747.44	1246.81	750.03	1246.78	752.66	1246.74
758.63	1246.6	761.71	1246.6	762.6	1246.58	763.46	1246.58	765.35	1246.56
766.02	1246.6	766.62	1246.55	768.13	1246.52	768.6	1246.52	769.09	1246.51
769.79	1246.5	770.19	1246.51	770.47	1246.52	770.63	1246.52	770.85	1246.54
771.08	1246.5	771.27	1246.55	772.51	1246.55	772.88	1246.5	773.15	1246.53
773.93	1246.5	774.8	1246.5	775.11	1246.51	775.74	1246.52	776.07	1246.53
777.06	1246.6	778.35	1246.59	779.48	1246.61	815.04	1246.18	875.97	1246
878.22	1246	883.2	1245.74	885.25	1245.67	888.57	1245.6	892.18	1245.49
893.98	1245.46	895.8	1245.45	897.31	1245.45	897.77	1245.5	899.43	1245.54
902.36	1245.59	904.26	1245.71	904.87	1245.88	905.29	1246	909.1	1246.08
913.32	1246.15	916.23	1246.19	919.19	1246.21	922.26	1246.2	926.75	1246.23
940.69	1246.19	947.01	1246.1	949.74	1246.01	950.77	1246	955.3	1245.95
965.16	1245.86	974.16	1245.8	978.42	1245.7	979.87	1245.64	981.15	1245.61
984.83	1245.6	989.52	1245.51	991.11	1245.5	992.77	1245.5	994.32	1245.51
998.14	1245.6	1000.04	1245.6	1001.79	1245.59	1004.45	1245.55	1006.26	1245.55
1007.97	1245.6	1015.67	1245.76	1024.52	1246	1026.18	1246.01	1028.97	1246
1031.34	1246.06	1037.49	1246.09	1040.6	1246.1	1042.19	1246.1	1044.3	1246.12
1046.18	1246.13	1047.55	1246.14	1048.41	1246.14	1050.47	1246.1	1052.55	1246.14
1054.49	1246.14	1057.07	1246.13	1058.15	1246.13	1059.48	1246.1	1060.96	1246.11
1062.98	1246.11	1065.24	1246.1	1074.39	1246.1	1077.59	1246.08	1085.37	1246.08
1087.16	1246.1	1093.7	1246.01	1094.96	1246	1102.86	1245.72	1105.03	1245.7
1106.9	1245.66	1107.93	1245.68	1108.48	1245.71	1108.69	1245.83	1108.91	1246
1109.57	1246	1110.68	1246.01	1114.07	1246.03	1116.81	1246.02	1117.89	1246
1119.01	1245.99	1123.51	1245.9	1126.48	1245.86	1129.08	1245.85	1130.5	1245.9
1132.12	1246	1135.23	1246.06	1138.14	1246.1	1143.34	1246.1	1144.11	1246.07
1145.27	1246	1152.21	1245.82	1154.35	1245.8	1163.28	1245.75	1166.53	1245.7
1170.01	1245.7	1178.76	1245.74	1185.29	1245.7	1188.21	1245.76	1202.65	1246
1205.35	1246.1	1207.86	1246.13	1210.58	1246.14	1210.98	1246.14	1220.25	1246.12
1222.62	1246.1	1226	1246.04	1227.62	1246	1232.44	1245.59	1234.63	1245.55
1237.96	1245.3	1242.88	1244.79	1244.37	1244.61	1244.99	1244.53	1245.46	1244.46
1246.31	1244.4	1247.1	1244.3	1247.32	1244.29	1248.3	1244.29	1248.62	1244.3
1248.75	1244.3	1248.91	1244.31	1249.1	1244.35	1249.35	1244.42	1249.38	1244.5
1249.65	1244.55	1250.19	1244.56	1250.83	1244.56	1251.73	1244.58	1252.34	1244.5
1252.9	1244.46	1253.31	1244.39	1254	1244.31	1254.31	1244.28	1254.54	1244.3
1254.94	1244.27	1255.16	1244.26	1255.48	1244.26	1255.81	1244.27	1255.96	1244.3
1256.98	1244.29	1257.38	1244.3	1257.91	1244.3	1258.76	1244.31	1259.54	1244.3
1259.94	1244.3	1260.21	1244.29	1260.35	1244.29	1260.45	1244.27	1260.54	1244.3
1260.8	1244.24	1261.41	1244.24	1262.17	1244.25	1263.05	1244.2	1263.87	1244.25
1264.25	1244.25	1264.63	1244.26	1264.99	1244.26	1265.51	1244.3	1266.67	1244.31
1267.95	1244.35	1269.57	1244.39	1270.33	1244.41	1271.17	1244.4	1272.16	1244.42
1272.61	1244.41	1273.11	1244.39	1273.57	1244.37	1274.09	1244.4	1275.22	1244.36
1277.06	1244.36	1277.53	1244.4	1281.39	1244.43	1295.34	1244.7	1375.09	1246
1388.02	1246.3	1395.12	1246.42	1399	1246.47	1403.18	1246.51	1407.8	1246.54
1412.72	1246.6	1417.33	1246.55	1420	1246.54	1423.53	1246.51	1431.16	1246.4
1438.76	1246.19	1454.1	1246.02	1455.44	1246	1459.07	1245.93	1459.24	1245.93
1469.96	1245.69	1476.13	1245.57	1480.68	1245.5	1484.94	1245.47	1499.06	1245.41
1499.86	1245.41	1509.3	1245.3	1512.14	1245.31	1519.61	1245.3	1521.85	1245.28
1527.35	1245.22	1529.79	1245.2	1533.51	1245.21	1537.17	1245.23	1539.67	1245.26
1543.45	1245.32	1549.38	1245.4	1553.18	1245.5	1557.32	1245.55	1558.02	1245.57
1558.34	1245.58	1559.57	1245.6	1561.17	1245.68	1561.93	1245.72	1562.25	1245.73
1562.78	1245.74	1563	1245.7	1563.18	1245.76	1568.59	1245.77	1568.69	1245.7
1568.8	1245.67	1569.08	1245.66	1569.81	1245.66	1570.55	1245.7	1571.07	1245.68
1571.59	1245.68	1572.01	1245.67	1572.16	1245.66	1572.68	1245.6	1573.31	1245.61
1574.71	1245.57	1578.81	1245.61	1579.39	1245.6	1588.23	1245.6	1597.64	1245.7
1601.62	1245.78	1605.3	1245.88	1608.68	1246	1612.12	1246.1	1613.86	1246.14
1615.07	1246.25	1616.1	1246.35	1618.17	1246.44	1664.93	1246.4	1666.46	1246.34
1667.86	1246.33	1670.44	1246.32	1686.25	1246.31	1687.12	1246.3	1697.24	1246.3
1706.4	1246.39	1714.95	1246.44	1717.48	1246.4	1719.43	1246.43	1723.28	1246.34
1725.36	1246.31	1729.47	1246.28	1732.49	1246.3	1734.26	1246.27	1757.51	1246.26

905.41	1242.49	906.02	1242.55	906.79	1242.6	907.93	1242.72	909.51	1242.8
910.78	1242.79	913.59	1242.9	915.7	1242.9	917.33	1242.91	966.39	1242.93
985.27	1242.1	985.85	1242.1	988.27	1242	989.01	1241.99	991.14	1241.99
991.79	1242	993.17	1242.13	994.5	1242.18	996.28	1242.19	1000.16	1242.07
1001.75	1242	1007.32	1241.9	1021.41	1242	1028.85	1242	1033.1	1241.89
1035.4	1241.86	1038.08	1241.85	1043.9	1241.9	1046.38	1242	1047	1242.03
1053.2	1242.33	1056.9	1242.5	1057.62	1242.51	1065.58	1242.77	1067.55	1242.81
1069.43	1242.83	1071.98	1242.8	1076.11	1242.79	1077.78	1242.79	1080.5	1242.81
1084.86	1242.89	1085.86	1242.9	1087.6	1243.06	1087.93	1243.08	1091.1	1243.21
1092.22	1243.23	1092.65	1243.2	1095.78	1243.27	1096.68	1243.28	1097.86	1243.27
1099.05	1243.25	1100.56	1243.2	1102	1243.18	1102.72	1243.15	1104.56	1243.04
1108.42	1242.87	1111.83	1242.8	1114.44	1242.68	1116.72	1242.65	1117.91	1242.63
1120.5	1242.56	1125.55	1242.4	1127.63	1242.4	1130.02	1242.36	1130.58	1242.34
1131.22	1242.33	1131.94	1242.3	1132.72	1242.27	1133.35	1242.24	1133.65	1242.24
1133.86	1242.23	1134.06	1242.2	1134.22	1242.24	1134.3	1242.24	1134.4	1242.28
1134.58	1242.3	1134.79	1242.29	1135.1	1242.3	1135.46	1242.3	1135.92	1242.29
1136.24	1242.3	1136.6	1242.26	1136.77	1242.24	1138.06	1242.26	1138.14	1242.26
1138.36	1242.3	1138.66	1242.27	1139.42	1242.27	1139.89	1242.25	1140.08	1242.3
1140.25	1242.26	1140.59	1242.27	1141.12	1242.29	1141.72	1242.31	1142.28	1242.3
1142.9	1242.35	1143.62	1242.37	1144.21	1242.38	1145.61	1242.38	1146.23	1242.4
1147.11	1242.39	1148.48	1242.41	1152.52	1242.52	1154.48	1242.56	1156.84	1242.6
1161.92	1242.62	1170.2	1242.58	1172.44	1242.6	1176.57	1242.62	1180.3	1242.63
1182.33	1242.62	1184.45	1242.64	1186.75	1242.7	1189.76	1242.7	1193.09	1242.69
1194.91	1242.7	1196.98	1242.8	1199.23	1242.79	1204.79	1242.83	1209.21	1242.84
1211.52	1242.8	1215.39	1242.82	1229.94	1242.75	1235.1	1242.7	1241.2	1242.74
1243.7	1242.72	1249.49	1242.69	1252.93	1242.7	1255.03	1242.67	1268.68	1242.43
1285.03	1242.1	1290.23	1242.06	1293.35	1242	1301.11	1241.76	1303.27	1241.7
1305.51	1241.72	1306.99	1241.74	1309.54	1241.82	1314.36	1241.89	1315.22	1241.9
1315.34	1242	1344.23	1242.46	1360.44	1242.69	1373.01	1242.9	1376.06	1242.92
1382.9	1242.99	1387.72	1243.05	1389.63	1243.08	1394.53	1243.2	1396.2	1243.19
1398.83	1243.21	1401.39	1243.21	1401.76	1243.2	1405.48	1243.07	1406.67	1243.05
1408.51	1243.05	1410.41	1243.1	1413.47	1243.09	1414.82	1243.1	1416.87	1243.1
1418.29	1243.2	1419.13	1243.16	1419.96	1243.15	1420.84	1243.13	1425.14	1243.01
1427.49	1242.9	1430.21	1242.86	1430.86	1242.87	1433.06	1242.83	1434.76	1242.83
1486.44	1242.7	1487.07	1242.73	1490.41	1242.78	1491.4	1242.79	1491.94	1242.8
1494.49	1242.8	1494.76	1242.81	1494.93	1242.81	1495.13	1242.8	1495.56	1242.81
1496.43	1242.81	1496.55	1242.8	1496.65	1242.81	1496.74	1242.82	1497.47	1242.82
1498.03	1242.8	1498.76	1242.81	1499.91	1242.81	1500.82	1242.8	1501.21	1242.8
1502.11	1242.79	1503.48	1242.78	1505.36	1242.77	1564.12	1243.6	1565.6	1243.66
1566.29	1243.63	1570.54	1243.49	1574.63	1243.3	1576.75	1243.29	1579.64	1243.18
1581.03	1243.14	1585	1243.01	1593.26	1242.7	1597.62	1242.6	1599.16	1242.59
1601.76	1242.5	1602.65	1242.48	1603.91	1242.5	1604.54	1242.47	1605.11	1242.42
1605.26	1242.36	1605.64	1242.28	1605.83	1242.3	1606.19	1242.25	1606.59	1242.22
1606.9	1242.2	1607.04	1242.19	1607.25	1242.2	1607.51	1242.19	1607.64	1242.19
1608.07	1242.2	1608.71	1242.2	1608.92	1242.19	1608.98	1242.19	1609.12	1242.18
1609.3	1242.17	1609.66	1242.2	1609.87	1242.16	1610.13	1242.17	1610.64	1242.17
1611.15	1242.2	1611.23	1242.18	1611.31	1242.18	1611.43	1242.21	1611.59	1242.23
1612.02	1242.3	1612.58	1242.3	1613.29	1242.34	1613.63	1242.36	1614.39	1242.43
1619.87	1243	1628.21	1244	1635.72	1244.79	1646	1246	1648.33	1246
1654.09	1246.1	1659.35	1246.14	1662.23	1246.15	1666.08	1246.2	1669.98	1246.17
1676.63	1246.17	1679.6	1246.16	1682	1246.2	1682.28	1246.15	1690.59	1246.09
1693.8	1246.06	1698.18	1246	1708.4	1245.9	1739.14	1245.65	1749.19	1245.55
1751.84	1245.5	1751.94	1245.53	1762.09	1245.49	1765.18	1245.5	1767.11	1245.46
1770.45	1245.44	1771.91	1245.42	1772.79	1245.41	1773.28	1245.4	1773.5	1245.4
1773.71	1245.37	1776.21	1245.36	1777.2	1245.36	1777.93	1245.4	1778.55	1245.36
1779.74	1245.35	1780.28	1245.35	1781.27	1245.34	1781.98	1245.3	1782.63	1245.34
1783.22	1245.34	1783.71	1245.35	1784.02	1245.35	1784.55	1245.4	1785.15	1245.38
1786.92	1245.41	1789.46	1245.44	1792.06	1245.5	1795.01	1245.47	1800.39	1245.52
1805.29	1245.59	1809.65	1245.6	1812.29	1245.68	1817.33	1245.72	1823.05	1245.73
1826.48	1245.7	1830.4	1245.78	1832.63	1245.79	1855.72	1246	1900.64	1246.91
1903.16	1247	1906.86	1247.05	1961.75	1247.94	1965.1	1247.94	1967.81	1247.9
1970.67	1247.94	1974.72	1247.95	2005.92	1248	2055.7	1248	2089.72	1248.26
2100.07	1248.3	2111.08	1248.4	2122.43	1248.47	2131.89	1248.51	2139.74	1248.5

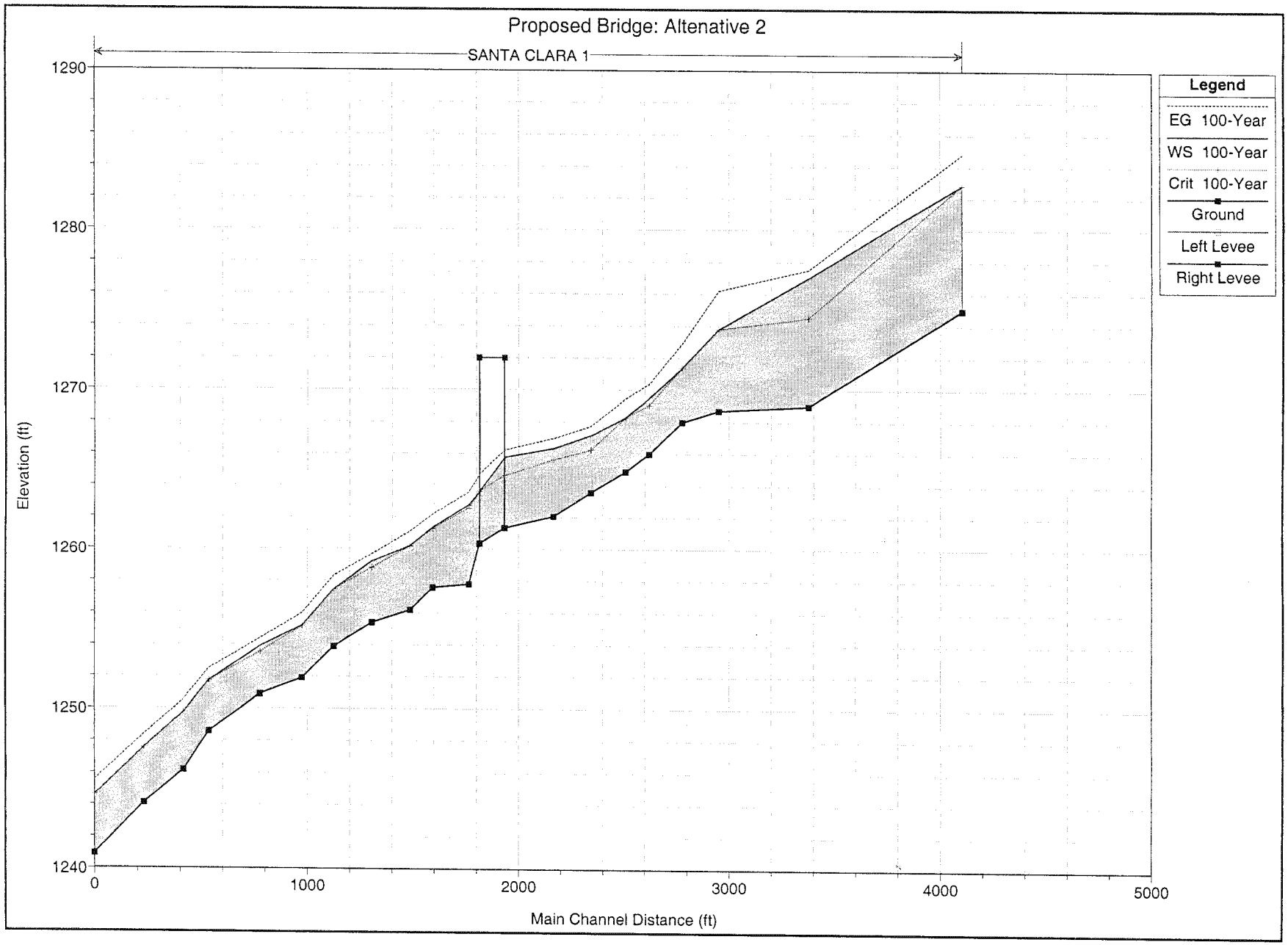
Reach 1	166	120	120	120
Reach 1	165.9	Bridge		
Reach 1	165.5	49	50	232
Reach 1	165	146	171	76.5
Reach 1	164	75	107	69
Reach 1	163	76	182	285
Reach 1	162	128	180	197
Reach 1	161	79	150	223
Reach 1	160	250	198	139
Reach 1	159	312	240	210
Reach 1	158	246	120	52
Reach 1	157	298	184	118
Reach 1	156	121	232	363
Reach 1	155	745	220	330

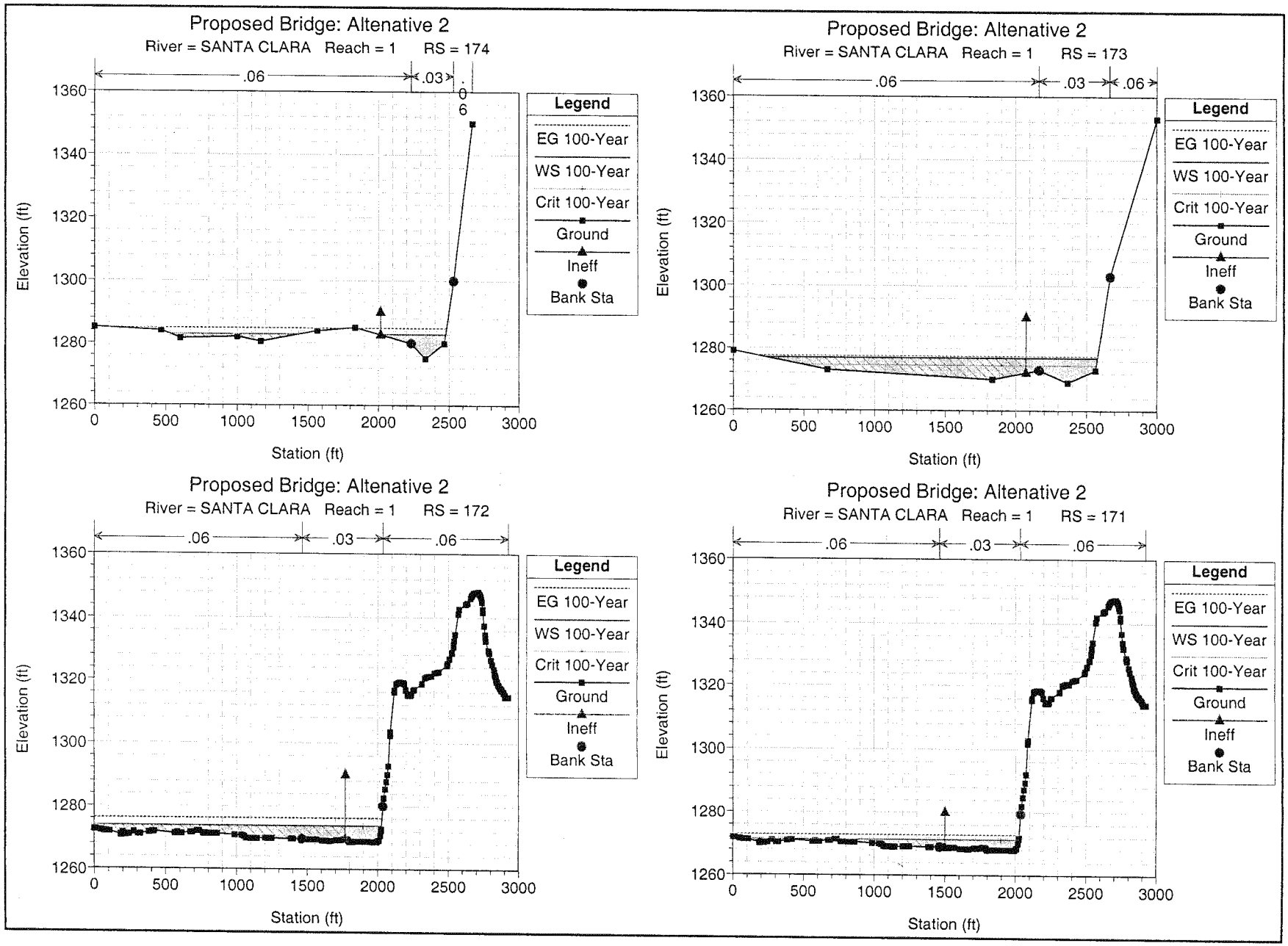
SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: Santa Clara

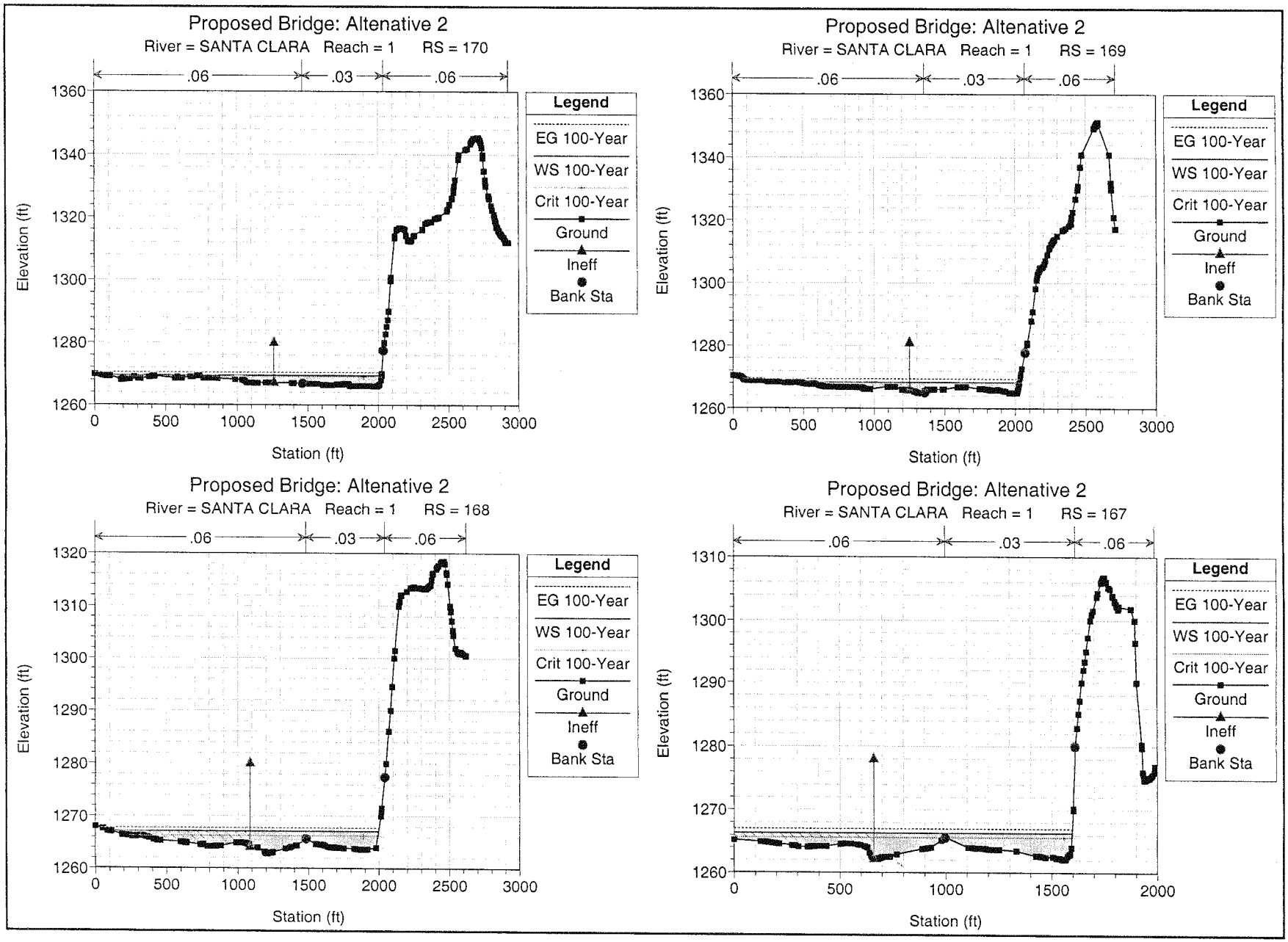
Reach	River Sta.	Contr.	Expan.
Reach 1	174	.1	.3
Reach 1	173	.1	.3
Reach 1	172	.1	.3
Reach 1	171	.1	.3
Reach 1	170	.1	.3
Reach 1	169	.1	.3
Reach 1	168	.1	.3
Reach 1	167	.1	.3
Reach 1	166	.3	.5
Reach 1	165.9	Bridge	
Reach 1	165.5	.3	.5
Reach 1	165	.1	.3
Reach 1	164	.1	.3
Reach 1	163	.1	.3
Reach 1	162	.1	.3
Reach 1	161	.1	.3
Reach 1	160	.1	.3
Reach 1	159	.1	.3
Reach 1	158	.1	.3
Reach 1	157	.1	.3
Reach 1	156	.1	.3
Reach 1	155	.1	.3

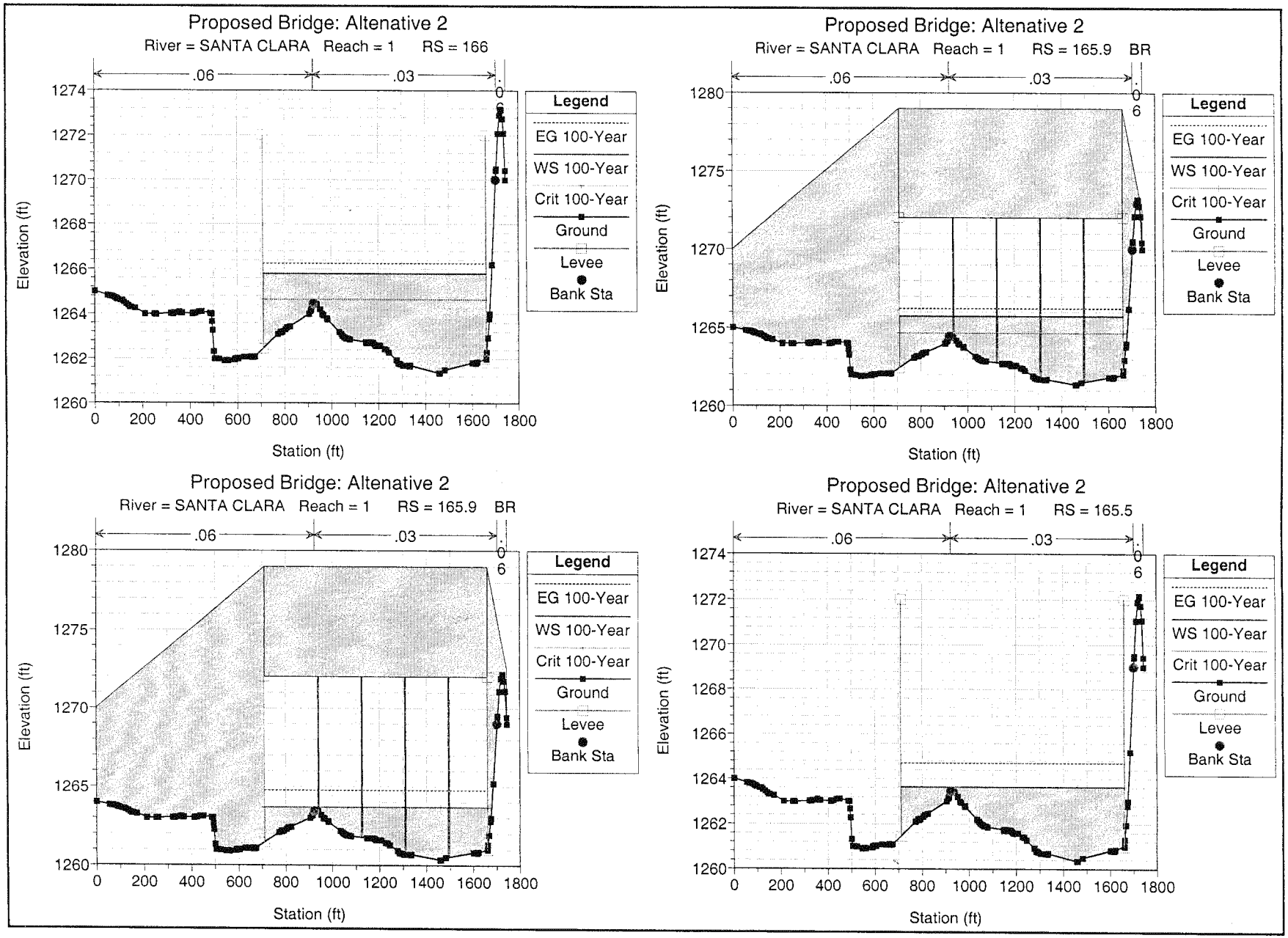
HEC-RAS Plan: Alt 2 River: SANTA CLARA Reach: 1 Profile: 100-Year

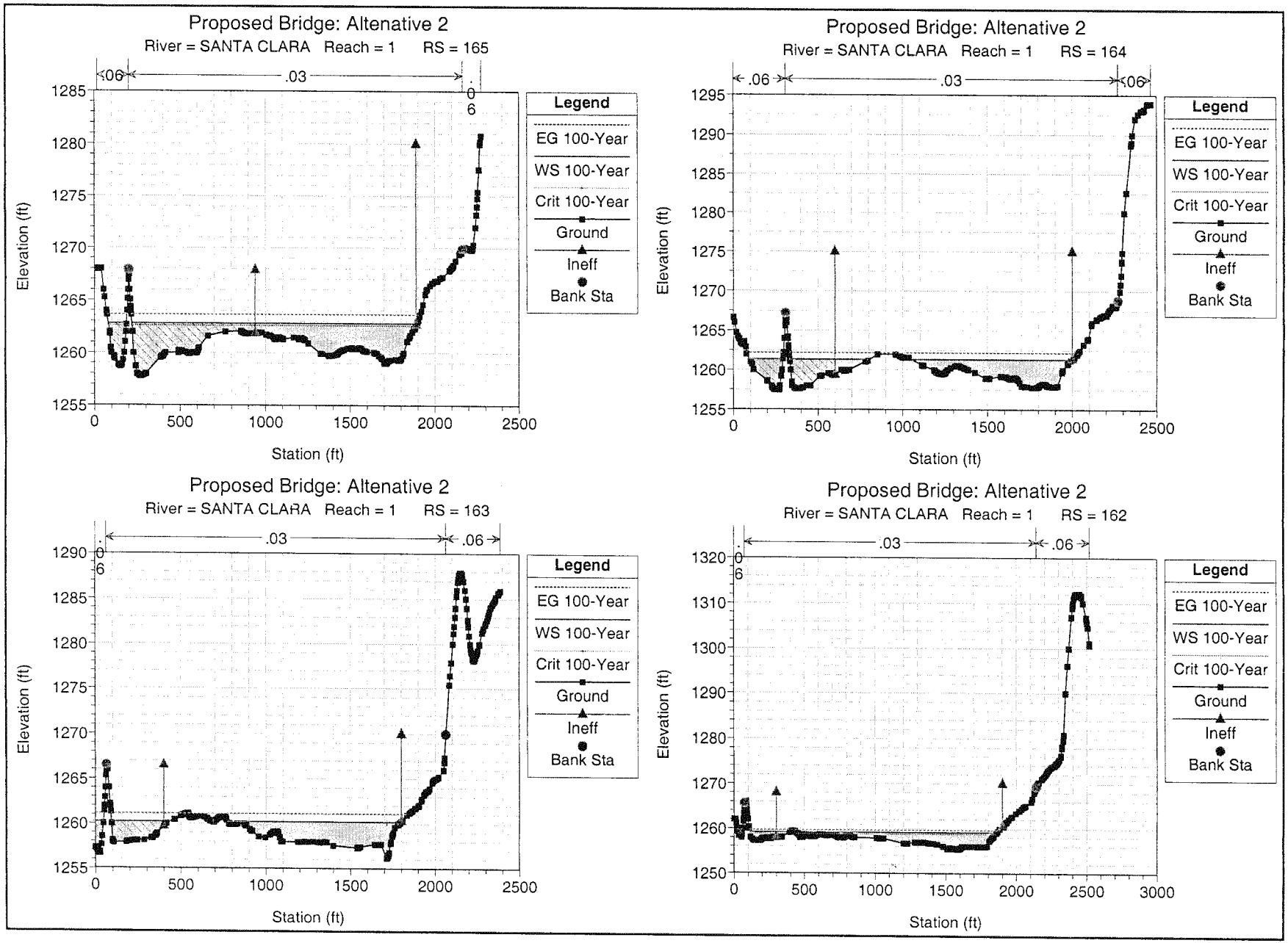
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	174	100-Year	15272.00	1275.00	1282.84	1282.84	1284.78	0.005994	11.47	1583.56	1375.84	0.89
1	173	100-Year	15272.00	1269.00	1277.00	1274.52	1277.51	0.001339	5.89	2832.70	2356.12	0.43
1	172	100-Year	15272.00	1268.71	1273.81	1273.81	1276.19	0.007741	12.37	1234.26	2026.21	1.00
1	171	100-Year	15272.00	1268.00	1271.40	1271.40	1272.89	0.009201	9.82	1554.86	1955.56	1.00
1	170	100-Year	15272.00	1266.00	1269.43	1269.06	1270.36	0.006222	8.10	2165.47	1964.59	0.83
1	169	100-Year	15272.00	1264.90	1268.23	1268.23	1269.38	0.011939	9.04	1840.95	1677.51	1.08
1	168	100-Year	15272.00	1263.60	1267.11	1266.54	1267.91	0.006062	7.85	2352.10	1892.32	0.81
1	167	100-Year	15272.00	1262.08	1266.35	1265.64	1266.96	0.004841	6.91	2693.50	1596.16	0.72
1	166	100-Year	15272.00	1261.35	1265.79	1264.65	1266.24	0.002362	5.51	3083.87	950.00	0.52
1	165.9		Bridge									
1	165.5	100-Year	15272.00	1260.35	1263.63	1263.63	1264.70	0.009648	8.50	1974.99	950.00	0.98
1	165	100-Year	15272.00	1257.79	1262.80	1262.57	1263.62	0.007356	7.23	2111.25	1783.03	0.86
1	164	100-Year	15272.00	1257.58	1261.37	1261.29	1262.19	0.009571	7.25	2107.25	1620.23	0.94
1	163	100-Year	15272.00	1256.19	1260.20	1260.18	1261.11	0.010378	7.66	1992.65	1417.47	0.99
1	162	100-Year	15272.00	1255.40	1259.20	1258.80	1259.66	0.005300	5.43	2811.70	1739.32	0.70
1	161	100-Year	15272.00	1253.90	1257.47	1257.47	1258.29	0.011044	7.31	2089.04	1342.80	1.00
1	160	100-Year	15272.00	1251.90	1255.21	1255.18	1255.99	0.010541	7.07	2160.59	1318.22	0.97
1	159	100-Year	15272.00	1250.87	1253.91	1253.54	1254.40	0.005731	5.64	2708.68	1468.79	0.73
1	158	100-Year	15272.00	1248.56	1251.74	1251.74	1252.49	0.011546	6.93	2202.78	1481.18	1.00
1	157	100-Year	15272.00	1246.18	1249.75	1249.75	1250.51	0.011444	7.00	2181.92	1436.14	1.00
1	156	100-Year	15272.00	1244.10	1247.57	1247.57	1248.37	0.011403	7.15	2134.93	1356.49	1.00
1	155	100-Year	15272.00	1240.90	1244.61	1244.61	1245.56	0.010751	7.84	1949.01	1033.46	1.01

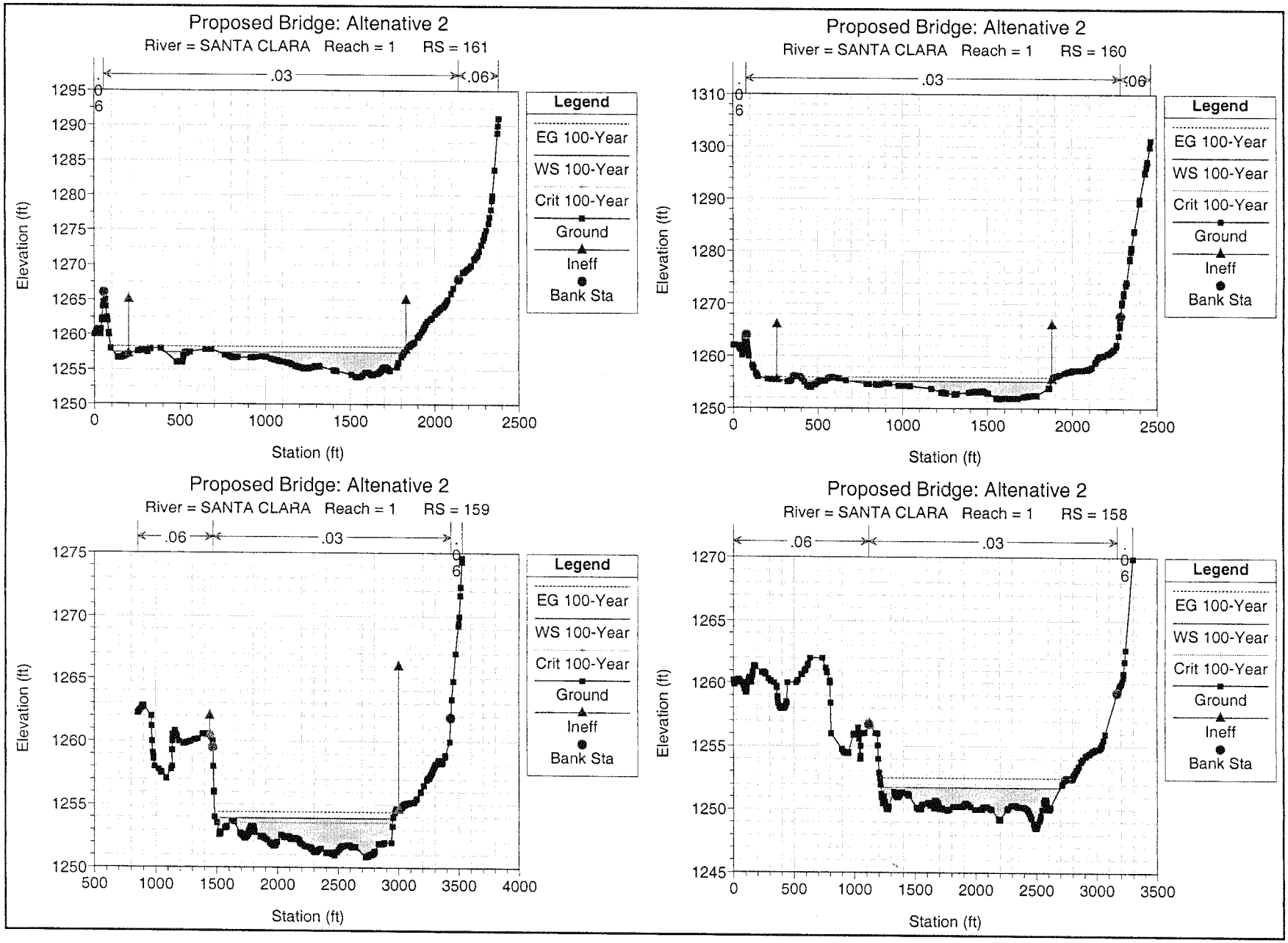

Proposed Bridge: Altenative 2
SANTA CLARA 1
Elevation (ft)
1290
1280
1270
1260
1250
1240
0
1000
2000
3000
4000
5000
Main Channel Distance (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Left Levee
Right Levee

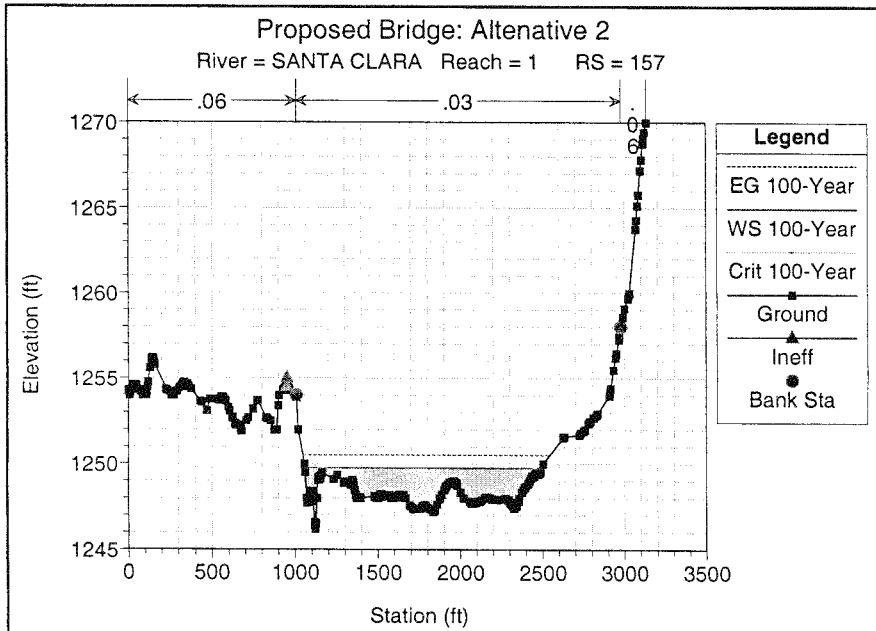

Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 174
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 173
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 172
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 171
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta

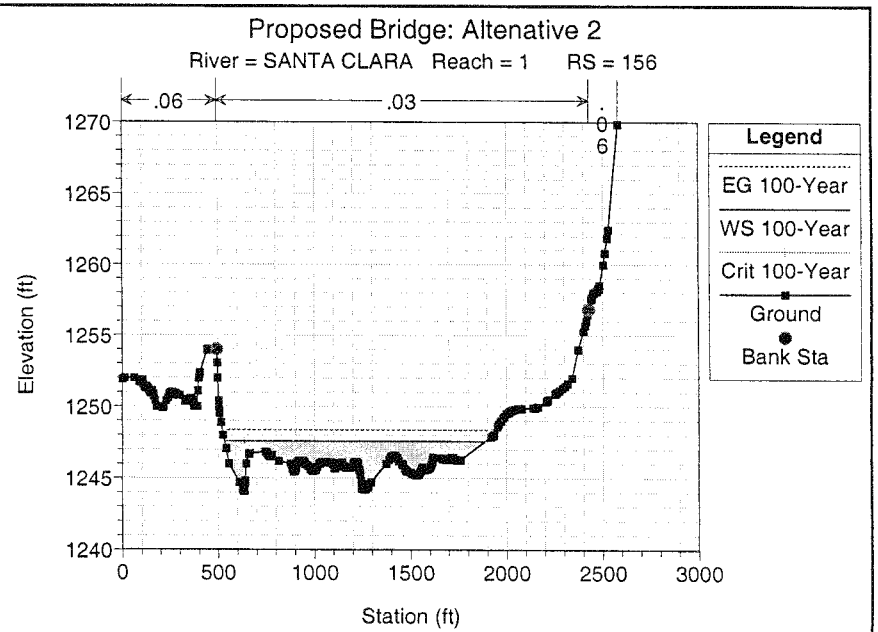

Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 170
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 169
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 168
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 167
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta

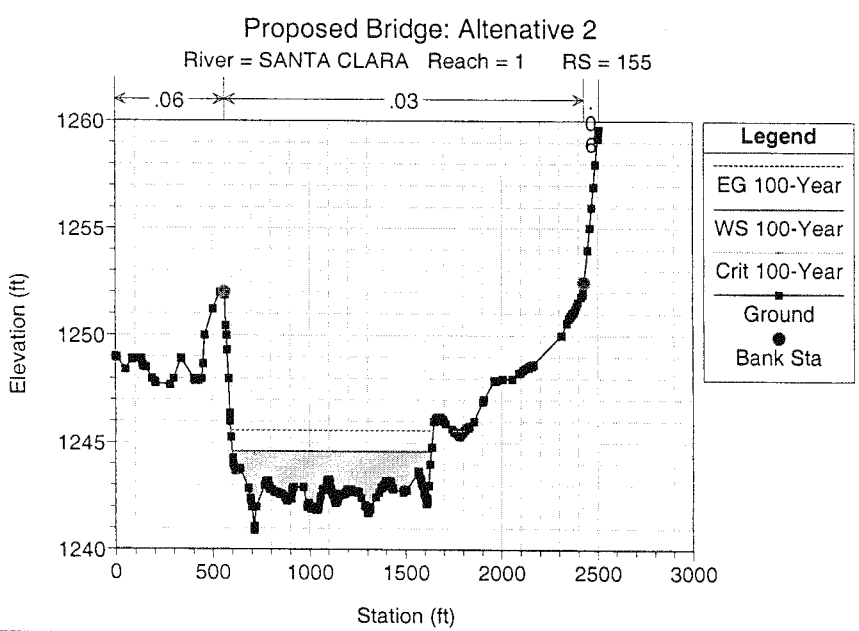

Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 166
.06
.03
.06
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)
Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 165.9 BR
.06
.03
.06
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)
Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 165.9 BR
.06
.03
.06
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)
Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 165.5
.06
.03
.06
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Levee
Bank Sta
Elevation (ft)
Station (ft)


Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 165
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 164
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 163
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 162
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta


Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 161
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 160
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 159
.06
.03
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta
Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 158
.06
.03
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta


Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 157
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Ineff
Bank Sta


Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 156
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Bank Sta


Proposed Bridge: Altenative 2
River = SANTA CLARA Reach = 1 RS = 155
.06
.03
.06
Elevation (ft)
Station (ft)
Legend
EG 100-Year
WS 100-Year
Crit 100-Year
Ground
Bank Sta

Alernative 2.rep

HEC-RAS Version 3.1.2 April 2004
U.S. Army Corp of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

```
X     X  XXXXXX    XXXX        XXXX       XX      XXXX
X     X  X        X    X       X   X     X  X    X
X     X  X        X            X   X    X    X   X
XXXXXXX  XXXX     X       XXX  XXXX     XXXXXX    XXXX
X     X  X        X            X  X     X    X        X
X     X  X        X    X       X   X    X    X        X
X     X  XXXXXX    XXXX        X    X   X    X   XXXXX
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PROJECT DATA
Project Title: Proposed Bridge: Altenative 2
Project File : Alernative 2.prj
Run Date and Time: 4/1/2005 8:13:55 AM

Project in English units

Project Description:
Cross sections cut in LDD and imported 04-30-04

PLAN DATA

Plan Title: River Profile
Plan File : p:\1418_CVC\410_Drainage_Studies\Location Hydraulic Study\HEC-RAS 3_11_05\Alernative 2.p03

Geometry Title: Exist Project (banks=0.6, chnl=0.3)
Geometry File : p:\1418_CVC\410_Drainage_Studies\Location Hydraulic Study\HEC-RAS 3_11_05\Alernative 2.g07

Flow Title : Steady Flow
Flow File : p:\1418_CVC\410_Drainage_Studies\Location Hydraulic Study\HEC-RAS 3_11_05\Alernative 2.f01

Plan Summary Information:

Number of:	Cross Sections =	21	Multiple Openings =	0
	Culverts =	0	Inline Structures =	0
	Bridges =	1	Lateral Structures =	0

Computational Information

Water surface calculation tolerance	=	0.01
Critical depth calculation tolerance	=	0.01
Maximum number of iterations	=	20
Maximum difference tolerance	=	0.3
Flow tolerance factor	=	0.001

Computation Options
Critical depth computed only where necessary
Conveyance Calculation Method: At breaks in n values only
Friction Slope Method: Average Conveyance
Computational Flow Regime: Subcritical Flow

RIVER: SANTA CLARA
REACH: 1 RS: 173

INPUT
Description:
Station Elevation Data num= 8

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1279	667.6	1273	1833	1270	2166	1273	2366	1269
2565	1273	2666	1303	3000	1353				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	2166	.03	2666	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
2166	2666	379	426.95	469	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	2073	1290	F

CROSS SECTION

RIVER: SANTA CLARA
REACH: 1 RS: 172

INPUT
Description:
Station Elevation Data num= 337

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1272.61	12.11	1272.54	45.45	1272.26	51.09	1272.22	51.69	1272.21
71.31	1272.01	72.31	1272.02	74.24	1272	75.77	1271.98	76.93	1271.97
77.52	1272.01	78.27	1271.96	79.13	1271.96	80.47	1271.95	81.69	1271.95
83.13	1271.91	86.32	1271.95	90.96	1271.95	92.99	1271.91	97.02	1271.95
103.98	1271.95	105.31	1271.91	106.6	1271.95	184.31	1270.79	184.7	1270.8
187.78	1270.71	192.84	1270.71	198.32	1271.51	198.87	1271.44	221.81	1270.85
244.92	1271.01	276.73	1271.78	305.39	1271.12	315.78	1271.12	321.04	1271.11
382.73	1271.62	405.91	1271.88	406.26	1271.87	406.45	1271.86	406.62	1271.81
406.73	1271.85	407.35	1271.85	407.57	1271.81	407.82	1271.87	408.13	1271.88
408.44	1271.88	408.51	1271.87	411.55	1271.91	411.84	1271.86	413.57	1271.87
414.18	1271.88	416.74	1271.89	417.95	1271.91	418.72	1271.89	419.41	1271.89
562.71	1271.34	563.53	1271.31	580.77	1271.68	597.72	1271.33	605.62	1271.33
612.41	1271.31	673.01	1271.69	687.46	1271.68	719.86	1272.11	723.17	1272.11
729.84	1272.09	731.51	1272.08	732.49	1272.11	733.04	1272.08	735.37	1272.09
736.57	1272.09	763.01	1271.38	764.04	1271.41	765.48	1271.36	766.77	1271.35
767.73	1271.32	768.09	1271.3	769.49	1271.31	769.96	1271.26	770.46	1271.27
772.31	1271.31	773.91	1271.31	775.09	1271.38	776.44	1271.4	777.35	1271.41
778.17	1271.41	815.76	1271.21	819.66	1271.23	823.12	1271.23	826.45	1271.26
829.27	1271.31	830.69	1271.3	834.59	1271.3	844.98	1271.28	855.3	1271.21
861.06	1271.23	985.31	1270.83	1033.41	1270.75	1036.93	1270.71	1038.31	1270.72
1038.9	1270.71	1040.28	1270.71	1048.88	1270.49	1049.62	1270.49	1051.24	1270.5
1053.87	1270.43	1054.99	1270.41	1066.75	1269.91	1075.43	1269.83	1079.75	1269.8
1085.08	1269.81	1088.2	1269.76	1106.54	1269.77	1111.89	1269.81	1119.51	1269.76
1121.84	1269.76	1128.71	1269.71	1130.42	1269.74	1144.12	1269.73	1201.06	1269.85
1210.98	1269.85	1221.03	1269.81	1228.01	1269.83	1231.57	1269.82	1244.21	1269.83
1248.82	1269.81	1384.56	1269.69	1389.2	1269.71	1400.26	1269.67	1463.25	1269.59
1507.87	1269.46	1510.58	1269.48	1528.04	1269.48	1530.48	1269.51	1547.74	1269.49
1549.99	1269.5	1556.74	1269.49	1558.96	1269.48	1565.8	1269.51	1605.66	1269.1
1627.2	1269.1	1631.35	1269.11	1635.69	1269.08	1644.53	1269.08	1651.58	1269.06
1660.05	1269.01	1668.44	1269.02	1705.19	1269.32	1708.68	1269.37	1716.17	1269.3
1723.82	1269.21	1726.01	1269.28	1731.42	1269.26	1738.13	1269.34	1742.11	1269.36
1745.14	1269.41	1760.2	1269.49	1768.77	1269.57	1773.53	1269.59	1776.6	1269.61

244.92	1270.3	276.73	1271.07	305.39	1270.41	315.78	1270.41	321.04	1270.4
382.73	1270.91	405.91	1271.17	406.26	1271.16	406.45	1271.15	406.62	1271.1
406.73	1271.14	407.35	1271.14	407.57	1271.1	407.82	1271.16	408.13	1271.17
408.44	1271.17	408.51	1271.16	411.55	1271.2	411.84	1271.15	413.57	1271.16
414.18	1271.17	416.74	1271.18	417.95	1271.2	418.72	1271.18	419.41	1271.18
562.71	1270.63	563.53	1270.6	580.77	1270.97	597.72	1270.62	605.62	1270.62
612.41	1270.6	673.01	1270.98	687.46	1270.97	719.86	1271.4	723.17	1271.4
729.84	1271.38	731.51	1271.37	732.49	1271.4	733.04	1271.37	735.37	1271.38
736.57	1271.38	763.01	1270.67	764.04	1270.7	765.48	1270.65	766.77	1270.64
767.73	1270.61	768.09	1270.59	769.49	1270.6	769.96	1270.55	770.46	1270.56
772.31	1270.6	773.91	1270.6	775.09	1270.67	776.44	1270.69	777.35	1270.7
778.17	1270.7	815.76	1270.5	819.66	1270.52	823.12	1270.52	826.45	1270.55
829.27	1270.6	830.69	1270.59	834.59	1270.59	844.98	1270.57	855.3	1270.5
861.06	1270.52	985.31	1270.12	1033.41	1270.04	1036.93	1270	1038.31	1270.01
1038.9	1270	1040.28	1270	1048.88	1269.78	1049.62	1269.78	1051.24	1269.79
1053.87	1269.72	1054.99	1269.7	1066.75	1269.2	1075.43	1269.12	1079.75	1269.09
1085.08	1269.1	1088.2	1269.05	1106.54	1269.06	1111.89	1269.1	1119.51	1269.05
1121.84	1269.05	1128.71	1269	1130.42	1269.03	1144.12	1269.02	1201.06	1269.14
1210.98	1269.14	1221.03	1269.1	1228.01	1269.12	1231.57	1269.11	1244.21	1269.12
1248.82	1269.1	1384.56	1268.98	1389.2	1269	1400.26	1268.96	1463.25	1268.88
1507.87	1268.75	1510.58	1268.77	1528.04	1268.77	1530.48	1268.8	1547.74	1268.78
1549.99	1268.79	1556.74	1268.78	1558.96	1268.77	1565.8	1268.8	1605.66	1268.39
1627.2	1268.39	1631.35	1268.4	1635.69	1268.37	1644.53	1268.37	1651.58	1268.35
1660.05	1268.3	1668.44	1268.31	1705.19	1268.61	1708.68	1268.66	1716.17	1268.59
1723.82	1268.5	1726.01	1268.57	1731.42	1268.55	1738.13	1268.63	1742.11	1268.65
1745.14	1268.7	1760.2	1268.78	1768.77	1268.86	1773.53	1268.88	1776.6	1268.9
1782.06	1268.78	1786.76	1268.64	1791.31	1268.45	1798.18	1268.1	1799.96	1268
1817.13	1268.07	1822.1	1268.1	1825.91	1268.09	1834.02	1268.1	1837.17	1268.11
1840.39	1268.11	1843.6	1268.1	1847.05	1268.11	1868.17	1268.09	1874.96	1268.1
1879.76	1268.08	1883.99	1268.08	1894.55	1268.1	1920.09	1268.09	1925.31	1268.1
1930.52	1268.08	1964.01	1268.04	1974.58	1268	1986.36	1268.01	1990.6	1268
1993.29	1268.1	2003.25	1268.41	2007.82	1268.6	2018.27	1270	2023.31	1271.57
2024.56	1272	2035.71	1279.46	2041.62	1282	2050.88	1284.8	2058.67	1287.22
2065.74	1289.39	2073.15	1292	2086.82	1301.7	2087.26	1302	2087.57	1302.14
2089.08	1302.78	2117.25	1315.4	2119.26	1316	2129.39	1317.86	2130.34	1318
2137.37	1318.19	2146.22	1318.4	2150.99	1318.48	2154.42	1318.53	2157.12	1318.55
2160.24	1318.54	2165.76	1318.5	2170.51	1318.43	2176.68	1318.32	2183.46	1318.15
2188.68	1318	2197.15	1316.2	2199.03	1316	2210.78	1314.49	2215.37	1314.41
2223.38	1314.41	2225.72	1314.5	2228	1314.38	2229.25	1314.34	2229.92	1314.36
2231.08	1314.4	2232.04	1314.47	2235.22	1314.72	2236.83	1314.81	2250.22	1316
2250.48	1316	2256.99	1316.22	2312.88	1318	2313.65	1318.09	2332.33	1320
2343.19	1320.2	2349.84	1320.36	2353.84	1320.43	2357.22	1320.48	2360.51	1320.51
2364.91	1320.6	2366.72	1320.57	2368.23	1320.57	2371.42	1320.56	2374.85	1320.54
2376.19	1320.5	2378.03	1320.54	2401.57	1321.57	2415.39	1321.74	2425.33	1321.9
2432.5	1322	2489.41	1324	2493.59	1324.6	2506.06	1326	2507.76	1326.18
2523.6	1328	2524.91	1328.2	2535.54	1330	2535.91	1330.2	2537.46	1330.83
2539.95	1332	2546.65	1333.99	2569.74	1340.5	2574.93	1342	2621.29	1343.59
2632.12	1343.9	2633.17	1343.96	2633.46	1343.97	2634.8	1344	2657	1345.52
2661.59	1346	2664.8	1346.24	2670.55	1346.64	2678.86	1347.09	2680.57	1347.2
2682.03	1347.17	2686.39	1347.07	2688.7	1347.21	2693.3	1347.08	2697.41	1347.3
2700.29	1347.22	2705.63	1347.46	2707.89	1347.38	2711.94	1347.42	2715.31	1347.2
2720.71	1346.83	2722.91	1346.6	2728.32	1346	2733.3	1345.15	2736.68	1344.3
2742.76	1342	2743.48	1341.57	2744.32	1341.14	2752.01	1336.86	2760.09	1334
2762.42	1332.94	2765.09	1332	2783.43	1329	2787.89	1328.4	2790.49	1328
2801.46	1325.81	2810.95	1324.38	2822.91	1322.92	2827.01	1322	2827.49	1321.88
2829.48	1321.09	2830.85	1321.03	2832.63	1320.88	2835.24	1320.5	2837.61	1320.04
2839.38	1319.46	2841.1	1319.15	2842.62	1318.95	2843.83	1318.8	2845.38	1318.78
2847.7	1318.73	2851.95	1318	2854.59	1317.78	2855.03	1317.8	2855.85	1317.75
2856.47	1317.73	2857.19	1317.68	2860.3	1317.4	2866.48	1316.9	2867.78	1316.83
2870.18	1316.74	2872.36	1316.71	2875.07	1316.38	2877.01	1316.4	2879.46	1316.08
2880.93	1316	2890.96	1315.66	2894.69	1315.22	2901.22	1314.7	2902.95	1314.51
2904.4	1314	2924.98	1314						

2188.68	1316	2197.15	1314.2	2199.03	1314	2210.78	1312.49	2215.37	1312.41
2223.38	1312.41	2225.72	1312.5	2228	1312.38	2229.25	1312.34	2229.92	1312.36
2231.08	1312.4	2232.04	1312.47	2235.22	1312.72	2236.83	1312.81	2250.22	1314
2250.48	1314	2256.99	1314.22	2312.88	1316	2313.65	1316.09	2332.33	1318
2343.19	1318.2	2349.84	1318.36	2353.84	1318.43	2357.22	1318.48	2360.51	1318.51
2364.91	1318.6	2366.72	1318.57	2368.23	1318.57	2371.42	1318.56	2374.85	1318.54
2376.19	1318.5	2378.03	1318.54	2401.57	1319.57	2415.39	1319.74	2425.33	1319.9
2432.5	1320	2489.41	1322	2493.59	1322.6	2506.06	1324	2507.76	1324.18
2523.6	1326	2524.91	1326.2	2535.54	1328	2535.91	1328.2	2537.46	1328.83
2539.95	1330	2546.65	1331.99	2569.74	1338.5	2574.93	1340	2621.29	1341.59
2632.12	1341.9	2633.17	1341.96	2633.46	1341.97	2634.8	1342	2657	1343.52
2661.59	1344	2664.8	1344.24	2670.55	1344.64	2678.86	1345.09	2680.57	1345.2
2682.03	1345.17	2686.39	1345.07	2688.7	1345.21	2693.3	1345.08	2697.41	1345.3
2700.29	1345.22	2705.63	1345.46	2707.89	1345.38	2711.94	1345.42	2715.31	1345.2
2720.71	1344.83	2722.91	1344.6	2728.32	1344	2733.3	1343.15	2736.68	1342.3
2742.76	1340	2743.48	1339.57	2744.32	1339.14	2752.01	1334.86	2760.09	1332
2762.42	1330.94	2765.09	1330	2783.43	1327	2787.89	1326.4	2790.49	1326
2801.46	1323.81	2810.95	1322.38	2822.91	1320.92	2827.01	1320	2827.49	1319.88
2829.48	1319.09	2830.85	1319.03	2832.63	1318.88	2835.24	1318.5	2837.61	1318.04
2839.38	1317.46	2841.1	1317.15	2842.62	1316.95	2843.83	1316.8	2845.38	1316.78
2847.7	1316.73	2851.95	1316	2854.59	1315.78	2855.03	1315.8	2855.85	1315.75
2856.47	1315.73	2857.19	1315.68	2860.3	1315.4	2866.48	1314.9	2867.78	1314.83
2870.18	1314.74	2872.36	1314.71	2875.07	1314.38	2877.01	1314.4	2879.46	1314.08
2880.93	1314	2890.96	1313.66	2894.69	1313.22	2901.22	1312.7	2902.95	1312.51
2904.4	1312	2924.98	1312						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	1463.25	.03	2035.71	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1463.25	2035.71	120	111.98	122.02	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	1260	1280	F

CROSS SECTION

RIVER: SANTA CLARA
REACH: 1 RS: 169

INPUT
Description:
Station Elevation Data num= 359

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1270.4	6.06	1270.37	6.85	1270.38	7.49	1270.39	8.71	1270.42
9.41	1270.4	10.28	1270.43	13.06	1270.43	13.96	1270.4	18.18	1270.36
18.78	1270.35	19.84	1270.36	20.25	1270.4	20.73	1270.37	21.14	1270.4
21.99	1270.43	22.56	1270.44	23.39	1270.4	24.85	1270.43	25.84	1270.42
27.89	1270.38	30.27	1270.35	32.93	1270.3	36.13	1270.26	39.84	1270.2
43.42	1270.15	46.05	1270.12	50.51	1270.1	53.54	1270.04	57.84	1269.98
68.87	1269.61	68.95	1269.33	69.99	1269.3	71.86	1269.22	73.05	1269.21
74.01	1269.2	78.7	1269.06	78.95	1269.1	80.79	1269	97.39	1268.91
99.54	1268.89	102.14	1268.9	103.91	1268.86	117.36	1268.81	122.87	1268.8
126.47	1268.8	132.9	1268.78	168.88	1268.77	183.99	1268.8	191.24	1268.78
195.21	1268.78	198.91	1268.77	203.35	1268.77	245.39	1268.4	278.83	1268.37
287.86	1268.4	290.26	1268.38	295.46	1268.41	296.71	1268.41	300.67	1268.42
303.42	1268.4	308.16	1268.43	313.72	1268.41	320.28	1268.41	323.13	1268.4
362.87	1268.15	367.74	1268.15	372.52	1268.14	380.28	1268.14	394.33	1268.2
399.31	1268.19	401.14	1268.19	406.48	1268.17	411.36	1268.17	416.22	1268.2
459.53	1268.2	466.82	1268.19	468.45	1268.18	473.32	1268.18	477.05	1268.2
484.58	1268.11	486.23	1268.07	491.65	1267.9	495.51	1267.93	497.89	1267.89

Sta L	Sta R	Elev	Permanent
0	1250	1281	F

CROSS SECTION

RIVER: SANTA CLARA
REACH: 1 RS: 168

INPUT
Description:
Station Elevation Data num= 336

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1268	48.14	1267.63	52.54	1267.59	56.06	1267.6	81.29	1267.28
81.4	1267.28	83.16	1267.25	83.86	1267.25	85.07	1267.2	86.93	1267.22
88.83	1267.21	91.01	1267.19	92.2	1267.19	95.16	1267.2	97.21	1267.16
99.01	1267.15	107.33	1267.08	110.37	1267.1	185.52	1266.41	187.62	1266.4
189.71	1266.4	192.8	1266.39	195.21	1266.4	197.77	1266.38	198.44	1266.39
199.9	1266.4	203.33	1266.38	204.4	1266.4	212.14	1266.36	213.36	1266.36
229.32	1266.31	230.77	1266.3	239.05	1266.28	257.35	1266.15	266.21	1266.13
269.66	1266.13	273.3	1266.1	276.76	1266.15	279.7	1266.16	291.08	1266.23
293.31	1266.2	296.85	1266.24	299.41	1266.25	312.18	1266.25	314.62	1266.3
318.48	1266.25	320.88	1266.24	322.99	1266.24	326.76	1266.21	337.58	1266.2
354.43	1266.06	363.32	1266	377.49	1265.84	407.05	1265.56	410.18	1265.54
422.01	1265.5	424.6	1265.5	431.95	1265.36	433.39	1265.34	435.05	1265.3
436.76	1265.31	444.99	1265.28	445.94	1265.28	448.43	1265.3	450.23	1265.31
452.32	1265.31	456.35	1265.29	596.89	1265.06	598.93	1265.06	600.03	1265.05
601.14	1265.05	602.48	1265.1	603.84	1265.05	606.53	1265.05	609.24	1265.04
610.08	1265	611.36	1265.03	612.74	1265.02	614.17	1265.02	619.06	1265
620.76	1264.99	621.81	1264.99	623.86	1264.97	626.14	1264.96	627.75	1264.9
629.03	1264.94	631.26	1264.95	632.65	1264.94	634.58	1264.94	640.95	1264.9
735.21	1264.57	736.35	1264.57	740.29	1264.56	741.43	1264.56	744	1264.5
745.01	1264.55	746.09	1264.55	754.97	1264.6	756.01	1264.58	786.4	1264.21
800.14	1264.21	804.92	1264.2	810.06	1264.21	815.42	1264.2	825.55	1264.2
827.67	1264.22	833.21	1264.25	835.45	1264.25	840.9	1264.3	844.81	1264.27
846.53	1264.28	851.72	1264.28	853.57	1264.3	856.51	1264.29	862.07	1264.28
865.34	1264.29	871.16	1264.28	875.5	1264.3	880.16	1264.28	986.56	1264.91
988.82	1264.91	991.12	1264.92	998.4	1265	1001.67	1264.97	1004.84	1264.98
1013.59	1264.98	1023.05	1265	1026.8	1264.95	1043.79	1264.89	1049.47	1264.86
1052.5	1264.8	1058.42	1264.79	1065.21	1264.72	1073.87	1264.61	1079.9	1264.5
1087.1	1264	1138.63	1264	1141.24	1263.95	1187.88	1263.16	1192.16	1263.1
1194.04	1263.04	1195.65	1263	1196.07	1262.98	1199.12	1262.9	1200.15	1262.89
1201.1	1262.89	1202.3	1262.88	1202.75	1262.88	1203.03	1262.9	1203.59	1262.87
1203.98	1262.86	1204.28	1262.85	1204.49	1262.85	1204.67	1262.8	1204.87	1262.84
1205.92	1262.84	1206.08	1262.8	1206.23	1262.84	1206.57	1262.84	1206.81	1262.85
1206.93	1262.8	1207.04	1262.85	1207.32	1262.87	1207.39	1262.87	1207.46	1262.88
1207.72	1262.9	1207.95	1262.9	1208.37	1262.91	1208.86	1262.92	1209.29	1262.93
1210.58	1262.9	1211.38	1262.94	1212.05	1262.95	1212.44	1262.94	1213.08	1262.94
1213.67	1262.9	1214.81	1262.93	1215.72	1262.93	1227.41	1262.95	1231.67	1263
1234.04	1262.98	1236.35	1262.99	1242.79	1263.03	1246.18	1263.1	1248.99	1263.07
1338.04	1263.8	1367.84	1264	1377.91	1264.12	1411.46	1264.39	1417.07	1264.45
1483.92	1265.67	1551.21	1264.7	1555.57	1264.65	1569.04	1264.63	1574.41	1264.63
1579.8	1264.6	1584.78	1264.61	1592.96	1264.56	1599.14	1264.51	1605.34	1264.5
1614.82	1264.37	1634.98	1264.18	1645.04	1264.11	1652.2	1264.1	1656.4	1264.05
1659.93	1264.02	1671.88	1264.03	1680.08	1264	1688.17	1264.05	1701.5	1264.04
1716.32	1264	1718.7	1263.99	1749.34	1263.9	1824.55	1263.8	1830.9	1263.8
1837.95	1263.76	1854.36	1263.7	1857.58	1263.7	1860.32	1263.68	1864.56	1263.66
1866.33	1263.66	1868.67	1263.7	1871.34	1263.65	1875.45	1263.64	1880.61	1263.64
1881.85	1263.6	1882.76	1263.63	1884.03	1263.62	1885.16	1263.62	1886.04	1263.61
1886.6	1263.6	1887.68	1263.61	1890.4	1263.61	1891.96	1263.6	1893.28	1263.62
1895.47	1263.62	1896.69	1263.6	1897.4	1263.63	1898.42	1263.63	1899.55	1263.64
1906.02	1263.67	1908.59	1263.7	1913.13	1263.7	1916.04	1263.72	1919.29	1263.73
1978.82	1264	2012.45	1270	2015.94	1270.9	2018.48	1271.56	2041.38	1277.47

1246.74	1263.67	1251.93	1263.7	1332.48	1263.48	1425.05	1262.69	1425.96	1262.69
1427	1262.7	1430.63	1262.69	1433.57	1262.69	1441.7	1262.66	1447.43	1262.6
1456.04	1262.56	1471.85	1262.45	1504.52	1262.53	1522.18	1262.3	1523.64	1262.35
1525.32	1262.38	1533.97	1262.28	1536.27	1262.33	1545.93	1262.1	1548.4	1262.23
1552.93	1262.12	1557.17	1262.08	1557.47	1262.1	1562.16	1262.1	1566.9	1262.18
1573.34	1262.62	1580.16	1262.82	1585.3	1262.96	1586.38	1263	1592.92	1264
1601.08	1269.9	1601.23	1270	1601.46	1270.22	1611.23	1280	1619.76	1282.9
1627.12	1285.1	1633.65	1287.2	1642.48	1290	1650.96	1292.1	1656.65	1293.4
1663.8	1295.07	1672.81	1297.29	1683.27	1300	1689.43	1301	1695.88	1301.55
1713.64	1303.74	1718.71	1304.33	1734.5	1305.97	1737.32	1306.2	1739.99	1306.47
1743.38	1306.7	1745.5	1306.8	1746.82	1306.82	1748.16	1306.8	1749.46	1306.75
1751.25	1306.62	1757.72	1306.03	1759.76	1306.07	1768.61	1305.2	1771.49	1305.2
1776.43	1305	1787.23	1303.92	1789.68	1303.76	1797.27	1303.1	1799.33	1302.94
1805.08	1302.6	1807.93	1302.28	1810.7	1302.27	1812.92	1302	1814.21	1301.79
1816.85	1302.03	1817.52	1302.18	1874.6	1301.84	1892.99	1300	1895.83	1296.5
1901.31	1290	1925.51	1280.37	1926.38	1280	1926.5	1279.8	1929.27	1276
1931.54	1275.62	1934.8	1275.16	1934.84	1274.98	1934.85	1274.9	1934.87	1274.85
1936.56	1274.8	1938.11	1274.76	1939.42	1274.76	1940.82	1274.8	1942.16	1274.8
1943.5	1274.84	1946.32	1274.95	1948.12	1275	1950.25	1275	1951.24	1275.04
1954.24	1274.99	1955.85	1274.99	1957.9	1275.02	1960.42	1275.1	1965.05	1275.22
1971.03	1275.42	1975.51	1275.6	1983.03	1276	1985.78	1276.9	1985.81	1276.91

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	996.21	.03	1611.23	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
996.21	1611.23	59.01	231	386.01	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	660	1278	F

CROSS SECTION

RIVER: SANTA CLARA
REACH: 1 RS: 166

INPUT
Description:
Station Elevation Data num= 153

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1265	54.79	1264.82	64.69	1264.79	67.97	1264.8	71.36	1264.78
78.35	1264.76	85.72	1264.72	88.08	1264.7	91.75	1264.68	95.8	1264.65
109.01	1264.6	115.86	1264.6	121.7	1264.53	132.87	1264.45	141.61	1264.37
148.02	1264.3	153.32	1264.3	169.11	1264.26	210.97	1264	250.46	1263.99
254.76	1264	258.66	1263.98	320.84	1264.02	329.04	1264	332.7	1264.05
347.99	1264.05	354.56	1264.1	367.22	1264.04	411.13	1264	414.71	1264.03
418.87	1264.03	423.13	1264.04	436.86	1264.1	449.32	1264.11	486.14	1264.02
491.41	1264	493.15	1263.66	495.89	1263.27	501.01	1262.32	504.94	1262
510.11	1262	522.53	1261.98	523.62	1261.98	546.15	1261.9	553.64	1261.93
562.44	1261.91	589.35	1261.95	590.11	1261.97	591.55	1262	593.86	1262
598.49	1262.02	604.4	1262.03	604.7	1262	628.36	1262.08	649.24	1262.07
659.71	1262.1	664.67	1262.06	670	1262.07	675.06	1262.09	772.7	1263.09
782.32	1263.2	782.87	1263.16	783.5	1263.16	784.11	1263.17	784.8	1263.17
785.92	1263.2	786.71	1263.18	787.58	1263.18	789.52	1263.2	790.63	1263.2
792.44	1263.22	804.46	1263.31	810.63	1263.4	823.39	1263.44	904.54	1264
912.06	1264.14	914.9	1264.2	919.43	1264.36	921.25	1264.4	922.88	1264.43
926.01	1264.44	929.37	1264.4	932.6	1264.44	935.6	1264.42	938.2	1264.39
951.44	1264.2	960.02	1264	960.68	1263.99	965.02	1263.94	980.54	1263.8
982.64	1263.76	1033.14	1263.19	1042.04	1263.1	1046.81	1263.03	1053.7	1262.97
1056.91	1262.95	1062.72	1262.9	1069.07	1262.9	1077.93	1262.86	1146.34	1262.75
1148.8	1262.7	1152.31	1262.74	1156.76	1262.75	1164.14	1262.75	1168.05	1262.7

1284.16	1261.8	1289.61	1261.78	1293.91	1261.75	1304.5	1261.7	1325.54	1261.69
1333.57	1261.67	1334.64	1261.7	1458.45	1261.35	1461.01	1261.35	1482.63	1261.5
1601.16	1261.82	1611.88	1261.83	1616.73	1261.8	1621.72	1261.86	1660.76	1262
1662.48	1262.3	1667.3	1262.95	1673.46	1263.8	1675.01	1264	1684.93	1266.21
1702.08	1270	1703.78	1270.43	1704.06	1270.48	1704.29	1270.51	1712.69	1272.09
1718.53	1272.9	1720.13	1272.91	1724.22	1273.17	1727.04	1273.13	1731.43	1272.74
1736.15	1272.1	1742.18	1270.43	1743.42	1270				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	922.88	.03	1702.08	.06

Bank Sta: Left Right Coeff Contr. Expan.
922.88 1702.08 .3 .5

Left Levee Station= 710 Elevation= 1272
Right Levee Station= 1660 Elevation= 1272

Downstream Deck/Roadway Coordinates
num= 2

Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord
710	1279	1272	1660	1279	1272

Downstream Bridge Cross Section Data
Station Elevation Data num= 153

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1264	54.79	1263.82	64.69	1263.79	67.97	1263.8	71.36	1263.78
78.35	1263.76	85.72	1263.72	88.08	1263.7	91.75	1263.68	95.8	1263.65
109.01	1263.6	115.86	1263.6	121.7	1263.53	132.87	1263.45	141.61	1263.37
148.02	1263.3	153.32	1263.3	169.11	1263.26	210.97	1263	250.46	1262.99
254.76	1263	258.66	1262.98	320.84	1263.02	329.04	1263	332.7	1263.05
347.99	1263.05	354.56	1263.1	367.22	1263.04	411.13	1263	414.71	1263.03
418.87	1263.03	423.13	1263.04	436.86	1263.1	449.32	1263.11	486.14	1263.02
491.41	1263	493.15	1262.66	495.89	1262.27	501.01	1261.32	504.94	1261
510.11	1261	522.53	1260.98	523.62	1260.98	546.15	1260.9	553.64	1260.93
562.44	1260.91	589.35	1260.95	590.11	1260.97	591.55	1261	593.86	1261
598.49	1261.02	604.4	1261.03	604.7	1261	628.36	1261.08	649.24	1261.07
659.71	1261.1	664.67	1261.06	670	1261.07	675.06	1261.09	772.7	1262.09
782.32	1262.2	782.87	1262.16	783.5	1262.16	784.11	1262.17	784.8	1262.17
785.92	1262.2	786.71	1262.18	787.58	1262.18	789.52	1262.2	790.63	1262.2
792.44	1262.22	804.46	1262.31	810.63	1262.4	823.39	1262.44	904.54	1263
912.06	1263.14	914.9	1263.2	919.43	1263.36	921.25	1263.4	922.88	1263.43
926.01	1263.44	929.37	1263.4	932.6	1263.44	935.6	1263.42	938.2	1263.39
951.44	1263.2	960.02	1263	960.68	1262.99	965.02	1262.94	980.54	1262.8
982.64	1262.76	1033.14	1262.19	1042.04	1262.1	1046.81	1262.03	1053.7	1261.97
1056.91	1261.95	1062.72	1261.9	1069.07	1261.9	1077.93	1261.86	1146.34	1261.75
1148.8	1261.7	1152.31	1261.74	1156.76	1261.75	1164.14	1261.75	1168.05	1261.7
1172.97	1261.73	1175.52	1261.72	1177.79	1261.7	1181.54	1261.66	1185.68	1261.6
1191.45	1261.58	1193.7	1261.58	1198.16	1261.6	1202.46	1261.6	1202.76	1261.61
1207.28	1261.59	1226.3	1261.44	1234.27	1261.4	1243.47	1261.28	1276.72	1260.93
1284.16	1260.8	1289.61	1260.78	1293.91	1260.75	1304.5	1260.7	1325.54	1260.69
1333.57	1260.67	1334.64	1260.7	1458.45	1260.35	1461.01	1260.35	1482.63	1260.5
1601.16	1260.82	1611.88	1260.83	1616.73	1260.8	1621.72	1260.86	1660.76	1261
1662.48	1261.3	1667.3	1261.95	1673.46	1262.8	1675.01	1263	1684.93	1265.21
1702.08	1269	1703.78	1269.43	1704.06	1269.48	1704.29	1269.51	1712.69	1271.09
1718.53	1271.9	1720.13	1271.91	1724.22	1272.17	1727.04	1272.13	1731.43	1271.74
1736.15	1271.1	1742.18	1269.43	1743.42	1269				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	922.88	.03	1702.08	.06

Bank Sta: Left Right Coeff Contr. Expan.
922.88 1702.08 .3 .5

```
Downstream      num=        2
    Width    Elev     Width    Elev
       5     1250        5     1275

Pier Data
Pier Station      Upstream=     1680     Downstream=     1680
Upstream      num=        2
    Width    Elev     Width    Elev
       5     1250        5     1275
Downstream      num=        2
    Width    Elev     Width    Elev
       5     1250        5     1275

Pier Data
Pier Station      Upstream=     1865     Downstream=     1865
Upstream      num=        2
    Width    Elev     Width    Elev
       5     1250        5     1275
Downstream      num=        2
    Width    Elev     Width    Elev
       5     1250        5     1275

Number of Bridge Coefficient Sets =  1

Low Flow Methods and Data
       Energy
Selected Low Flow Methods = Highest Energy Answer

High Flow Method
       Energy Only

Additional Bridge Parameters
       Add Friction component to Momentum
       Do not add Weight component to Momentum
       Class B flow critical depth computations use critical depth
           inside the bridge at the upstream end
       Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION


RIVER: SANTA CLARA
REACH: 1                  RS: 165.5

INPUT
Description:
Station Elevation Data     num=      153
     Sta     Elev      Sta     Elev      Sta     Elev      Sta     Elev      Sta     Elev
       0     1264    54.79 1263.82    64.69 1263.79    67.97  1263.8    71.36 1263.78
   78.35 1263.76    85.72 1263.72    88.08  1263.7    91.75 1263.68     95.8 1263.65
  109.01  1263.6   115.86  1263.6    121.7 1263.53   132.87 1263.45   141.61 1263.37
  148.02  1263.3   153.32  1263.3   169.11 1263.26   210.97    1263   250.46 1262.99
  254.76    1263   258.66 1262.98   320.84 1263.02   329.04    1263    332.7 1263.05
  347.99 1263.05   354.56  1263.1   367.22 1263.04   411.13    1263   414.71 1263.03
  418.87 1263.03   423.13 1263.04   436.86  1263.1   449.32 1263.11   486.14 1263.02
  491.41    1263   493.15 1262.66   495.89 1262.27   501.01 1261.32   504.94    1261
  510.11    1261   522.53 1260.98   523.62 1260.98   546.15  1260.9   553.64 1260.93
  562.44 1260.91   589.35 1260.95   590.11 1260.97   591.55    1261   593.86    1261
  598.49 1261.02    604.4 1261.03    604.7    1261   628.36 1261.08   649.24 1261.07
  659.71  1261.1   664.67 1261.06      670 1261.07   675.06 1261.09    772.7 1262.09
  782.32  1262.2   782.87 1262.16    783.5 1262.16   784.11 1262.17    784.8 1262.17
  785.92  1262.2   786.71 1262.18   787.58 1262.18   789.52  1262.2   790.63  1262.2
  792.44 1262.22   804.46 1262.31   810.63  1262.4   823.39 1262.44   904.54    1263
```

967.06	1261.93	977.04	1261.93	1003.21	1261.7	1004.42	1261.72	1020.41	1261.65
1022.34	1261.63	1028.56	1261.59	1030.45	1261.6	1045.45	1261.43	1052.32	1261.34
1057.28	1261.3	1059.1	1261.32	1061.32	1261.36	1065.23	1261.46	1067.8	1261.5
1074.85	1261.5	1077.78	1261.47	1082.47	1261.45	1085.17	1261.4	1092.82	1261.38
1096.24	1261.33	1098.72	1261.33	1103.11	1261.3	1166.04	1261.45	1195.57	1261.29
1197.33	1261.29	1198.09	1261.3	1198.77	1261.3	1200.47	1261.32	1201.03	1261.33
1201.34	1261.3	1201.52	1261.35	1201.63	1261.36	1201.73	1261.37	1201.85	1261.38
1202.04	1261.4	1202.45	1261.39	1203.37	1261.4	1203.82	1261.41	1204.29	1261.41
1205.18	1261.4	1205.97	1261.42	1206.4	1261.43	1206.99	1261.43	1207.18	1261.4
1207.43	1261.43	1208.08	1261.43	1209.03	1261.4	1209.15	1261.42	1210.5	1261.4
1211.12	1261.4	1211.81	1261.39	1212.45	1261.4	1213.32	1261.38	1214.27	1261.36
1215.4	1261.35	1216.09	1261.34	1216.94	1261.3	1217.95	1261.33	1218.99	1261.32
1220.68	1261.31	1221.5	1261.31	1222.41	1261.3	1225.98	1261.27	1227.87	1261.24
1231.92	1261.19	1251.32	1260.9	1324.54	1259.95	1327.16	1259.92	1330.26	1259.9
1333.85	1259.9	1370.45	1259.74	1375.05	1259.7	1380.64	1259.73	1388.2	1259.73
1393.22	1259.74	1401.93	1259.8	1412.94	1259.82	1416.89	1259.84	1420.53	1259.87
1423.05	1259.9	1425.72	1259.9	1427.77	1260	1428.74	1260.01	1435.79	1260.1
1443.2	1260.18	1450.08	1260.2	1455.02	1260.27	1461.14	1260.31	1483.22	1260.4
1489.1	1260.44	1492.15	1260.45	1504.61	1260.45	1508.15	1260.5	1512.47	1260.44
1519.01	1260.41	1522.78	1260.4	1535.26	1260.4	1544.28	1260.42	1550.11	1260.46
1551.93	1260.5	1554.49	1260.47	1556.05	1260.46	1559.23	1260.45	1562.3	1260.42
1565.07	1260.4	1576.09	1260.25	1580.29	1260.21	1584.52	1260.18	1589.25	1260.2
1597.81	1260.13	1639.58	1260.06	1645.85	1260	1651.27	1260	1652.35	1259.96
1656.14	1259.93	1669.27	1259.73	1679.79	1259.6	1686.48	1259.43	1697.75	1259.21
1698.48	1259.19	1700.17	1259.15	1701.21	1259.1	1702.01	1259.09	1702.64	1259.07
1703.34	1259.05	1703.89	1259.05	1704.38	1259	1705.22	1259.04	1706.52	1259.04
1708.68	1259.03	1710.76	1259.03	1713.05	1259	1713.59	1259.03	1715.07	1259.03
1715.84	1259.04	1716.81	1259.1	1718.53	1259.12	1726.33	1259.24	1729.7	1259.28
1735.22	1259.32	1738.02	1259.31	1769.61	1259.4	1774.54	1259.37	1782.53	1259.3
1791.92	1259.3	1795.08	1259.32	1796.97	1259.34	1802.15	1259.46	1810.69	1259.79
1810.83	1259.78	1815.31	1260	1837.17	1261.1	1849.27	1261.46	1853.91	1261.67
1866.59	1262	1876.26	1262.34	1877.1	1262.3	1878.13	1262.33	1878.83	1262.31
1879.41	1262.31	1880.13	1262.34	1883.87	1262.5	1891.89	1262.74	1896.21	1262.95
1901.72	1263.12	1909.05	1263.49	1912.29	1263.6	1921.02	1264	1929.06	1264.62
1942.64	1265.58	1949.65	1266	1952.79	1266.08	1952.85	1266.08	1953.23	1266.09
1968.69	1266.4	1970.46	1266.4	1982.4	1266.65	1987.78	1266.65	1999.09	1266.86
2002.24	1266.8	2005.25	1266.82	2008.46	1266.82	2011.11	1266.83	2016.58	1266.87
2028.27	1267.1	2039.14	1267.17	2045.32	1267.25	2085.25	1267.85	2085.9	1267.9
2087.29	1267.88	2094.27	1268	2097.66	1268.1	2098.84	1268.11	2102.66	1268.2
2104.56	1268.22	2105.23	1268.23	2105.8	1268.23	2108.03	1268.3	2110.44	1268.37
2122.27	1268.76	2143.69	1269.38	2147.49	1269.5	2150.61	1269.56	2152.43	1269.59
2153.38	1269.6	2154.82	1269.59	2155.67	1269.6	2157.11	1269.53	2157.45	1269.52
2164.35	1269.88	2164.55	1269.89	2167.46	1270	2170.89	1270.06	2174.25	1270.08
2179.2	1270.07	2187.19	1270.02	2189.04	1270	2196.34	1269.88	2199.45	1269.87
2207.72	1269.91	2216.43	1269.85	2219.53	1269.8	2221.09	1269.86	2222.71	1269.89
2225.06	1270	2228	1270.31	2240.4	1272	2245.98	1273.22	2250.37	1274
2252.67	1274.8	2254.27	1275.44	2261.16	1277.6	2267.41	1280	2268.98	1280.24
2269.1	1280.26	2273.4	1280.79						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
17.4	.06	199.87	.03	2164.35	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
199.87	2164.35	146	171	76.48	.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
17.4	940	1267.9	F
1890	2273.4	1280	F

CROSS SECTION

2036.78	1262.3	2043.93	1262.49	2065.79	1263.26	2087.92	1263.84	2090.05	1263.91
2093.92	1264	2111.16	1265.75	2114.18	1266	2140.53	1266.37	2142.25	1266.42
2144.18	1266.5	2162.76	1266.68	2165.95	1266.76	2174.38	1266.84	2177.34	1266.9
2186.96	1267.01	2189.11	1267.03	2193.03	1267.03	2195.32	1267.01	2198.68	1267
2199.39	1266.96	2201.19	1266.98	2203.2	1267.03	2209.59	1267.28	2210.44	1267.3
2215.32	1267.51	2218.53	1267.56	2223.6	1267.75	2225.15	1267.77	2235.5	1268.13
2239.28	1268.22	2241.85	1268.25	2242.69	1268.22	2253.14	1268.03	2253.42	1268.03
2253.53	1268	2253.66	1268.03	2253.75	1268.03	2253.8	1268	2253.96	1268.04
2254.03	1268.05	2259.54	1268.12	2263.19	1268.45	2269.78	1268.8	2281.02	1270
2283.61	1270.86	2287.56	1272	2291.8	1273.63	2292.15	1273.8	2294.7	1274.88
2306.89	1280	2319.18	1282.6	2348.34	1288.7	2350.1	1289.01	2354.95	1290
2371.91	1292	2390.21	1292.6	2405.54	1292.97	2407.74	1292.99	2412.64	1292.99
2417.54	1293	2421.35	1293.06	2426.02	1293.19	2426.67	1293.21	2440.68	1293.83
2446.18	1293.9	2455.39	1293.94	2461.35	1293.9	2461.84	1293.88	2463.26	1293.95

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	309.02	.03	2269.78	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
309.02	2269.78	75	107.02	69	.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	600	1275	F
2000	2463.26	1275	F

CROSS SECTION

RIVER: SANTA CLARA
REACH: 1 RS: 163

INPUT
Description:
Station Elevation Data num= 392

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1257.3	3.26	1257.2	9.53	1257.02	12.45	1256.92	13.43	1256.88
14.74	1256.8	15.39	1256.78	16.54	1256.75	17.42	1256.73	18.38	1256.72
18.91	1256.7	20.57	1256.71	21.71	1256.7	23.38	1256.69	25.49	1256.69
26.36	1256.7	27.19	1256.7	27.53	1256.71	27.86	1256.74	28.04	1256.8
28.24	1256.8	34.71	1257.65	39.24	1258.56	45.75	1260	49.93	1261.4
51.96	1262	55.21	1262.91	58.51	1264	61.32	1265.35	62.7	1266
62.86	1266.07	63.46	1266.32	64.09	1266.42	64.64	1266.51	69.44	1266.5
69.88	1266.45	70.37	1266.35	70.49	1266.19	70.64	1266	70.7	1266
78.09	1264	85.81	1262.2	86.48	1262	89.17	1261.3	93.61	1260
99.21	1258.15	99.72	1258	100.2	1257.99	105.46	1257.85	180.4	1257.9
180.69	1257.92	184.31	1258	188.95	1258.01	200.01	1258	210.02	1258.06
212.7	1258.07	215.02	1258.07	218.5	1258.09	223.11	1258.1	227.52	1258.12
229.28	1258.12	229.85	1258.1	230.88	1258.13	232.33	1258.12	232.88	1258.13
233.99	1258.13	234.99	1258.1	235.36	1258.13	236.97	1258.13	237.76	1258.1
238.5	1258.13	241.72	1258.13	242.77	1258.1	243.73	1258.13	284.67	1258.14
325.72	1258.42	326.18	1258.42	327	1258.4	327.33	1258.42	328.95	1258.42
329.34	1258.4	329.59	1258.41	329.88	1258.4	330.28	1258.37	332.07	1258.37
332.25	1258.4	332.5	1258.37	332.78	1258.38	333.07	1258.38	333.89	1258.37
334.56	1258.4	350.18	1258.65	350.99	1258.69	352.18	1258.73	354.42	1258.79
356.33	1258.8	359.98	1258.91	413.75	1260	460.78	1260.4	463.4	1260.44
498.39	1260.83	507.78	1260.9	512.28	1260.99	524.05	1261.09	529.39	1261.1
536.32	1261.15	540.03	1261.15	542.01	1261.1	543.13	1261.13	544.95	1261.03
545.56	1260.95	546.28	1260.85	547.44	1260.8	549.06	1260.7	551.98	1260.65
555.02	1260.62	560	1260.59	564.08	1260.7	572.14	1260.66	574.24	1260.7
580.92	1260.7	583.12	1260.74	590.39	1260.8	597.41	1260.78	599.5	1260.81
605.17	1260.82	612.88	1260.82	614.76	1260.8	622.23	1260.83	635.38	1260.72
637	1260.72	648.83	1260.6	653.35	1260.54	655.48	1260.52	659.37	1260.45

CROSS SECTION

RIVER: SANTA CLARA
REACH: 1 RS: 162

INPUT
Description:
Station Elevation Data num= 377

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1262	10	1262	14.3	1261.15	19.95	1260	22.28	1259.8
25.18	1259.3	31.75	1258.45	39.59	1259.4	48.47	1258.47	52.65	1258
54.89	1258.6	60.52	1260	64.64	1261.49	65.86	1262	69.15	1263.16
71.3	1264	75.91	1265.5	77.32	1266	85.38	1266	88.78	1264.9
91.08	1264	94.37	1263.04	98.26	1262	103.91	1260.28	104.94	1260
115.93	1258	129.08	1257.59	136.71	1257.37	139.97	1257.3	183.36	1257.26
183.72	1257.28	183.88	1257.29	186.18	1257.34	188.21	1257.4	191.81	1257.38
192.79	1257.39	193.48	1257.4	194.19	1257.43	194.88	1257.5	196.31	1257.59
198.61	1257.67	201.14	1257.72	202.78	1257.74	204.59	1257.8	208.31	1257.77
213.73	1257.75	215.77	1257.75	220.11	1257.76	224.75	1257.8	226.94	1257.81
233.58	1257.89	235.93	1257.91	238.1	1257.91	241.37	1257.9	243.06	1257.85
245.09	1257.73	246.12	1257.72	247.54	1257.71	254.31	1257.69	258.48	1257.71
262.94	1257.76	279.6	1258	280.11	1258	294.47	1258.03	296.21	1258
299.82	1258.03	302.98	1258.04	305.16	1258.04	306.39	1258.05	307.62	1258.1
309.04	1258.06	321.04	1258.07	326.06	1258.1	328.44	1258.07	331.54	1258.07
332.3	1258.1	333.22	1258.07	334.17	1258.06	335.16	1258.06	336.09	1258.05
337.32	1258.1	338.77	1258.05	340.26	1258.05	393.58	1259.15	396.97	1259.21
398.11	1259.2	402.22	1259.28	409.12	1259.38	411.26	1259.42	416.74	1259.5
430.35	1259.4	430.46	1259.36	431.06	1259.3	431.7	1259.26	432.76	1259.2
434.5	1259.27	435.84	1259.3	439.26	1259.19	443.14	1259.02	446.41	1259.1
451.25	1258.82	453.43	1258.87	455.68	1258.89	461.53	1258.46	462.44	1258.5
469.65	1258.01	469.76	1258	485.62	1258	487.31	1258.11	493.15	1258.57
496.6	1258.67	498.45	1258.7	501.68	1258.69	505.02	1258.67	520.27	1258.49
524.78	1258.4	528.51	1258.36	537.14	1258.32	539.64	1258.27	544.79	1258.26
546.31	1258.2	547.22	1258.22	548.11	1258.21	548.76	1258.2	549.6	1258.19
550.81	1258.2	551.73	1258.18	565.68	1258.24	569.27	1258.26	573.38	1258.3
577.4	1258.4	578.44	1258.37	590.03	1258.53	591.33	1258.57	593.66	1258.61
596.16	1258.6	597.84	1258.67	599.46	1258.67	600.99	1258.68	602.32	1258.68
603.43	1258.7	605.77	1258.63	607.18	1258.62	609.47	1258.62	611.22	1258.63
611.98	1258.6	624.23	1258.71	627.11	1258.68	627.17	1258.68	638.78	1258.55
653.5	1258.44	658.14	1258.42	684.22	1258.52	687.02	1258.51	688.4	1258.5
694.6	1258.53	701.69	1258.53	714.99	1258.5	720.12	1258.41	725.04	1258.34
729.97	1258.24	736.32	1258.07	736.51	1258.1	740.01	1258	746.1	1258
748.6	1257.99	751.39	1258	771.98	1257.99	775.92	1258	778.33	1258
779.25	1258.02	784.8	1258.2	792.28	1258.39	794.48	1258.43	796.24	1258.4
798.33	1258.46	801.87	1258.47	805.44	1258.47	810.07	1258.46	813.57	1258.4
818.16	1258.43	831.18	1258.31	837.03	1258.2	847.12	1258.09	852.67	1258
1010.78	1257.86	1014.26	1257.9	1017.16	1257.85	1032.56	1257.84	1034.3	1257.8
1035.65	1257.84	1042.29	1257.84	1043.21	1257.8	1044.14	1257.84	1047.07	1257.84
1047.97	1257.8	1048.71	1257.84	1049.9	1257.84	1050.28	1257.8	1050.66	1257.84
1052.69	1257.84	1053.36	1257.8	1054.19	1257.84	1057.82	1257.84	1059.7	1257.8
1199.96	1256.68	1211.12	1256.69	1223.71	1256.66	1227.96	1256.7	1280.3	1256.98
1286.99	1256.95	1288.85	1256.93	1291.88	1256.88	1294.56	1256.9	1297.69	1256.85
1305.22	1256.85	1311.29	1256.87	1314.14	1256.9	1318.27	1256.91	1322.11	1256.94
1322.64	1256.95	1333.64	1257	1336.22	1257	1351.04	1256.92	1356.66	1256.9
1372.73	1256.76	1385.42	1256.7	1393.35	1256.71	1401.39	1256.7	1411.35	1256.65
1437.97	1256.43	1479.35	1256	1509.4	1255.51	1512.76	1255.48	1515.95	1255.5
1518.81	1255.46	1520.61	1255.47	1521.47	1255.5	1523	1255.62	1525.26	1255.6
1528.64	1255.67	1532.56	1255.68	1536.8	1255.67	1551.85	1255.6	1558.46	1255.53
1564.61	1255.48	1569.83	1255.45	1577.55	1255.43	1583.8	1255.4	1593.13	1255.44
1599.27	1255.51	1603.03	1255.6	1605.68	1255.67	1611.8	1255.9	1614.85	1256
1635.67	1256	1646.07	1255.98	1672.99	1255.97	1676.94	1256	1682.88	1255.97

498.41	1256.12	500.63	1256.08	502.87	1256	512.29	1256	513.56	1256.14
517.56	1256.64	519.85	1256.93	521.61	1257.1	525.87	1257.33	526.75	1257.37
527.73	1257.4	528.81	1257.43	529.35	1257.4	530.32	1257.46	531.01	1257.45
531.42	1257.44	531.61	1257.42	531.69	1257.3	532.13	1257.31	533.03	1257.29
533.61	1257.29	534.76	1257.31	537.95	1257.3	538.93	1257.32	539.52	1257.36
540.11	1257.44	540.57	1257.47	541.19	1257.5	541.96	1257.5	543.45	1257.51
547.26	1257.51	548.01	1257.5	548.67	1257.52	549.72	1257.55	551.83	1257.55
557.16	1257.5	557.68	1257.52	647.48	1257.88	653.09	1257.88	656.79	1257.9
659.54	1257.87	664.53	1257.87	665.86	1257.86	667.14	1257.9	667.73	1257.86
669.52	1257.86	670.33	1257.9	671.1	1257.86	672.38	1257.86	672.68	1257.9
672.87	1257.86	673.64	1257.86	674.23	1257.9	674.76	1257.86	675.59	1257.86
676.39	1257.9	678.33	1257.86	679.1	1257.87	680.26	1257.87	681.07	1257.9
759.46	1257.12	762.8	1257.12	767.18	1257.11	770.71	1257.11	777.48	1257.09
779.5	1257.08	784.14	1257.03	788.8	1256.94	791.71	1256.89	796.9	1256.81
800.12	1256.81	802.26	1256.8	804.59	1256.77	808.67	1256.74	810.59	1256.72
812.95	1256.7	814.84	1256.7	816.34	1256.67	820.15	1256.71	823.76	1256.74
829.21	1256.8	834.44	1256.8	836.85	1256.76	912.58	1256.69	918.61	1256.72
924.37	1256.7	942.88	1256.8	977.32	1256.84	982.22	1256.9	987.01	1256.86
991.22	1256.87	994.2	1256.87	997.86	1256.86	1001.4	1256.8	1004.93	1256.82
1030.92	1256.58	1037.95	1256.5	1051.6	1256.41	1068.11	1256.34	1071.67	1256.32
1080.47	1256.2	1097.63	1256.12	1105.39	1256.1	1106.21	1256.1	1127.82	1256
1130.5	1255.98	1130.57	1255.98	1138.02	1255.92	1138.44	1255.9	1138.83	1255.92
1139.09	1255.93	1139.48	1255.93	1139.75	1255.9	1140.05	1255.92	1140.47	1255.92
1140.68	1255.91	1141.45	1255.9	1141.96	1255.9	1153.46	1255.78	1154.84	1255.76
1175.88	1255.54	1192.41	1255.4	1194.26	1255.42	1208.85	1255.33	1210.95	1255.32
1215.19	1255.28	1217.61	1255.3	1224.5	1255.2	1228.72	1255.17	1232.74	1255.15
1236.94	1255.15	1241.15	1255.2	1247.94	1255.17	1251.37	1255.19	1257.01	1255.25
1263.17	1255.3	1266.08	1255.3	1266.95	1255.31	1270.33	1255.32	1286.23	1255.44
1289.62	1255.45	1293.89	1255.5	1296.56	1255.48	1300.81	1255.48	1308.95	1255.54
1313.29	1255.52	1313.86	1255.5	1319.23	1255.48	1400.53	1254.96	1407.32	1254.9
1409.94	1254.87	1411.13	1254.86	1412.93	1254.86	1414.76	1254.9	1416.55	1254.86
1417.28	1254.85	1417.91	1254.85	1418.41	1254.84	1507.02	1254.3	1530.08	1254.05
1533.84	1254	1534.99	1253.98	1541.56	1253.9	1545.01	1253.92	1558.51	1253.98
1561.12	1254	1562.59	1254	1562.64	1254.03	1572.81	1254.24	1586.59	1254.56
1593.37	1254.64	1597.23	1254.66	1601.21	1254.66	1605.03	1254.64	1612.17	1254.56
1620.03	1254.42	1624.88	1254.31	1628.1	1254.26	1628.38	1254.3	1630.31	1254.24
1634.62	1254.24	1657.08	1254.41	1661.82	1254.5	1667.99	1254.55	1675.1	1254.7
1678.54	1254.79	1685.69	1255	1688.51	1255.1	1690.35	1255.16	1691.89	1255.22
1694.98	1255.3	1696.51	1255.3	1697.76	1255.34	1699.73	1255.35	1702.92	1255.36
1705.09	1255.36	1707.19	1255.4	1710.27	1255.36	1713.17	1255.34	1714.51	1255.32
1716.25	1255.3	1717.42	1255.27	1718.84	1255.24	1720.53	1255.18	1722.56	1255.12
1724.99	1255.1	1728.23	1254.98	1734.15	1254.87	1777.3	1255.49	1778.04	1255.44
1784.78	1256	1784.9	1255.95	1785.35	1256	1802.4	1256.84	1813.06	1257.25
1820.32	1257.6	1834.31	1258	1849.68	1258.37	1851.85	1258.44	1859.18	1258.59
1861.89	1258.7	1871.24	1258.84	1878.51	1258.97	1898.59	1259.66	1900.6	1259.72
1909.05	1260	1910.03	1260.04	1922.05	1260.49	1922.13	1260.5	1929.65	1260.78
1934.17	1261	1937.46	1261.21	1943.95	1261.52	1945.5	1261.62	1954.79	1261.97
1955.44	1262	1972.01	1262.28	1981.36	1262.48	1998.46	1263.01	2006.08	1263.2
2009.93	1263.29	2012.97	1263.35	2017.37	1263.4	2022.64	1263.62	2024.06	1263.6
2025.28	1263.63	2028.35	1263.76	2029.8	1263.74	2033.61	1263.88	2034	1263.9
2042.28	1264	2047.22	1264.03	2047.31	1264.03	2047.65	1264.04	2047.8	1264
2047.95	1264.05	2048.11	1264.06	2048.4	1264.08	2055.6	1264.22	2056.27	1264.3
2057.99	1264.34	2063.78	1264.54	2069.2	1264.79	2077.06	1265.11	2096.97	1266
2109.25	1266.69	2141.09	1268	2141.88	1268.05	2142.07	1268.06	2142.31	1268.1
2142.71	1268.07	2164.72	1268.97	2170.06	1269.02	2175.2	1269.08	2181.01	1269.2
2190.13	1269.41	2199.48	1269.59	2211.26	1269.9	2211.78	1269.9	2215.34	1270
2232.76	1270.85	2236.72	1270.98	2245.7	1271.2	2250.09	1271.36	2252.68	1271.44
2256.03	1271.61	2263.08	1272	2276.22	1272.9	2287.44	1273.62	2292.69	1274
2296.49	1274.48	2303.79	1275	2304.17	1275.01	2318.49	1276	2325.16	1276.9
2335.72	1278	2340.7	1279.3	2342.42	1279.78	2343.52	1280	2356.67	1283.7
2372.79	1288.98	2372.93	1289	2375.97	1290	2379.75	1291.04		

Manning's n Values num= 3

1612.59	1252	1616.29	1251.98	1624.56	1251.98	1628.38	1251.97	1631.2	1252
1632.88	1251.96	1633.09	1251.95	1659.06	1251.94	1663.96	1251.95	1670.05	1252
1676.76	1251.99	1678.73	1252	1710.61	1252.21	1721.04	1252.3	1731.65	1252.35
1738.89	1252.41	1744.05	1252.44	1746.72	1252.45	1749.18	1252.5	1750.78	1252.47
1752.27	1252.47	1754.29	1252.48	1757.86	1252.48	1759.56	1252.5	1760.68	1252.48
1765.03	1252.5	1768.91	1252.5	1771.89	1252.51	1775.68	1252.51	1776.14	1252.52
1777.03	1252.5	1777.76	1252.53	1778.4	1252.54	1780.01	1252.54	1781.37	1252.5
1782.7	1252.53	1784.98	1252.53	1785.53	1252.52	1787.61	1252.5	1788.52	1252.5
1860.34	1253.88	1864.12	1254	1879.71	1255.56	1885.2	1256	1900.49	1256.24
1910.66	1256.35	1925.15	1256.55	1954.74	1256.9	1972.59	1257.06	1979.21	1257.13
1982.89	1257.15	1985.49	1257.2	1990.44	1257.21	1996.76	1257.3	2001.7	1257.38
2003.51	1257.4	2005.88	1257.4	2007.66	1257.43	2009.41	1257.44	2011.08	1257.44
2016.05	1257.43	2018.99	1257.4	2022.23	1257.41	2025.62	1257.4	2039.19	1257.43
2041.97	1257.4	2051.81	1257.45	2057.51	1257.43	2079	1257.54	2081.43	1257.5
2086.97	1257.57	2094.61	1257.64	2102.65	1257.74	2107.08	1257.81	2115.35	1258
2115.44	1257.99	2116.01	1258	2133.78	1258.83	2138.21	1259.08	2148.5	1259.6
2154.82	1259.89	2157.8	1260	2159.89	1260.04	2164.23	1260.1	2172.4	1260.1
2180.26	1260.17	2181.21	1260.19	2182.09	1260.2	2183.39	1260.22	2206.24	1260.5
2209.46	1260.53	2211.4	1260.57	2218.14	1260.67	2227.04	1260.92	2231.07	1261
2237.59	1261.24	2242.27	1261.37	2244.16	1261.41	2245.15	1261.42	2247.61	1261.4
2258.49	1262	2260.5	1262.29	2273.04	1264	2278.95	1265.64	2280.6	1266
2281.37	1266.39	2282.32	1266.83	2284.52	1267.68	2291.38	1270	2293.44	1270.4
2301.29	1271.68	2303.49	1272.15	2313.73	1273.58	2319.17	1274.15	2338.71	1278.4
2340.38	1278.68	2346.61	1280	2349.27	1280.6	2350.01	1280.76	2364.65	1283.8
2365.69	1283.92	2396.32	1289.28	2398.69	1289.7	2398.82	1289.72	2399.92	1290
2429.63	1295.04	2430.83	1295.2	2436.91	1296.09	2441.06	1296.73	2444.74	1297.2
2459.88	1300	2463.3	1301.21						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	76.94	.03	2284.52	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
76.94	2284.52	250	198	139	.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
0	257	1266	F
1880	2463.3	1266	F

CROSS SECTION

RIVER: SANTA CLARA
REACH: 1 RS: 159

INPUT
Description:
Station Elevation Data num= 499

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
853.47	1262.22	860.14	1262.3	865.46	1262.41	868.19	1262.45	882.04	1262.6
886.28	1262.64	889.1	1262.69	889.8	1262.72	890.23	1262.7	890.61	1262.77
891.2	1262.79	891.61	1262.8	892.84	1262.82	893.94	1262.8	894.38	1262.83
895.47	1262.82	898.24	1262.81	898.92	1262.8	900.61	1262.8	902.53	1262.76
964.66	1262	966.95	1261.2	970.47	1260	977.33	1259.09	980.59	1258.8
982.5	1258.59	990.97	1258	1023.14	1257.76	1041.36	1257.57	1043.7	1257.55
1048.09	1257.52	1049.26	1257.5	1086.28	1257.07	1126.49	1257.78	1134.13	1258
1135.78	1259.29	1137.07	1260	1137.27	1260.18	1138.98	1260.56	1156.73	1260.85
1162.72	1260.62	1166.43	1260.5	1170.6	1260.45	1177.09	1260.36	1191.48	1260
1227.08	1259.81	1228.25	1259.8	1229.38	1259.8	1233.09	1259.81	1238.8	1259.84
1244.89	1259.85	1251.31	1259.9	1257.66	1259.89	1274.77	1259.93	1278.42	1259.95
1284.32	1260	1286.79	1260	1314	1260.11	1319.18	1260.1	1323.7	1260.14
1346.51	1260.19	1383.99	1260.57	1394.9	1260.6	1401.13	1260.6	1414.86	1260.56
1420.57	1260.6	1426.36	1260.55	1428.76	1260.54	1430.35	1260.53	1433.08	1260.5

2790.81	1251.13	2797.91	1251.2	2802.69	1251.29	2805.06	1251.3	2834.39	1251.92
2836.5	1251.92	2839.05	1251.9	2841.73	1251.93	2845.71	1251.92	2851.53	1251.92
2853.09	1251.9	2853.46	1251.91	2853.64	1251.9	2854.37	1251.89	2855.08	1251.89
2857.16	1251.9	2861.56	1251.9	2863.99	1251.91	2866.29	1251.91	2869.12	1251.9
2871.36	1251.94	2873.91	1251.95	2877.1	1251.98	2881.57	1252	2941.59	1252
2950.32	1253.32	2954.28	1254	2966.93	1254.35	2974.99	1254.54	2979.87	1254.62
2983.55	1254.7	2986.48	1254.65	2995.66	1254.57	2997.41	1254.6	3001.09	1254.61
3003	1254.6	3007.97	1254.67	3009.99	1254.68	3015.99	1254.75	3022.67	1254.75
3027.46	1254.8	3031.75	1254.92	3036.45	1254.91	3040.55	1254.99	3046.79	1255.07
3052.63	1255	3058.32	1255.11	3064.38	1255.08	3069.83	1255.14	3075.23	1255.13
3080.53	1255.1	3084.86	1255.17	3090.9	1255.15	3094.49	1255.2	3100.69	1255.18
3108.21	1255.2	3118.78	1255.17	3122.2	1255.18	3129.92	1255.25	3130.11	1255.2
3145.87	1255.43	3152.33	1255.51	3181.55	1256	3184.24	1256.06	3207.69	1256.55
3231.61	1256.97	3238.49	1257.1	3242.01	1257.11	3244.87	1257.13	3247.24	1257.14
3252.3	1257.11	3256.88	1257.3	3259.37	1257.28	3262.78	1257.38	3265.86	1257.4
3269.8	1257.49	3277.45	1257.6	3279.33	1257.67	3287.79	1257.84	3288.46	1257.85
3294.64	1258	3298.45	1258.1	3298.9	1258.07	3308.32	1258.22	3322.57	1258.39
3329.9	1258.5	3333.45	1258.54	3335.69	1258.55	3338.6	1258.54	3340.95	1258.5
3341.85	1258.5	3345.31	1258.33	3347.86	1258.25	3350.55	1258.27	3352.05	1258.25
3354.01	1258.3	3355.71	1258.29	3358.04	1258.32	3361.26	1258.39	3363.83	1258.43
3381.99	1258.8	3385.7	1258.93	3422.68	1260	3432.67	1261.9	3441.07	1263.37
3454.69	1264.8	3471.25	1267.04	3496.22	1269.27	3498.42	1269.5	3503.73	1270
3512.06	1271.67	3515.05	1272.32	3524.68	1274.3	3526.23	1274.6		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
853.47	.06	1469.44	.03	3432.67	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1469.44	3432.67	312	240	210	.1	.3

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
853.47	1445	1262	F
3000	3526.23	1266	F

CROSS SECTION

RIVER: SANTA CLARA
REACH: 1 RS: 158

INPUT
Description:
Station Elevation Data num= 470

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1260.2	4.2	1260	7.56	1259.83	17.76	1260	33.31	1260.31
38.29	1260.3	43.02	1260.31	47.67	1260.27	54.92	1260.15	59.74	1260.01
60.63	1260	61.34	1259.99	68.7	1259.99	68.94	1260	75.54	1260
79.16	1259.86	83.2	1259.77	88.48	1259.6	92.58	1259.46	102.12	1259.22
103.98	1259.21	108.37	1259.26	110.32	1259.4	112.07	1259.48	115.72	1259.89
117.55	1260	123.65	1260.3	129.26	1260.44	131.93	1260.45	134.08	1260.38
139.32	1260	149.02	1260	153.38	1260.46	155.82	1260.63	158.68	1260.8
159.89	1260.85	160.15	1260.89	168.63	1261.33	169.97	1261.35	171.34	1261.4
173.35	1261.35	174.69	1261.35	178.63	1261.32	179.93	1261.32	181.19	1261.3
236.56	1260.85	240.47	1260.87	245.84	1260.87	247.64	1260.9	252.51	1260.84
254.12	1260.79	254.72	1260.79	263.09	1260.8	264.82	1260.73	267.74	1260.69
289.39	1260.35	304.29	1260.19	308.1	1260.16	308.55	1260.16	309.37	1260.1
335.47	1260	355.99	1259.7	356.27	1259.68	358.9	1259.6	364.07	1258.9
365.6	1258.81	366.77	1258.82	367.71	1258.59	368.51	1258.55	370.53	1258.4
371.8	1258.36	380.27	1258.13	380.6	1258.13	389.27	1258.08	389.87	1258.1
391.84	1258	393.63	1257.98	404.31	1257.95	413.21	1257.97	419.44	1258
423.4	1258.06	423.53	1258.06	432.97	1258.21	435.61	1258.5	441.28	1258.41
448.03	1260	520.17	1260	530.56	1260.2	531.33	1260.21	534.1	1260.24

2783.1	1252.41	2785.73	1252.43	2789.87	1252.43	2792.74	1252.5	2795.32	1252.49
2797.89	1252.52	2801.41	1252.6	2804.29	1252.7	2807.97	1252.76	2812.03	1252.78
2816.36	1252.89	2822.03	1252.94	2827.64	1253.1	2834.91	1253.15	2842.99	1253.34
2848.81	1253.44	2867.21	1253.8	2868.12	1253.81	2869.02	1253.84	2879.49	1254
2903.19	1254.22	2904.5	1254.2	2913.85	1254.31	2933.68	1254.42	2935.06	1254.4
2941.75	1254.47	2943.21	1254.48	2959.32	1254.61	2961.01	1254.62	2967.94	1254.7
2972.09	1254.67	2977.93	1254.69	2981.76	1254.71	2989.04	1254.8	2994.49	1254.8
3009.24	1254.83	3012.46	1254.83	3014.12	1254.8	3014.69	1254.81	3017.8	1254.83
3028.66	1254.92	3031.15	1254.95	3033.66	1255	3036.26	1255.03	3040.01	1255.12
3044.8	1255.25	3053.67	1255.52	3066.92	1256	3168.65	1259.25	3182.98	1259.6
3189.47	1259.8	3197.42	1259.92	3204.45	1260	3211.48	1260.19	3217.73	1260.5
3218.18	1260.54	3218.55	1260.55	3218.83	1260.57	3219.33	1260.61	3220.32	1260.7
3221.05	1260.77	3221.73	1260.84	3229.41	1261.78	3238.18	1262.7	3296.26	1269.9

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	1119.8	.03	3168.65	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1119.8	3168.65	246	120	52	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	1125.27	1256.75	F

CROSS SECTION

RIVER: SANTA CLARA
REACH: 1 RS: 157

INPUT
Description:
Station Elevation Data num= 471

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1254.3	5.94	1254	8.91	1254.12	15.16	1254.31	19.38	1254.41
27.93	1254.56	31.26	1254.59	34.7	1254.6	40.38	1254.6	46.44	1254.54
55.98	1254.32	67.29	1254.3	72.64	1254.21	81.19	1254	86.6	1254.3
88.18	1254	104.82	1254	106.15	1254.07	107.04	1254.14	111.77	1254.48
115.7	1254.74	127.48	1255.6	136.04	1256	138.63	1256.04	140.98	1256.12
143.03	1256.16	145.48	1256.2	147.98	1256.12	149.61	1256	155.08	1255.88
156.81	1255.8	224.58	1254.36	229.34	1254.27	230.58	1254.27	248.9	1254.2
257.47	1254	270.86	1254	289.37	1254.23	301.07	1254.4	308.62	1254.47
316.63	1254.56	318.88	1254.58	322.22	1254.63	325.1	1254.7	327.45	1254.68
328.62	1254.7	330.1	1254.72	330.78	1254.72	331.4	1254.7	332.47	1254.74
349.32	1254.66	349.55	1254.65	350.51	1254.63	351.61	1254.6	355.56	1254.54
357.14	1254.52	359.18	1254.5	361.59	1254.47	375.34	1254.35	430.19	1253.66
437.96	1253.6	469.52	1253.11	488.23	1253.77	538.96	1253.77	542.58	1253.75
544.68	1253.7	547.26	1253.76	553.06	1253.82	557.73	1253.85	557.89	1253.85
558.17	1253.9	558.57	1253.87	560.9	1253.89	560.97	1253.9	561.26	1253.9
566.38	1253.88	566.49	1253.88	566.57	1253.87	566.64	1253.9	566.73	1253.87
571.5	1253.77	571.68	1253.76	576.44	1253.75	576.67	1253.7	577.02	1253.73
577.78	1253.72	578.31	1253.7	582.57	1253.65	597.82	1253.3	606.4	1253.08
622.56	1252.72	624.09	1252.71	626.01	1252.67	638.23	1252.38	638.64	1252.36
639.58	1252.35	641.41	1252.31	642.94	1252.3	645.14	1252.26	645.99	1252.28
662.24	1252.26	672.37	1252	673.84	1252	675.56	1251.93	676.69	1251.92
677.9	1251.92	678.92	1251.98	679.4	1252	705.81	1252.53	717.26	1252.7
746.24	1253.2	771.63	1253.7	772.48	1253.71	774.45	1253.71	776.38	1253.7
824.53	1252.7	826.21	1252.72	833.65	1252.63	834.02	1252.64	852.22	1252.53
874.21	1252	890.1	1252	898.64	1253.4	902.54	1254	927.57	1254.28
930.68	1254.32	932.95	1254.3	935.42	1254.37	937.09	1254.39	940.13	1254.42
941.84	1254.4	942.58	1254.44	943.35	1254.44	944.22	1254.45	945.02	1254.4
945.34	1254.45	946.19	1254.45	946.52	1254.5	946.87	1254.45	949.15	1254.45
949.64	1254.5	950.06	1254.45	950.54	1254.45	950.72	1254.4	950.82	1254.45

3030.38	1260	3067.65	1263.78	3071.72	1264.3	3079.49	1265.16	3084.86	1265.77
3096.83	1267.2	3102.18	1267.83	3112.09	1268.78	3114.32	1269.06	3119.88	1269.44
3135	1270								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.06	1008.28	.03	2977.45	.06

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
1008.28	2977.45	298	184	118	.1	.3

Ineffective Flow num= 1

Sta L	Sta R	Elev	Permanent
0	949.64	1255	F

CROSS SECTION

RIVER: SANTA CLARA
REACH: 1 RS: 156

INPUT
Description:
Station Elevation Data num= 466

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1251.9	11	1252	61.03	1252	87.84	1251.74	92.65	1251.7
98.23	1251.85	100.97	1251.83	101.43	1251.82	102.38	1251.82	103.33	1251.8
107.88	1251.6	108.08	1251.57	116.24	1251.37	118.92	1251.32	123.66	1251.4
127.4	1251.33	134.15	1251.26	134.79	1251.24	138.57	1251.11	143.4	1250.99
147.85	1250.94	150.67	1250.94	152.2	1251.03	153.87	1251.1	155.37	1251.04
160.83	1250.87	164.94	1250.71	170.95	1250.4	177.03	1250	180.09	1250
208.77	1249.9	211.82	1249.95	214.03	1250	228.62	1250.4	237.29	1250.61
243.78	1250.79	247.05	1250.85	249.3	1250.91	251.19	1250.9	253.1	1250.97
257.61	1250.99	260.67	1250.98	268.32	1250.9	272.67	1250.92	276.67	1250.88
285.73	1250.82	290.43	1250.78	296.64	1250.78	300.61	1250.79	326.28	1250.4
327.22	1250.36	328.22	1250.37	331.83	1250.49	355.98	1250.59	357.37	1250.5
357.69	1250.52	366.81	1250.42	371.13	1250.21	374.57	1250.05	375.83	1250
389.97	1250	393.24	1251.08	396.38	1252	401.08	1252.2	404.71	1252.38
441.63	1253.94	443.3	1254	445.81	1254.01	451.67	1254.01	455.23	1254.02
462.88	1254	478.34	1254.03	487.43	1254.03	489.66	1254	490.68	1254.02
492.24	1254	494.35	1253.05	496.5	1252	502.24	1250.4	503.61	1250
506.11	1249.68	507.15	1249.61	507.97	1249.53	513.91	1248.9	522.96	1248
539.17	1247.05	555.16	1246	609.84	1244.7	626.52	1244.27	630.72	1244.17
632.15	1244.13	632.77	1244.12	633	1244.1	636.35	1244.14	636.53	1244.21
639.54	1244.83	639.92	1244.7	645.3	1246	658.88	1246.69	660.31	1246.68
661.49	1246.7	744.94	1246.83	747.44	1246.81	750.03	1246.78	752.66	1246.74
758.63	1246.6	761.71	1246.6	762.6	1246.58	763.46	1246.58	765.35	1246.56
766.02	1246.6	766.62	1246.55	768.13	1246.52	768.6	1246.52	769.09	1246.51
769.79	1246.5	770.19	1246.51	770.47	1246.52	770.63	1246.52	770.85	1246.54
771.08	1246.5	771.27	1246.55	772.51	1246.55	772.88	1246.5	773.15	1246.53
773.93	1246.5	774.8	1246.5	775.11	1246.51	775.74	1246.52	776.07	1246.53
777.06	1246.6	778.35	1246.59	779.48	1246.61	815.04	1246.18	875.97	1246
878.22	1246	883.2	1245.74	885.25	1245.67	888.57	1245.6	892.18	1245.49
893.98	1245.46	895.8	1245.45	897.31	1245.45	897.77	1245.5	899.43	1245.54
902.36	1245.59	904.26	1245.71	904.87	1245.88	905.29	1246	909.1	1246.08
913.32	1246.15	916.23	1246.19	919.19	1246.21	922.26	1246.2	926.75	1246.23
940.69	1246.19	947.01	1246.1	949.74	1246.01	950.77	1246	955.3	1245.95
965.16	1245.86	974.16	1245.8	978.42	1245.7	979.87	1245.64	981.15	1245.61
984.83	1245.6	989.52	1245.51	991.11	1245.5	992.77	1245.5	994.32	1245.51
998.14	1245.6	1000.04	1245.6	1001.79	1245.59	1004.45	1245.55	1006.26	1245.55
1007.97	1245.6	1015.67	1245.76	1024.52	1246	1026.18	1246.01	1028.97	1246
1031.34	1246.06	1037.49	1246.09	1040.6	1246.1	1042.19	1246.1	1044.3	1246.12
1046.18	1246.13	1047.55	1246.14	1048.41	1246.14	1050.47	1246.1	1052.55	1246.14
1054.49	1246.14	1057.07	1246.13	1058.15	1246.13	1059.48	1246.1	1060.96	1246.11

CROSS SECTION

RIVER: SANTA CLARA
REACH: 1 RS: 155

INPUT
Description:
Station Elevation Data num= 500

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	1249	3.13	1249	4.36	1248.99	7.16	1248.95	50.28	1248.42
83.9	1248.9	85.02	1248.86	88.15	1248.91	132.31	1248.91	136.53	1248.69
138.99	1248.6	141.01	1248.59	144.81	1248.54	147.45	1248.53	148.23	1248.53
158.37	1248.5	187.75	1248	203.34	1247.86	205.94	1247.81	206.45	1247.79
281.61	1247.7	299.85	1248	336.41	1248.93	336.49	1248.93	336.59	1248.93
336.83	1248.93	338.54	1248.9	404.32	1248	405.32	1248	409.13	1247.94
411.47	1247.93	413.05	1247.91	414.34	1247.9	416.01	1247.9	424.44	1247.95
426.55	1247.95	428.55	1247.9	433.49	1248	444.93	1248	450.39	1248.68
459.92	1250	503.48	1251.2	537.35	1252	561.81	1252	561.97	1251.9
562.35	1251.86	568.48	1250.44	570.73	1250	575.1	1249.31	583.25	1248
587.9	1246.36	588.98	1246	594.99	1245.27	603.26	1244.28	605.38	1244
606.22	1243.97	609.41	1243.88	615	1243.76	616.18	1243.7	617.07	1243.7
617.59	1243.69	618.24	1243.68	619	1243.68	619.8	1243.7	620.58	1243.68
623.22	1243.7	624.86	1243.72	626.9	1243.7	629.11	1243.77	632.04	1243.79
635.2	1243.8	640.81	1243.8	681.87	1242.86	691.73	1242.41	693.25	1242.38
694.89	1242.33	700.7	1242	712.24	1241.06	713.22	1240.99	713.62	1240.97
713.97	1240.95	714.1	1240.9	714.48	1240.95	714.69	1241	715.32	1241.08
723.6	1242	767.85	1243.02	773.43	1243.16	774.71	1243.19	785.92	1243.2
786.04	1243.14	786.28	1243.11	788.87	1242.96	790.07	1242.91	791.73	1242.9
792.83	1242.85	795.66	1242.82	803.49	1242.8	806.79	1242.8	816.07	1242.72
817.5	1242.72	819.06	1242.71	822.96	1242.7	825.35	1242.7	826.95	1242.69
829.97	1242.69	835.46	1242.68	843.35	1242.65	844.79	1242.6	851.35	1242.62
856.22	1242.59	872.17	1242.47	873.35	1242.5	874.98	1242.44	876.85	1242.41
878.42	1242.39	880.07	1242.36	880.93	1242.3	881.49	1242.34	882.09	1242.33
882.67	1242.34	883.17	1242.34	883.93	1242.3	884.35	1242.35	884.63	1242.36
884.79	1242.37	884.96	1242.4	885.18	1242.4	885.73	1242.44	886.25	1242.45
886.59	1242.46	886.98	1242.46	891.1	1242.4	891.49	1242.43	893.62	1242.43
894.04	1242.4	894.56	1242.46	896.3	1242.49	896.95	1242.5	897.48	1242.5
898.33	1242.44	899.56	1242.44	900.64	1242.4	901.36	1242.45	901.94	1242.44
902.9	1242.43	903.53	1242.42	904.19	1242.4	904.5	1242.44	904.96	1242.45
905.41	1242.49	906.02	1242.55	906.79	1242.6	907.93	1242.72	909.51	1242.8
910.78	1242.79	913.59	1242.9	915.7	1242.9	917.33	1242.91	966.39	1242.93
985.27	1242.1	985.85	1242.1	988.27	1242	989.01	1241.99	991.14	1241.99
991.79	1242	993.17	1242.13	994.5	1242.18	996.28	1242.19	1000.16	1242.07
1001.75	1242	1007.32	1241.9	1021.41	1242	1028.85	1242	1033.1	1241.89
1035.4	1241.86	1038.08	1241.85	1043.9	1241.9	1046.38	1242	1047	1242.03
1053.2	1242.33	1056.9	1242.5	1057.62	1242.51	1065.58	1242.77	1067.55	1242.81
1069.43	1242.83	1071.98	1242.8	1076.11	1242.79	1077.78	1242.79	1080.5	1242.81
1084.86	1242.89	1085.86	1242.9	1087.6	1243.06	1087.93	1243.08	1091.1	1243.21
1092.22	1243.23	1092.65	1243.2	1095.78	1243.27	1096.68	1243.28	1097.86	1243.27
1099.05	1243.25	1100.56	1243.2	1102	1243.18	1102.72	1243.15	1104.56	1243.04
1108.42	1242.87	1111.83	1242.8	1114.44	1242.68	1116.72	1242.65	1117.91	1242.63
1120.5	1242.56	1125.55	1242.4	1127.63	1242.4	1130.02	1242.36	1130.58	1242.34
1131.22	1242.33	1131.94	1242.3	1132.72	1242.27	1133.35	1242.24	1133.65	1242.24
1133.86	1242.23	1134.06	1242.2	1134.22	1242.24	1134.3	1242.24	1134.4	1242.28
1134.58	1242.3	1134.79	1242.29	1135.1	1242.3	1135.46	1242.3	1135.92	1242.29
1136.24	1242.3	1136.6	1242.26	1136.77	1242.24	1138.06	1242.26	1138.14	1242.26
1138.36	1242.3	1138.66	1242.27	1139.42	1242.27	1139.89	1242.25	1140.08	1242.3
1140.25	1242.26	1140.59	1242.27	1141.12	1242.29	1141.72	1242.31	1142.28	1242.3
1142.9	1242.35	1143.62	1242.37	1144.21	1242.38	1145.61	1242.38	1146.23	1242.4
1147.11	1242.39	1148.48	1242.41	1152.52	1242.52	1154.48	1242.56	1156.84	1242.6
1161.92	1242.62	1170.2	1242.58	1172.44	1242.6	1176.57	1242.62	1180.3	1242.63
1182.33	1242.62	1184.45	1242.64	1186.75	1242.7	1189.76	1242.7	1193.09	1242.69

1	174	.06	.03	.06
1	173	.06	.03	.06
1	172	.06	.03	.06
1	171	.06	.03	.06
1	170	.06	.03	.06
1	169	.06	.03	.06
1	168	.06	.03	.06
1	167	.06	.03	.06
1	166	.06	.03	.06
1	165.9	Bridge		
1	165.5	.06	.03	.06
1	165	.06	.03	.06
1	164	.06	.03	.06
1	163	.06	.03	.06
1	162	.06	.03	.06
1	161	.06	.03	.06
1	160	.06	.03	.06
1	159	.06	.03	.06
1	158	.06	.03	.06
1	157	.06	.03	.06
1	156	.06	.03	.06
1	155	.06	.03	.06

SUMMARY OF REACH LENGTHS

River: SANTA CLARA

Reach	River Sta.	Left	Channel	Right
1	174	730.96	727.04	709.04
1	173	379	426.95	469
1	172	150	173.52	161
1	171	151	157	160
1	170	120	111.98	122.02
1	169	140	165	155
1	168	121	178	319
1	167	59.01	231	386.01
1	166	120	120	120
1	165.9	Bridge		
1	165.5	49	50	232
1	165	146	171	76.48
1	164	75	107.02	69
1	163	76	182	285
1	162	128	180	197
1	161	78.98	150	223
1	160	250	198	139
1	159	312	240	210
1	158	246	120	52
1	157	298	184	118
1	156	120.99	231.99	363
1	155	745	220	330

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: SANTA CLARA

Reach	River Sta.	Contr.	Expan.

APPENDIX 'C'

Location Hydraulic Study Form

Floodplain Evaluation Form

LOCATION HYDRAULIC STUDY FORM

Dist. 7 Co. *LA* Rte. ***Cross Valley Connector*** K.P.
EA Bridge No.
Floodplain Description:
Shallow river with steep hills on the right overbank and developed land on the left overbank. Location of interest: Santa Clara River 2000 ft upstream of the CA aqueduct.

1. Description of Proposal (include any physical barriers i.e. concrete barriers, soundwalls, etc. and design elements to minimize floodplain impacts)

This project includes placement of fill and construction of the Golden Valley Road Bridge within the existing floodplain. The proposed construction would have minor impacts on the existing floodplain.

2. ADT: Current ___**N/A**_____ Projected_____

3. Hydraulic Data: Base Flood Q_{100}=___*15,272*___ m^3 / s ***(Taken from report titled Drainage Concept Report for River Park Santa Clara River Soil Cement Bank Protection, August 2004 by PACE, Pacific Advanced Civil Engineering, Inc.)***

WSE_{100}=___***(See Appendix 'B')***_____The flood of record, if greater than Q_{100}:
Q=___*N/A*___ m^3 / s WSE= _____*N/A*___
Overtopping flood Q=*N/A* m^3 / s
WSE=*N/A*

Are NFIP maps and studies available? YES__**X**____ NO_____

4. Is the highway location alternative within a regulatory floodway?
YES_____ NO___*X*____

5. Attach map with flood limits outlined showing all buildings or other improvements within the base floodplain. ***(See Appendix 'A')***

Potential Q_{100} backwater damages:

A. Residences? NO___YES ***(no increase from existing condition)***
B. Other Bldgs? NO___YES ***(no increase from existing condition)***
C. Crops? NO___YES ***(no increase from existing condition)***
D. Natural and beneficial

FLOODPLAIN VALUES? NO___**X**____YES_____

6. Type of Traffic:

A. Emergency supply or evacuation route? NO_____YES__**X**____

B. Emergency vehicle access? NO_____YES__X____
C. Practicable detour available? NO_____YES__X____
D. School bus or mail route? NO_____YES__X____

7. Estimated duration of traffic interruption for 100-year event hours: ***N/A (The Golden Valley Road Bridge would be entirely above floodplain).***

8. Estimated value of Q_{100} flood damages (if any) – moderate risk level.

A.	Roadway	$ ***(no increase from existing condition)***
B	Property	$ ***(no increase from existing condition)***
	Total	$ ***(no increase from existing condition)***

9. Assessment of Level of Risk Low__X____
Moderate____
High_____

For High Risk projects, during design phase, additional Design Study Risk Analysis May be necessary to determine design alternative.

Is there any longitudinal encroachment, significant encroachment, or any support of incompatible
Floodplain development? NO_____YES ***(encroachment with minor impacts)***

If yes, provide evaluation and discussion of practicability of alternatives in accordance with 23 CFR 650.113 ***(See report)***

Information developed to comply with the Federal requirement for the Location Hydraulic Study shall be retained in the project files.

Signature – Hydraulic/Project Engineer Glen Parker Date 3/31/05

FLOODPLAIN ENCROACHMENT REPORT SUMMARY

Dist. *7* Co. ***LA*** Rte. ***Cross Valley Connector*** K.P.
Bridge No.
Limits: ***Santa Clara River between Bouquet Canyon Road and Whites Canyon Road.***

Floodplain Description: ***Shallow river with steep hills on the right overbank and developed land on the left overbank. Location of interest: Santa Clara River 2000 ft upstream of the CA aqueduct.***

		No	Yes
1.	Is the proposed action a longitudinal encroachment of the base floodplain?		***No impacts***
2.	Are the risks associated with the implementation of the proposed action significant?	***X***	
3.	Will the proposed action support probable incompatible floodplain development?	***X***	
4.	Are there any significant impacts on natural and beneficial floodplain values?	***X***	
5.	Routine construction procedures are required to minimize impacts on the floodplain. Are there any special mitigation measures necessary to minimize impacts or restore and preserve natural and beneficial floodplain values? If yes, explain.	***X***	
6.	Does the proposed action constitute a significant floodplain encroachment as defined in 23 CFR, Section 650.105(q).	***X***	
7.	Are Location Hydraulic Studies that document the above answers on file? If not explain.		***X***

PREPARED BY:

Glen Parker — 3/31/05

Signature – Hydraulic/Project Engineer — Date

APPROVED BY:

Signature – City Project Manager — Date

CONCURRED BY:

Signature – District Local Assistance Engineer — Date

Signature – FHWA Transportation Engineer — Date

INITIAL SITE ASSESSMENT
FOR THE GOLDEN VALLEY ROAD BRIDGE PROJECT

Prepared for:

County of Los Angeles, Department of Public Works
900 South Fremont Street
Alhambra, California 91803

Prepared by:

EDAW, Inc.
3780 Wilshire Boulevard, Suite 250
Los Angeles, California 90010

September 2006

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1. SUMMARY

The City of Santa Clarita is proposing to construct the 1,100-foot-long Golden Valley Road bridge over the Santa Clara River. The project is located within the City of Santa Clarita in Los Angeles County, California. The proposed typical section of the bridge would include a six-lane roadway with a 14-foot median island, and pedestrian and bicycle lanes. Generally, the total curb-to-curb width would be approximately 90 feet with a total ROW width of approximately 120 feet. This Hazardous Waste Assessment was prepared for Caltrans and the City of Santa Clarita by EDAW, Inc. (EDAW) in support of the Golden Valley Road Bridge Project. The purpose of this study is to identify and evaluate potential hazardous waste materials within the proposed boundary of the Golden Valley Road bridge over the Santa Clara River.

An Initial Site Assessment Environmental (ISA), which identified and evaluated potential hazardous waste materials within the project area, was completed for the proposed Cross Valley Connector East project in November 2005 by Dokken Engineering (Dokken). At that time, the proposed project consisted of the extension of Newhall Ranch Road by approximately 3.2 kilometers (2 miles) from its existing terminus at Bouquet Canyon Road to a future intersection with Golden Valley Road, and the extension of Golden Valley Road southwards to terminate approximately 610 meters (2,000 feet) north of Soledad Canyon Road at the terminus of the Golden Valley Road bridge project, then under construction. The project scope has since been reduced in geographic extent to consist only of construction of the Golden Valley Road bridge, which is an approximate 1,100-foot-long bridge spanning the Santa Clara River.

In addition to the ISA agency database records within the project site area were identified by Environmental Data Resources (EDR). EDR provides valuable information about environmental risk management, including government record checks and historical property data identifying businesses previously on a site that may have had hazardous materials or hazards issues.

Based on prior reports, site visits, and information obtained from our research, the project site does not contain any known hazardous waste or concern for hazardous waste contamination. One nearby site has been identified as an “Area of Potential Concern”. The Bermite Division of Whittaker site is an active California Environmental Protection Agency (EPA) Agency Annual Workplan (AWP) site located within 1/8 mile of the proposed project. The site may have groundwater and soil contamination, and though the proposed project will not encroach on the contaminated site, there is a possibility that contaminated groundwater may have migrated underneath the proposed project site.

2. PROJECT LOCATION AND DESCRIPTION

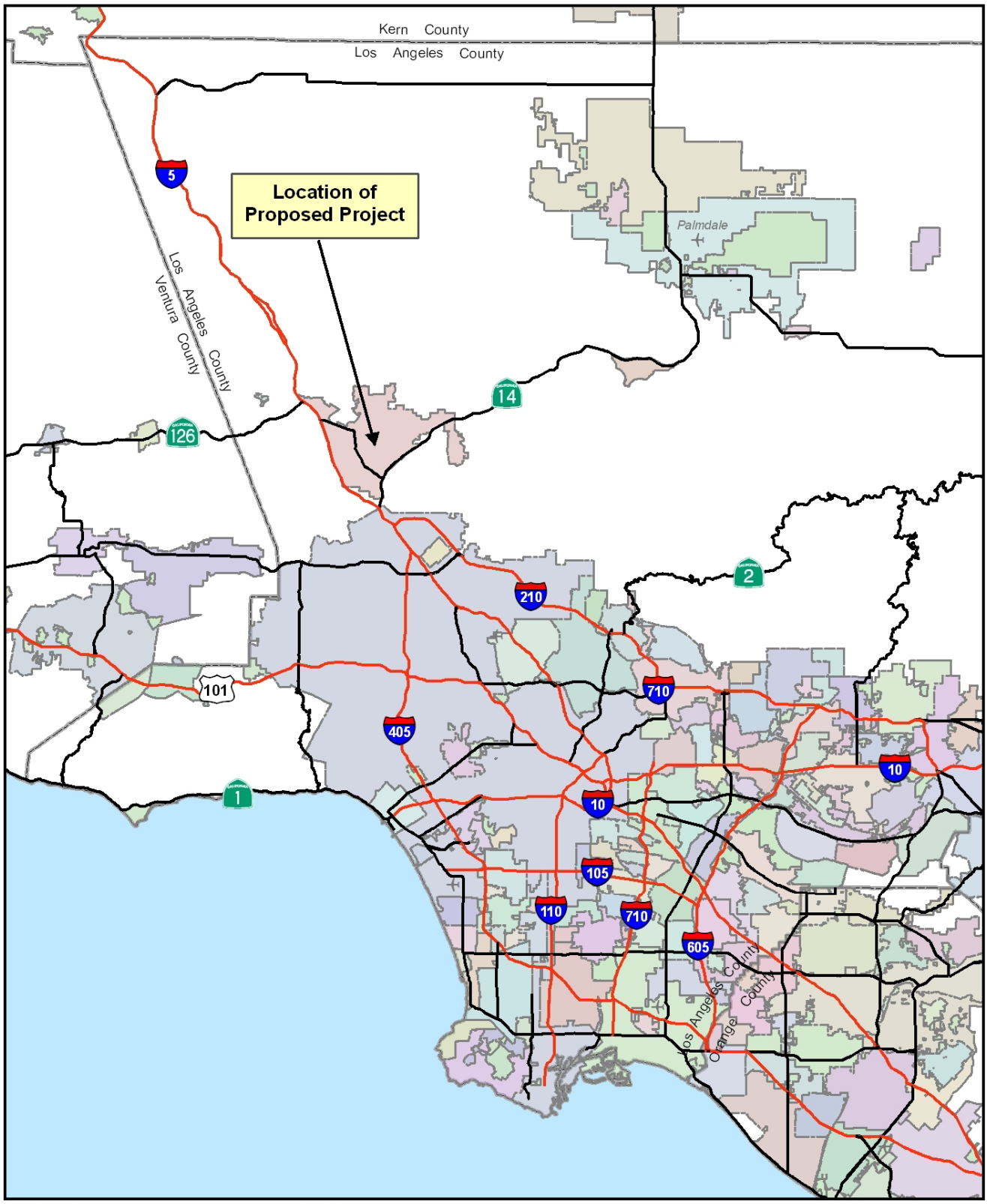
The City of Santa Clarita is proposing to construct the 1,100-foot-long Golden Valley Road bridge over the Santa Clara River. The project is located within the City of Santa Clarita in Los Angeles County, California (Figure 1). The northern terminus of the proposed project would be the eastern-most extent of Newhall Ranch Road, which is currently under construction to the northwest of the project site (see Figure 2). Grading for the majority of Newhall Ranch Road is complete and construction is anticipated to be completed between October 2007 and April 2008. The southern terminus of the proposed project would lie at the northern-most extent of the Golden Valley Road/ Soledad Canyon Ranch Interchange, which has recently been completed but is not yet open for public access.

The primary objectives of the proposed project are:

- to provide an additional east-west transportation corridor across the Santa Clara River as specified in the City's General Plan;
- to complete an essential portion of the Cross Valley Connector project, eventually creating an east-west route across Santa Clarita Valley connecting Interstate 5 (I-5)/State Route 126 (SR 126) in the west to State Route 14 (SR 14) in the east;
- to alleviate traffic congestion along Soledad Canyon Road and Bouquet Canyon Road;
- to eliminate out-of-direction travel and improve inter-regional travel by improving east-west mobility;
- to improve local access to commercial and industrial areas within the City;
- to improve local air quality; and;
- to construct a roadway that would minimize environmental hazards.

The proposed typical section of the bridge would include a six-lane roadway with a 14-foot median island, and pedestrian and bicycle lanes. Generally, the total curb-to-curb width would be approximately 90 feet with a total ROW width of approximately 120 feet (Figure 3).

The Golden Valley Road Bridge Project, along with other approved segments and intersection improvements currently under construction or recently completed will complete the Cross Valley Connector. The Golden Valley Road bridge is part of the larger Cross Valley Connector Project that is being undertaken by the City of Santa Clarita. The City's Circulation Element analyzed the entire alignment at a programmatic level under the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). The Cross Valley Connector will provide needed traffic relief to currently congested arterial roadways by augmenting east-west roadway capacity between the I-5/SR 126 and SR 14.



Source: California Geospatial Information Library, 2003-2005

Figure 1
Regional Location Map

N

0 5 10 Miles

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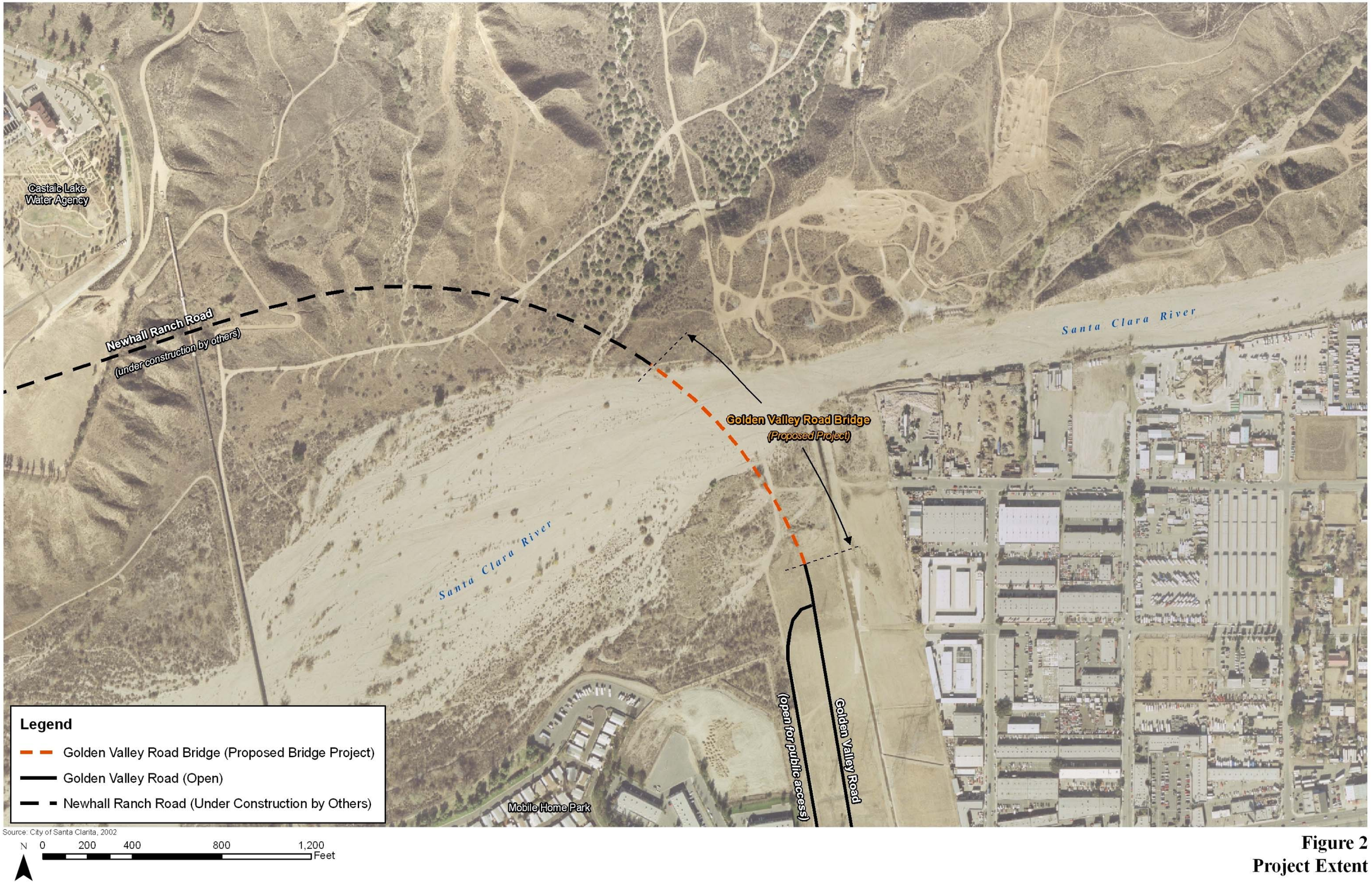

Figure 2
Project Extent

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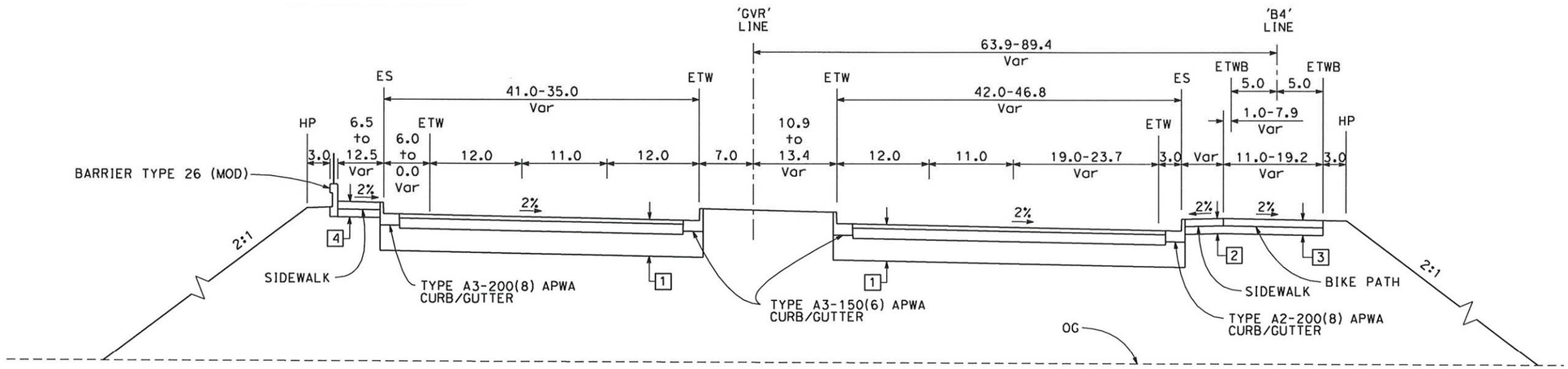
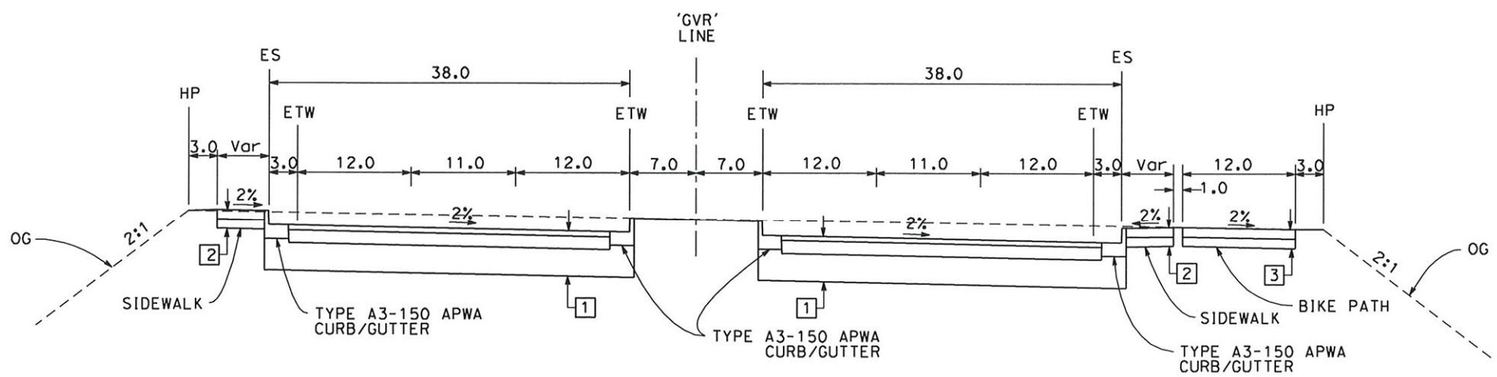


GOLDEN VALLEY ROAD

'GVR' 117+00.00 to 118+24.37



GOLDEN VALLEY ROAD

'GVR' XXX+00.00 to 105+39.82

Figure 3
Typical Sections

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3. HAZARDS IDENTIFICATION EFFORTS

Initial investigations for this project began with a thorough search of government record checks and historical property data obtained from Environmental Data Resources (EDR). As noted earlier, the ISA prepared by Dokken was also consulted in preparation of this report. A new database search was completed by EDR to supplement existing information in the Dokken report. An agency records search identifies business types located within the project study area that would be likely to store, transfer, or utilize large quantities of hazardous materials, while searching property records enables determination of historical and current land use for the site.

Table 1 shows the environmental regulatory databases that were reviewed for the project site, as well as adjacent and nearby properties, and provided in the EDR report. A copy of the EDR Radius Map report is provided as Exhibit A. Tables 2 and 3 list the American Society for Testing and Materials (ASTM) standards at the Federal and State levels, respectively

Table 1
Databases Reviewed

Database Reviewed	Responsible Agency	Search Radius (miles)
Federal ASTM Standard Databases		
Federal Comprehensive Environmental Response, Compensation & Liability Information System (CERCLIS)	U.S. Environmental Protection Agency (EPA)	0.5
Federal Corrective Action Report (CORRACTS)	U.S. EPA	1.0
Federal Resource Conservation and Recovery Act (RCRA) Info	U.S. EPA	0.25 - 0.5
State of California ASTM Standard and State/Local ASTM Supplemental Databases		
Annual Work Plan (AWP) Sites	California Environmental Protection Agency (CalEPA)	1.0
CalSites	CalEPA Department of Toxic Substances Control (DTSC)	1.0
State No Further Action Properties (NFA)	CalEPA DTSC	0.25
Cortese List (Combined Report List for Leaking USTs, Solid Waste Landfills [SWLs] and CalSites; inactive;	CalEPA and Office of Emergency Services	0.5
Leaking Underground Storage Tanks (LUSTs)	State Water Resources Control Board (SWRCB) and Regional Water Quality Control Board (RWQCB)	0.5
Historical Underground Storage Tanks (UST)	State Water Resources Control Board (SWRCB)	0.25
Statewide Environmental Evaluation and Planning System (SWEEPS)[1]		0.25

[1] Not updated or maintained since 1994

Table 2
Federal ASTM Standard

Agency	List	Findings <1/8 mile	Findings 1/8 -1/4 mile	Findings 1/4 -1/2 mile	Findings 1/2 – 1 mile
U.S. EPA[1]	CERCLIS	0	1	0	0
U.S. EPA	CORRACTS	0	1	0	1
U.S. EPA	RCRAInfo	0	1	0	0

Table 3
State ASTM Standard

Agency	List	Findings <1/8 mile	Findings 1/8 -1/4 mile	Findings 1/4 -1/2 mile	Findings 1/2 – 1 mile
CalEPA	AWP	0	1	0	0
DTSC[2]	CalSites	0	1	0	0
DTSC	NFA	0	1	0	0
U.S. EPA	CORTESE	0	3	0	0
SWRCB[3]	LUST	0	1	0	0
SWRCB	HIST UST	0	1	0	0
SWRCB	SWEEPS UST	0	2	0	0

[1] Environmental Protection Agency
[2] Department of Toxic Substances Control
[3] State Water Resources Control Board

4. HAZARDOUS MATERIALS IDENTIFIED

The following nearby sites were found within the search radii noted below.

Within ¼ mile of project limits:

A total of 13 Federal or State ASTM Standard sites were listed within ¼ mile of the project limits. The Whittaker Bermite site, which accounts for 12 citations, appears in the following 10 databases:

- CERCLIS
- CORRACTS
- RCRAInfo
- AWP
- CAL-SITES
- NFA
- CORTESE
- LUST
- HIST LUST
- SWEEPS[2]

The site was listed more than once on the CORTESE database as several public drinking water wells on the site were found to contain contaminants. The Saugus Union School District (22211 Newhall Ranch Road) was the other listed site, which was included in the SWEEPS UST database.

¼ to ½ mile of project limits:

The database search identified no Federal or State ASTM Standard sites within ¼ to ½ mile of the project limits.

½ to 1 mile from project limits:

There is one listed site within ½ to 1 mile of the project site: American Cyanamid, which is listed in the CORRACTS database.

The following describes the listings identified on database lists in greater detail.

1. <u>American Cyanamid (21444 Golden Triangle Road)</u>
   According to the EDR database, the facility is identified on the CERCLIS-NFRAP (No Further Remedial Action Planned) list. Sites that qualify as NFRAP sites include: sites where no contamination was found following an initial investigation; sites where contamination was removed quickly enough for it to not be placed on the NPL (National Priority List); or sites where contamination was found but was not serious enough to require NPL or Federal Superfund Action consideration. Since the American Cyanamid site is on the CERCLIS-NFRAP list, it is not considered to be a potential concern.

   This site was also included on the RCRA CORRACTS (Corrective Action Sites) list, which includes sites where contamination has been found and remediation is underway. According to the CORRACTS database, this facility was assigned a low corrective action priority on September 15, 1991. The RCRAInfo database

[2] Not updated or maintained since 1994

indicates that the site achieved compliance with all federal actions on March 8, 1994. The Simply Discount Furniture store has occupied the site since 1995.[3]

2. Bermite Division of Whittaker (22116 West Soledad Canyon)

Part of the Bermite site is in purchase offer with the City, who plan to construct a commuter railroad station. The site was owned by the Halifax Powder Company when it opened in 1906, and was later sold to the Bermite Corporation in the 1930s. The property was purchased from Bermite by Whittaker Corporation in 1967. The facility closed twenty years later in 1987. This site was the location of the manufacturing of fireworks, explosives, rockets and munitions.[4] The Whittaker Bermite site is currently listed on 10 different agency lists.

The historical database search indicates that portions of this site were used as on-site disposal and storage for hazardous waste. There have also been some accidental explosions on the site. According to the EDR report, Martin Industrial Plumbing used this site for storage of hazardous waste containers, dumpsters, and tanker-tractor trailers. The site is listed as an active California Environmental Protection Agency Annual Worklplan (AWP) site, and was also assigned a high corrective action priority according to the RCRA CORRACTS database on June 9, 1998.

The EDR report indicates that the Whittaker Bermite site is contaminated with Ammonium Perchlorate (Perchlorate). Perchlorate is a widely used inorganic chemical in the manufacture of fireworks, explosives and rocket propellants. This chemical is known to inhibit the thyroid gland to produce thyroid hormones, which are critical to the normal development of the central nervous system in fetuses and infants.[5] As indicated in the Dokken report, several sections of the site have undergone soil mediation cleanup, which has allowed those portions of the site to be used for municipal purposes, including a new Metrolink station and a school.[6]

In order to assess the risk that the Bermite site may have to the original Cross Valley Connector East, Dokken consulted the "Eastern Santa Clara Subbasin Groundwater study Conceptual Hydrogeology Technical Memorandum" prepared by CH2MHill for the U.S. Army Corps of Engineers. Dokken also consulted a website[7] that provides extensive information related to the clean-up of the site. These studies present the extent and potential treatment of groundwater contamination, and show that the observed level of perchlorate contamination lessens with the distance from the Bermite site. The studies also indicate that contamination levels decrease at a faster rate north of the site[8], which is where the proposed Golden Valley Road bridge project would be located.

[3] Jason M. Lemons P.E. (Dokken Engineering), "Initial Site Assessment for the Cross Valley Connector East Project", page 10. Prepared November 23, 2005.
[4] Jason M. Lemons P.E. (Dokken Engineering), "Initial Site Assessment for the Cross Valley Connector East Project", page 10. Prepared November 23, 2005.
[5] Jason M. Lemons P.E. (Dokken Engineering), "Initial Site Assessment for the Cross Valley Connector East Project", page 10. Prepared November 23, 2005.
[6] Jason M. Lemons P.E. (Dokken Engineering), "Initial Site Assessment for the Cross Valley Connector East Project", page 10. Prepared November 23, 2005.
[7] http://www.bermite.com. Whittaker Bermite Clean-Up.
[8] Jason M. Lemons P.E. (Dokken Engineering), "Initial Site Assessment for the Cross Valley Connector East Project", page 10. Prepared November 23, 2005.

The Dokken report considered the Whittaker Bermite site to be an Area of Potential Concern, and offers the following recommendation:

> "The Whittaker Bermite site is considered to be an Area of Potential Concern. Though low, there is the potential of encountering contaminated groundwater when constructing the Golden Valley Road bridge. If groundwater is encountered during construction, the Department of Toxic Substances Control (DTSC) should be notified and the water should be tested for contamination. It is recommended that construction techniques that minimize or eliminate the need for groundwater extraction be applied to the design of the bridge. It is further recommended that the groundwater and soils in proximity to the proposed bridge structure be tested for (perchlorate) contamination during the final design of the project."[9]

Given the applicability of this statement to the Golden Valley Road bridge, this hazardous materials study for the Golden Valley Road Bridge Project likewise recommends inclusion of this mitigation measure into the project. Additionally, should groundwater be encountered during construction, a dewatering permit shall be obtained from the RWQCB.

[9] Jason M. Lemons P.E. (Dokken Engineering), "Initial Site Assessment for the Cross Valley Connector East Project", page 10. Prepared November 23, 2005.

5. DOCUMENTATION TO SUPPORT FINDINGS

The following exhibits include the EDR Report and the Initial Site Assessment (ISA) for the Cross Valley Connector prepared by Dokken, both of which have been referenced in this report.

Exhibit 1: EDR Radius Map report
Exhibit 2: Dokken Engineering (Jason W. Lemons, P.E.), "Initial Site Assessment for the Cross Valley Connector". Prepared November 23, 2005.

EXHIBIT 1: EDR REPORT

The EDR Radius Map
with GeoCheck®

Newhall Ranch Road/Soledad Canyon Road
Newhall Ranch Rd/Soledad Canyon Rd
Santa Clarita, CA 91350

Inquiry Number: 1685770.1s

May 30, 2006

EDR® Environmental Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

NEWHALL RANCH RD/SOLEDAD CANYON RD
SANTA CLARITA, CA 91350

COORDINATES

Latitude (North):	34.418200 - 34˚ 25' 5.5''
Longitude (West):	118.524700 - 118˚ 31' 28.9''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	359881.8
UTM Y (Meters):	3809385.0
Elevation:	1199 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	34118-D5 NEWHALL, CA
Most Recent Revision:	1988

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:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
RCRA-LQG..... Resource Conservation and Recovery Act Information
ERNS..... Emergency Response Notification System
HMIRS..... Hazardous Materials Information Reporting System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

EXECUTIVE SUMMARY

DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

CA BOND EXP. PLAN	Bond Expenditure Plan
NFE	Properties Needing Further Evaluation
REF	Unconfirmed Properties Referred to Another Agency
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler Database
CA FID UST	Facility Inventory Database
SLIC	Statewide SLIC Cases
AOCONCERN	San Gabriel Valley Areas of Concern
UST	Active UST Facilities
AST	Aboveground Petroleum Storage Tank Facilities
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
LA Co. Site Mitigation	Site Mitigation List
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
LOS ANGELES CO. HMS	HMS: Street Number List
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land
INDIAN UST	Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants	EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

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.

FEDERAL RECORDS

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 02/01/2006 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
BERMITE DIVISION	***22116 WEST SOLEDAD CANY***	***1/8 - 1/4 SSE***	***A3***	***10***

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/15/2006 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
BERMITE DIVISION	***22116 WEST SOLEDAD CANY***	***1/8 - 1/4 SSE***	***A3***	***10***
AMERICAN CYANAMID	***21444 GOLDEN TRIANGLE R***	***1/2 - 1 E***	***9***	***20***

RCRAInfo: 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. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). 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. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. 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.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/09/2006 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
BERMITE DIVISION	***22116 WEST SOLEDAD CANY***	***1/8 - 1/4 SSE***	***A3***	***10***

RCRAInfo: 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. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). 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. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/09/2006 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
BERMITE DIVISION	***22116 WEST SOLEDAD CANY***	***1/8 - 1/4 SSE***	***A3***	***10***

STATE AND LOCAL RECORDS

AWP: California DTSC's Annual Workplan, formerly known as BEP, identifies known hazardous substance sites targeted for cleanup. The source is the California Environmental Protection Agency.

A review of the AWP list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 AWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WHITTAKER/BERMITE FACILITY	***22116 SOLEDAD CANYON RD***	***1/8 - 1/4 SSE***	***A4***	***18***

CAL-SITES: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control.

A review of the Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 Cal-Sites site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WHITTAKER/BERMITE FACILITY	***22116 SOLEDAD CANYON RD***	***1/8 - 1/4 SSE***	***A4***	***18***

Facility Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE

EXECUTIVE SUMMARY

NFA: This category contains properties at which DTSC has made aclear determination that the property does not pose a problem to the environment or to public health.

A review of the NFA list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 NFA site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WHITTAKER BERMITE/RAIL STATION	22116 WEST SOLEDAD CANY	1/8 - 1/4 SSE	A2	7

CORTESE: This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, and dated 04/01/2001 has revealed that there are 3 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WHITTAKER/BERMITE FACILIT	22116 SOLEDAD CNYN	1/8 - 1/4 SSE	A5	19
BERMITE, DIVISION OF WHIT	22116 SOLEDAD CNYN	1/8 - 1/4 SSE	A6	19
WHITTAKER BERMITE/RAIL ST	22116 SOLEDAD CNYN	1/8 - 1/4 SSE	A7	19

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, and dated 04/10/2006 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
BERMITE DIVISION	***22116 WEST SOLEDAD CANY***	***1/8 - 1/4 SSE***	***A3***	***10***
Facility Status: Leak being confirmed				

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
BERMITE DIV-WHITTAKER	***22116 W SOLEDAD CANYON***	***1/8 - 1/4 SSE***	***A1***	***6***

SWEEPS: 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 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are

EXECUTIVE SUMMARY

2 SWEEPS UST sites within approximately 0.25 miles of the target property.

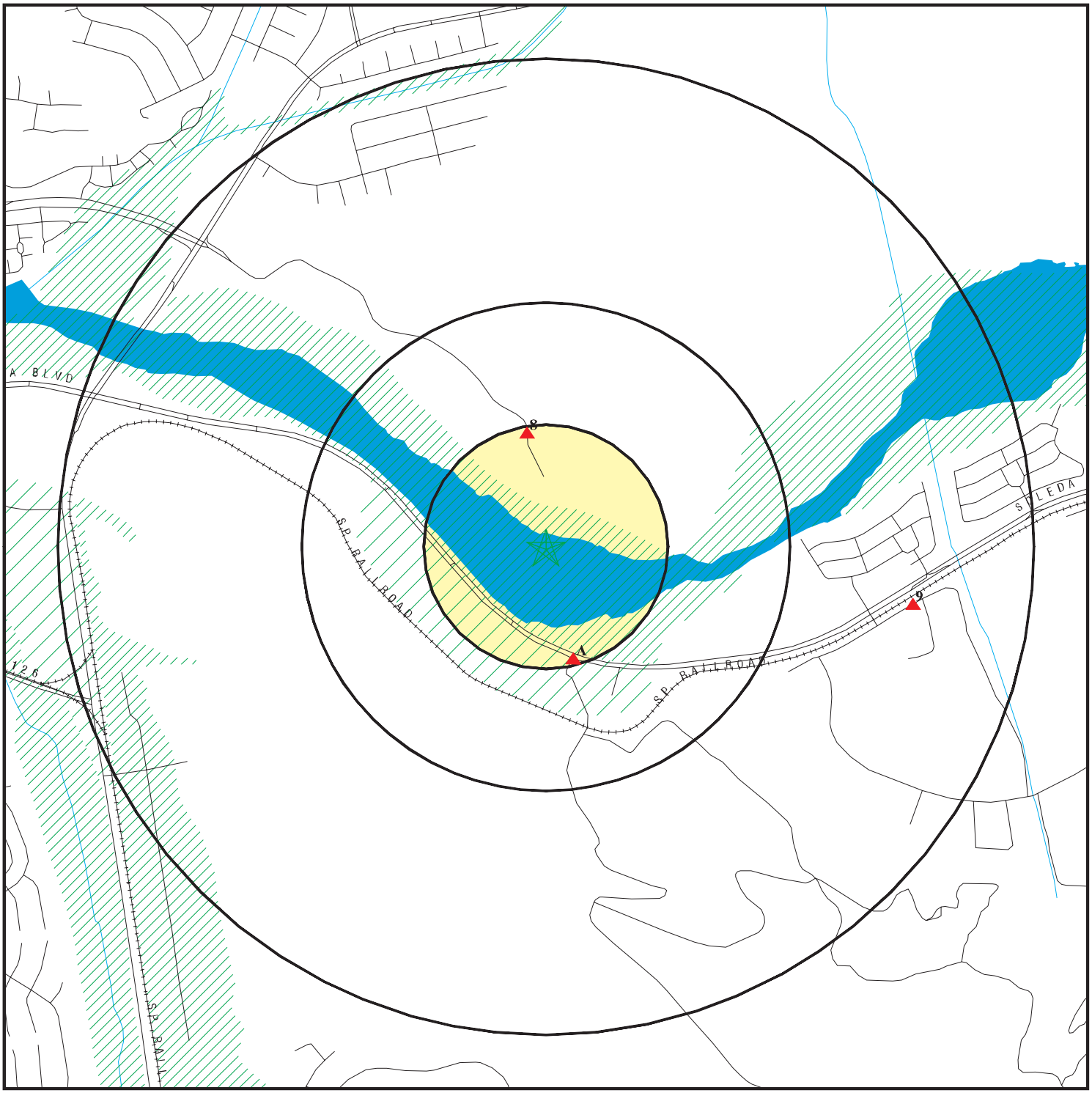
Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
BERMITE DIV-WHITTAKER	***22116 W SOLEDAD CANYON***	***1/8 - 1/4 SSE***	***A1***	***6***
SAUGUS UNION SCHOOL DISTRICT	22211 NEWHALL RANCH RD	1/8 - 1/4 N	8	20

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
LA CO FD FIRE STA #081	SWEEPS UST
2 / 3 MI DUE SOUTH NEWPORT	HAZNET, LUST, CHMIRS
SOS - PLACERITA CANYON	Cortese
USDA FS ANGELES NATIONAL FOREST	RCRA-SQG, FINDS, CERC-NFRAP
LA COUNTY DPW	LUST
USA PETROLEUM COMPANY #82	HIST UST
LA COUNTY FIRE DEPT STATION 81	AST
NEWHALL LAND FARMING WELL 156	AST
NEWHALL LAND & FARMING WELL B8	AST
DWP DRY CANYON	HAZNET
BOUQUET CANYON VILLAGE INC	HAZNET
PLUM CANYON ELEMENTARY	FINDS
DOCKWEILER PROPERTY	SLIC
GOLDEN VALLEY ROAD GOLDEN VALLEY R	SLIC
PLACERITA CANYON OIL FIELD - YORK	SLIC
PLACERITA CANYON OIL FIELD PROPERT	SLIC
CANYON ENGINEERING PROD	LOS ANGELES CO. HMS
CANYON R&G AUTO REPAIR	LOS ANGELES CO. HMS
CANYON RADIATOR	LOS ANGELES CO. HMS
CANYON R&G AUTO REPAIR	LOS ANGELES CO. HMS
SAND CANYON MOBIL SERVICE	LOS ANGELES CO. HMS
RYE CANYON OFFICE PARTNERS	LOS ANGELES CO. HMS
NEWHALL OIL FIELD	LOS ANGELES CO. HMS
RYE CANYON GATEWAY PLAZA, LLC	LOS ANGELES CO. HMS
RYE CANYON GATEWAY PLAZA, INC	LOS ANGELES CO. HMS
RYE CANYON GATEWAY PLAZA, INC	LOS ANGELES CO. HMS
RYE CANYON GATEWAY PLAZA, INC	LOS ANGELES CO. HMS
RYE CANYON GATEWAY PLAZA, INC	LOS ANGELES CO. HMS
RYE CANYON GATEWAY PLAZA, INC	LOS ANGELES CO. HMS
RYE CANYON GATEWAY PLAZA, LLC	LOS ANGELES CO. HMS
CANYON AUTO ELECTRIC	LOS ANGELES CO. HMS
RAILROAD CANYON DISP SIT	LOS ANGELES CO. HMS
CANYON AUTO CARE	LOS ANGELES CO. HMS
CANYON MOTORS INC.	LOS ANGELES CO. HMS
SAND CANYON UNION	LOS ANGELES CO. HMS
NEWHALL LAND & FARMING CO	LOS ANGELES CO. HMS
NEWHALL LAND & FARMING CO	LOS ANGELES CO. HMS
NEWHALL LAND & FARMING/BLDG D&E	LOS ANGELES CO. HMS
NEWHALL LAND & FARMING CO	LOS ANGELES CO. HMS
NEWHALL LAND & FARMING CO	LOS ANGELES CO. HMS
PLUM CANYON DEVELOPMENT	ICIS

OVERVIEW MAP - 1685770.1s



- 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
- Landfill Sites
- Dept. Defense Sites

0 1/4 1/2 1 Miles

- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

N

SITE NAME: Newhall Ranch Road/Soledad Canyon Road ADDRESS: Newhall Ranch Rd/Soledad Canyon Rd Santa Clarita CA 91350 LAT/LONG: 34.4182 / 118.5247	CLIENT: Edaw Inc. CONTACT: Priya Mehendale INQUIRY #: 1685770.1s DATE: May 30, 2006

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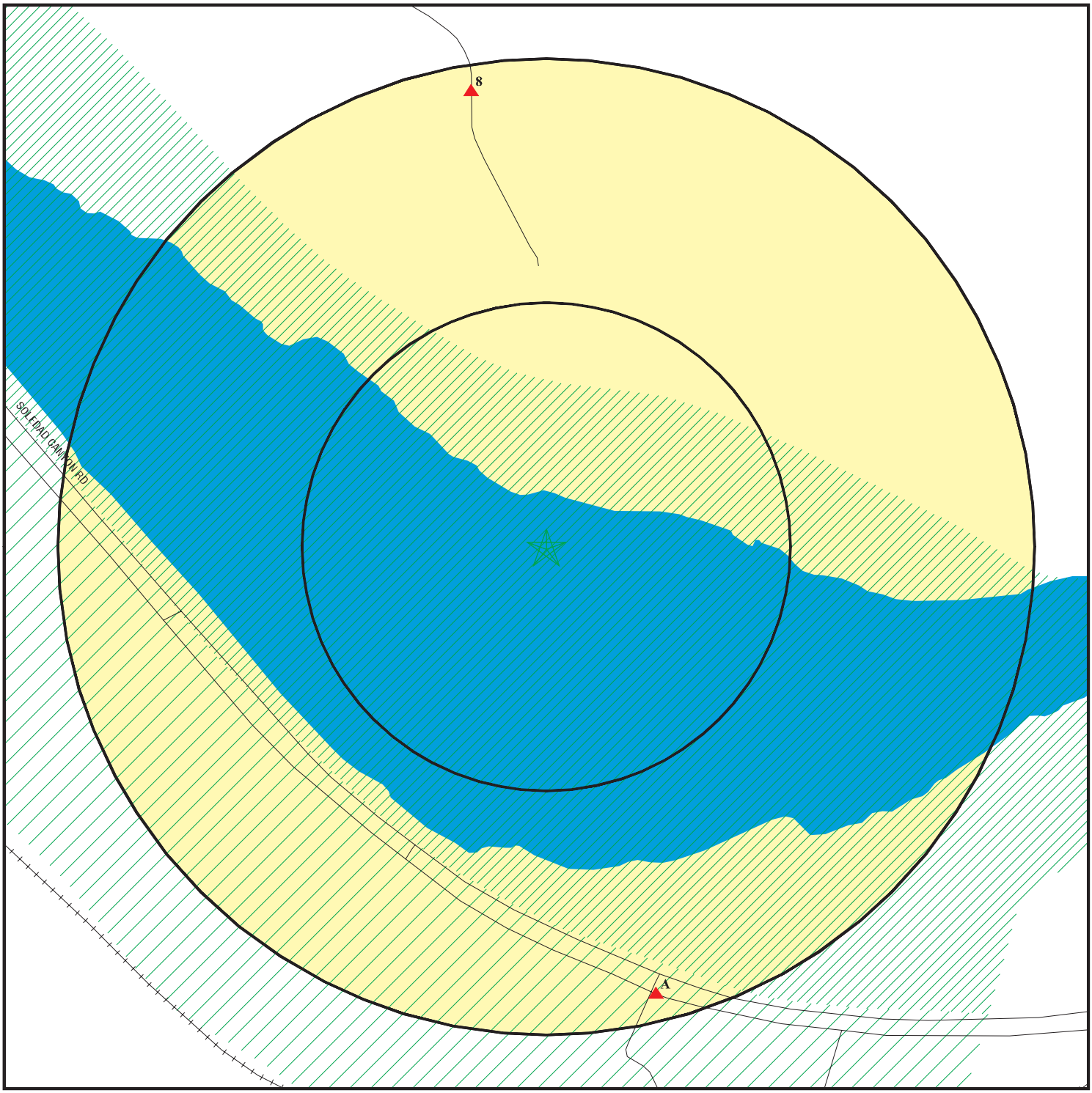
DETAIL MAP - 1685770.1s



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

SITE NAME: Newhall Ranch Road/Soledad Canyon Road	CLIENT: Edaw Inc.
ADDRESS: Newhall Ranch Rd/Soledad Canyon Rd Santa Clarita CA 91350	CONTACT: Priya Mehendale INQUIRY #: 1685770.1s
LAT/LONG: 34.4182 / 118.5247	DATE: May 30, 2006

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL RECORDS								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	1	0	NR	NR	1
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	1	0	1	NR	2
RCRA TSD		0.500	0	1	0	NR	NR	1
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	1	NR	NR	NR	1
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	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
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
STATE AND LOCAL RECORDS								
AWP		1.000	0	1	0	0	NR	1
Cal-Sites		1.000	0	1	0	0	NR	1
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
NFA		0.250	0	1	NR	NR	NR	1
NFE		0.250	0	0	NR	NR	NR	0
REF		0.250	0	0	NR	NR	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS		TP	NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	3	0	NR	NR	3
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	1	0	NR	NR	1

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	0	NR	NR	0
AOCONCERN		1.000	0	0	0	0	NR	0
UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	1	NR	NR	NR	1
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	2	NR	NR	NR	2
CHMIRS		TP	NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
LA Co. Site Mitigation		TP	NR	NR	NR	NR	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
Los Angeles Co. HMS		TP	NR	NR	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
HAZNET		TP	NR	NR	NR	NR	NR	0
EMI		TP	NR	NR	NR	NR	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
SSE
1/8-1/4
1242 ft.

Relative:
Higher

Actual:
1206 ft.

BERMITE DIV-WHITTAKER
22116 W SOLEDAD CANYON RD
SANTA CLARITA, CA 91350

LOS ANGELES CO. HMS
HIST UST
SWEEPS UST

U001567688
N/A

Site 1 of 7 in cluster A

HMS:

Facility Id:	000930-028916		
Region:	LA		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	Not reported	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

Facility Id:	000930-000975		
Region:	LA		
Area:	7A		
Facility Type:	T0		
Permit Number:	00001581T	Permit Status:	Removed
Facility Status:	Removed		
Region:	Los Angeles County:		

Facility Id:	000930-I00975		
Region:	LA		
Area:	7A		
Facility Type:	I09		
Permit Number:	000008494	Permit Status:	Closed
Facility Status:	Permit		
Region:	Los Angeles County:		

UST HIST:

Facility ID:	6423	Owner Name:	BERMITE DIVISION OF WHITTAKER
Total Tanks:	4	Region:	STATE
Owner Address:	22116 W SOLEDAD CANYON RD SAUGUS, CA 91350		
Tank Used for:	WASTE		
Tank Num:	1	Container Num:	004
Tank Capacity:	00001000	Year Installed:	1982
Type of Fuel:	Not reported	Tank Construction:	6" inches
Leak Detection:	Visual, None		
Contact Name:	Not reported	Telephone:	(805) 259-2241
Facility Type:	Other	Other Type:	MFG.

Facility ID:	6423	Owner Name:	BERMITE DIVISION OF WHITTAKER
Total Tanks:	4	Region:	STATE
Owner Address:	22116 W SOLEDAD CANYON RD SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	001
Tank Capacity:	00002000	Year Installed:	Not reported
Type of Fuel:	REGULAR	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor, None		
Contact Name:	Not reported	Telephone:	(805) 259-2241
Facility Type:	Other	Other Type:	MFG.

Facility ID:	6423	Owner Name:	BERMITE DIVISION OF WHITTAKER
Total Tanks:	4	Region:	STATE
Owner Address:	22116 W SOLEDAD CANYON RD SAUGUS, CA 91350		

BERMITE DIV-WHITTAKER (Continued) **U001567688**

Tank Used for:	PRODUCT		
Tank Num:	3	Container Num:	003
Tank Capacity:	00001000	Year Installed:	Not reported
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor, None		
Contact Name:	Not reported	Telephone:	(805) 259-2241
Facility Type:	Other	Other Type:	MFG.

Facility ID:	6423	Owner Name:	BERMITE DIVISION OF WHITTAKER
Total Tanks:	4	Region:	STATE
Owner Address:	22116 W SOLEDAD CANYON RD SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	4	Container Num:	002
Tank Capacity:	00002000	Year Installed:	1975
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor, None		
Contact Name:	Not reported	Telephone:	(805) 259-2241
Facility Type:	Other	Other Type:	MFG.

SWEEPS:

Status :	A
Comp Number :	975
Number :	9
Board Of Equalization :	Not reported
Ref Date :	06-30-89
Act Date :	Not reported
Created Date :	06-30-89
Tank Status :	A
Owner Tank Id :	Not reported
Swrcb Tank Id :	19-000-000975-000001
Actv Date :	06-30-89
Capacity :	Not reported
Tank Use :	UNKNOWN
Stg :	W
Content :	Not reported
Number Of Tanks :	1

A2 **WHITTAKER BERMITE/RAIL STATION - SITE A** **NFA** **S101480673**
SSE **22116 WEST SOLEDAD CANYON ROAD** **N/A**
1/8-1/4 **SANTA CLARITA, CA 91350**
1242 ft.

Site 2 of 7 in cluster A

Relative:
Higher

Actual:
1206 ft.

NFA:

Facility ID	19281203
Dtsc Region Code :	3
Region Code Definition :	GLENDALE
County Code :	19
Site Name Under :	Not reported
Current Status Date :	10251994
Current Status Code :	NFA
Current Status :	NO FURTHER ACTION FOR DTSC
Lead Agency Code :	DTSC
Lead Agency :	DEPT OF TOXIC SUBSTANCES CONTROL
Site Type Code :	RP
Site Type :	RESPONSIBLE PARTY
National Priorities List :	N
Tier :	Not reported

WHITTAKER BERMITE/RAIL STATION - SITE A (Continued) **S101480673**

Source Of Funding Code :	Not reported
Staff Member :	TCOTA
Supervisor :	Not reported
Sic Code :	28
Sic Code Definition :	MANU - CHEMICALS & ALLIED PRODUCTS
Site Mitigatn & Brnflds Reuse Prog (SMBR) Code :	SA
SMBR Branch :	SO CAL - GLENDALE
Regional Water Quality Control Board :	LA
RWQCB Definition :	LOS ANGELES
Site Access Controlled :	Not reported
Listed In Haz Wst & Substncs Sites List (CORTESE):	Not reported
Date Hazard Ranked :	Not reported
GW Contamination Suspected :	Not reported
# Of Sources Contributing To Contamination :	0
Lat/Long :	0˚ 0´ 0˝ / 0˚ 0´ 0˝
Direction Lat :	Not reported
Direction Long :	Not reported
Lat/long Method :	Not reported
Entity Lat/long Coordinates Refer To :	Not reported
State Assembly Distt Code :	38
State Senate Distt Code :	17
Identifying Code:	SITES
ID Value:	19281087
Other ID Desc:	CALSITES ID NUMBER
Alternate Name(s):	SANTA CLARITA COMMUTER RAIL STATION
Alternate Name(s):	BERMITE DIVISION OF WHITTAKER CORP
Alternate Name(s):	WHITTAKER CORPORATION
Alternate Name(s):	WHITTAKER BERMITE/RAIL STATION - SITE A
Address(es) :	22116 WEST SOLEDAD CANYON ROAD SANTA CLARITA, CA 91350
Address(es) :	22116 WEST SOLEDAD CANYON ROAD SAUGUS, CA 91350
Address(es) :	10.3-ACRE PARCEL AT SOLEDAD CYN PROPERTY SANTA CLARITA, CA 91350
Background Info :	This site is identified as a 10/3 acre Santa Clarity Commuter Rail Station Site. It comprises of a very small portion of the Whittaker Bermite RCRA facility.
Facility Id :	19281203
AWP Activities Code :	1
DTSC Site Activity Code :	SS
Activity Code Def:	SITE SCREENING
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	05111992
Est # Of Person-years To Complete :	0
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0
Gallons Of Liquid Removed Upon Completion :	0
Cubic Yards Of Solids Treated Upon Completion :	0
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19281203
AWP Activities Code :	2
DTSC Site Activity Code :	PEA
Activity Code Def:	PRELIMINARY ENDANGERMENT ASSESSMENT

WHITTAKER BERMITE/RAIL STATION - SITE A (Continued) **S101480673**

AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	04301993
Est # Of Person-years To Complete :	0
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0
Gallons Of Liquid Removed Upon Completion :	0
Cubic Yards Of Solids Treated Upon Completion :	0
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19281203
AWP Activities Code :	3
DTSC Site Activity Code :	SS
Activity Code Def:	SITE SCREENING
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	10251994
Est # Of Person-years To Complete :	0
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0
Gallons Of Liquid Removed Upon Completion :	0
Cubic Yards Of Solids Treated Upon Completion :	0
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Special Program Code:	Not reported
Special Program :	Not reported
Comments Date :	05041993

Comments :

After review of a PEA and supplemental information, the Department concurred with the NFA recommendation. The site is identified as a 10.3 acre Santa Clarita Commuter Rail Statio site. It comprises a very small portion of the Whittaker Bermite RCRA facility. The subject site did not house any of the RCRA units.
The site composed of 976 acres and 23 acres out of it is in a perchase offer with the city of Santa Clarita for the construction of commuter rail road station. 10.3 acres of this 23 acres property is discussed under Site A. The Halifax Powder Company opened the facility in 1906 which was purchased by the Bermite Corp in 1930s. Whittaker Corp purchased the property from Bermite in 1967. The facility was closed in 1987. The buildings have been demolished and the facility is currently not operated. The explosives manufacturing plant at the Bermite Facility operated between 1906 and 1987. At the time of closure in 1987, 14 RCRA Unit with ISD Permits had operated at the site. A history of on-site disposal and accidental explosion had occurred at the site. The 10.3 acre parcel was used as a storage area in the past. The site is listed on cortese. Also, listed on RWQCB's LUST. Martin Industrial Plumbing used the site for storage of Haz Waste containers, drumpsters, and tanker-tracter trailers. Stained areas were noted on the property. A PEA is required due to the evidence onsite contamination.
Database verification project confirms NFA for DTSC.

A3 SSE 1/8-1/4 1242 ft.

Relative: Higher

Actual: 1206 ft.

BERMITE DIVISION
22116 WEST SOLEDAD CANYON ROAD
SAUGUS, CA 91350

Site 3 of 7 in cluster A

CERCLIS **1000421644**
RCRA-SQG **CAD064573108**
FINDS
LUST
RCRA-TSDF
RAATS
CORRACTS
NY MANIFEST

CERCLIS Classification Data:
Federal Facility: Not a Federal Facility
Non NPL Status: PA Start Needed
NPL Status: Not on the NPL
Contact: Jere Johnson Contact Tel: (415) 972-3094
Contact Title: Not reported
CERCLIS Assessment History:
Assessment: RCRA FACILITY ASSESSMENT Completed: 09/18/1987
CERCLIS Site Status:
Not reported

CORRACTS Data:

EPA Id: CAD064573108
Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 03/08/1993
Corrective Action: CA225IN - Stabilization Measures Evaluation, This facility is not , amenable to stabilization activity because of, a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available
2002 NAICS Title: Not reported

EPA Id: CAD064573108
Region: 09
Area Name: AREA 34
Actual Date: 06/01/1996
Corrective Action: CA650 - Stabilization Construction Completed
2002 NAICS Title: Not reported

EPA Id: CAD064573108
Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 06/09/1998
Corrective Action: CA750NO - Migration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected
2002 NAICS Title: Not reported

EPA Id: CAD064573108
Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 06/09/1998
Corrective Action: CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority
2002 NAICS Title: Not reported

EPA Id: CAD064573108
Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 06/09/1998

BERMITE DIVISION (Continued) **1000421644**

Corrective Action: CA725IN - Current Human Exposures Under Control , More information is needed to make a determination
2002 NAICS Title: Not reported

Click this hyperlink while viewing on your computer to access
3 additional CORRACTS record(s) in the EDR Site Report.

RCRAInfo Corrective Action Summary:

Event: CA Prioritization, Facility or area was assigned a high corrective action priority.
Event Date: 06/09/1998

Event: Current Human Exposures under Control, More information is needed to make a determination.
Event Date: 06/09/1998

Event: Igration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected.
Event Date: 06/09/1998

Event: Stabilization Construction Completed
Event Date: 06/01/1996

Event: RFI Imposition
Event Date: 11/21/1994

Event: Stabilization Measures Implemented, Primary measure is source removal and/or treatment (e.g., soil or waste excavation, in-situ soil treatment, off-site treatment).
Event Date: 11/21/1994

Event: Stabilization Measures Evaluation,This facility is not amenable to stabilization activity because of a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available.
Event Date: 03/08/1993

Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.
Event Date: 08/06/1992

RCRAInfo:

Owner: WHITTAKER BERMITE CORP
(213) 475-9411
EPA ID: CAD064573108

Contact: Not reported

Classification: TSDF
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 10/06/2004
Actual Date Achieved Compliance: 01/12/2005

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 10/07/2004
Penalty Type: Not reported

Regulation Violated: Not reported

BERMITE DIVISION (Continued) **1000421644**

Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 05/01/2003
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 05/01/2003
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 03/26/2001
Actual Date Achieved Compliance: 06/03/2004

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/28/2001
Penalty Type: Proposed Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 06/14/2004
Penalty Type: Proposed Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 06/14/2004
Penalty Type: Proposed Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 03/26/2001
Actual Date Achieved Compliance: 06/03/2004

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/28/2001
Penalty Type: Proposed Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 06/14/2004
Penalty Type: Proposed Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 06/14/2004
Penalty Type: Proposed Monetary Penalty

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 03/26/2001
Actual Date Achieved Compliance: 06/03/2004

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/28/2001
Penalty Type: Not reported

Regulation Violated: 264.140-150.H
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 11/21/1991
Actual Date Achieved Compliance: 11/21/1996

Regulation Violated: 270
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 04/26/1991
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/28/1991
Penalty Type: Not reported

BERMITE DIVISION (Continued) **1000421644**

Regulation Violated: 264.90-94.F
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 06/25/1990
Actual Date Achieved Compliance: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/30/1990
Penalty Type: Not reported

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 01/16/1991
Penalty Type: Not reported

Regulation Violated: 270
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 04/27/1989
Actual Date Achieved Compliance: 08/25/1989

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/08/1989
Penalty Type: Not reported

Regulation Violated: 264.140-150.H
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 06/07/1988
Actual Date Achieved Compliance: 05/02/1989

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 11/28/1988
Penalty Type: Not reported

Regulation Violated: 264.90-94.F
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 06/25/1985
Actual Date Achieved Compliance: 12/31/1989

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 06/03/1986
Penalty Type: Proposed Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 06/04/1986
Penalty Type: Proposed Monetary Penalty

Regulation Violated: 264.140-150.H
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 06/25/1985
Actual Date Achieved Compliance: 07/02/1986

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 06/03/1986
Penalty Type: Proposed Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 06/04/1986
Penalty Type: Proposed Monetary Penalty

Regulation Violated: 264.110-120.G
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 06/25/1985
Actual Date Achieved Compliance: 08/16/1986

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 06/03/1986

BERMITE DIVISION (Continued) **1000421644**

Penalty Type: Proposed Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 06/04/1986
Penalty Type: Proposed Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 08/26/1986
Penalty Type: Proposed Monetary Penalty

Regulation Violated: 264.110-120.G
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 06/25/1985
Actual Date Achieved Compliance: 08/16/1986

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 06/03/1986
Penalty Type: Proposed Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 06/04/1986
Penalty Type: Proposed Monetary Penalty

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 08/26/1986
Penalty Type: Proposed Monetary Penalty

There are 14 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20050112
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	
Compliance GW Monitoring Evaluation	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	20040603
	TSD-GOUNDWATER MONITORING REQUIREMENTS	20040603
	TSD-GOUNDWATER MONITORING REQUIREMENTS	20040603
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19961121
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	
Compliance GW Monitoring Evaluation	TSD-GOUNDWATER MONITORING REQUIREMENTS	
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19890825
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19890502
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19891231
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19860816
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19860702
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19860816

FINDS:

Other Pertinent Environmental Activity Identified at Site:

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

California - Hazardous Waste Tracking System - Datamart

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.

State LUST:

Cross Street: SIERRA HWY
Qty Leaked: Not reported
Case Number R-00975

BERMITE DIVISION (Continued) **1000421644**

Reg Board: Los Angeles Region
Chemical: Diesel
Lead Agency: Local Agency
Local Agency : 19000
Case Type: Soil only
Status: Leak being confirmed
Review Date: 1986-01-02 00:00:00
Confirm Leak: 1986-01-02 00:00:00
Workplan: Not reported
Prelim Assess: Not reported
Pollution Char: Not reported
Remed Plan: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: Not reported
Release Date: 1986-01-02 00:00:00
Cleanup Fund Id : Not reported
Discover Date : 1986-01-02 00:00:00
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 1986-12-31 00:00:00
Funding: Not reported
Staff Initials: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Interim : Not reported
Leak Cause: Corrosion
Leak Source: Tank
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Not Required to be Tested.
Priority: Not reported
Local Case # : Not reported
Beneficial: Not reported
Staff : UNK
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SANTA CLARA RIVER VA
Operator : PEARSON, JOHN
Oversight Prgm: LUST
Review Date : 1987-08-25 00:00:00
Stop Date : 1986-01-02 00:00:00
Work Suspended :Not reported
Responsible PartyBERMITE, DIVISION OF WHITTIKER
RP Address: 22116 SOLEDAD CANYON, SAUGUS, CA 91350
Global Id: T0603704547
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 0
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported
Summary : OLD CASE #00170

LUST Region 4:
Report Date: 1/2/1986
Lead Agency: Local Agency

BERMITE DIVISION (Continued) **1000421644**

Local Agency:	19000
Substance:	Diesel
Case Type:	Soil
Status:	Leak being confirmed
Region:	4
Staff:	UNK
Date Case Last Changed on Database:	8/25/1987
Date Leak Record Entered:	12/31/1986
Historical Max MTBE Date:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil :	Not reported
County:	Los Angeles
Organization :	Not reported
Regional Board:	04
Owner Contact:	Not reported
Responsible Party:	BERMITE, DIVISION OF WHITTIKER
RP Address:	22116 SOLEDAD CANYON, SAUGUS, CA 91350
Significant Interim Remedial Action Taken:	Not reported
Program :	LUST
Lat / Long :	34.4154454 / -1
Local Agency Staff:	Not reported
Beneficial Use :	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	Not reported
Abatement Method Used at the Site:	Not reported
Operator :	PEARSON, JOHN
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	480.2548570628702790244296669 8
Assigned Name :	Not reported
W Global ID :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	1/2/1986
How the Leak was Discovered:	Tank Closure
How the Leak was Stopped:	Not reported
Cause of Leak:	Corrosion
Leak Source:	Tank
Date The Leak was Stopped:	1/2/1986
Date Confirmation Leak Began:	1/2/1986
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	Not reported
Enforcement Action Date:	Not reported
Date Leak First Reported:	1/2/1986
Enforcement Type:	Not reported
Global ID :	T0603704547
Cross Street:	SIERRA HWY
Summary :	OLD CASE #00170

BERMITE DIVISION (Continued) **1000421644**

NY MANIFEST:

Document ID:	NYA6326019
Manifest Status:	K
Trans1 State ID:	LETTER OF
Trans2 State ID:	PAYA44571
Generator Ship Date:	870415
Trans1 Recv Date:	870415
Trans2 Recv Date:	870420
TSD Site Recv Date:	870421
Part A Recv Date:	870512
Part B Recv Date:	870506
Generator EPA ID:	CAD064573108
Trans1 EPA ID:	MOD095038998
Trans2 EPA ID:	PAD980550479
TSDF ID:	NYD057770109
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00018
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	000
Waste Code:	Not reported
Quantity:	00002
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	000
Waste Code:	Not reported
Quantity:	00007
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	000
Waste Code:	Not reported
Quantity:	00007
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	000
Year:	87
Facility Type:	Generator
EPA ID:	CAD064573108
Facility Name:	BERMITE DIVISION-WHITTAKER CORPORATION
Facility Address:	22116 WEST SOLEDAD CYN ROAD
Facility City:	SAUGUA
Facility Zip 4:	Not reported
Country:	Not reported
County:	Not reported
Mailing Name:	BERMITE DIVISION-WHITTAKER CORPORATION
Mailing Contact:	Not reported
Mailing Address:	22116 WEST SOLEDAD CYN ROAD
Mailing City:	SAUGUS
Mailing State:	CA

BERMITE DIVISION (Continued) **1000421644**

Mailing Zip: 91350
Mailing Zip4: Not reported
Mailing Country: Not reported
Mailing Phone: 805-259-2241

Click this hyperlink while viewing on your computer to access
1 additional NY MANIFEST: record(s) in the EDR Site Report.

A4 **WHITTAKER/BERMITE FACILITY** **Cal-Sites** **S105689608**
SSE **22116 SOLEDAD CANYON RD** **AWP** **N/A**
1/8-1/4 **SAUGUS, CA 91350**
1242 ft.

Site 4 of 7 in cluster A

Relative: Higher

Actual: 1206 ft.

CAL-SITES:
Facility ID 19281087
Status: AWP - ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Date: 04/14/1995
Lead: DTSC
Region: 3 - GLENDALE
Branch: SA - SO CAL - GLENDALE
File Name: Not reported
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL Not reported
NPL: Not Listed
SIC: 28 MANU - CHEMICALS & ALLIED PRODUCTS
Facility Type: RP
Type Name: RESPONSIBLE PARTY
Staff Member Responsible for Site: JDIAZ
Supervisor Responsible for Site: Not reported
Region Water Control Board: LA - LOS ANGELES
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Not reported
No. of Contamination Sources: 0
Lat/Long: Not reported
Lat/long Method: Not reported
State Assembly District Code: 38
State Senate District: 17

Click this hyperlink while viewing on your computer to access
additional CAL-SITES detail in the EDR Site Report.

AWP Facility ID: 19281087
Facility Type: responsible party
Site Access Controlled : Not reported
Region Code : 3
Region : GLENDALE
SMBR Branch Unit: SO CAL - GLENDALE
SMBR Branch Code : SA
Site Name. : Not reported
Current Status Date : 19/95/0414
Current Status : ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code : DTSC
Lead Agency : DEPT OF TOXIC SUBSTANCES CONTROL
NPL : No

WHITTAKER/BERMITE FACILITY (Continued) **S105689608**

Tier Of AWP Site :	Not reported
Source Of Funding :	Not reported
Responsible Staff Member :	JDIAZ
Supervisor Responsible :	Not reported
Facility SIC :	MANU - CHEMICALS & ALLIED PRODUCTS
SIC Code :	28
RWQCB Associated With Site :	LOS ANGELES
RWQCB Code :	LA
Site Listed HWS List :	Not reported
Hazard Ranking Score :	Not reported
Date Site Hazard Ranked :	Not reported
Groundwater Contamination :	Not reported
# Of Contamination Sources :	0
Lat/long Method :	Not reported
Description Of Entity :	Not reported
State Assembly Distt Code :	38
State Senate District :	17
Lat/long :	0˚ 0´ 0˝ / 0˚ 0´ 0˝

A5
SSE
1/8-1/4
1245 ft.

WHITTAKER/BERMITE FACILIT **Cortese** **S105026558**
22116 SOLEDAD CNYN **N/A**
SAUGUS, CA 91350

Site 5 of 7 in cluster A

Relative:
Higher

CORTESE:

Region:	CORTESE
Fac Address 2:	Not reported

Actual:
1206 ft.

A6
SSE
1/8-1/4
1245 ft.

BERMITE, DIVISION OF WHIT **Cortese** **S105026557**
22116 SOLEDAD CNYN **N/A**
SAUGUS, CA 91350

Site 6 of 7 in cluster A

Relative:
Higher

CORTESE:

Region:	CORTESE
Fac Address 2:	Not reported

Actual:
1206 ft.

A7
SSE
1/8-1/4
1245 ft.

WHITTAKER BERMITE/RAIL ST **Cortese** **S105026559**
22116 SOLEDAD CNYN **N/A**
SAUGUS, CA 91350

Site 7 of 7 in cluster A

Relative:
Higher

CORTESE:

Region:	CORTESE
Fac Address 2:	Not reported

Actual:
1206 ft.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
8 **North** **1/8-1/4** **1251 ft.**	**SAUGUS UNION SCHOOL DISTRICT** **22211 NEWHALL RANCH RD** **SANTA CLARITA, CA**	**SWEEPS UST**	**S106931931** **N/A**

Relative:
Higher

Actual:
1200 ft.

SWEEPS:

Status :	A
Comp Number :	13065
Number :	9
Board Of Equalization :	Not reported
Ref Date :	06-30-89
Act Date :	Not reported
Created Date :	06-30-89
Tank Status :	Not reported
Owner Tank Id :	Not reported
Swrcb Tank Id :	Not reported
Actv Date :	Not reported
Capacity :	Not reported
Tank Use :	Not reported
Stg :	Not reported
Content :	Not reported
Number Of Tanks :	Not reported

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9 **East** **1/2-1** **4021 ft.**	**AMERICAN CYANAMID** **21444 GOLDEN TRIANGLE RD** **SAUGUS, CA 91350**	**FINDS** **HAZNET** **Cortese** **RCRA-LQG** **RCRA-TSDF** **CORRACTS** **CERC-NFRAP**	**1000360638** **CAT080010929**

Relative:
Higher

Actual:
1239 ft.

CERCLIS-NFRAP Classification Data:

Federal Facility:	Not a Federal Facility
Non NPL Code:	DR
NPL Status:	Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	04/01/1991
Assessment:	PRELIMINARY ASSESSMENT	Completed:	09/24/1991
Assessment:	ARCHIVE SITE	Completed:	01/23/1996

CORRACTS Data:

EPA Id:	CAT080010929
Region:	09
Area Name:	ENTIRE FACILITY
Actual Date:	09/15/1991
Corrective Action:	CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
2002 NAICS Title:	Fabric Coating Mills Fabric Coating Mills Plastics Material and Resin Manufacturing Adhesive Manufacturing

AMERICAN CYANAMID (Continued) **1000360638**

RCRAInfo Corrective Action Summary:
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.
Event Date: 09/15/1991

RCRAInfo:
Owner: AMERICAN CYANAMID COMPANY
(805) 259-1415
EPA ID: CAT080010929

Contact: RONALD S NORTON
(805) 259-1415

Classification: Large Quantity Generator, TSDF
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 04/29/1994
Actual Date Achieved Compliance: 06/08/1994

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/08/1994
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined: 04/29/1994
Actual Date Achieved Compliance: 06/08/1994

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/08/1994
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 04/29/1994
Actual Date Achieved Compliance: 06/08/1994

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/08/1994
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS
Date Violation Determined: 04/29/1994
Actual Date Achieved Compliance: 06/08/1994

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/08/1994
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 05/23/1990
Actual Date Achieved Compliance: 06/08/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/08/1990
Penalty Type: Not reported

Regulation Violated: Not reported

AMERICAN CYANAMID (Continued) **1000360638**

Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 05/23/1990
Actual Date Achieved Compliance: 06/08/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/08/1990
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS
Date Violation Determined: 05/23/1990
Actual Date Achieved Compliance: 06/08/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/08/1990
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-MANIFEST REQUIREMENTS
Date Violation Determined: 05/23/1990
Actual Date Achieved Compliance: 06/08/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/08/1990
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 07/20/1988
Actual Date Achieved Compliance: 06/08/1990

Regulation Violated: Not reported
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 07/20/1988
Actual Date Achieved Compliance: 06/08/1990

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS
Date Violation Determined: 07/20/1988
Actual Date Achieved Compliance: 12/06/1988

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/09/1988
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 07/14/1988
Actual Date Achieved Compliance: 11/02/1988

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 08/22/1988
Penalty Type: Not reported

There are 12 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19940608
	GENERATOR-GENERAL REQUIREMENTS	19940608
	TSD-GENERAL STANDARDS	19940608
	TSD-CONTINGENCY PLAN REQUREMENTS	19940608
Compliance Evaluation Inspection	TSD-LAND BAN REQUIREMENTS	19900608
	GENERATOR-LAND BAN REQUIREMENTS	19900608

AMERICAN CYANAMID (Continued) **1000360638**

	TSD-OTHER REQUIREMENTS	19900608
	TSD-MANIFEST REQUIREMENTS	19900608
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS	19881206
Other Evaluation	TSD-LAND BAN REQUIREMENTS	19900608
	GENERATOR-LAND BAN REQUIREMENTS	19900608
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19881102

FINDS:

Other Pertinent Environmental Activity Identified at Site:

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs). 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. TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

HAZNET:

Gepaid: CAT080010929
TSD EPA ID: CAD008302903
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 4.5453
Facility Address 2: Not reported
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: AMERICAN CYANAMID COMPANY
Telephone: (000) 000-0000
Mailing Name: Not reported
Mailing Address: 21444 GOLDEN TRIANGLE RD
SAUGUS, CA 91350
County Los Angeles

Gepaid: CAT080010929
TSD EPA ID: CAD008302903
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 14.9828
Facility Address 2: Not reported
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Not reported
Contact: AMERICAN CYANAMID COMPANY
Telephone: (000) 000-0000
Mailing Name: Not reported
Mailing Address: 21444 GOLDEN TRIANGLE RD
SAUGUS, CA 91350
County Los Angeles

AMERICAN CYANAMID (Continued) **1000360638**

Gepaid: CAT080010929
TSD EPA ID: CAD008302903
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 15.4290
Facility Address 2: Not reported
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Contact: AMERICAN CYANAMID COMPANY
Telephone: (000) 000-0000
Mailing Name: Not reported
Mailing Address: 21444 GOLDEN TRIANGLE RD
SAUGUS, CA 91350
County Los Angeles

Gepaid: CAT080010929
TSD EPA ID: CAT000646117
Gen County: Los Angeles
Tsd County: Kings
Tons: 1.6054
Facility Address 2: Not reported
Waste Category:
Disposal Method: Disposal, Other
Contact: AMERICAN CYANAMID COMPANY
Telephone: (000) 000-0000
Mailing Name: Not reported
Mailing Address: 21444 GOLDEN TRIANGLE RD
SAUGUS, CA 91350
County Los Angeles

Gepaid: CAT080010929
TSD EPA ID: CAT000646117
Gen County: Los Angeles
Tsd County: Kings
Tons: 1.5012
Facility Address 2: Not reported
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Treatment, Tank
Contact: AMERICAN CYANAMID COMPANY
Telephone: (000) 000-0000
Mailing Name: Not reported
Mailing Address: 21444 GOLDEN TRIANGLE RD
SAUGUS, CA 91350
County Los Angeles

Click this hyperlink while viewing on your computer to access
11 additional CA HAZNET record(s) in the EDR Site Report.

CORTESE:
Region: CORTESE
Fac Address 2: Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
AGUA DULCE	A100281945	LA COUNTY FIRE DEPT STATION 81	8710 W SIERRA HWY	91350	AST
LOS ANGELES COUNTY	S105642458		2 / 3 MI DUE SOUTH NEWPORT		HAZNET, LUST, CHMIRS
NEWHALL	S106928387	LA CO FD FIRE STA #081	13028 W SIERRA HWY	91350	SWEEPS UST
SANTA CLARITA	A100282033	NEWHALL LAND FARMING WELL 156	156 HWY 126 AND TODD		AST
SANTA CLARITA	A100282032	NEWHALL LAND & FARMING WELL B8	HWY 126 AND TODD		AST
SANTA CLARITA	1008246479	PLUM CANYON ELEMENTARY	28360 N. ALFRED WAY	91350	FINDS
SANTA CLARITA	S106854001	CANYON ENGINEERING PROD	24773 AVE ROCKEFFELER		LOS ANGELES CO. HMS
SANTA CLARITA	S106854113	CANYON R&G AUTO REPAIR	27264 N CAMP PLENTY RD E		LOS ANGELES CO. HMS
SANTA CLARITA	S106854112	CANYON RADIATOR	27264 N CAMP PLENTY RD D		LOS ANGELES CO. HMS
SANTA CLARITA	S106854111	CANYON R&G AUTO REPAIR	27264 N CAMP PLENTY RD C		LOS ANGELES CO. HMS
SANTA CLARITA	U003060648	SAND CANYON MOBIL SERVICE	16411 W DE LONE ST	91350	LOS ANGELES CO. HMS
SANTA CLARITA	S106484320	DOCKWEILER PROPERTY	DOCKWEILER DR / SIERRA HWY A		SLIC
SANTA CLARITA	S106485982	GOLDEN VALLEY ROAD GOLDEN VALLEY R	GOLDEN VALLEY ROAD		SLIC
SANTA CLARITA	S107592018	RYE CANYON OFFICE PARTNERS	28212 KELLY JOHNSON PKWY		LOS ANGELES CO. HMS
SANTA CLARITA	S106670621	NEWHALL OIL FIELD	NEWHALL OLFD		LOS ANGELES CO. HMS
SANTA CLARITA	S106854137	RYE CANYON GATEWAY PLAZA, LLC	28291 W NEWHALL RANCH RD		LOS ANGELES CO. HMS
SANTA CLARITA	S106854136	RYE CANYON GATEWAY PLAZA, INC	28267 W NEWHALL RANCH RD		LOS ANGELES CO. HMS
SANTA CLARITA	S106854135	RYE CANYON GATEWAY PLAZA, INC	28263 W NEWHALL RANCH RD		LOS ANGELES CO. HMS
SANTA CLARITA	S106854133	RYE CANYON GATEWAY PLAZA, INC	28257 W NEWHALL RANCH RD		LOS ANGELES CO. HMS
SANTA CLARITA	S106854132	RYE CANYON GATEWAY PLAZA, INC	28255 W NEWHALL RANCH RD		LOS ANGELES CO. HMS
SANTA CLARITA	S106854131	RYE CANYON GATEWAY PLAZA, INC	28251 W NEWHALL RANCH RD		LOS ANGELES CO. HMS
SANTA CLARITA	S106854130	RYE CANYON GATEWAY PLAZA, LLC	28207 W NEWHALL RANCH RD		LOS ANGELES CO. HMS
SANTA CLARITA	S106854041	CANYON AUTO ELECTRIC	26724 N OAK AVE B		LOS ANGELES CO. HMS
SANTA CLARITA	S106853937	RAILROAD CANYON DISP SIT	23001 N PINE ST		LOS ANGELES CO. HMS
SANTA CLARITA	S106387162	PLACERITA CANYON OIL FIELD - YORK	16000 PLACERITA CANYON	91350	SLIC
SANTA CLARITA	1009286392	PLUM CANYON DEVELOPMENT	PLUM CANYON ROAD	91350	ICIS
SANTA CLARITA	S106854056	CANYON AUTO CARE	26821 N RUETHER AVE C		LOS ANGELES CO. HMS
SANTA CLARITA	S103945199	CANYON MOTORS INC.	24254 SAN FERNANDO RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S106410321	SAND CANYON UNION	28529 N SAND CANYON RD		LOS ANGELES CO. HMS
SANTA CLARITA	S105023062	SOS - PLACERITA CANYON	25977 SAND CNYN	91350	Cortese
SANTA CLARITA	S106853993	NEWHALL LAND & FARMING CO	24445 W TOWN CENTER DR B		LOS ANGELES CO. HMS
SANTA CLARITA	S106853992	NEWHALL LAND & FARMING CO	24435 W TOWN CENTER DR A		LOS ANGELES CO. HMS
SANTA CLARITA	S106853991	NEWHALL LAND & FARMING/BLDG D&E	24425 W TOWN CENTER DR D / E		LOS ANGELES CO. HMS
SANTA CLARITA	S106853987	NEWHALL LAND & FARMING CO	24415 W TOWN CENTER DR C		LOS ANGELES CO. HMS
SANTA CLARITA	S106853982	NEWHALL LAND & FARMING CO	24320 W TOWN CENTER DR F		LOS ANGELES CO. HMS
SANTA CLARITA	S106484041	PLACERITA CANYON OIL FIELD PROPERT	YORK LEASE		SLIC
SAUGUS	S105726349	DWP DRY CANYON	29030 DEODAR	91350	HAZNET
SAUGUS	1000204345	USDA FS ANGELES NATIONAL FOREST	LOS PINETOS STORAGE RT 1	91350	RCRA-SQG, FINDS, CERC-NFRAP
SAUGUS	S103640975	BOUQUET CANYON VILLAGE INC	20750-20846 PLUM CNYN, 28013-	91350	HAZNET
SAUGUS	U001567732	USA PETROLEUM COMPANY #82	19443 W. SOLEDAD	91350	HIST UST
SAUGUS	S106116313	LA COUNTY DPW	21014 SOLEDAD CANYON W.	91350	LUST

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.

FEDERAL RECORDS

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: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
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 8
Telephone: 303-312-6774

EPA Region 4
Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

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: 04/19/2006
Date Data Arrived at EDR: 05/05/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 17

Source: EPA
Telephone: N/A
Last EDR Contact: 05/05/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

NPL RECOVERY: 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: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 03/21/2006
Next Scheduled EDR Contact: 06/19/2006
Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: EPA
Telephone: 703-413-0223
Last EDR Contact: 03/21/2006
Next Scheduled EDR Contact: 06/19/2006
Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information
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. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). 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. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/09/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 33

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/27/2006
Next Scheduled EDR Contact: 06/26/2006
Data Release Frequency: Quarterly

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 01/12/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 40

Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342
Last EDR Contact: 04/26/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/14/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Annually

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: 03/21/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 03/03/2006
Next Scheduled EDR Contact: 07/03/2006
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: 03/21/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 703-603-8905
Last EDR Contact: 03/03/2006
Next Scheduled EDR Contact: 07/03/2006
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: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

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: 12/05/2005
Date Data Arrived at EDR: 01/19/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 33

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 04/03/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/26/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/13/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Semi-Annually

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: 12/14/2004
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 04/25/2005
Number of Days to Update: 69

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/13/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Varies

ROD: Records Of Decision

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

Date of Government Version: 04/13/2006
Date Data Arrived at EDR: 04/28/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 32

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/05/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Annually

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: 11/04/2005
Date Data Arrived at EDR: 11/28/2005
Date Made Active in Reports: 01/30/2006
Number of Days to Update: 63

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 03/20/2006
Next Scheduled EDR Contact: 06/19/2006
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

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: 12/31/2003
Date Data Arrived at EDR: 07/13/2005
Date Made Active in Reports: 08/17/2005
Number of Days to Update: 35

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 03/21/2006
Next Scheduled EDR Contact: 06/19/2006
Data Release Frequency: Annually

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: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 04/12/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Every 4 Years

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: 03/29/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 03/20/2006
Next Scheduled EDR Contact: 06/19/2006
Data Release Frequency: Quarterly

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

Date of Government Version: 03/31/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 03/20/2006
Next Scheduled EDR Contact: 06/19/2006
Data Release Frequency: Quarterly

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: 12/31/2004
Date Data Arrived at EDR: 05/11/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 11

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 07/17/2006
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: 02/13/2006
Date Data Arrived at EDR: 04/21/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/17/2006
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: 12/27/2005
Date Data Arrived at EDR: 02/08/2006
Date Made Active in Reports: 02/27/2006
Number of Days to Update: 19

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 05/08/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Annually

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: 04/12/2006
Date Data Arrived at EDR: 04/26/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 34

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/03/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Quarterly

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: 02/09/2006
Date Data Arrived at EDR: 03/29/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 62

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/29/2006
Next Scheduled EDR Contact: 06/26/2006
Data Release Frequency: Semi-Annually

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 04/27/2006
Date Data Arrived at EDR: 05/02/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 28

Source: EPA
Telephone: N/A
Last EDR Contact: 04/03/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Quarterly

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: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: No Update Planned

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: 12/31/2003
Date Data Arrived at EDR: 06/17/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 48

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/17/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

AWP: Annual Workplan Sites

Known Hazardous Waste Sites. California DTSC's Annual Workplan (AWP), formerly BEP, identifies known hazardous substance sites targeted for cleanup.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 09/21/2005
Number of Days to Update: 23

Source: California Environmental Protection Agency
Telephone: 916-323-3400
Last EDR Contact: 04/05/2006
Next Scheduled EDR Contact: 05/29/2006
Data Release Frequency: Annually

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.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 09/21/2005
Number of Days to Update: 23

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

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

Date of Government Version: 01/01/1989
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

NFA: No Further Action Determination

This category contains properties at which DTSC has made a clear determination that the property does not pose a problem to the environment or to public health.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 10/06/2005
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/05/2006
Next Scheduled EDR Contact: 05/29/2006
Data Release Frequency: Quarterly

NFE: Properties Needing Further Evaluation

This category contains properties that are suspected of being contaminated. These are unconfirmed contaminated properties that need to be assessed using the PEA process. PEA in Progress indicates properties where DTSC is currently conducting a PEA. PEA Required indicates properties where DTSC has determined a PEA is required, but not currently underway.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 09/21/2005
Number of Days to Update: 23

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/05/2006
Next Scheduled EDR Contact: 05/29/2006
Data Release Frequency: Quarterly

REF: Unconfirmed Properties Referred to Another Agency

This category contains properties where contamination has not been confirmed and which were determined as not requiring direct DTSC Site Mitigation Program action or oversight. Accordingly, these sites have been referred to another state or local regulatory agency.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 10/06/2005
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/05/2006
Next Scheduled EDR Contact: 05/29/2006
Data Release Frequency: Quarterly

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: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 10/06/2005
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/05/2006
Next Scheduled EDR Contact: 05/29/2006
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

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

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

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 05/01/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: No Update Planned

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: 03/13/2006
Date Data Arrived at EDR: 03/15/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 29

Source: Integrated Waste Management Board
Telephone: 916-341-6320
Last EDR Contact: 03/15/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 03/20/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 03/21/2006
Next Scheduled EDR Contact: 06/19/2006
Data Release Frequency: Quarterly

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: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Quarterly

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). This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-9100
Last EDR Contact: 04/25/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 04/07/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Quarterly

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.

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

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

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 03/28/2006
Next Scheduled EDR Contact: 06/26/2006
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

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

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 916-542-5424
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
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: 858-467-2980
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/17/2006
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: 951-782-4130
Last EDR Contact: 05/08/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

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: 760-346-7491
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

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: 760-346-7491
Last EDR Contact: 04/03/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 04/01/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 04/27/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

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: 805-549-3147
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

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

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

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: 510-286-0457
Last EDR Contact: 04/10/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Quarterly

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

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

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: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

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

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

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: 04/10/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Quarterly

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

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 02/17/2006
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 24

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

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

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

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: 04/26/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Unregulated sites that impact groundwater or have the potential to impact groundwater.

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: 04/05/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Semi-Annually

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

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: 04/03/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

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: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

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: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

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

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 04/05/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Semi-Annually

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

Date of Government Version: 03/14/2006
Date Data Arrived at EDR: 03/14/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 20

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Semi-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

AST: Aboveground Petroleum Storage Tank Facilities
Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 05/26/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

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 1980'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

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

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 11/30/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 50

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records
Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: No Update Planned

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: 04/04/2006
Date Data Arrived at EDR: 04/05/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/05/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Semi-Annually

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: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 09/21/2005
Number of Days to Update: 23

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/05/2006
Next Scheduled EDR Contact: 05/29/2006
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: 04/18/2005
Date Data Arrived at EDR: 04/18/2005
Date Made Active in Reports: 05/06/2005
Number of Days to Update: 18

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 04/03/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

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

Date of Government Version: 04/30/2006
Date Data Arrived at EDR: 05/04/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 22

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 04/26/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Varies

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: 12/31/2005
Date Data Arrived at EDR: 02/10/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 31

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 05/08/2006
Next Scheduled EDR Contact: 07/24/2006
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.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 10/11/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 20

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 05/11/2006
Next Scheduled EDR Contact: 08/07/2006
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: 12/31/2004
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 27

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 04/14/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Varies

TRIBAL RECORDS

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: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

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

Date of Government Version: 09/07/2005
Date Data Arrived at EDR: 09/08/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 53

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

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

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/22/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 02/20/2006
Next Scheduled EDR Contact: 05/22/2006
Data Release Frequency: Varies

INDIAN UST: Underground Storage Tanks on Indian Land

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/22/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 22

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: 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

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: 02/16/2006
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 24

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/25/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 02/27/2006
Date Data Arrived at EDR: 02/28/2006
Date Made Active in Reports: 03/23/2006
Number of Days to Update: 23

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/25/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

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

Date of Government Version: 03/20/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 05/29/2006
Data Release Frequency: Semi-Annually

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: 04/10/2006
Date Data Arrived at EDR: 04/10/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 31

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 04/10/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 03/27/2006
Date Data Arrived at EDR: 03/28/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 34

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 03/27/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Quarterly

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: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

City of El Segundo Underground Storage Tank

Date of Government Version: 02/27/2006
Date Data Arrived at EDR: 02/28/2006
Date Made Active in Reports: 03/23/2006
Number of Days to Update: 23

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 02/27/2006
Date Data Arrived at EDR: 02/28/2006
Date Made Active in Reports: 03/23/2006
Number of Days to Update: 23

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/31/2006
Date Data Arrived at EDR: 03/24/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 20

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 02/14/2006
Date Data Arrived at EDR: 02/28/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 13

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 05/18/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 03/15/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Varies

Site Mitigation List

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

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 02/10/2006
Date Data Arrived at EDR: 02/28/2006
Date Made Active in Reports: 03/23/2006
Number of Days to Update: 23

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 05/01/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 04/03/2006
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 9

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/27/2006
Next Scheduled EDR Contact: 06/26/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 04/03/2006
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 27

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/27/2006
Next Scheduled EDR Contact: 06/26/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 17

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 03/08/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/29/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 15

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 03/08/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/28/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 34

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 03/08/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 04/03/2006
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 9

Source: Placer County Health and Human Services
Telephone: 530-889-7312
Last EDR Contact: 03/20/2006
Next Scheduled EDR Contact: 06/19/2006
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Underground Storage Tank Tank List

Date of Government Version: 02/09/2006
Date Data Arrived at EDR: 02/10/2006
Date Made Active in Reports: 03/09/2006
Number of Days to Update: 27

Source: Health Services Agency
Telephone: 951-358-5055
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Quarterly

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 02/09/2006
Date Data Arrived at EDR: 02/10/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 31

Source: Department of Public Health
Telephone: 951-358-5055
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS - Contaminated Sites

Date of Government Version: 02/02/2006
Date Data Arrived at EDR: 02/13/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 28

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

ML - Regulatory Compliance Master List

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

Date of Government Version: 02/02/2006
Date Data Arrived at EDR: 02/10/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 31

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 07/31/2006
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: 03/22/2006
Date Data Arrived at EDR: 03/23/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 21

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
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: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 04/28/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversite Facilities

Date of Government Version: 03/16/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Quarterly

Underground Storage Tank Information

Date of Government Version: 03/16/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
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: 02/28/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/17/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

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

Date of Government Version: 05/02/2006
Date Data Arrived at EDR: 05/02/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 24

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 04/26/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 04/17/2006
Date Data Arrived at EDR: 04/24/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 17

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 04/10/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

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: 03/28/2006
Next Scheduled EDR Contact: 06/26/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 03/29/2006
Date Data Arrived at EDR: 03/30/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 14

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 03/28/2006
Next Scheduled EDR Contact: 06/26/2006
Data Release Frequency: Varies

Hazardous Material Facilities

Date of Government Version: 03/09/2006
Date Data Arrived at EDR: 03/13/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 31

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/10/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 31

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/27/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 10/13/2005
Date Data Arrived at EDR: 10/31/2005
Date Made Active in Reports: 12/08/2005
Number of Days to Update: 38

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 04/13/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 04/27/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 29

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 04/26/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 05/25/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Semi-Annually

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: 02/24/2006
Date Data Arrived at EDR: 03/31/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 13

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/15/2006
Next Scheduled EDR Contact: 06/12/2006
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: 08/01/2005
Date Data Arrived at EDR: 09/20/2005
Date Made Active in Reports: 10/06/2005
Number of Days to Update: 16

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 02/24/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 17

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/15/2006
Next Scheduled EDR Contact: 06/12/2006
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: 02/24/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 25

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 01/18/2006
Date Data Arrived at EDR: 02/09/2006
Date Made Active in Reports: 03/09/2006
Number of Days to Update: 28

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Annually

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: 12/31/2004
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 49

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 03/13/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/24/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 8

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 03/17/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/01/2006
Date Made Active in Reports: 04/20/2006
Number of Days to Update: 50

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 03/01/2006
Next Scheduled EDR Contact: 05/29/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/09/2006
Next Scheduled EDR Contact: 06/19/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/17/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
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 1999 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 and 2005 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

NEWHALL RANCH ROAD/SOLEDAD CANYON ROAD
NEWHALL RANCH RD/SOLEDAD CANYON RD
SANTA CLARITA, CA 91350

TARGET PROPERTY COORDINATES

Latitude (North):	34.41820 - 34˚ 25' 5.5''
Longitude (West):	118.5247 - 118˚ 31' 28.9''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	359881.8
UTM Y (Meters):	3809385.0
Elevation:	1199 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	34118-D5 NEWHALL, CA
Most Recent Revision:	1988

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

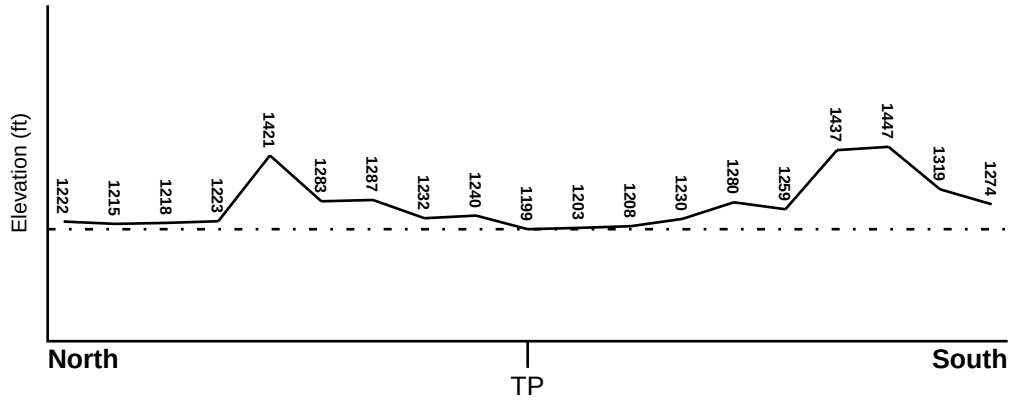
TOPOGRAPHIC INFORMATION

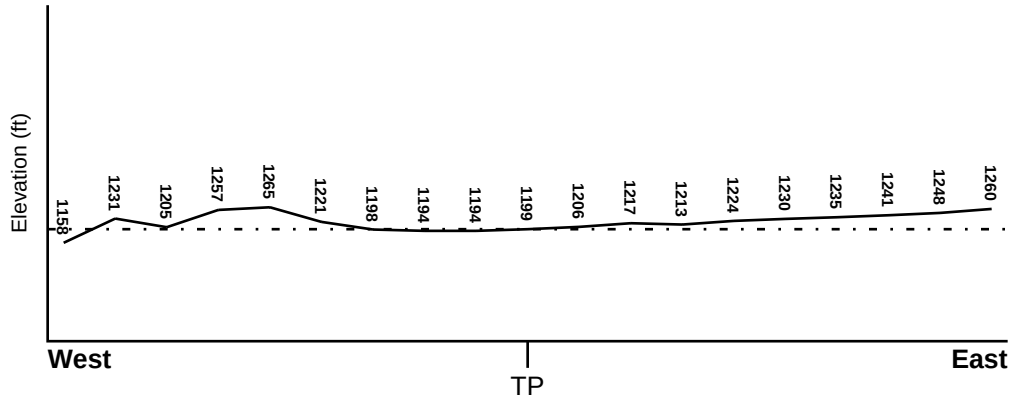
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 1199 ft.

0 1/2 1 Miles

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
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	0607290345C
Additional Panels in search area:	0650430345B 0607290365C 0607290480C 0607290460C

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NEWHALL	Not Available

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
Location Relative to TP:	1/2 - 1 Mile WSW
Site Name:	HASA CHEM INC
Site EPA ID Number:	CAD009656075
Groundwater Flow Direction:	GENERALLY W IN BOTH THE ALLUVIAL AND SAUGUS AQUIFERS.
Inferred Depth to Water:	approximately 52 feet.
Hydraulic Connection:	The site is underlain by a near-surface alluvial aquifer and the underlying Saugus aquifer that are separated by a relatively impermeable layer.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Tertiary
Series:	Pliocene
Code:	Tpc *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Continental Deposits

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).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	PICO
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. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	HIGH
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	14 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: 6.00 Min: 2.00	Max: 8.40 Min: 7.90
2	14 inches	54 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 7.90
3	54 inches	60 inches	stratified	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 8.40 Min: 7.90

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: clay loam
sand
gravelly - sand
gravelly - sandy loam
loamy sand
loam
silty clay loam

Surficial Soil Types: clay loam
sand
gravelly - sand
gravelly - sandy loam
loamy sand
loam
silty clay loam

Shallow Soil Types: loamy fine sand

Deeper Soil Types: loam
coarse sand

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
8	CA1900029	1/2 - 1 Mile WSW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

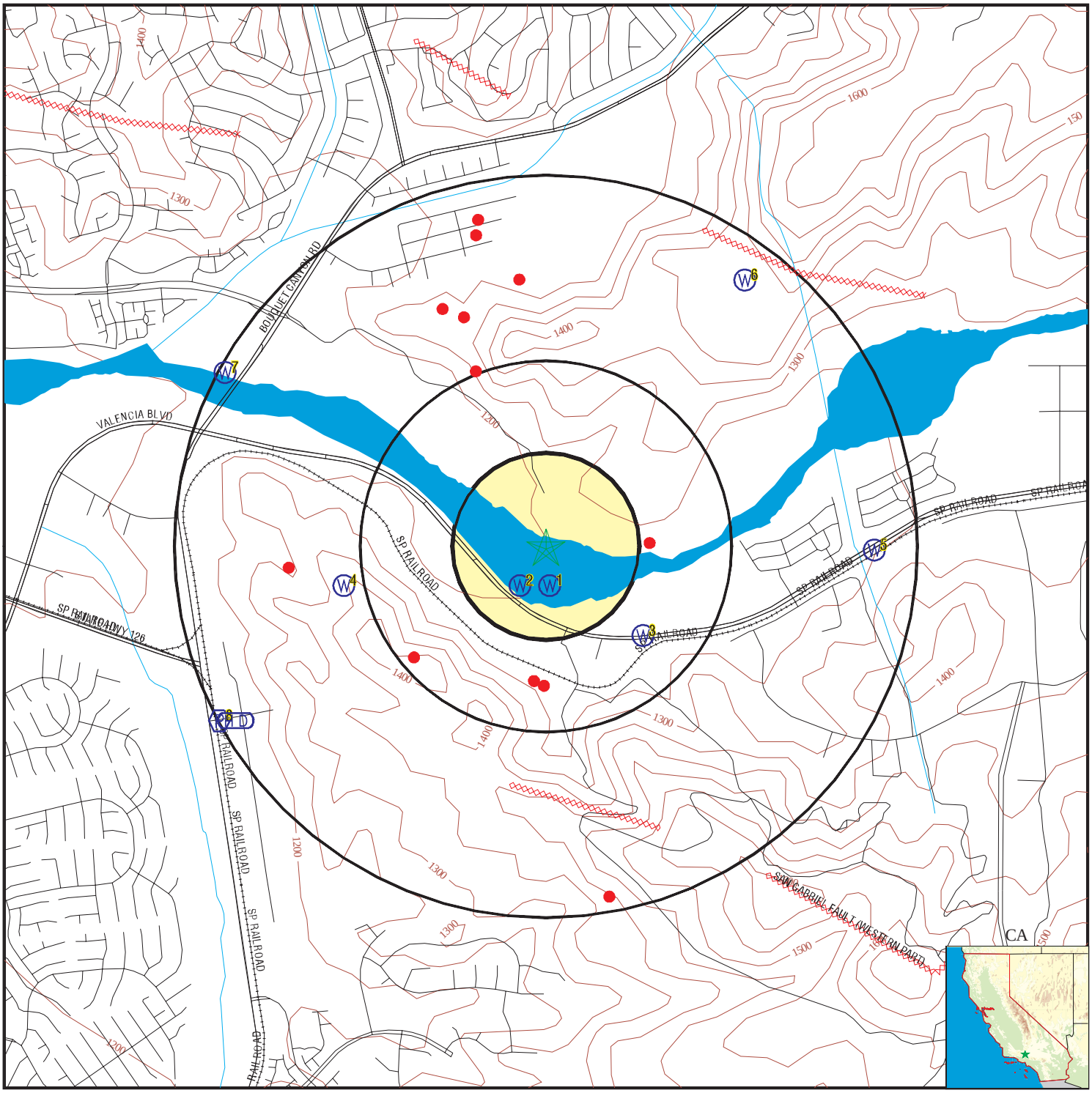
MAP ID	WELL ID	LOCATION FROM TP
1	4544	0 - 1/8 Mile South
2	4545	1/8 - 1/4 Mile SSW
3	4550	1/4 - 1/2 Mile SE
4	4546	1/2 - 1 Mile West
5	4549	1/2 - 1 Mile East
6	22763	1/2 - 1 Mile NE
7	4530	1/2 - 1 Mile WNW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

DISTANCE FROM TP (Miles)	DISTANCE FROM TP (Miles)
1/2 - 1 Mile NNW	1/2 - 1 Mile NNW
1/2 - 1 Mile North	1/2 - 1 Mile NNW
1/2 - 1 Mile NNW	1/2 - 1 Mile NNW
1/4 - 1/2 Mile East	1/2 - 1 Mile West
1/4 - 1/2 Mile SW	1/4 - 1/2 Mile South
1/4 - 1/2 Mile South	1/2 - 1 Mile South

PHYSICAL SETTING SOURCE MAP - 1685770.1s



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

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME: Newhall Ranch Road/Soledad Canyon Road ADDRESS: Newhall Ranch Rd/Soledad Canyon Rd Santa Clarita CA 91350 LAT/LONG: 34.4182 / 118.5247	CLIENT: Edaw Inc. CONTACT: Priya Mehendale INQUIRY #: 1685770.1s DATE: May 30, 2006

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
1 **South** **0 - 1/8 Mile** **Higher**	**CA WELLS**	**4544**

Water System Information:

Prime Station Code:	04N/16W-23A01 S	User ID:	4TH
FRDS Number:	1910240022	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	342500.0 1183125.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL T-2		
System Number:	1910240		
System Name:	VALENCIA WC		
Organization That Operates System:			
	28769 CASTAIC CANYON ROAD VALENCIA 91355		
Pop Served:	46500	Connections:	13396
Area Served:	VALENCIA		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	09/11/1989	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/11/1989	Findings:	14.000 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	09/11/1989	Findings:	2.200 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	09/11/1989	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01/08/1990	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/26/1990	Findings:	995.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/26/1990	Findings:	7.800
Chemical:	PH (LABORATORY)		
Sample Collected:	07/26/1990	Findings:	310.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/26/1990	Findings:	375.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/26/1990	Findings:	1.700 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/26/1990	Findings:	352.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/26/1990	Findings:	99.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/26/1990	Findings:	25.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/26/1990	Findings:	64.100 MG/L
Chemical:	SODIUM		
Sample Collected:	07/26/1990	Findings:	3.400 MG/L
Chemical:	POTASSIUM		

Sample Collected:	07/26/1990	Findings:	73.100 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/26/1990	Findings:	.370 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	07/26/1990	Findings:	3.100 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07/26/1990	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/26/1990	Findings:	4.600 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	07/26/1990	Findings:	1.300 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	07/26/1990	Findings:	590.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/26/1990	Findings:	.800
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	07/26/1990	Findings:	27.850 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/14/1991	Findings:	1080.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/14/1991	Findings:	7.500
Chemical:	PH (LABORATORY)		
Sample Collected:	10/14/1991	Findings:	180.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/14/1991	Findings:	219.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/14/1991	Findings:	.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	10/14/1991	Findings:	332.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/14/1991	Findings:	81.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/14/1991	Findings:	31.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/14/1991	Findings:	66.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/14/1991	Findings:	3.500 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/14/1991	Findings:	93.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/14/1991	Findings:	.360 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/14/1991	Findings:	620.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/14/1991	Findings:	.100
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/14/1991	Findings:	29.480 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/19/1994	Findings:	16.500 C
Chemical:	SOURCE TEMPERATURE C		

Sample Collected:	10/19/1994	Findings:	750.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/19/1994	Findings:	7.600
Chemical:	FIELD PH		
Sample Collected:	10/19/1994	Findings:	7.600
Chemical:	PH (LABORATORY)		
Sample Collected:	10/19/1994	Findings:	224.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/19/1994	Findings:	273.300 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/19/1994	Findings:	268.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/19/1994	Findings:	77.700 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/19/1994	Findings:	19.500 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/19/1994	Findings:	55.900 MG/L
Chemical:	SODIUM		
Sample Collected:	10/19/1994	Findings:	1.900 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/19/1994	Findings:	35.700 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/19/1994	Findings:	.700 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/19/1994	Findings:	434.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/19/1994	Findings:	.980
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/19/1994	Findings:	.190
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	10/19/1994	Findings:	16.600 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/19/1994	Findings:	12.240
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10/19/1994	Findings:	3747.000 UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03/29/1995	Findings:	3.400 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03/29/1995	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/14/1995	Findings:	1.300 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/14/1995	Findings:	19.200 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/20/1995	Findings:	763.000 UG/L
Chemical:	BORON		
Sample Collected:	09/20/1995	Findings:	4.800 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/20/1995	Findings:	1.200 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

Sample Collected:	09/20/1995	Findings:	4.000 PCI/L
Chemical:	URANIUM		
Sample Collected:	09/20/1995	Findings:	19.400 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/14/1995	Findings:	829.000 UG/L
Chemical:	BORON		
Sample Collected:	12/14/1995	Findings:	2.300 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12/14/1995	Findings:	1.400 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/14/1995	Findings:	19.100 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/27/1996	Findings:	21.200 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/17/1997	Findings:	3.070 PCI/L
Chemical:	URANIUM		
Sample Collected:	09/17/1997	Findings:	.054 PCI/L
Chemical:	URANIUM COUNTING ERROR		

2
SSW **CA WELLS** **4545**
1/8 - 1/4 Mile
Higher

Water System Information:

Prime Station Code:	04N/16W-23A02 S	User ID:	4TH
FRDS Number:	1910240014	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	342500.0 1183130.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL T-4		
System Number:	1910240		
System Name:	VALENCIA WC		
Organization That Operates System:			
	28769 CASTAIC CANYON ROAD VALENCIA 91355		
Pop Served:	46500	Connections:	13396
Area Served:	VALENCIA		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	09/05/1991	Findings:	960.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/05/1991	Findings:	7.400
Chemical:	PH (LABORATORY)		
Sample Collected:	09/05/1991	Findings:	295.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	09/05/1991	Findings:	359.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/05/1991	Findings:	.650 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	09/05/1991	Findings:	438.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	09/05/1991	Findings:	120.000 MG/L
Chemical:	CALCIUM		

Sample Collected:	09/05/1991	Findings:	33.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/05/1991	Findings:	59.000 MG/L
Chemical:	SODIUM		
Sample Collected:	09/05/1991	Findings:	3.600 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09/05/1991	Findings:	76.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/05/1991	Findings:	.370 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	09/05/1991	Findings:	5.900 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/05/1991	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/05/1991	Findings:	11.000 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	09/05/1991	Findings:	1.500 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	09/05/1991	Findings:	620.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09/05/1991	Findings:	.400
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	09/05/1991	Findings:	27.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/02/1991	Findings:	1020.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/02/1991	Findings:	7.500
Chemical:	PH (LABORATORY)		
Sample Collected:	10/02/1991	Findings:	290.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/02/1991	Findings:	352.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/02/1991	Findings:	.810 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	10/02/1991	Findings:	400.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/02/1991	Findings:	110.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/02/1991	Findings:	30.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/02/1991	Findings:	67.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/02/1991	Findings:	3.800 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/02/1991	Findings:	72.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/02/1991	Findings:	.360 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/02/1991	Findings:	640.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

Sample Collected:	10/02/1991	Findings:	.500
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/02/1991	Findings:	26.400 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/15/1991	Findings:	3.000 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10/15/1991	Findings:	1.600 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10/15/1991	Findings:	1.200 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	02/03/1992	Findings:	1030.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	02/03/1992	Findings:	7.500
Chemical:	PH (LABORATORY)		
Sample Collected:	02/03/1992	Findings:	300.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	02/03/1992	Findings:	364.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	02/03/1992	Findings:	.840 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	02/03/1992	Findings:	388.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	02/03/1992	Findings:	105.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	02/03/1992	Findings:	30.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	02/03/1992	Findings:	67.000 MG/L
Chemical:	SODIUM		
Sample Collected:	02/03/1992	Findings:	3.700 MG/L
Chemical:	POTASSIUM		
Sample Collected:	02/03/1992	Findings:	83.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	02/03/1992	Findings:	.370 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	02/03/1992	Findings:	2.200 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02/03/1992	Findings:	2.000 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	02/03/1992	Findings:	620.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02/03/1992	Findings:	.500
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	02/03/1992	Findings:	26.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/21/1992	Findings:	740.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	04/21/1992	Findings:	7.600
Chemical:	PH (LABORATORY)		
Sample Collected:	04/21/1992	Findings:	230.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		

Sample Collected:	04/21/1992	Findings:	280.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	04/21/1992	Findings:	.770 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	04/21/1992	Findings:	256.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	04/21/1992	Findings:	73.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	04/21/1992	Findings:	18.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	04/21/1992	Findings:	55.000 MG/L
Chemical:	SODIUM		
Sample Collected:	04/21/1992	Findings:	3.000 MG/L
Chemical:	POTASSIUM		
Sample Collected:	04/21/1992	Findings:	48.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	04/21/1992	Findings:	.440 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	04/21/1992	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	04/21/1992	Findings:	1.600 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04/21/1992	Findings:	4.100 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	04/21/1992	Findings:	1.500 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	04/21/1992	Findings:	460.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04/21/1992	Findings:	.500
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	04/21/1992	Findings:	.007 MG/L
Chemical:	HYDROXIDE ALKALINITY		
Sample Collected:	04/21/1992	Findings:	18.920 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/15/1992	Findings:	860.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/15/1992	Findings:	7.700
Chemical:	PH (LABORATORY)		
Sample Collected:	07/15/1992	Findings:	255.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/15/1992	Findings:	311.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/15/1992	Findings:	1.000 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/15/1992	Findings:	325.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/15/1992	Findings:	90.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/15/1992	Findings:	24.000 MG/L
Chemical:	MAGNESIUM		

Sample Collected:	07/15/1992	Findings:	58.000 MG/L
Chemical:	SODIUM		
Sample Collected:	07/15/1992	Findings:	3.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/15/1992	Findings:	70.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/15/1992	Findings:	.390 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	07/15/1992	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/15/1992	Findings:	1.700 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	07/15/1992	Findings:	540.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/15/1992	Findings:	.700
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	07/15/1992	Findings:	.010 MG/L
Chemical:	HYDROXIDE ALKALINITY		
Sample Collected:	07/15/1992	Findings:	23.760 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/29/1995	Findings:	3.700 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03/29/1995	Findings:	1.000 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03/29/1995	Findings:	16.500 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/14/1995	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/14/1995	Findings:	18.100 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/21/1995	Findings:	15.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	09/21/1995	Findings:	930.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/21/1995	Findings:	7.700
Chemical:	PH (LABORATORY)		
Sample Collected:	09/21/1995	Findings:	252.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	09/21/1995	Findings:	307.400 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/21/1995	Findings:	364.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	09/21/1995	Findings:	86.500 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/21/1995	Findings:	27.500 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/21/1995	Findings:	60.600 MG/L
Chemical:	SODIUM		
Sample Collected:	09/21/1995	Findings:	3.200 MG/L
Chemical:	POTASSIUM		

Sample Collected:	09/21/1995	Findings:	58.800 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/21/1995	Findings:	.300 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	09/21/1995	Findings:	2.400 UG/L
Chemical:	ARSENIC		
Sample Collected:	09/21/1995	Findings:	3.800 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/21/1995	Findings:	.600 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/21/1995	Findings:	539.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09/21/1995	Findings:	18.700 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/21/1995	Findings:	4221.000 UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	12/14/1995	Findings:	16.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	12/14/1995	Findings:	960.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	12/14/1995	Findings:	7.600
Chemical:	FIELD PH		
Sample Collected:	12/14/1995	Findings:	7.600
Chemical:	PH (LABORATORY)		
Sample Collected:	12/14/1995	Findings:	262.400 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	12/14/1995	Findings:	320.100 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12/14/1995	Findings:	412.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	12/14/1995	Findings:	115.300 MG/L
Chemical:	CALCIUM		
Sample Collected:	12/14/1995	Findings:	24.500 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12/14/1995	Findings:	55.400 MG/L
Chemical:	SODIUM		
Sample Collected:	12/14/1995	Findings:	2.900 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12/14/1995	Findings:	60.200 MG/L
Chemical:	CHLORIDE		
Sample Collected:	12/14/1995	Findings:	1.000 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	12/14/1995	Findings:	3.100 UG/L
Chemical:	ARSENIC		
Sample Collected:	12/14/1995	Findings:	2.800 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12/14/1995	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/14/1995	Findings:	579.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

Sample Collected:	12/14/1995	Findings:	1.200
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	12/14/1995	Findings:	.400
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	12/14/1995	Findings:	19.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/14/1995	Findings:	4357.000 UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03/27/1996	Findings:	21.300 MG/L
Chemical:	NITRATE (AS NO3)		

3
SE **CA WELLS** **4550**
1/4 - 1/2 Mile
Higher

Water System Information:

Prime Station Code:	04N/16W-24M02 S	User ID:	19C
FRDS Number:	1900028001	County:	Los Angeles
District Number:	49	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	342453.0 1183109.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 01		
System Number:	1900028		
System Name:	BERMITE		
Organization That Operates System:			
	Not Reported		
Pop Served:	Unknown, Small System	Connections:	Unknown, Small System
Area Served:	Not Reported		

4
West **CA WELLS** **4546**
1/2 - 1 Mile
Higher

Water System Information:

Prime Station Code:	04N/16W-23F01 S	User ID:	4TH
FRDS Number:	1910017020	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	342500.0 1183200.0	Precision:	Undefined
Source Name:	STADIUM		
System Number:	1910017		
System Name:	SANTA CLARITA WATER CO.		
Organization That Operates System:			
	P.O. BOX 903		
	SANTA CLARITA, CA 91380		
Pop Served:	49500	Connections:	19503
Area Served:	SAUGUS		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	04/05/1989	Findings:	1160.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	04/05/1989	Findings:	7.800
Chemical:	PH (LABORATORY)		
Sample Collected:	04/05/1989	Findings:	280.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		

Sample Collected:	04/05/1989	Findings:	338.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	04/05/1989	Findings:	1.650 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	04/05/1989	Findings:	464.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	04/05/1989	Findings:	124.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	04/05/1989	Findings:	37.100 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	04/05/1989	Findings:	81.400 MG/L
Chemical:	SODIUM		
Sample Collected:	04/05/1989	Findings:	4.100 MG/L
Chemical:	POTASSIUM		
Sample Collected:	04/05/1989	Findings:	53.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	04/05/1989	Findings:	.430 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	04/05/1989	Findings:	.040 UG/L
Chemical:	FOAMING AGENTS (MBAS)		
Sample Collected:	04/05/1989	Findings:	830.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04/05/1989	Findings:	.800
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	04/05/1989	Findings:	25.960 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/12/1989	Findings:	.900 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04/12/1989	Findings:	.100 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	05/10/1989	Findings:	1.300 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	06/28/1989	Findings:	1.100 UG/L
Chemical:	1,1,2-TRICHLOROETHANE		
Sample Collected:	07/26/1989	Findings:	1.400 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07/26/1989	Findings:	1.300 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08/31/1989	Findings:	.800 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	10/10/1989	Findings:	1.200 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10/18/1989	Findings:	1.100 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	11/15/1989	Findings:	1.100 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	01/04/1990	Findings:	1.200 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	01/04/1990	Findings:	3.700 PCI/L
Chemical:	GROSS ALPHA		

Sample Collected:	01/04/1990	Findings:	2.600 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01/04/1990	Findings:	.100 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	02/07/1990	Findings:	1.200 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	04/18/1990	Findings:	1.200 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	02/06/1991	Findings:	.700 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	05/08/1991	Findings:	.800 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	08/07/1991	Findings:	.900 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	08/19/1992	Findings:	1250.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/19/1992	Findings:	7.500
Chemical:	PH (LABORATORY)		
Sample Collected:	08/19/1992	Findings:	275.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	08/19/1992	Findings:	336.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/19/1992	Findings:	.700 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	08/19/1992	Findings:	510.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	08/19/1992	Findings:	145.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/19/1992	Findings:	36.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/19/1992	Findings:	80.000 MG/L
Chemical:	SODIUM		
Sample Collected:	08/19/1992	Findings:	4.200 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/19/1992	Findings:	78.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/19/1992	Findings:	.340 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	08/19/1992	Findings:	840.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/19/1992	Findings:	.700
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	08/19/1992	Findings:	.005 MG/L
Chemical:	HYDROXIDE ALKALINITY		
Sample Collected:	08/19/1992	Findings:	26.400 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/19/1992	Findings:	.050 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	04/27/1993	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA		

Sample Collected:	04/27/1993	Findings:	1.000 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04/27/1993	Findings:	1.100 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	07/20/1993	Findings:	4.900 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07/20/1993	Findings:	2.200 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/20/1993	Findings:	1.500 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	09/14/1993	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/14/1993	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/14/1993	Findings:	1.600 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	11/09/1993	Findings:	2.000 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	11/09/1993	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11/09/1993	Findings:	5.700 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	11/09/1993	Findings:	1.700 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	08/23/1995	Findings:	940.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/23/1995	Findings:	8.000
Chemical:	PH (LABORATORY)		
Sample Collected:	08/23/1995	Findings:	240.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	08/23/1995	Findings:	292.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/23/1995	Findings:	1.900 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	08/23/1995	Findings:	377.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	08/23/1995	Findings:	105.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/23/1995	Findings:	28.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/23/1995	Findings:	62.000 MG/L
Chemical:	SODIUM		
Sample Collected:	08/23/1995	Findings:	4.100 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/23/1995	Findings:	44.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/23/1995	Findings:	.470 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	08/23/1995	Findings:	3.000 UG/L
Chemical:	ARSENIC		

Sample Collected:	08/23/1995	Findings:	590.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/23/1995	Findings:	1.000
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	08/23/1995	Findings:	.017 MG/L
Chemical:	HYDROXIDE ALKALINITY		
Sample Collected:	08/23/1995	Findings:	18.920 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/23/1995	Findings:	.200 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	08/23/1995	Findings:	4300.000 UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	12/31/1996	Findings:	19.800 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/04/1997	Findings:	2.800 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06/04/1997	Findings:	1.100 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/10/1997	Findings:	1.100 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	12/17/1997	Findings:	1.400 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		

5
East **CA WELLS** **4549**
1/2 - 1 Mile
Higher

Water System Information:

Prime Station Code:	04N/16W-24B02 S	User ID:	4TH
FRDS Number:	1910240018	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	342505.0 1183030.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL U-4		
System Number:	1910240		
System Name:	VALENCIA WC		
Organization That Operates System:			
	28769 CASTAIC CANYON ROAD		
	VALENCIA 91355		
Pop Served:	46500	Connections:	13396
Area Served:	VALENCIA		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	09/11/1989	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/11/1989	Findings:	13.000 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	09/11/1989	Findings:	2.300 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	01/08/1990	Findings:	1.900 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	01/08/1990	Findings:	1.300 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

Sample Collected:	01/08/1990	Findings:	1.000 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	02/26/1990	Findings:	1.100 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	07/26/1990	Findings:	1480.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/26/1990	Findings:	8.100
Chemical:	PH (LABORATORY)		
Sample Collected:	07/26/1990	Findings:	310.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/26/1990	Findings:	371.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/26/1990	Findings:	3.780 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/26/1990	Findings:	596.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/26/1990	Findings:	170.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/26/1990	Findings:	40.900 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/26/1990	Findings:	88.300 MG/L
Chemical:	SODIUM		
Sample Collected:	07/26/1990	Findings:	4.700 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/26/1990	Findings:	70.200 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/26/1990	Findings:	.350 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	07/26/1990	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07/26/1990	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/26/1990	Findings:	4.300 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	07/26/1990	Findings:	2.000 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	07/26/1990	Findings:	1.400 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	07/26/1990	Findings:	1000.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/26/1990	Findings:	1.200
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	07/26/1990	Findings:	29.440 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/21/1991	Findings:	1520.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	02/21/1991	Findings:	7.500
Chemical:	PH (LABORATORY)		
Sample Collected:	02/21/1991	Findings:	295.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		

Sample Collected:	02/21/1991	Findings:	358.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	02/21/1991	Findings:	.920 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	02/21/1991	Findings:	642.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	02/21/1991	Findings:	180.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	02/21/1991	Findings:	46.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	02/21/1991	Findings:	95.000 MG/L
Chemical:	SODIUM		
Sample Collected:	02/21/1991	Findings:	4.700 MG/L
Chemical:	POTASSIUM		
Sample Collected:	02/21/1991	Findings:	77.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	02/21/1991	Findings:	.340 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	02/21/1991	Findings:	1000.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02/21/1991	Findings:	.600
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	02/21/1991	Findings:	28.160 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/17/1991	Findings:	.600 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	10/14/1991	Findings:	1670.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/14/1991	Findings:	7.800
Chemical:	PH (LABORATORY)		
Sample Collected:	10/14/1991	Findings:	305.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/14/1991	Findings:	368.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/14/1991	Findings:	1.950 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	10/14/1991	Findings:	709.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/14/1991	Findings:	200.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/14/1991	Findings:	50.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/14/1991	Findings:	105.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/14/1991	Findings:	5.700 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/14/1991	Findings:	87.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/14/1991	Findings:	.330 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		

Sample Collected:	10/14/1991	Findings:	1150.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/14/1991	Findings:	1.000
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/14/1991	Findings:	29.480 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01/26/1993	Findings:	.700 UG/L
Chemical:	DICHLOROMETHANE		
Sample Collected:	10/19/1994	Findings:	17.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10/19/1994	Findings:	800.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/19/1994	Findings:	7.500
Chemical:	FIELD PH		
Sample Collected:	10/19/1994	Findings:	7.500
Chemical:	PH (LABORATORY)		
Sample Collected:	10/19/1994	Findings:	224.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/19/1994	Findings:	273.300 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/19/1994	Findings:	278.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/19/1994	Findings:	75.300 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/19/1994	Findings:	19.800 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/19/1994	Findings:	63.700 MG/L
Chemical:	SODIUM		
Sample Collected:	10/19/1994	Findings:	3.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/19/1994	Findings:	27.700 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/19/1994	Findings:	.900 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/19/1994	Findings:	453.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/19/1994	Findings:	.850
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/19/1994	Findings:	.080
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	10/19/1994	Findings:	14.900 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/19/1994	Findings:	12.120
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10/19/1994	Findings:	3363.000 UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03/29/1995	Findings:	2.000 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03/29/1995	Findings:	1.100 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

Sample Collected:	06/14/1995	Findings:	2.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06/14/1995	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/14/1995	Findings:	17.900 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/20/1995	Findings:	809.000 UG/L
Chemical:	BORON		
Sample Collected:	09/20/1995	Findings:	2.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/20/1995	Findings:	.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/27/1995	Findings:	20.100 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/13/1995	Findings:	865.000 UG/L
Chemical:	BORON		
Sample Collected:	12/13/1995	Findings:	2.800 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12/13/1995	Findings:	.900 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/13/1995	Findings:	17.900 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/27/1996	Findings:	19.300 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/17/1997	Findings:	2.950 PCI/L
Chemical:	URANIUM		
Sample Collected:	09/17/1997	Findings:	.054 PCI/L
Chemical:	URANIUM COUNTING ERROR		

6
NE **CA WELLS** **22763**
1/2 - 1 Mile
Higher

Water System Information:

Prime Station Code:	G19/048-SYSTM02	User ID:	MET
FRDS Number:	1910048003	County:	Los Angeles
District Number:	15	Station Type:	LAKE/AMBNT/MUN/INTAKE
Water Type:	Surface Water	Well Status:	Active Treated
Source Lat/Long:	342543.7 1183052.3	Precision:	100 Feet (one Second)
Source Name:	RIO VISTA WTP EFFLUENT - TREATED		
System Number:	1910048		
System Name:	CASTAIC LAKE WATER AGENCY		
Organization That Operates System:			
	27234 BOUQUET CANYON ROAD		
	SANTA CLARITA, CA 91350		
Pop Served:	160000	Connections:	11
Area Served:	SANTA CLARITA VALLEY		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	10/06/1997	Findings:	16.500 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10/06/1997	Findings:	510.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		

Sample Collected:	10/06/1997	Findings:	7.540
Chemical:	FIELD PH		
Sample Collected:	10/06/1997	Findings:	7.550
Chemical:	PH (LABORATORY)		
Sample Collected:	10/06/1997	Findings:	86.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/06/1997	Findings:	166.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/06/1997	Findings:	39.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/06/1997	Findings:	16.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/06/1997	Findings:	49.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/06/1997	Findings:	3.000 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/06/1997	Findings:	53.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/06/1997	Findings:	.250 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/06/1997	Findings:	7.600 MG/L
Chemical:	SILICA		
Sample Collected:	10/06/1997	Findings:	315.000 UG/L
Chemical:	BORON		
Sample Collected:	10/06/1997	Findings:	310.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/06/1997	Findings:	.330
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/06/1997	Findings:	- .640
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	10/06/1997	Findings:	.070 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	10/06/1997	Findings:	.110 MG/L
Chemical:	BROMIDE		
Sample Collected:	10/06/1997	Findings:	11.470
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10/06/1997	Findings:	1.600 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10/06/1997	Findings:	.600 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10/06/1997	Findings:	.700 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		

7
WNW
1/2 - 1 Mile
Lower

CA WELLS 4530

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Water System Information:

Prime Station Code:	04N/16W-15R02 S	User ID:	4TH
FRDS Number:	1910240005	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	342530.0 1183220.0	Precision:	Undefined
Source Name:	WELL Q-2		
System Number:	1910240		
System Name:	VALENCIA WC		
Organization That Operates System:			
	28769 CASTAIC CANYON ROAD VALENCIA 91355		
Pop Served:	46500	Connections:	13396
Area Served:	VALENCIA		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	09/11/1989	Findings:	2.600 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/11/1989	Findings:	2.200 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11/14/1989	Findings:	.600 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	01/08/1990	Findings:	1.100 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	01/08/1990	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02/26/1990	Findings:	.600 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/26/1990	Findings:	.600 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	07/26/1990	Findings:	1010.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/26/1990	Findings:	7.900
Chemical:	PH (LABORATORY)		
Sample Collected:	07/26/1990	Findings:	300.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/26/1990	Findings:	362.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/26/1990	Findings:	2.090 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/26/1990	Findings:	367.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/26/1990	Findings:	104.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/26/1990	Findings:	25.700 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/26/1990	Findings:	65.600 MG/L
Chemical:	SODIUM		
Sample Collected:	07/26/1990	Findings:	3.600 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/26/1990	Findings:	60.000 MG/L
Chemical:	CHLORIDE		

Sample Collected:	07/26/1990	Findings:	.410 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	07/26/1990	Findings:	2.700 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07/26/1990	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/26/1990	Findings:	5.900 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	07/26/1990	Findings:	1.400 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	07/26/1990	Findings:	.700 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	07/26/1990	Findings:	630.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/26/1990	Findings:	.900
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	07/26/1990	Findings:	26.440 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/17/1991	Findings:	.600 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	10/14/1991	Findings:	1030.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/14/1991	Findings:	7.600
Chemical:	PH (LABORATORY)		
Sample Collected:	10/14/1991	Findings:	290.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/14/1991	Findings:	352.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/14/1991	Findings:	1.010 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	10/14/1991	Findings:	335.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/14/1991	Findings:	84.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/14/1991	Findings:	30.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/14/1991	Findings:	66.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/14/1991	Findings:	3.900 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/14/1991	Findings:	68.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/14/1991	Findings:	.380 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/14/1991	Findings:	290.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/14/1991	Findings:	.500
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/14/1991	Findings:	28.160 MG/L
Chemical:	NITRATE (AS NO3)		

Sample Collected:	04/21/1992	Findings:	.700 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	05/24/1993	Findings:	2.600 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/24/1993	Findings:	.700 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	05/24/1993	Findings:	2.300 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	05/24/1993	Findings:	.600 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/19/1994	Findings:	15.500 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10/19/1994	Findings:	810.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/19/1994	Findings:	7.600
Chemical:	FIELD PH		
Sample Collected:	10/19/1994	Findings:	7.600
Chemical:	PH (LABORATORY)		
Sample Collected:	10/19/1994	Findings:	248.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/19/1994	Findings:	302.600 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/19/1994	Findings:	312.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/19/1994	Findings:	87.300 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/19/1994	Findings:	21.700 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/19/1994	Findings:	52.500 MG/L
Chemical:	SODIUM		
Sample Collected:	10/19/1994	Findings:	2.000 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/19/1994	Findings:	29.700 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/19/1994	Findings:	.700 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/19/1994	Findings:	459.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/19/1994	Findings:	1.070
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/19/1994	Findings:	.260
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	10/19/1994	Findings:	16.300 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/19/1994	Findings:	12.330
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10/19/1994	Findings:	3679.000 UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03/16/1995	Findings:	5.400 PCI/L
Chemical:	GROSS ALPHA		

Sample Collected:	03/16/1995	Findings:	2.100 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/21/1995	Findings:	3.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06/21/1995	Findings:	.900 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/21/1995	Findings:	3.000 PCI/L
Chemical:	URANIUM		
Sample Collected:	06/21/1995	Findings:	19.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/21/1995	Findings:	2.800 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/21/1995	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/27/1995	Findings:	17.600 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/27/1996	Findings:	18.500 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/06/1996	Findings:	19.300 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/13/1996	Findings:	.170 PCI/L
Chemical:	RA 226 + RA 228		
Sample Collected:	06/13/1996	Findings:	.100 PCI/L
Chemical:	RA 226 + RA 228 COUNTING ERROR		
Sample Collected:	06/21/1996	Findings:	4.000 PCI/L
Chemical:	URANIUM		

8
WSW **FRDS PWS** **CA1900029**
1/2 - 1 Mile
Lower

PWS ID:	CA1900029	PWS Status:	Not Reported
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	HILLTOP MUTUAL WATER COMPANY SAUGUS, CA 91350		

Addressee / Facility: System Owner/Responsible Party
HILLTOP MUTUAL WATER COMPANY
29900 FITCH AVENUE
SAUGUS, CA 91350

Facility Latitude:	34 24 41	Facility Longitude:	118 32 21
City Served:	Not Reported		
Treatment Class:	Untreated	Population:	25

PWS currently has or had major violation(s) or enforcement: Yes

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name:	HILLTOP MUTUAL WATER COMPA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1993-07-01 - 2015-12-31	Analytical Value:	0000000.000000000
Violation ID:	95V0001	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

Direction Distance	Database	EDR ID Number

NNW
1/2 - 1 Mile **OIL_GAS** **CA10040459**

Apinumber:	03701114	Operator:	CD Cunningham & HH MacAuley
Lease:	Bonelli	Well no:	1
Field:	Bouquet Canyon	Cagaso m3 area:	Any Area
Map:	252	Status cod:	006
Source:	hud		
Latitude:	34.430964		
Longitude:	-118.526977		
Td:	3823	Sec:	14
Twn:	04N	Rge:	16W
Bm:	SB	X coord:	0
Y coord:	0	Zone:	Not Reported
Spuddate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	2

NNW
1/2 - 1 Mile **OIL_GAS** **CA10040419**

Apinumber:	03701115	Operator:	CD Cunningham & HH MacAuley
Lease:	Bonelli	Well no:	2
Field:	Bouquet Canyon	Cagaso m3 area:	Any Area
Map:	252	Status cod:	006
Source:	hud		
Latitude:	34.430359		
Longitude:	-118.527073		
Td:	1257	Sec:	14
Twn:	04N	Rge:	16W
Bm:	SB	X coord:	0
Y coord:	0	Zone:	Not Reported
Spuddate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	2

North
1/2 - 1 Mile **OIL_GAS** **CA10040302**

Apinumber:	03701118	Operator:	Edward Lustgarten
Lease:	Lucky Lusty	Well no:	4
Field:	Bouquet Canyon	Cagaso m3 area:	Any Area
Map:	252	Status cod:	006
Source:	hud		
Latitude:	34.428629		
Longitude:	-118.525033		
Td:	5473	Sec:	14
Twn:	04N	Rge:	16W
Bm:	SB	X coord:	0
Y coord:	0	Zone:	Not Reported
Spuddate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	2

Direction Distance	Database	EDR ID Number

NNW
1/2 - 1 Mile **OIL_GAS** **CA10040220**

Apinumber:	03701121	Operator:	Union Oil Co of Ca
Lease:	Bonelli	Well no:	1
Field:	Bouquet Canyon	Cagaso m3 area:	Any Area
Map:	252	Status cod:	006
Source:	hud		
Latitude:	34.427481		
Longitude:	-118.528651		
Td:	2923	Sec:	14
Twn:	04N	Rge:	16W
Bm:	SB	X coord:	0
Y coord:	0	Zone:	Not Reported
Spuddate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	2

NNW
1/2 - 1 Mile **OIL_GAS** **CA10040194**

Apinumber:	03701116	Operator:	Edward Lustgarten
Lease:	Lucky Lusty	Well no:	1
Field:	Bouquet Canyon	Cagaso m3 area:	Any Area
Map:	252	Status cod:	014
Source:	hud		
Latitude:	34.427155		
Longitude:	-118.527646		
Td:	0	Sec:	14
Twn:	04N	Rge:	16W
Bm:	SB	X coord:	0
Y coord:	0	Zone:	Not Reported
Spuddate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	2

NNW
1/2 - 1 Mile **OIL_GAS** **CA10040032**

Apinumber:	03701117	Operator:	Edward Lustgarten
Lease:	Lucky Lusty	Well no:	3
Field:	Bouquet Canyon	Cagaso m3 area:	Any Area
Map:	252	Status cod:	006
Source:	hud		
Latitude:	34.425045		
Longitude:	-118.527084		
Td:	3200	Sec:	14
Twn:	04N	Rge:	16W
Bm:	SB	X coord:	0
Y coord:	0	Zone:	Not Reported
Spuddate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	2

Direction Distance	Database	EDR ID Number

East
1/4 - 1/2 Mile — **OIL_GAS** — **CA10039333**

Apinumber:	03706104	Operator:	ChevronTexaco Expl. & Prod. Co.
Lease:	N. L. & F.	Well no:	H-1
Field:	Any Field	Cagaso m3 area:	Any Area
Map:	252	Status cod:	006
Source:	hud		
Latitude:	34.418335		
Longitude:	-118.518894		
Td:	0	Sec:	24
Twn:	04N	Rge:	16W
Bm:	SB	X coord:	0
Y coord:	0	Zone:	Not Reported
Spuddate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	2

West
1/2 - 1 Mile — **OIL_GAS** — **CA10039217**

Apinumber:	03706041	Operator:	Mobil Oil Corp
Lease:	Bonelli	Well no:	14-23
Field:	Any Field	Cagaso m3 area:	Any Area
Map:	252	Status cod:	006
Source:	hud		
Latitude:	34.41737		
Longitude:	-118.535903		
Td:	0	Sec:	23
Twn:	04N	Rge:	16W
Bm:	SB	X coord:	0
Y coord:	0	Zone:	Not Reported
Spuddate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	2

SW
1/4 - 1/2 Mile — **OIL_GAS** — **CA10039058**

Apinumber:	03722335	Operator:	Conoco Inc
Lease:	Georgino-Swanson	Well no:	1
Field:	Any Field	Cagaso m3 area:	Any Area
Map:	252	Status cod:	006
Source:	hud		
Latitude:	34.413866		
Longitude:	-118.530001		
Td:	0	Sec:	23
Twn:	04N	Rge:	16W
Bm:	SB	X coord:	0
Y coord:	0	Zone:	Not Reported
Spuddate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	2

Direction Distance	Database	EDR ID Number

South
1/4 - 1/2 Mile — **OIL_GAS** — **CA10039034**

Apinumber:	03705299	Operator:	Community Oil Producers
Lease:	Well No.	Well no:	2
Field:	Any Field	Cagaso m3 area:	Any Area
Map:	252	Status cod:	002
Source:	hud		
Latitude:	34.412943		
Longitude:	-118.524344		
Td:	0	Sec:	23
Twn:	04N	Rge:	16W
Bm:	SB	X coord:	0
Y coord:	0	Zone:	Not Reported
Spuddate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	2

South
1/4 - 1/2 Mile — **OIL_GAS** — **CA10039030**

Apinumber:	03705298	Operator:	Community Oil Producers
Lease:	Well No.	Well no:	1
Field:	Any Field	Cagaso m3 area:	Any Area
Map:	252	Status cod:	006
Source:	hud		
Latitude:	34.412754		
Longitude:	-118.523873		
Td:	0	Sec:	23
Twn:	04N	Rge:	16W
Bm:	SB	X coord:	0
Y coord:	0	Zone:	Not Reported
Spuddate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	2

South
1/2 - 1 Mile — **OIL_GAS** — **CA10038775**

Apinumber:	03705668	Operator:	Mobil Oil Corp
Lease:	Circle J	Well no:	2
Field:	Any Field	Cagaso m3 area:	Any Area
Map:	252	Status cod:	006
Source:	hud		
Latitude:	34.404516		
Longitude:	-118.520791		
Td:	0	Sec:	26
Twn:	04N	Rge:	16W
Bm:	SB	X coord:	0
Y coord:	0	Zone:	Not Reported
Spuddate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	2

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
91350	27	0	0.00

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 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 and 2005 from the U.S. Fish and Wildlife Service.

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 Services
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 Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, 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.

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

California Drinking Water Quality Database
Source: Department of Health Services
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

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.

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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EXHIBIT 2: DOKKEN REPORT

INITIAL SITE ASSESSMENT
FOR THE CROSS VALLEY CONNECTOR EAST PROJECT

Prepared by:

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Jason W. Lemons, P.E.
Project Engineer
November 23, 2005

REGISTERED PROFESSIONAL ENGINEER
JASON W. LEMONS
No. C66224
Exp. 06/30/06
CIVIL
STATE OF CALIFORNIA

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ATTACHMENTS

A **Initial Site Assessment Checklist**

B **Figures**

C **ISA Layout exhibits (1-6)**

D **ISA Oil Well Location exhibit**

APPENDICES

A **Real Quest Inc. Property Detail Reports**

B **Department of Conservation Division of Oil, Gas & Geothermal Resources – Well Files**

C **ACOE Conceptual Hydrogeology Technical Memorandum for the Bermite Whittaker site contamination**

D **EDR Site Assessment and Report**

1. INTRODUCTION AND INVESTIGATIVE SUMMARY

Dokken Engineering has prepared this Initial Site Assessment (ISA) to identify and evaluate potential hazardous waste materials within the proposed boundaries of the Cross Valley Connector East project (The project). The project is located within the City of Santa Clarita in the County of Los Angeles, California.

Dokken Engineering consulted multiple sources to evaluate potential hazards within the project vicinity. Dokken Engineering searched agency database records for the project vicinity through Environmental Data Resources (EDR). The EDR records search identified business types located within the project study area likely to store, transfer, or utilize large quantities of hazardous materials. This information was obtained from records maintained by the State of California Department of Health, the Regional Water Quality Control Board, and other appropriate agencies. Since the area is known for oil speculation and production; Dokken Engineering contacted the State of California – Department of Conservation Division of Oil, Gas & Geothermal Resources. Dokken Engineering also reviewed property ownership and history via Real Quest Inc. Dokken Engineering contacted the State of California Environmental Protection Agency – Department of Toxic Substance Control (DTSC). Finally, Dokken Engineering consulted other engineering documents prepared for projects within the vicinity of the project. In addition to this report Dokken Engineering prepared a California Department of Transportation (Caltrans) standard Initial Site Assessment Checklist, included as Attachment A.

This report documents the findings of the site assessment activities. According to the data gathered the actual project site contains no known hazardous waste, or concern for hazardous waste contamination. The findings of this report have determined that there are two Areas of Potential Concern for the project.

1. The site is located within a known oil field. There are three known abandoned wells within ¼ mile of the project. There is no documented spill or contamination associated with any one of these wells. The Conclusions and Recommendations section of this report contains the recommended action for this Area of Potential Concern.
2. There is an active California Environmental Protection Agency Annual Workplan (AWP) site within ½ to 1 mile of the project limits. This site is known to contain hazardous contamination in both the soil underneath the site as well as a plume of hazardous contaminated groundwater. The CVCE project will not impinge upon these contaminated soils however there is a low potential that the contaminated groundwater may have migrated underneath the project site. The Conclusions and Recommendations section of this report contains the recommended action for this Area of Potential Concern.

2. PROJECT DESCRIPTION

The proposed Cross Valley Connector East Project includes the construction of a new 6 lane roadway between Soledad Canyon Road and Bouquet Canyon Road in the City of Santa Clarita. This project will ultimately form part of the Cross Valley Connector to connect the Golden State Freeway (I-5) with the Antelope Valley Freeway (Highway 14). Figure 1 (Attachment B) shows the regional map of the area of the proposed project.

The project will extend Newhall Ranch Road from its intersection with Bouquet Canyon Road approximately two miles to the east, where it will connect with the proposed Golden Valley Road project that is currently under construction. The project area can be referenced in the vicinity map in Figure 2 (Attachment B). The project includes approximately two miles of new roadway and includes two new bridges. The first bridge is an approximately 100 ft long single span bridge over the historic Los Angeles Aqueduct water pipeline. The second bridge is a ~980 ft multi-

span bridge that crosses the Santa Clara River. The project typical section includes six mixed-use lanes with a 14 ft median, 5 ft sidewalks in both directions and a class-I bikeway on the southerly side of the CVC. Figure 3 (Attachment B) shows the proposed alignment of the proposed Cross Valley Connector.

The proposed location for the project (Site) is located in an undeveloped setting – the land is presently classified as vacant irrigated pasture and vacant dry fields. Figure 4 (Attachment B) contains photos that demonstrate the existing land uses at the project site. Attachment A – ISA Layout Exhibits contains exhibits that demonstrate the project footprint overlaid upon a current aerial photograph of the project site. The land immediately to the south of the proposed Newhall Ranch Road project is scheduled to be developed by the Newhall Land and Farming company.

In 1994 the Castaic Lake Water Agency (CLWA) constructed the Rio Vista Water Treatment Facility which included new raw and treated water lines located within the proposed alignment of Newhall Ranch Road. Attachment C 'Exhibits' includes layout exhibits of the proposed project; demonstrated in these exhibits is the layout of the Rio Vista Water Treatment Pipeline easement. During construction of these water lines CLWA performed rough grading that was intended to accommodate the future extension of Newhall Ranch Road including associated cut and fill slopes. This work included rough grading for the first 5,600 feet of the proposed alignment of Newhall Ranch Road.

3. PURPOSE

Chapter 18 of the California Department of Transportation (Caltrans) document titled *Project Development Procedures Manual (1999)* states that "every project that includes excavation, structure demolition or modification, or the purchase of new right-of-way, will require an ISA to determine if known or potential hazardous waste is present within the project limits." The work outlined below addresses the requirements specified in the Project *Development Procedures Manual* and Chapter 10 of the Department's publication titled "Environmental Handbook Volume I" (2004).

- Performance of a limited visual reconnaissance to locate possible areas of contaminated surface soil or surface water, improperly stored hazardous materials, possible sources of polychlorinated biphenyls (PCBs), and potential risk of contamination from activities at the project area and adjacent properties.
- Review of available maps and environmental reports pertaining to the project area.
- Review of available regulatory agency databases in order to assess if violations or environmental problems exist, have existed, or are suspected to exist within a 1,000 foot radius of project study area that may be detrimental to the environmental integrity of the area. These databases list locations of known hazardous waste sites, landfills, and leaking underground storage tanks, permitted facilities that utilize underground storage tanks, and facilities that use, store or dispose of hazardous materials.
- Preparation of an ISA report documenting findings and providing recommendation regarding potential environmental impacts to the project area.

4. METHODOLOGY

There were no limiting conditions such as: weather, facility access, physical obstruction, bodies of water, or other obstacles that limited or prevented the environmental site assessment investigation.

This scope of work followed by this assessment is designed to meet or exceed the standard practice set forth by the California Department of Transportation (Caltrans) and applicable

portions of the American Society for Testing and Materials (ASTM Designation: E1527-00 "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process").

. The preparation of this ISA included the investigations listed below:

- Performance of an agency records search in order to identify all California certified hazardous waste sites within the project study area. Where problematic hazardous waste sites were identified within the project study area (via governmental records and/or the visual survey), the potential impacts to the project and subsequent procedures to determine the extent of contamination and remediation requirements were identified.
- Performance of an agency records search in order to identify business types located within the project study area that would be likely to store, transfer, or utilize large quantities of hazardous materials.
- Performance of a search and review of environmental and engineering reports & maps for sites within or adjacent to the project limits.
- Performance of property records search to determine historical and current land use for the site.
- Performance of a visual reconnaissance of the site and study area to evaluate possible environmental hazards that may impact the implementation of the proposed project.

5. BACKGROUND

5.1. Historical and Current Land Usage

Parcel Information:

Real Quest Inc. was consulted for property detail reports and parcel maps for all of the parcels that the project is located on as well as properties adjacent to the project. The parcel lines and project limits are located in Attachment D 'Exhibits'. The proposed alignment of Newhall Ranch Road crosses over 3 existing parcels.

a. APN # 2849-001-022 Owned currently by Newhall Land and Farming Company. This parcel is unused presently and is categorized as vacant irrigated pasture. This parcel has no identified previous owners to Newhall Land & Farming Company.
b. APN # 2849-003-900 Owned currently by the Castaic Lake Water Agency (CLWA). A portion of this parcel is occupied by the CLWA Rio Vista Water Treatment Plant. The portion of this parcel that the proposed alignment of Newhall Ranch Road crosses over is comprised of vacant hillside pastureland.
c. APN # 2849-002-017 Owned currently by the Newhall Land and Farming Company. This parcel is unused presently and is categorized as vacant field – dry. This parcel has no identified previous owners to Newhall Land & Farming Company.

In general the historical land uses for the project site was pasture and farm land. Portions of the Newhall Land and Farming Companies land were used for oil exploration in the past. There is a discussion of the abandoned oil wells located within the vicinity of the project in the database records search section of this document.

5.2. Site Geology and Hydrology

Allen E. Seward Engineering Geology, Inc. prepared a Geologic and Geotechnical Report for the River Park development project which is immediately adjacent to the proposed

alignment of Newhall Ranch Road. Dokken Engineering used this report as a resource for Site geology and Hydrology.

Site geology:
The site is situated in the western Transverse Ranges geomorphic province in the western portion of the Soledad Basin just north of the San Gabriel fault zone. There is a thick accumulation of sedimentary rocks in this structural/depositional basin. The elevated portion of the site is underlain by accumulation of ancient river channel deposits deposited on a series of successively lower benches cut into the bedrock by the ancestral Santa Clara River.

Site hydrology:
According to AES Engineering Geology interpolation from current and historic data indicates that historic ground water level has risen to within 5 feet of existing ground surface along margins of the Santa Clara River. Ground water elevations measured during subsurface investigations ranged from 14.25 feet to 34 feet. Dewatering may locally be required to complete the necessary removals. It should be noted that the ground water table will fluctuate up and down in response to natural recharge and pumping requirements.

6. SITE RECONAISSANCE

A representative of Dokken Engineering conducted a limited site reconnaissance survey on March 11, 2003. This survey determined that there are no apparent environmental hazards within the project limits. There was no visible or odoriferous evidence of current or historical hazardous waste dumping on the site. The project site is unused pasture and farmland with some miscellaneous trails and dirt paths that cross through the site. The photos in Figure 2 (Attachment B) demonstrate the general site conditions. The most notable non-natural feature within the project limits is the Los Angeles County Department of Water and Power aqueduct. This large above ground aqueduct is in a north-south alignment through the project site. In addition there are large power line transmission towers that cross the site in a north-south alignment as well. There was some miscellaneous debris within the site limits. This debris was not considered toxic. Beside the aqueduct and power transmission lines there are no existing buildings or structures within the project limits. The design of the project avoids both the aqueduct and transmission towers therefore there is no demolition of structures anticipated for this project.

7. AGENCY RECORD SEARCH

7.1. California Department of Conservation - Division of Oil, Gas and Geothermal Resources.

Dokken Engineering reviewed the California Department of Conservation – Division of Oil, Gas and Geothermal Resources (DOGGR) oil field maps to determine if any oil exploration/production took place within the project limits. It was determined that there were three wells located within 2,000 feet of the project alignment. Dokken Engineering contacted the DOGGR to gather well files for each of these wells. The exhibit included in Attachment D – 'Oil Well Locations' shows the approximate location of each well with respect to Newhall Ranch Road. These wells were pioneered in the late 1950's, of the three, one produced oil. These well files are included as **Appendix A** to this document.

Well Number 1 – Union Oil Company 'Bonelli #2'
'Bonelli #2' was explored and abandoned in July of 1959 by the Union Oil Company. This well is approximately 900 feet from the project site. It was drilled to a maximum depth of 3,096 feet and was found to be dry (no oil). The well was immediately abandoned and

plugged according to DOGGR standards. DOGGR inspectors supervised the abandonment operation and there are no known spills or complaints associated with this well.

Well Number 2 – Edward Lustgarten 'Lucky Lusty #1'
'Lucky Lusty #1' was explored in April of 1958 and found to produce oil. This well is approximately 800 feet from the project site. The records are unclear as to how much oil this well produced however it ceased production of oil in September of 1971. The well was abandoned in February of 1972 according to DOGGR standards. DOGGR inspectors supervised the abandonment operation and there are no known spills or complaints associated with this well.

Well Number 3 – Edward Lustgarten 'Lucky Lusty #3'
'Lucky Lusty #3' was explored in February of 1960. This well is within 250 feet of the project site. It was drilled to a maximum depth of 3,200 feet and found to be dry (no oil). The well was abandoned in May of 1961 according to DOGGR standards. DOGGR inspectors supervised the abandonment operation and there are no known spills or complaints associated with this well. During construction the exact location of this well should be determined and marked by the contractor.

It does not appear that these wells have contributed to soil or groundwater contamination that will affect the project. However, these wells are considered an Area of Potential Concern. Since the project is within the proximity of known oil fields, there is the potential for un-identified or un-reported exploratory wells, the contractor should be cautioned of this potential. If groundwater is encountered during construction the water should be tested for contamination. Furthermore, the exact location of three abandoned oil wells should be determined during final design of the project, and these well locations should be made available to the Contractor during the bidding process. If any well identified above or un-identified is determined to be located within the construction limits it should be treated per DOGGR standards. DOGGR regulates construction/development over abandoned oil wells. Prior to grading or construction, the well casings should be located and exposed for inspection by DOGGR personnel. If the plans indicate that the existing ground elevations above the well are lowered, the DOGGR may require that the well is re-abandoned. The location of the closest known well, Lucky Lusty #3 is close to a 'Fill' section of the project and re-abandonment is not considered likely.

7.2. Database Record Search

Dokken Engineering consulted with EDR to obtain government records searches of any known hazardous waste sites, hazardous waste incidents, or hazardous waste generators within a 2-mile radius of the project site. Refer to **Appendix B** for a copy of the EDR report. The records search reviewed a number of agency database sources to determine whether there are any known hazardous waste sites in the vicinity of the project. The following Table 1, Databases Searched Summary, is a list of agencies, databases, and types of records consulted by EDR in its governmental records search.

TABLE 1 – DATABASES SEARCHED SUMMARY

A) Federal ASTM Standard:

AGENCY	LIST	DESCRIPTION
U.S. EPA[1]	NPL	National Priority List
U.S. EPA	Proposed NPL	CalSites Database
U.S. EPA	CERCLIS	Comprehensive Environmental Response,

		Compensation, and Liability (CERCLA)Information System
U.S. EPA	CERC-NFRAP	CERCLA- No Further Remedial Action Planned Report
U.S. EPA	CORRACTS	Corrective Actions Report (without TSD)
U.S. EPA	RCRIS-TSD	Resource Conservation and Recovery Information System
U.S. EPA	RCRA-LQG	Resource Conservation and Recovery Act Large Quantity Generators (GNRTR)
U.S. EPA	RCRIS-SQG	RCRIS Small Quantity Generators (GNRTR)
U.S. EPA	ERNS	Emergency Response Notification System

B) State ASTM Standard:

AGENCY	LIST	DESCRIPTION
CalEPA	AWP	Annual Workplan Sites
DTSC[2]	Cal-Sites	CalSites Database
OES[3]	CHMIRS	California Hazardous Material Incident Report System
U.S. EPA	CORTESE	Cortese List- Hazardous Waste Substance Site List
SWRCB[4]	Notify 65	Proposition 65 Records
SWRCB	Toxic Pits	Toxic Pits Cleanup Act Sites
IWMB[5]	SWF/LF	Solid Waste Information System
SWRCB	WMUDS/SWAT	Waste Management Unit Database
SWRCB	LUST	Leaking Underground Storage Tanks Information System
DHS[6]	CA Bond Exp. Plan	Bond Expenditure Plan
SWRCB	UST	Underground Storage Tank Facilities
DTSC	VCP	Voluntary Cleanup Program Properties
EPA Region 9	Indian UST	Underground Storage Tanks on Indian Land
CalEPA	CA FID UST	Facility Inventory Database
SWRCB	HIST UST	Hazardous Substance Storage Container Database

C) Federal ASTM Supplemental Records:

AGENCY	LIST	DESCRIPTION
U.S. EPA	CONSENT	Superfund (CERCLA) Consent Decrees
U.S. EPA	ROD	Record of Decision
U.S. EPA	Delisted NPL	National Priority List Deletions
U.S. EPA	FINDS	Facility Index System/Facility Identification Initiative Program Summary Report
U.S. DOT[7]	HMIRS	Hazardous Materials Information Reporting System
NRC[8]	MLTS	Material Licensing Tracking System
DOL[9]	MINES	Mines Master Index File
U.S. EPA	NPL Liens	Federal Superfund Liens
U.S. EPA	PADS	PCB Activity Database System
U.S. EPA	RAATS	RCRA Administrative Action Tracking System
U.S. EPA	TRIS	Toxic Chemical Release Inventory System
U.S. EPA	TSCA	Toxic Substances Control Act
U.S. EPA	SSTS	Section 7 Tracking Systems
U.S. EPA	FTTS	FIFRA/TSCA Tracking System (Federal

		Insecticide, Fungicide, & Rodenticide Act/Toxic Substances Control Act)

D) State or Local ASTM Supplemental:

AGENCY	LIST	DESCRIPTION
SWRCB	AST	Aboveground Petroleum Storage Tank Facilities
DTSC	CLEANERS	Cleaner Facilities
SWRCB	CA WDS	Waste Discharge System
DTSC	DEED	List of Deed Restrictions
RWQCB	CA SLIC	California Spills, Leaks, Investigation & Cleanup
CalEPA	HAZNET	Hazardous Waste Information System
Dept. Public Works	Los Angeles Co. HMS	Street Number List
CHS[10]	LA Co. Site Mitigation	Site Mitigation List
Cal EPA	AOCONCERN	Areas of Concern

[1] Environmental Protection Agency
[2] Department of Toxic Substances Control
[3] Office of Emergency Services
[4] State Water Resources Control Board
[5] Integrated Waste Management Board
[6] Department of Health Services LA County Public Health Investigations
[7] Department of Transportation
[8] Nuclear Regulatory Commission
[9] Department of Labor, Mine Safety and Health Administration
[10] Community Health Services

The EDR database records search determined all database records associated with each respective list according to their proximity to the site. The following table, Table 2 Database search findings, demonstrates all of the records findings for listed sites within a one-mile vicinity of the project limits.

TABLE 2 – DATABASES SEARCH FINDINGS

A) Federal ASTM Standard:

Agency	List	Findings <1/8 mile	Findings 1/8-1/4 mile	Findings 1/4-1/2 mile	Findings 1/2-1 mile
U.S. EPA1	NPL	0	0	0	0
U.S. EPA	Proposed NPL	0	0	0	0
U.S. EPA	CERCLIS	0	0	0	1
U.S. EPA	CERC-NFRAP	0	0	0	2
U.S. EPA	CORRACTS	0	0	0	2
U.S. EPA	RCRIS-TSD	0	0	0	2
U.S. EPA	RCRA-LQG	0	0	0	1
U.S. EPA	RCRIS-SQG	0	0	0	11
U.S. EPA	ERNS	0	0	0	9

B) State ASTM Standard:

Agency	List	Findings <1/8 mile	Findings 1/8-1/4 mile	Findings 1/4-1/2 mile	Findings 1/2-1 mile
CalEPA	AWP	0	0	0	1
DTSC[2]	Cal-Sites	0	0	0	1

OES[3]	CHMIRS	0	0	0	2
U.S. EPA	CORTESE	0	0	0	11
SWRCB[4]	Notify 65	0	0	0	0
SWRCB	Toxic Pits	0	0	0	0
IWMB[5]	SWF/LF	0	0	0	0
SWRCB	WMUDS/SWAT	0	0	0	0
SWRCB	LUST	0	0	0	10
DHS[6]	CA Bond Exp. Plan	0	0	0	0
SWRCB	UST	0	0	0	6
DTSC	VCP	0	0	0	0
EPA R-9	Indian UST	0	0	0	0
EPA R-9	Indian LUST	0	0	0	0
CalEPA	CA FID UST	0	0	0	0
SWRCB	HIST UST	0	0	1	11

C) Federal ASTM Supplemental Records:

Agency	List	Findings <1/8 mile	Findings 1/8-1/4 mile	Findings 1/4-1/2 mile	Findings 1/2-1 mile
U.S. EPA	CONSENT	0	0	0	0
U.S. EPA	ROD	0	0	0	0
U.S. EPA	Delisted NPL	0	0	0	0
U.S. EPA	FINDS	0	0	0	12
U.S. DOT[7]	HMIRS	0	0	0	0
NRC[8]	MLTS	0	0	0	0
DOL[9]	MINES	0	0	0	0
U.S. EPA	NPL Liens	0	0	0	0
U.S. EPA	PADS	0	0	0	0
U.S. EPA	RAATS	0	0	0	1
U.S. EPA	TRIS	0	0	0	0
U.S. EPA	TSCA	0	0	0	0
U.S. EPA	SSTS	0	0	0	0
U.S. EPA	FTTS	0	0	0	0

D) State or Local ASTM Supplemental:

Agency	List	Findings <1/8 mile	Findings 1/8-1/4 mile	Findings 1/4-1/2 mile	Findings 1/2-1 mile
SWRCB	AST	0	0	0	1
DTSC	CLEANERS	0	0	0	3
SWRCB	CA WDS	0	0	0	2
DTSC	DEED	0	0	0	0
RWQCB	CA SLIC	0	0	0	2
CalEPA	HAZNET	0	0	0	33
Dept. Public Works	Los Angeles Co. HMS	0	0	3	62
CHS[10]	LA Co. Site Mitigation	0	0	0	1
Cal EPA	AOCONCERN	0	0	0	0

Database search results discussion:
The type of site as well as horizontal and relative vertical proximity to the project limits will determine the potential for a listed hazardous waste site to cause contamination within the project limits. It is important to first review the database results based upon the type and proximity of a listed site to determine whether further analysis is reasonably warranted.

Zero to ¼ mile from project limits:
Between 0 and ¼ mile from the project limits the tables above show that there are no listed sites within ¼ mile of the project limits (including the site itself).

¼ to ½ mile from project limits:
There are a total of four listed sites within ¼ to ½ mile of the project site. One site is listed twice once as a SWRCB HIST UST (hazardous material storage tank list) and as a County of LA HMS (hazardous material underground storage tank list for the County), the other two sites are listed as HMS sites.

1. Saugus Swap Meet/ Saugus Speedway (22500 W. Soledad Canyon Road). This site is listed twice, once as a SWRCB HIST UST and as an HMS (both cover the hazardous UST's), in this case the site has automotive fuel storage tanks. There are no spills or violations associated with this site, furthermore it is relatively lower in elevation to the project site. It is considered a low risk to the project.
2. Bonelli Phar Prod (22500 W. Soledad Canyon Road). This site is listed as a County of LA HMS site. The type and size of tank is unknown, however there are no violations associated with this site and it is at a relatively lower elevation to the project site and thus is considered a low risk to the project.
3. Santa Clarita Water Co. (22722 Soledad Canyon Road). This site is listed as a County of LA HMS site. The type and size of tank is unknown, however there are no violations associated with this site and it is at a relatively lower elevation to the project site and thus is considered a low risk to the project.

½ to 1 mile from project limits:
As the search radius widens the likelihood of listings increases dramatically. The EDR record search determined that there are a total of one hundred eighty seven listed sites within ½ to 1 mile of the project site. At this distance it is important to look at the type of site to determine potential risk of contamination to the project. For this range in distance from the project site ASTM 1527-00 mandates a search of three critical lists:

1. National Priority List (NPL) – There are no NPL sites within 2 miles of the project limits.
2. RCRA CORRACTS (CORRACTS) – There are two CORRACTS sites within ½ and 1 mile of the project limits – there are none between 1 and 2 miles of the project limits.
3. State Equivalent NPL (California EPA AWP) – There is 1 AWP site within ½ and 1 mile of the project limits – there are no AWP sites between 1 and 2 miles of the project limits. This single site is located on both the CORRACTS list and the AWP list.

CORRACTS Sites: This list contains handlers with RCRA Corrective Action Activity.

1. American Cyanamid (21444 Golden Triangle Road)
   The American Cyanamid site was located on 17 different agency lists. This site is approximately 0.91 mile East / Southeast from the project limits. The site is at a relatively higher elevation than the project site at an elevation of 1,238 feet (the project site elevation is 1,222 feet). This site was identified on the CORRACTS list, the corrective action

summary for this site indicates that the last activity was on 09/15/1991 – on this date the facility was assigned a low corrective action priority. Further investigation indicates that this site was placed on the CERCLIS-NFRAP list. NFRAP (no further remedial action planned) are sites where; following initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. According to the RCRAInfo database the site achieved compliance with all federal actions on June 8, 1994. The site has been occupied by the Simply Discount Furniture store since 1995. Based upon the regulatory status and distance from the project limits, this site is not considered a risk for project site contamination.

2. Whittaker Bermite (22116 West Soledad Canyon Road)
The Whittaker Bermite site was located on 16 different agency lists including the California EPA AWP list). The site is approximately 0.56 mile south from the project limits. This site is at a relatively lower elevation than the project site at an elevation of 1,205 feet (17 feet below the project site). This 976 acre site was owned by a manufacturer of fireworks, explosives, rockets and munitions from 1906 to 1987. The manufacture of rocket propellants, fireworks and explosives is known to use Ammonium Perchlorate (Perchlorate). Perchlorate is an inorganic chemical that interferes with the ability of the thyroid gland to produce thyroid hormones. Thyroid hormones are critical to the normal growth and development of the central nervous system of fetuses and infants (source US EPA). The Whittaker-Bermite site is known to be contaminated with Perchlorate. This large site has been subdivided into multiple 'Operable Units' (OU's). Several of these OU's have undergone soil remediation cleanup activity for the purpose of opening these sites to municipal uses such as a new transit station and school.

   Dokken Engineering contacted the California Department of Toxic Substance Control (DTSC) Site Remediation project manager Jose Diaz to assess the risk to the CVCE project from the Bermite site. Dokken Engineering was directed to the US Army Corps of Engineers (ACOE) website to view the Eastern Santa Clara Subbasin Groundwater study Conceptual Hydrogeology Technical Memorandum prepared by CH2MHill for the ACOE. To summarize this report, groundwater in the area is moves in a general west-northwest from the site, approximately parallel to the San Gabriel fault. There are ongoing studies of the extent and potential treatment of groundwater contamination; there is a website dedicated to the remediation of this site (www.bermite.com) The observed levels of Perchlorate contamination lessen with the distance from the Whittaker Bermite site. Furthermore, the levels of contamination appear to lessen at a more rapid rate north of the Whittaker Bermite site.

   The Whittaker Bermite site is considered to be an Area of Potential Concern. Though low, there is the potential of encountering contaminated groundwater when constructing the proposed bridge structures. If groundwater is encountered during construction the DTSC should be notified and the water should be tested for contamination. It is recommended that construction techniques that minimize or eliminate the need for groundwater extraction be applied to the design of these bridges. It is further recommended that the groundwater and soils in proximity to the proposed bridge structures be tested for contamination during the final design of the project.

8. CONCLUSIONS AND RECOMMENDATIONS

Based upon the data reviewed in preparation of this report, Dokken Engineering have determined two Areas of Potential Concern that may contribute to groundwater and subsurface soil

contamination within the project limits. The following are recommendations for the proposed construction project.

- The exact location of three abandoned oil wells should be determined during final design of the project, and these well locations should be made available to the Contractor during the bidding process.

- If any well is determined to be located within the construction limits (known wells during final design, or un-identified wells during construction) it should be treated per DOGGR standards. DOGGR regulates construction/development over abandoned oil wells. Prior to grading or construction, the well casings should be located and exposed for inspection by DOGGR personnel.

- The projects structural design should consider construction practices that eliminate or minimize the need for de-watering. The groundwater and soils in proximity to the proposed bridge structures should be tested for contamination during the final design of the project. If the groundwater or soil is found to be contaminated, this contamination should be addressed in the plans and specifications for the project. If dewatering activities are required for the project, a discharge permit from the city, county, and/or state will be needed. The discharge permit will require the collection and analysis of groundwater samples prior to discharge. If contaminated soil and/or groundwater are encountered during the proposed project, the responsible party (e.g., property owner or operator) is liable for the contaminated soil or groundwater. If the contaminated soil or groundwater is transported from the site, the parties involved in removing the contaminated soil/groundwater will incur liability for the proper handling, storage and disposal of the material. These parties then have the potential to recover costs associated with the handling, storage and disposal of the contaminated soil or groundwater from the parties responsible for the contamination.

- Regardless of the findings related to the final design groundwater & soil contamination study or the oil well location study. The project's estimate should include a contingency associated with the removal and or treatment of contaminated soils, groundwater and re-abandonment of oil wells.

- A Site Safety Plan, which addresses the management of potential health and safety hazards to workers and the public, should be prepared and implemented prior to initiation of the proposed construction activities.

9. LIMITATIONS

This report was prepared for City of Santa Clarita for the Cross Valley Connector East project. The information in this document is solely for the use of the City of Santa Clarita, this information can not be reproduced without written consent from Dokken Engineering and the City of Santa Clarita. Dokken Engineering makes no warranty, expressed or implied, concerning the contents or recommendations contained in this report.

This report is issued with the understanding that it is the responsibility of the City of Santa Clarita to ensure that the information and recommendations contained herein are brought to the attention of the regulatory agencies, if required.

All Areas of Potential Concern are based upon known (documented) sites. There is the potential for unknown (un-documented) environmental hazards within the project limits and adjacent to the project to negatively affect the site. All opinions and recommendations of this report are based upon the information available to Dokken Engineering; over time, through natural or human influences, site conditions may change. Specifically in reference to sub-surface conditions; the report is limited to information gathered from outside parties, and is limited by the accuracy of the data contained in those references. Therefore, the findings of this report may be invalidated by changes, such as those mentioned above, that are outside the control of Dokken Engineering and EDR.

10. REFERENCES

Environmental Data Resources, Inc. (EDR), 2004-2005, Cross Valley Connector East, Santa Clarita, CA 91351. Inquiry number 01209277.1r; dated June 10, 2004 with an update of selected Area of Potential Concern information in October, 2005.

Allen E. Seward Engineering Geology, Inc. (AES), 2003, Geologic and Geotechnical Report for the River Park Project, dated April 4, 2003.

State of California Department of Conservation – Division of Oil, Gas, & Geothermal Resources (DOGGR), 2005, Oil Well Logs and Oil Field Maps, dated September 28, 2005.

State of California Environmental Protection Agency – Department of Toxic Substance Control (DTSC), 2005, Whittaker Bermite Clean-Up website (www.bermite.com), dated October 2005.

United States Army Corps of Engineers – Los Angeles District, 2005, Eastern Santa Clara Subbasin Groundwater Study – Conceptual Hydrogeology Technical Memorandum, dated January 19, 2005.

11. ATTACHMENTS AND APPENDICES

ATTACHMENTS

A **Initial Site Assessment Checklist**

B **Figures**

C **ISA Layout exhibits (1-6)**

D **ISA Oil Well Location exhibit**

APPENDICES

A **Real Quest Inc. Property Detail Reports**

B **Department of Conservation Division of Oil, Gas & Geothermal Resources – Well Files**

C **ACOE Conceptual Hydrogeology Technical Memorandum for the Bermite Whittaker site contamination**

D **EDR Site Assessment and Report**

APPENDIX A
INITIAL SITE ASSESSMENT (ISA) CHECKLIST

INITIAL SITE ASSESSMENT (ISA) CHECKLIST

Project Information

District 7 County Los Angeles Route Newhall Ranch Rd/Golden Valley Rd Km Post (Post Mile) N/A EA N/A

Description: The project would involve the extension of two roadways, Newhall Ranch Road and Golden Valley Road, in the City of Santa Clarita (Figures 1 and 2(Attachment B)). Newhall Ranch Road would be extended by approximately 2.0 miles to the east of Bouquet Canyon Road. The new segment of Golden Valley Road would extend approximately 2,000 feet north of Soledad Canyon Road, where it would connect with the proposed Newhall Ranch Road. The proposed typical section of the alignment would include a six-lane roadway of approximately 120 feet in width, with a 14-foot median island and pedestrian and bicycle lanes (Figure 3(Attachment B)). The proposed Golden Valley Road segment would require the construction of a bridge across the Santa Clara River and would traverse undeveloped open space (e.g., vacant lot, natural riverbed, scrub habitat) parallel to an overhead power line corridor. The proposed roadways are included as Major Arterial Highways in the City's General Plan.

Is the project on the HW Study Minimal-Risk Projects List (HW1)? No

Project Manager Hoon Hahn phone # (661) 255-4953

Project Engineer Jason Lemons phone # (858) 514-8377

Project Screening

Attach the project location map to this checklist to show location of all known and/or potential HW sites identified.

1. Project Features:

New R/W?	Yes
Excavation?	Yes
Railroad Involvement?	No
Structure demolition/modification?	No
Subsurface utility relocation?	No

2. Project Setting: Located in the Santa Clarita Valley north of the intersection of Interstate-5 and State Route 14, north of Soledad Canyon Road, and east of Bouquet Canyon Road. Crosses the Santa Clara River on the east end.

   Rural or Urban: Rural

   Current land uses: The land is undeveloped. There are some graded dirt access roads that cross the site. (Figure 4(Attachment B)).

   Adjacent land uses: Community Commercial, Open Space, Commercial Office, Residential Moderate, and Industrial Commercial.

3. Check federal, State, and local environmental and health regulatory agency records as necessary, to see if any known hazardous waste site is in or near the project area. If a known site is identified, show its location on the attached map and attach additional sheets, as needed, to provide pertinent information for the proposed project. See SECTION 7.2 Data Base Records

search of the attached Initial Site Assessment.

4. Conducted Field Inspection. Date: March 11, 2003.

Initial Site Assessment (ISA) Checklist

(continued)

STORAGE STRUCTURES / PIPELINES: None within grading limits, only in surrounding area

Underground tanks 4 (within ¼ mile of project) Surface tanks 0

Sumps 0 Ponds 0

Drums 0 Basins 0

Transformers 0 Landfill 1 (½ mile east of project)

Other _____

CONTAMINATION: (spills, leaks, illegal dumping, etc.)

Surface staining none Oil sheen none

Odors none Vegetation damage in areas scattered with trash or concrete

Other A minimal amount of trash is scattered across entire site

HAZARDOUS MATERIALS: (asbestos, lead, etc.) No structures on site.

Buildings -- Spray-on fireproofing --

Pipe wrap -- Friable tile --

Acoustical plaster -- Serpentine --

Paint -- Other --

5. A database search by Environmental Data Resources, Inc. (EDR) was performed on June 10, 2004 with selected updates in October 2005. The search results and corresponding map are attached.

6. Other comments and/or observations: Castaic Lake Water Agency (CLWA) operates a number of water monitoring stations along the proposed roadway. CLWA also operates a water pipeline that runs parallel to the Newhall Ranch Road portion of the roadway.

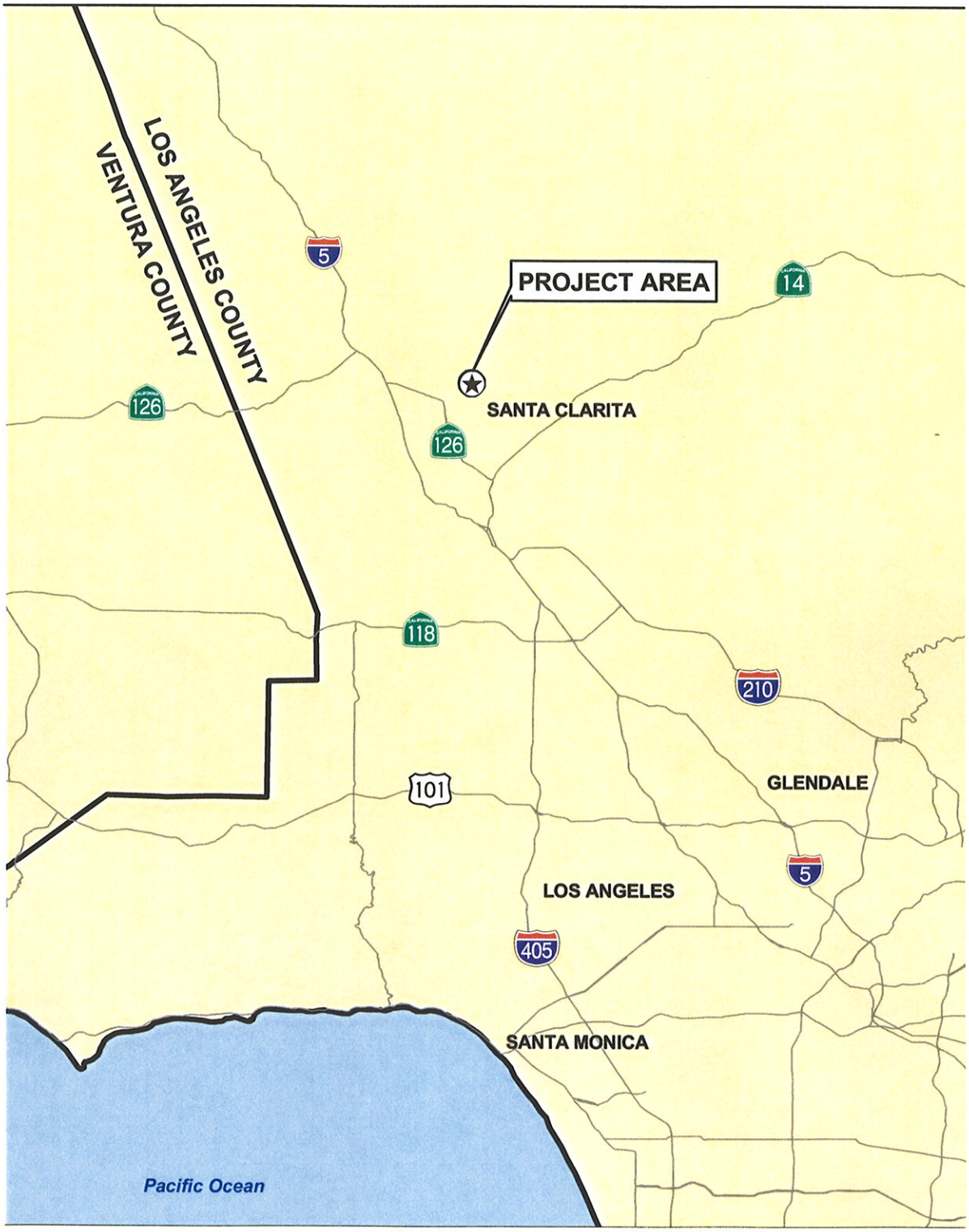
ISA Determination

Does the project have potential hazardous waste involvement? **Yes, there is the potential for hazardous waste involvement, there is no known hazardous waste within the project limits.** If there is known or potential hazardous waste involvement, is additional ISA work needed before task orders can be prepared for the Investigation? **NO** If "YES," explain; then give an estimate of additional time required: The conclusions and recommendations section of the attached report (Section 8) suggests that additional work related to the findings of this document be done during the final design phase

A brief memo should be prepared to transmit the ISA conclusions to the Project Manager and Project Engineer.

ISA Conducted by Dokken Engineering **Date** November 3, 2005

ATTACHMENT B: FIGURES



Source: City of Santa Clara; ESRI

NORTH

75 0 75 Miles

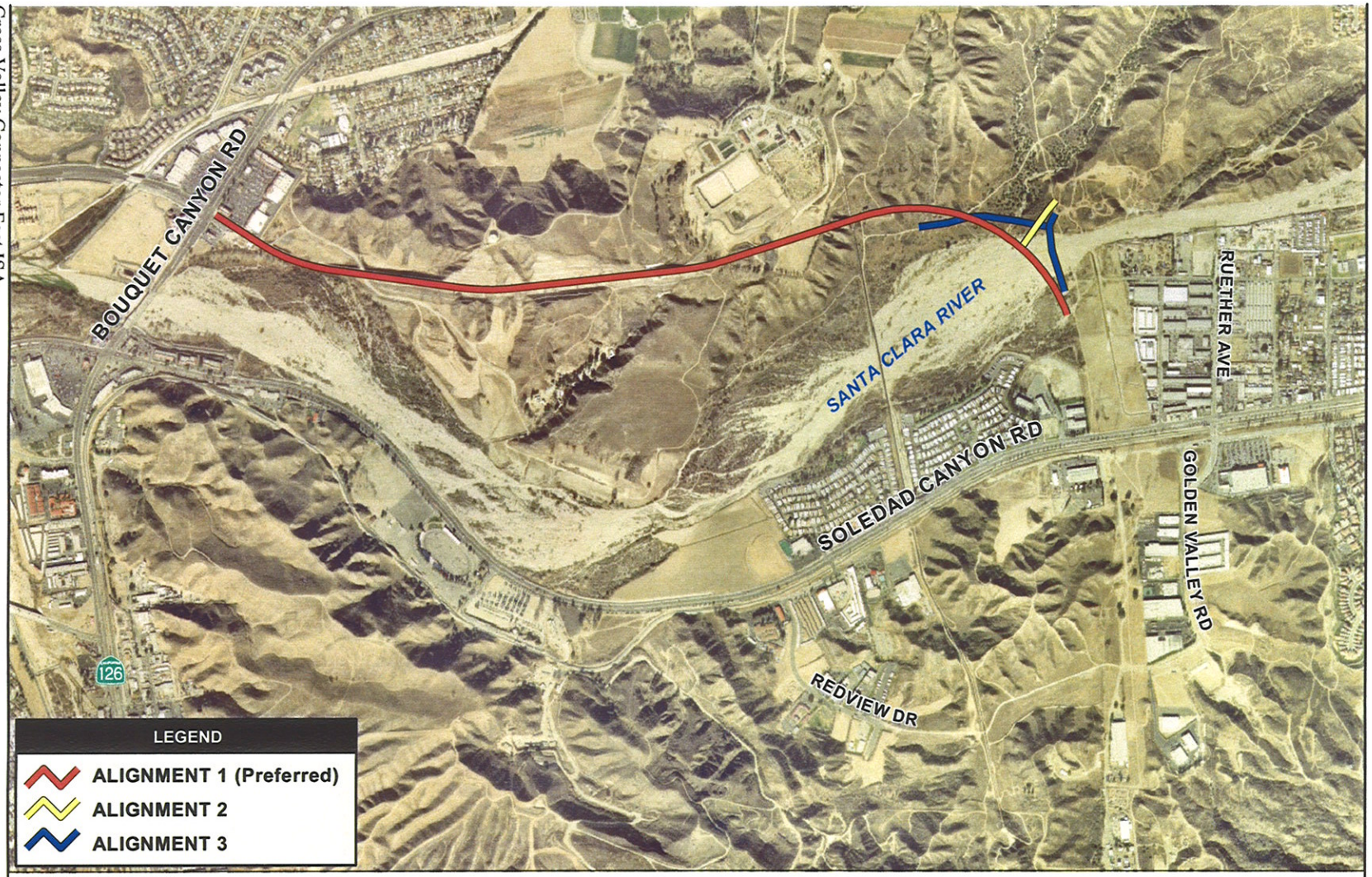
Figure 1
Regional Location Map

Cross Valley Connector East ISA

GIS\2K053\map\loc_map.mxd SP83/Z5 (T. Huntley) 4/14/04

Cross Valley Connector East ISA

GIS\26033\Maps\alignment2.mxd SP83F-Z5 (T.Huntley) 5/20/04



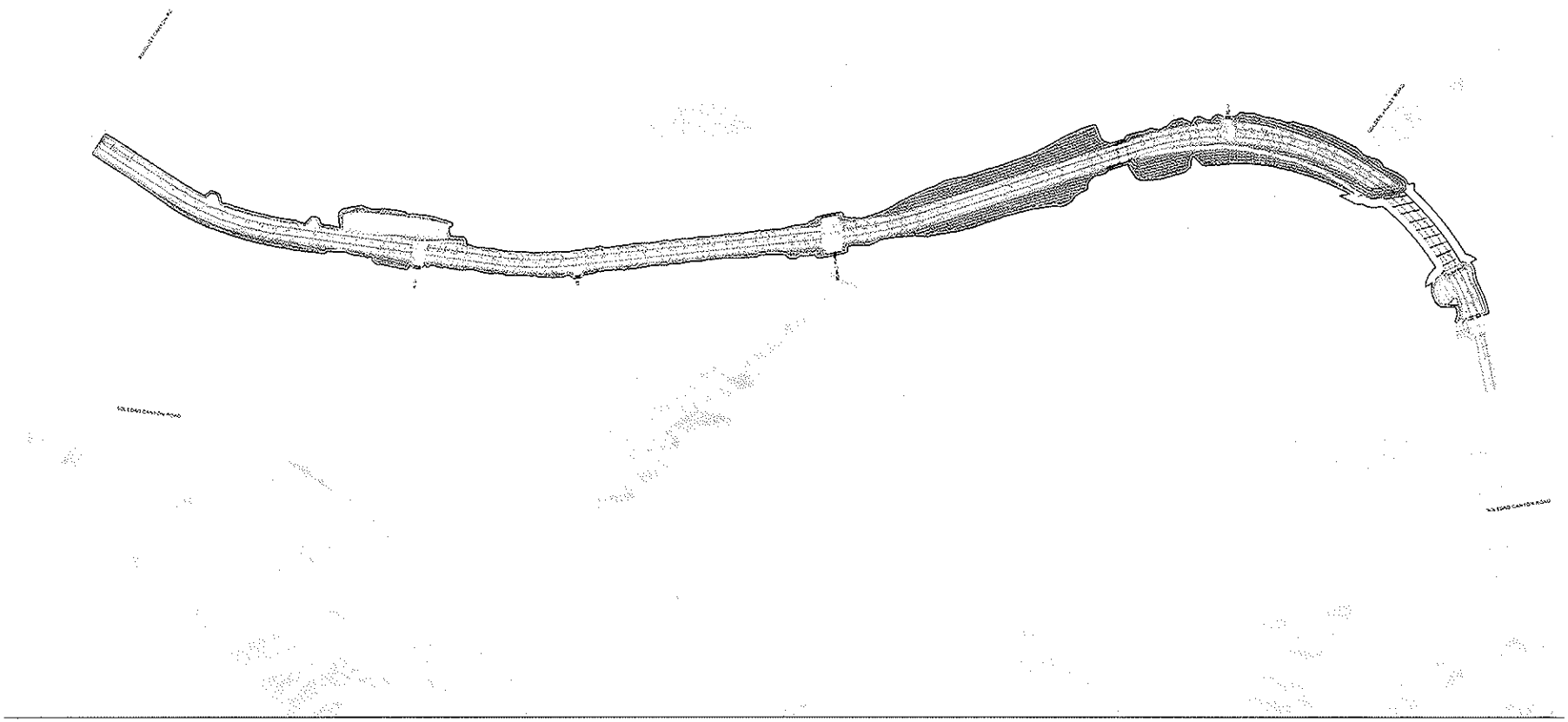
Source: City of Santa Clarita

NORTH

1750 0 1750 Feet

Scale: 1 : 21,000; 1 inch = 1,750 feet

Figure 2
Vicinity Map



Source: Dokken

750 0 750 Feet

Scale: 1:9,000; 1 inch = 750 feet

Figure 3
Road Alignment

Cross Valley Conector

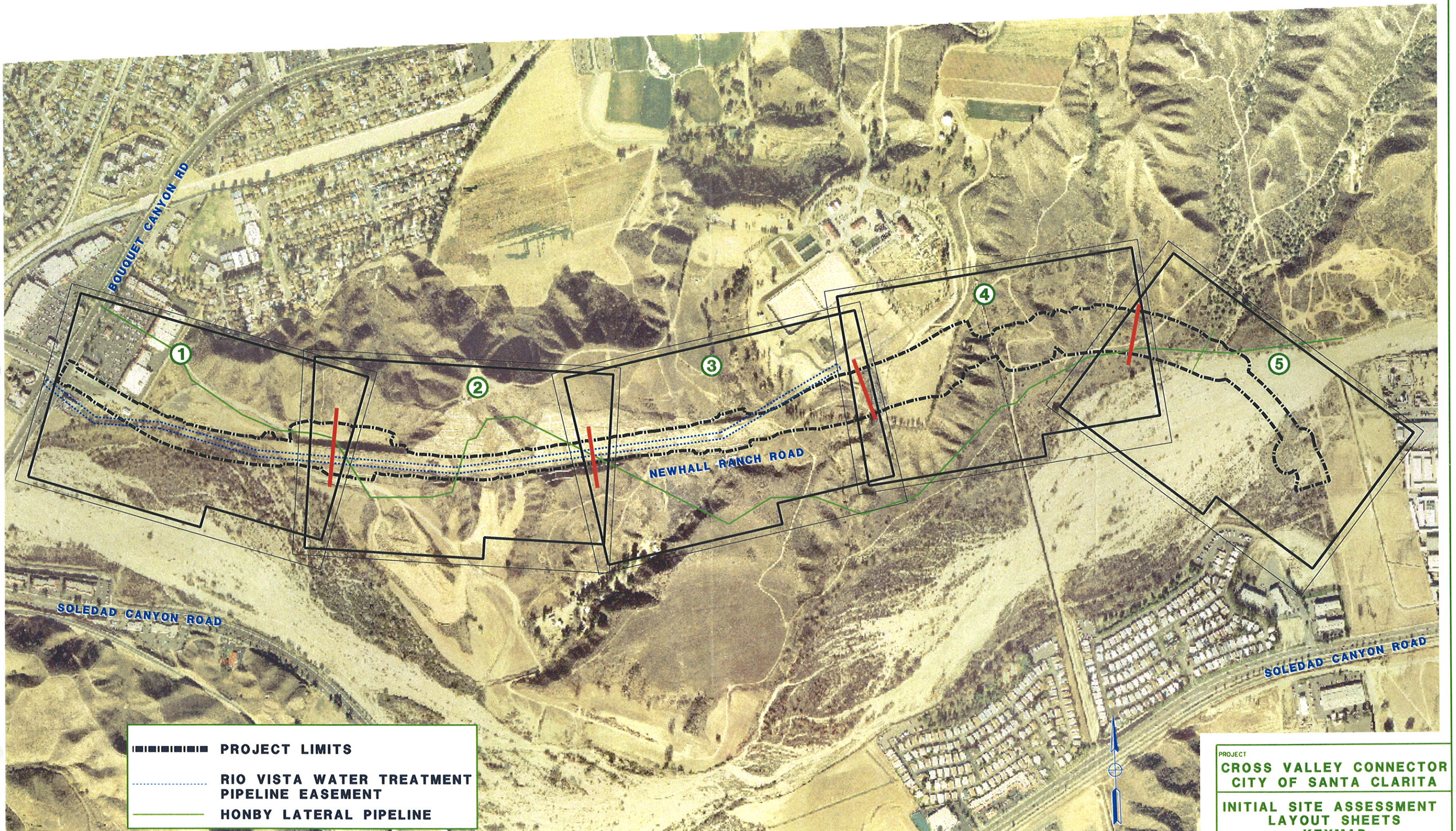
GIS:/projects/2003/maps/roadalignment.mxd SPN:0/25 (T. Hoover) 5/20/04

a. Western end of the alignment, looking east.

b. View northwest across the Santa Clara River toward the Los Angeles water acqueduct.

Figure 4
Existing Land Uses at the Project Site

ATTACHMENT C: ISA LAYOUT EXHIBITS



PROJECT

CROSS VALLEY CONNECTOR
CITY OF SANTA CLARITA

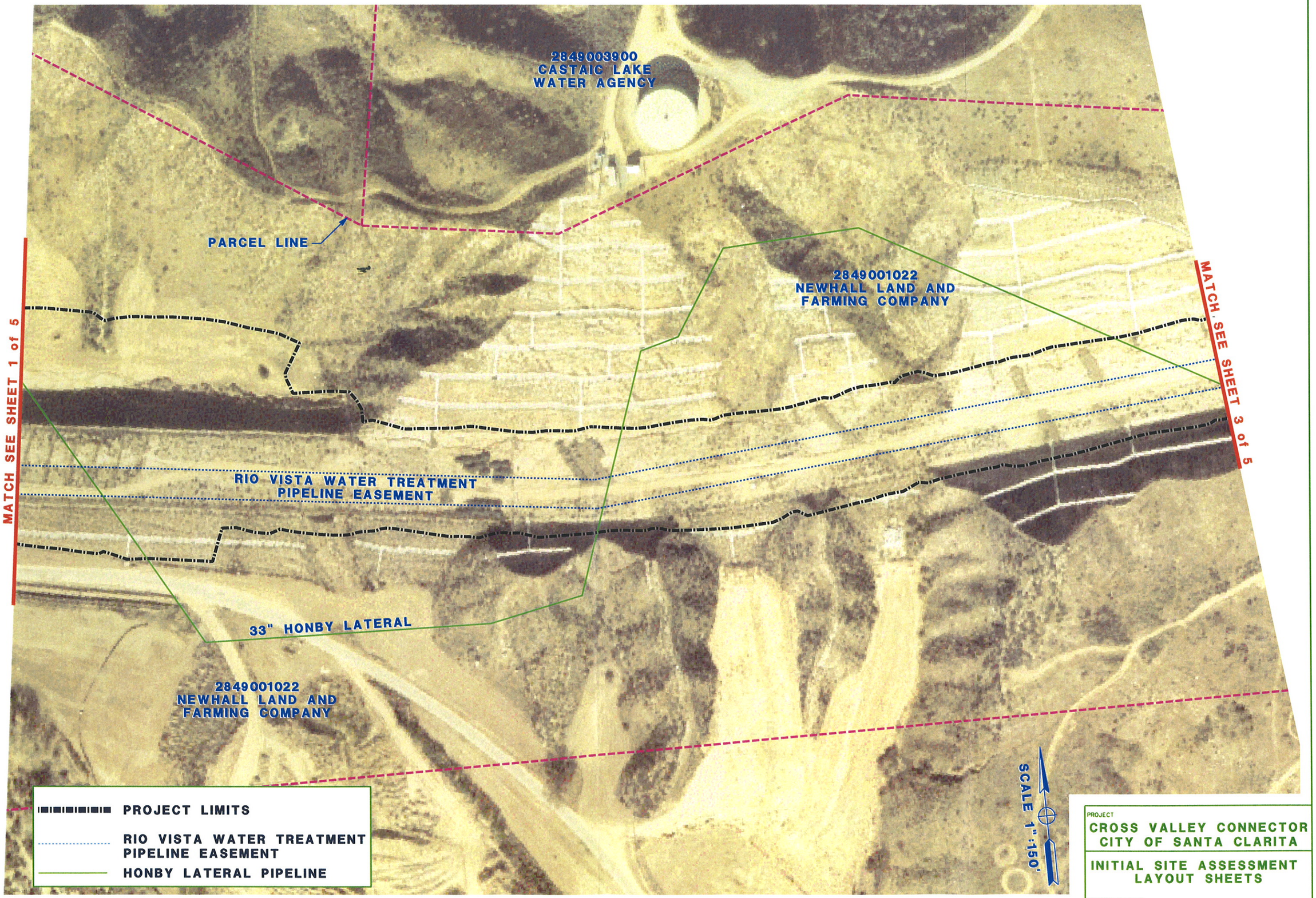
INITIAL SITE ASSESSMENT
LAYOUT SHEETS
KEYMAP

PROJECT

CROSS VALLEY CONNECTOR
CITY OF SANTA CLARITA

INITIAL SITE ASSESSMENT
LAYOUT SHEETS

SHEET 1 of 5

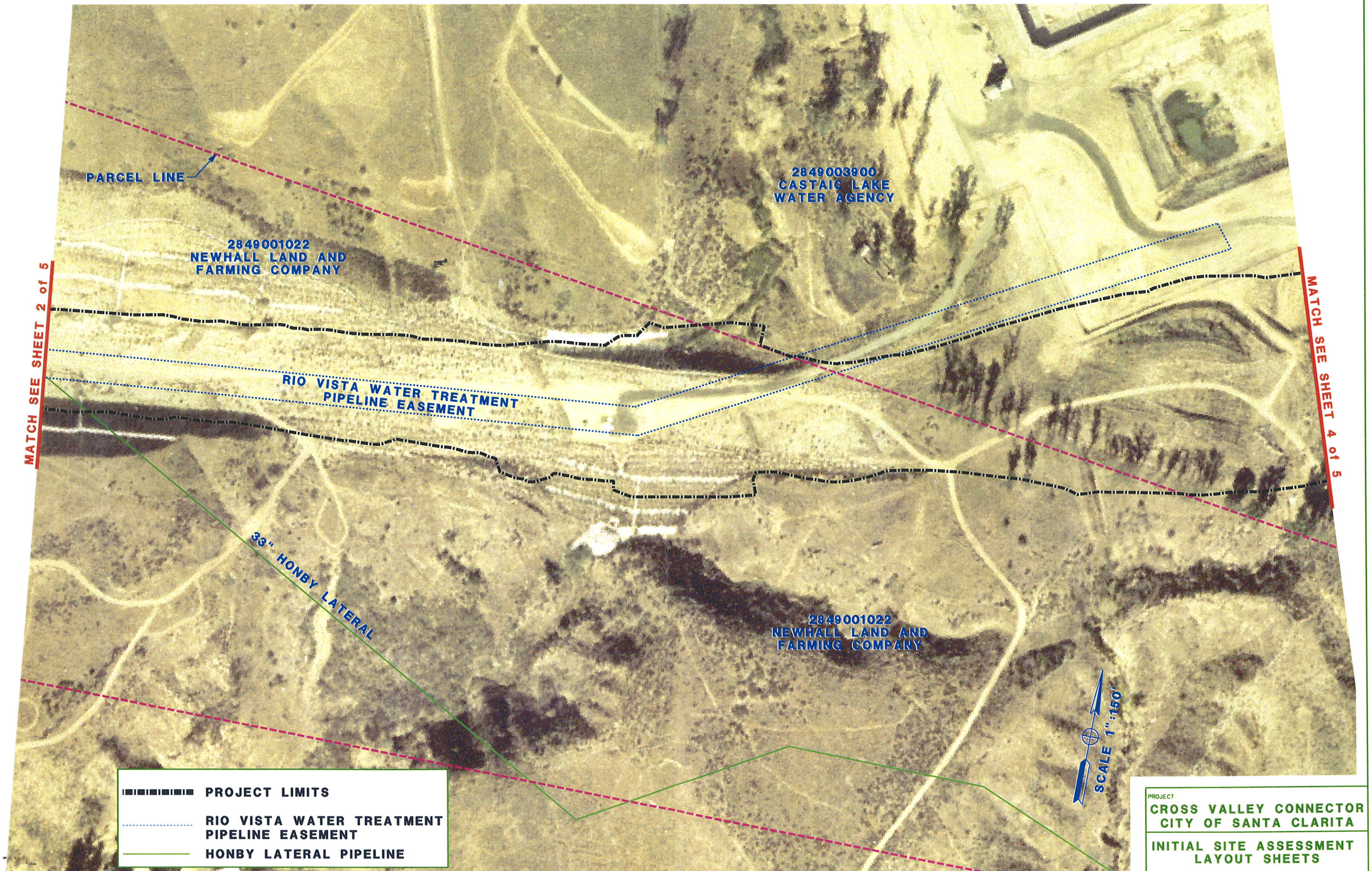


PROJECT

CROSS VALLEY CONNECTOR
CITY OF SANTA CLARITA

INITIAL SITE ASSESSMENT
LAYOUT SHEETS

SHEET 2 of 5

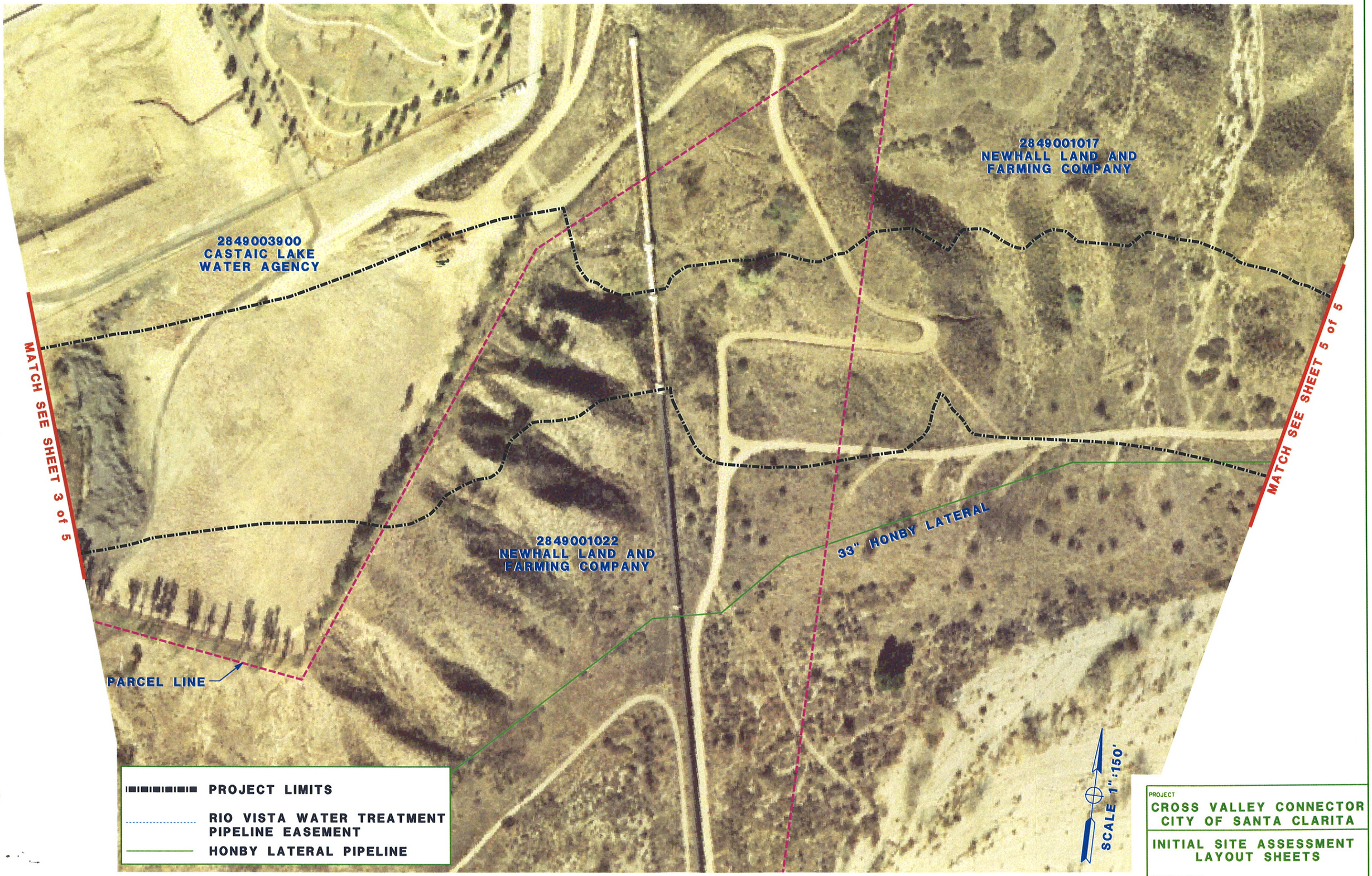


PROJECT

CROSS VALLEY CONNECTOR
CITY OF SANTA CLARITA

INITIAL SITE ASSESSMENT
LAYOUT SHEETS

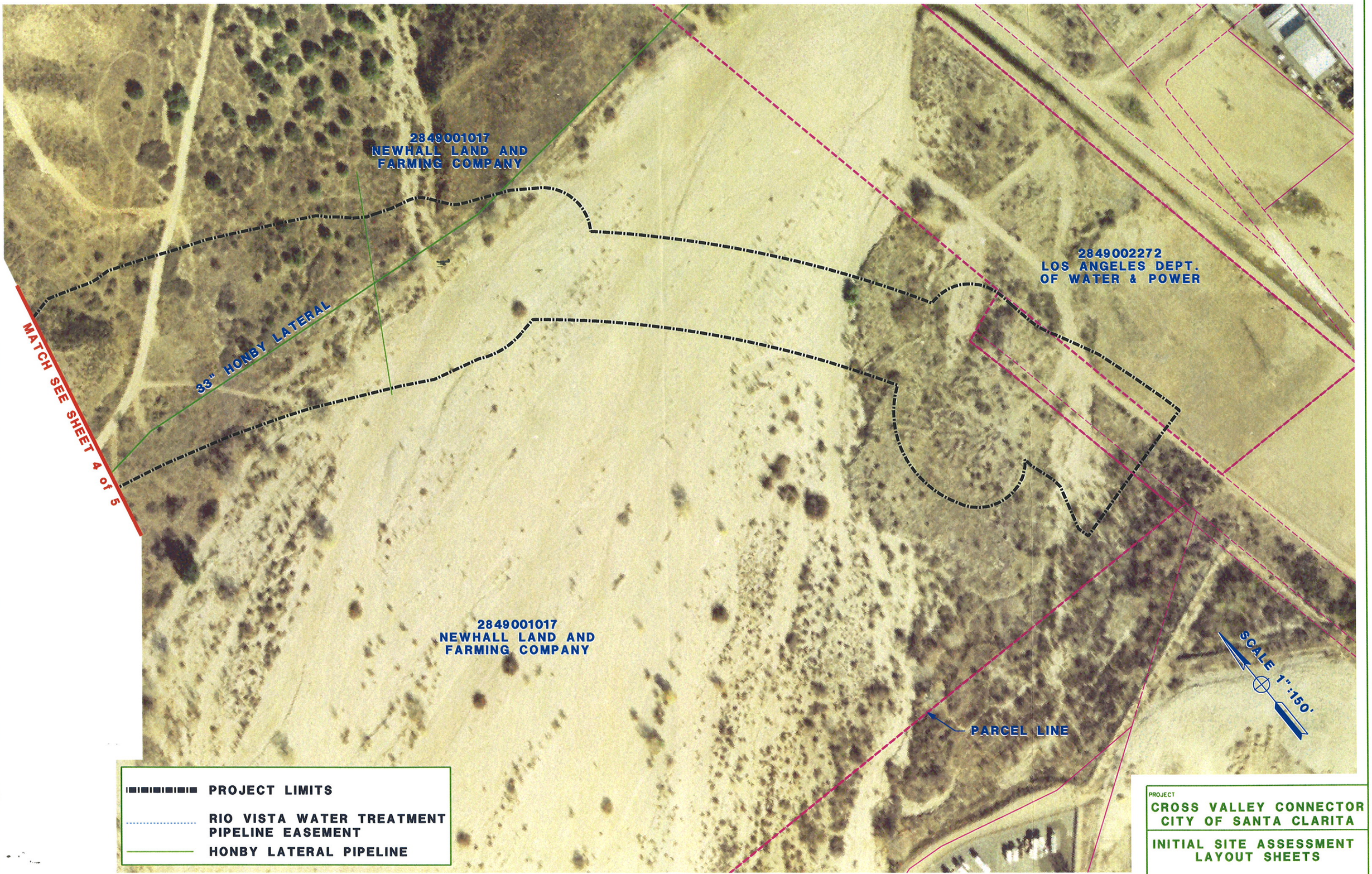
SHEET 3 of 5



PROJECT
CROSS VALLEY CONNECTOR
CITY OF SANTA CLARITA

INITIAL SITE ASSESSMENT
LAYOUT SHEETS

SHEET 4 of 5



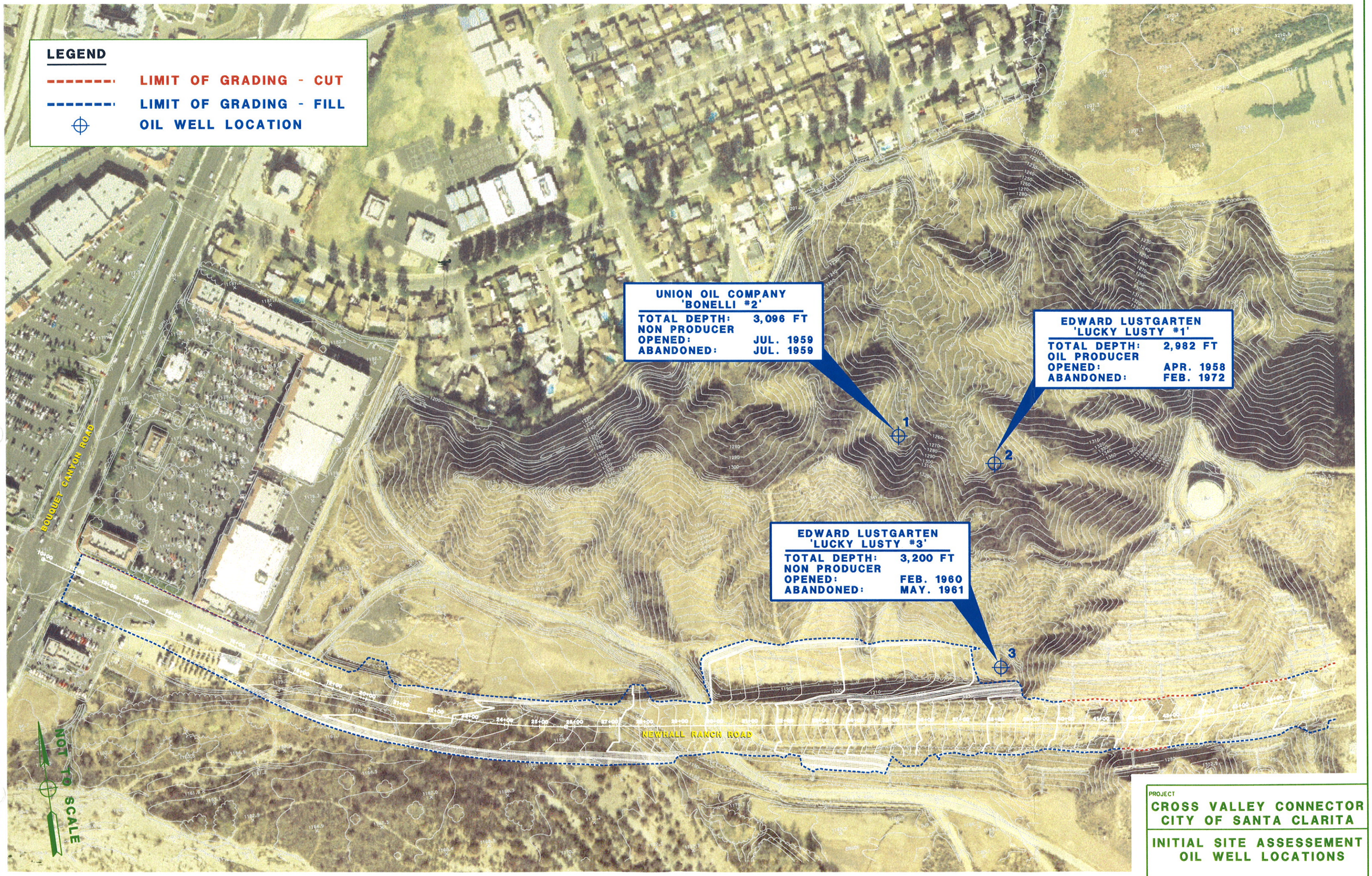
PROJECT

CROSS VALLEY CONNECTOR
CITY OF SANTA CLARITA

INITIAL SITE ASSESSMENT
LAYOUT SHEETS

SHEET 5 of 5

ATTACHMENT D: ISA OIL WELL LOCATION EXHIBIT



PROJECT
CROSS VALLEY CONNECTOR
CITY OF SANTA CLARITA

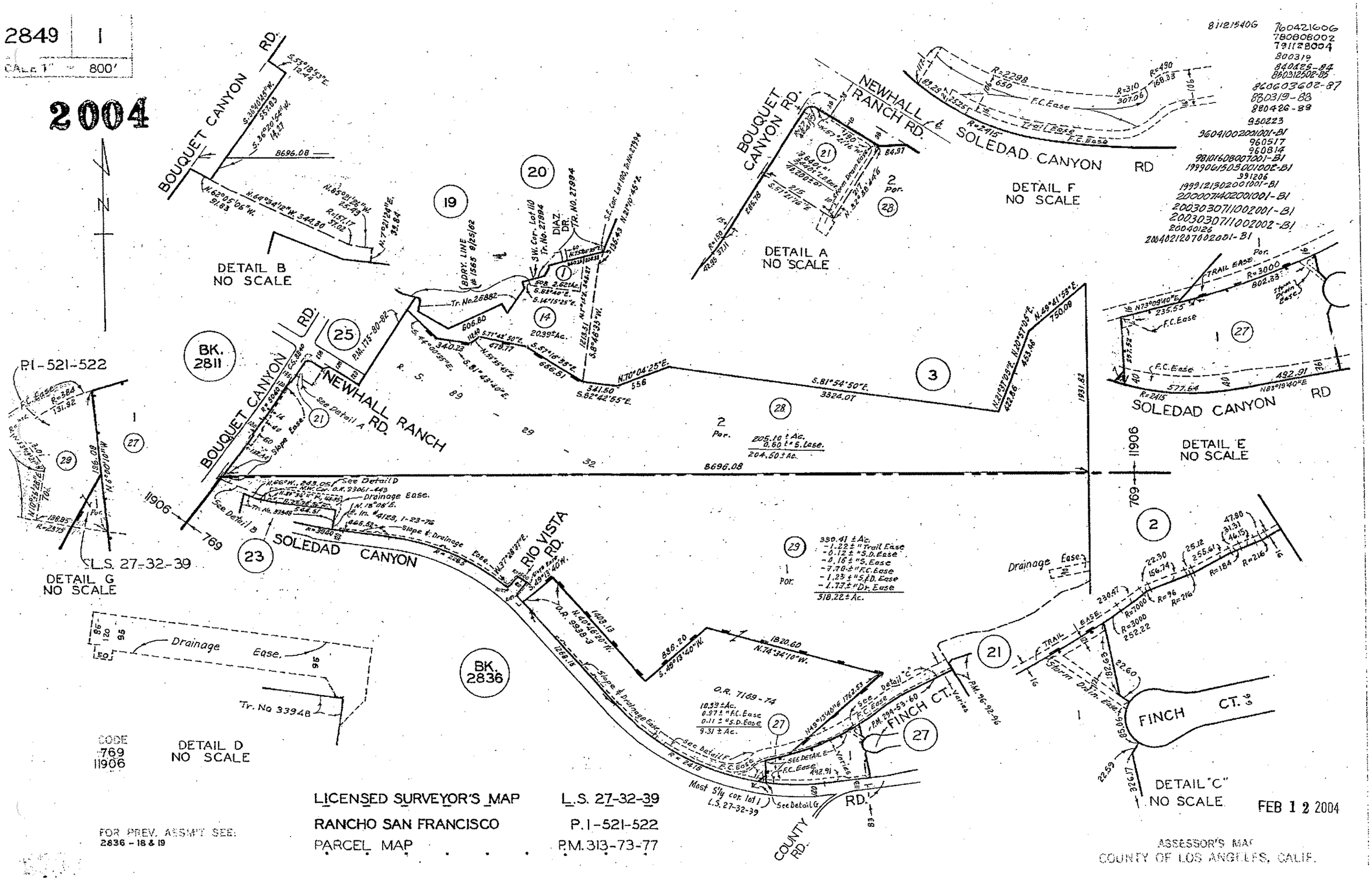
INITIAL SITE ASSESSEMENT
OIL WELL LOCATIONS

APPENDIX A: REAL QUEST INC PROPOERTY DETAIL REPORTS

2849 | 1

SCALE 1" = 800'

2004



LICENSED SURVEYOR'S MAP L.S. 27-32-39

RANCHO SAN FRANCISCO P.I.-521-522

PARCEL MAP . . . . . P.M. 313-73-77

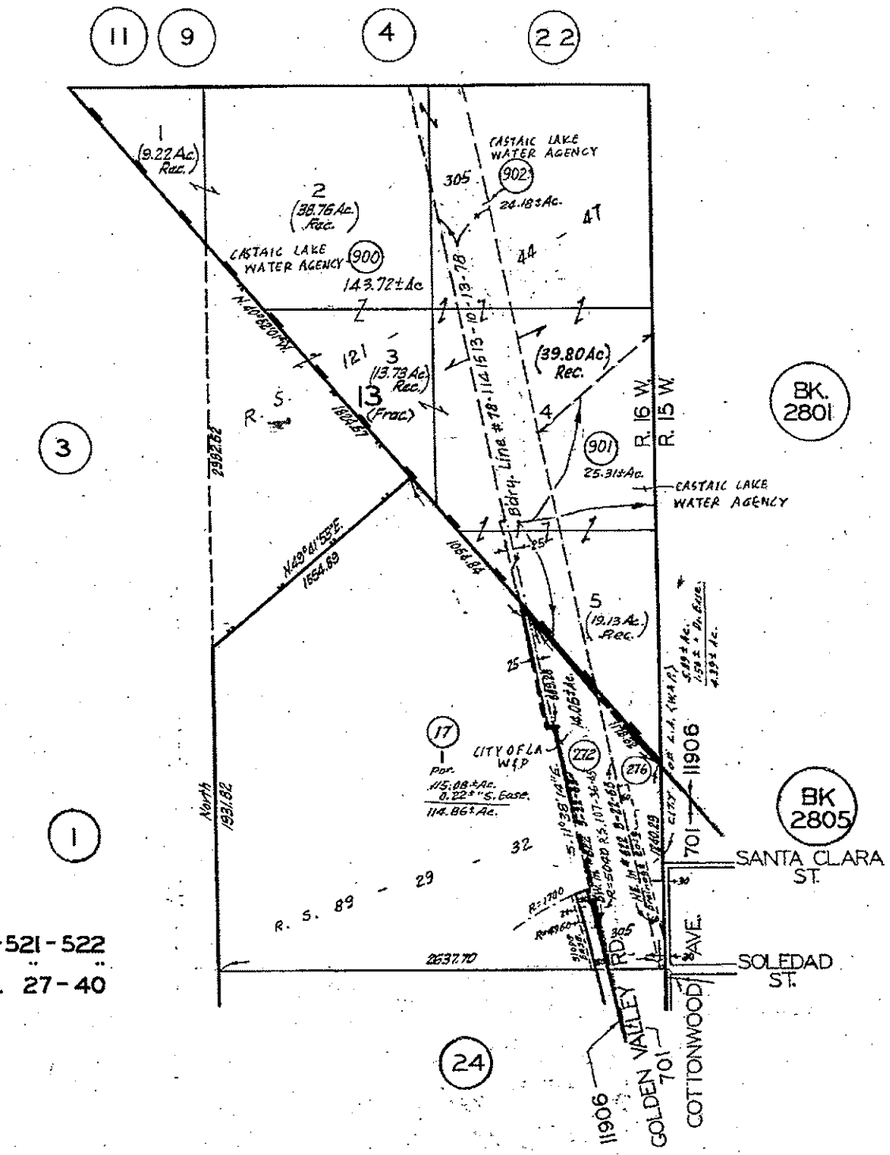
FOR PREV. ASS'M'T SEE: 2836 - 18 & 19

FEB 12 2004

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

2849	2
.LE 1" =	800'

2004



T. 4N., R. 16W.
RANCHO SAN FRANCISCO P. 1-521-522
" " " " " " " " " " " "
LICENSED SURVEYOR'S MAP L.S. 27-40

CODE
701
11906

FOR PREV. ASSM'T. SEE:
2836 - 17

REVISED
611013502
680227
700225
720907806
720224
750225
750226815
760421606
761006
770623302
780313
780315807
780808002
781026
781030224
781205
790522209
801121322
801201
810312
840425-84
840911807-85
841015
841206506-84L
860603602-87
861126
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880426-88
941205
199912130200300 1-22
20040126

FEB 10 2004

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

2849 | 3

SCALE 1" = 800'

2004

820609302
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941205
950223
960517
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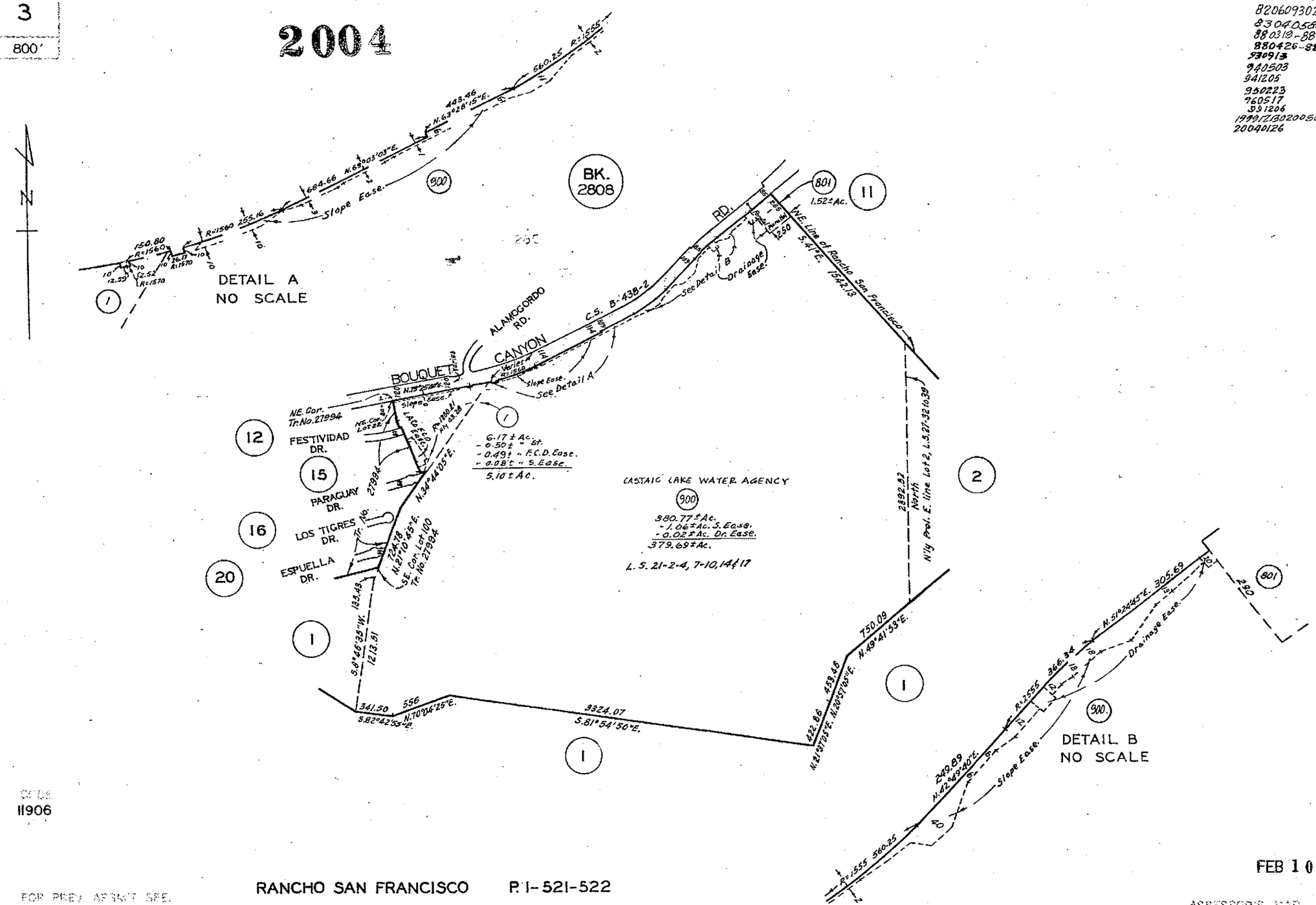

BK. 11906

FOR PREV. ASSMT. SEE. 2836-19

RANCHO SAN FRANCISCO P.I-521-522

FEB 10 2004

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

2849 | I

SCALE 1" = 1000'

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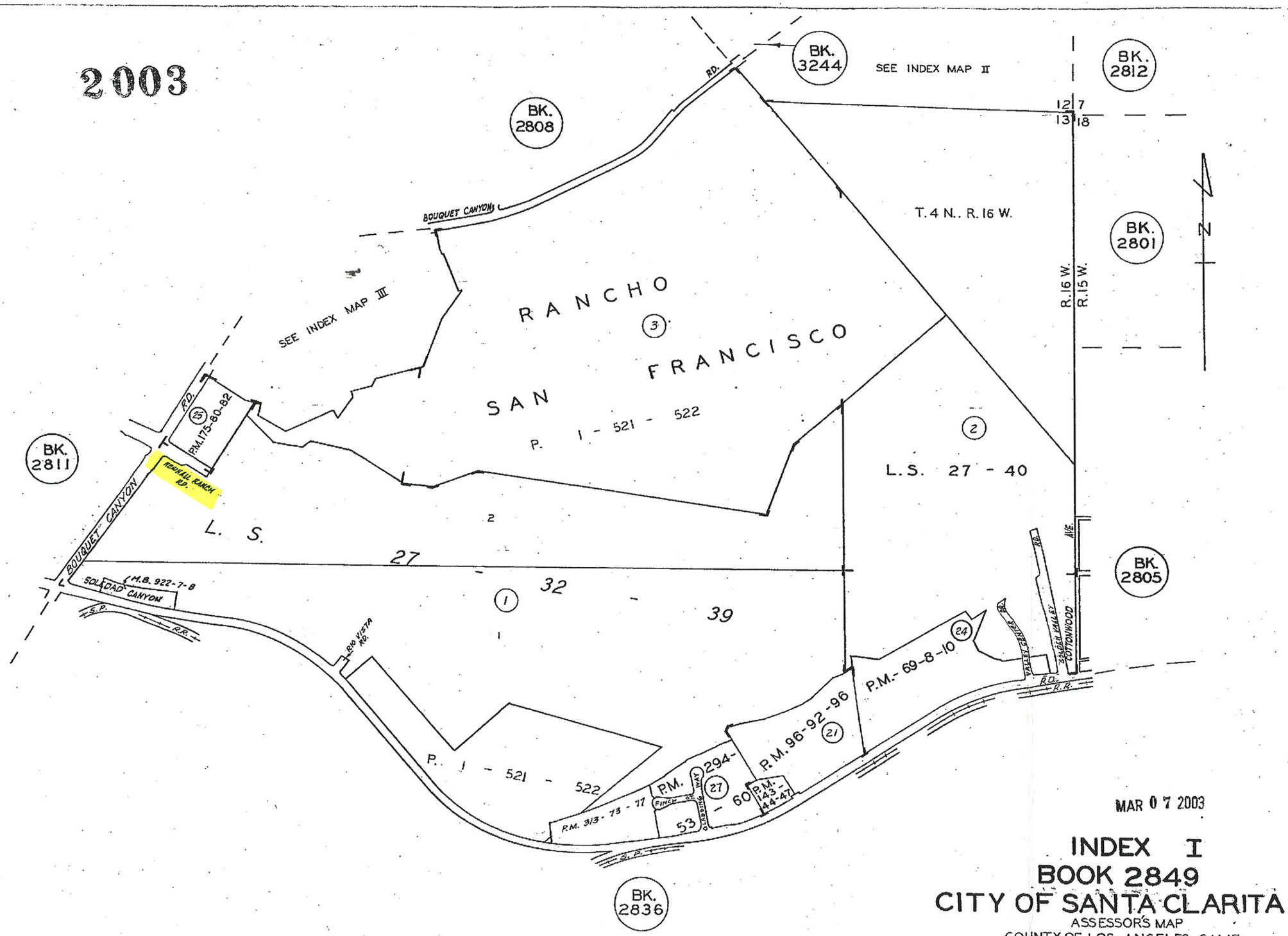
20030307

2003



MAR 07 2003

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BOOK 2849
CITY OF SANTA CLARITA
ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

2849 | II

SCALE 1" = 400'

1995

770802
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840613
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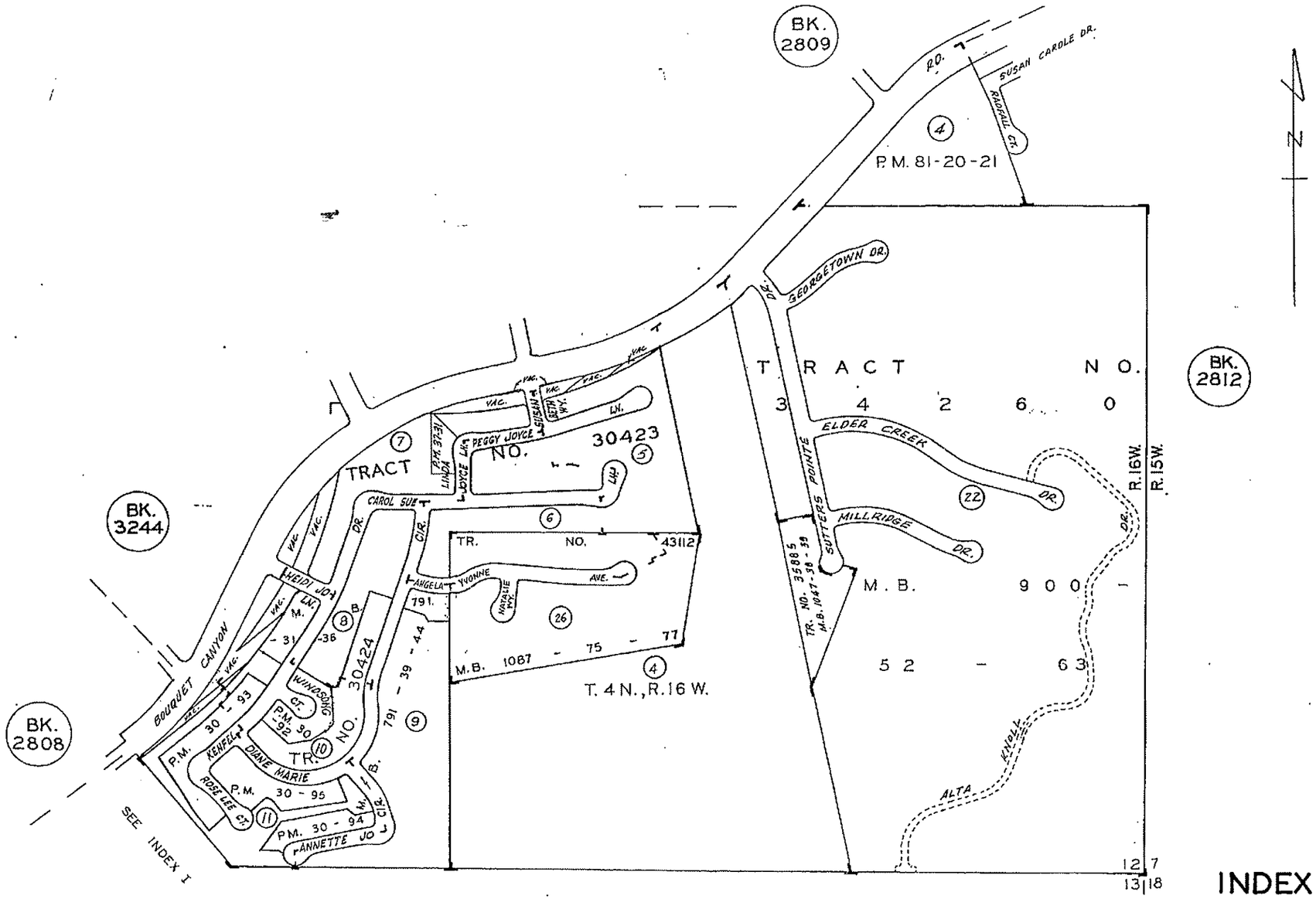
880319-88
940613



SEE INDEX MAP I

JUN 23 1994

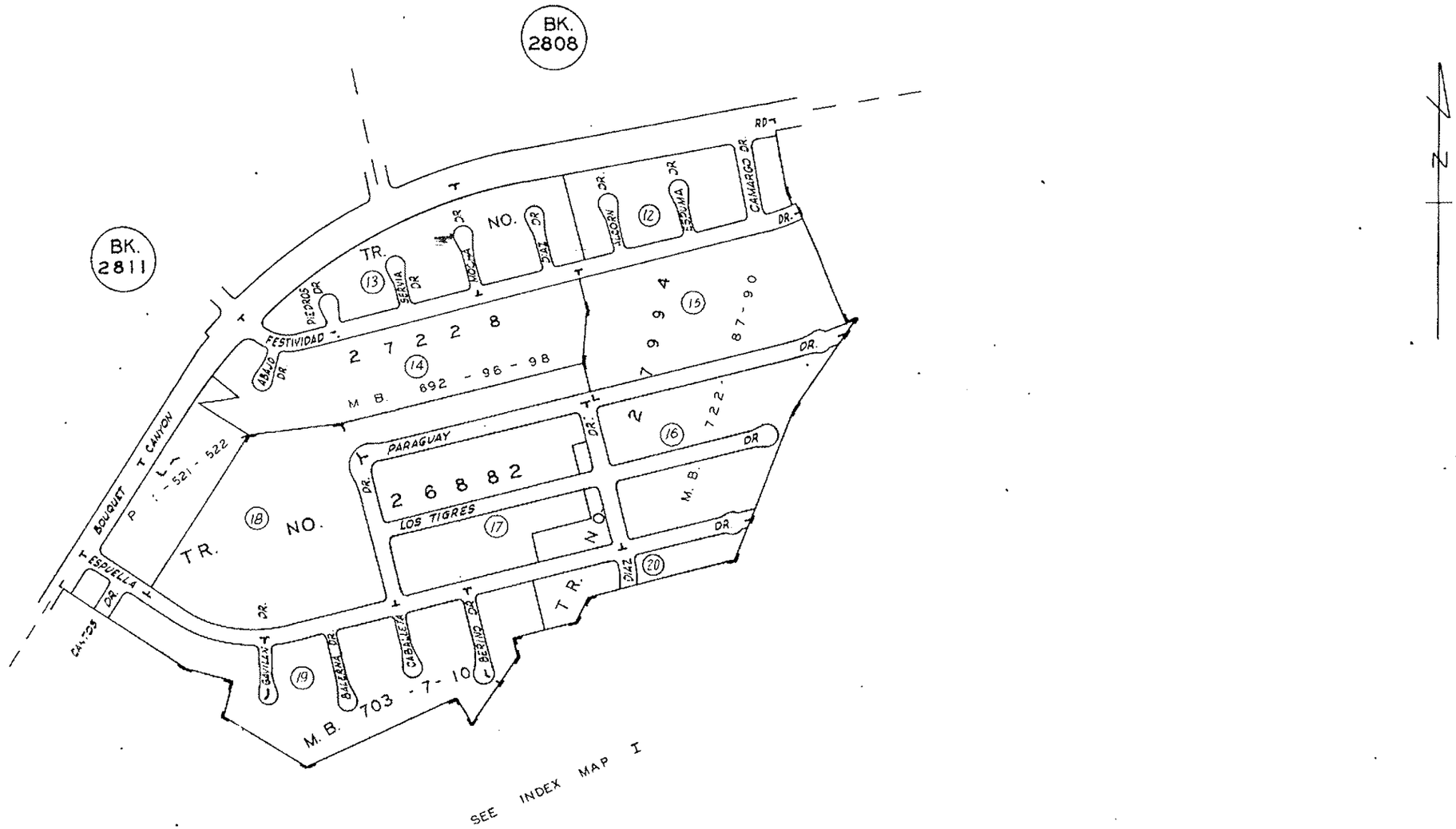
INDEX II
BOOK 2849
CITY OF SANTA CLARITA

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

2849	III
E 1" = 400'	

88 0319-88

1988



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BOOK 2849
CITY OF SANTA CLARITA

2005

TRA		
		CITY OF SANTA CLARITA
699		TAX DIST NO 1
700		
701		
706		
750		
753		SAUGUS UNION SCHOOL
769		WILLIAM S HART UNION HIGH SCHOOL
793		SANTA CLARITA COMMUNITY COLLEGE
908		CONSOLIDATED FIRE PROTECTION DIST OF L A CO – 04 CONS
913	ALL	L A CO FIRE – F&FW
918	IN	L A CO PUBLIC LIBRARY
947		SO CAL RAPID TRANSIT DIST
976		GREATER L A CO VECTOR CONTROL DIST 95 NAME CHANGE (91 ANNEX)
11906		L A CO FLOOD CONTROL DIST
12692		
	U	CASTAIC LAKE WATER AGENCY IMP DIST NO 88 – 13 88 ANNEX
	V	CASTAIC LAKE WATER AGENCY IMP DIST NO 88 – 31 88 ANNEX
	W	CASTAIC LAKE WATER AGENCY IMP DIST NO 88 – 32 88 ANNEX
	X	CASTAIC LAKE WATER AGENCY IMP DIST NO 88 – 33 88 ANNEX
	G	CONSOLIDATED SEWER MAINTENANCE DIST
	I	CONSOLIDATED SEWER MAINTENANCE DIST – 04 CONS (81 ANNEX PAR 1–80 THRU 37–80)
	L	CONSOLIDATED SEWER MAINTENANCE DIST (81 ANNEX PAR 1–80 THRU 20–80; 00 ANNEX PAR 5–98)
	EE	CONSOLIDATED SEWER MAINTENANCE DIST 96 ANNEX PAR 17–94
	*C	CO SANITATION DIST NO 26 – 04 CONS (79 ANNEX 80–115; 86 ANNEX 177; 97 ANNEX 288; 00 ANNEX 298)
	*K	CO SANITATION DIST NO 26 - 83 ANNEX 80–112
	*B	CO SANITATION DIST NO 26 – 79 ANNEX 80–120
	*A	CO SANITATION DIST NO 26 – 79 ANNEX 80–121
	*P	CO SANITATION DIST NO 26 – 86 ANNEX 173
	*Y	CO SANITATION DIST NO 26 – 02 CONS (ANNEX 84 – 165; 89 ANNEX 214)
	E	SANTA CLARITA STREET LIGHT MAINT DIST NO 2
	N	SANTA CLARITA STREET LIGHT MAINT DIST NO 2 (84 ANNEX PET NO 28–39)
	Z	SANTA CLARITA STREET LIGHT MAINT DIST NO 2 – 02 CONS
	F	SANTA CLARITA STREET LIGHT MAINT DIST NO 2 – 04 CONS (88 ANNEX PET NO 199–125)

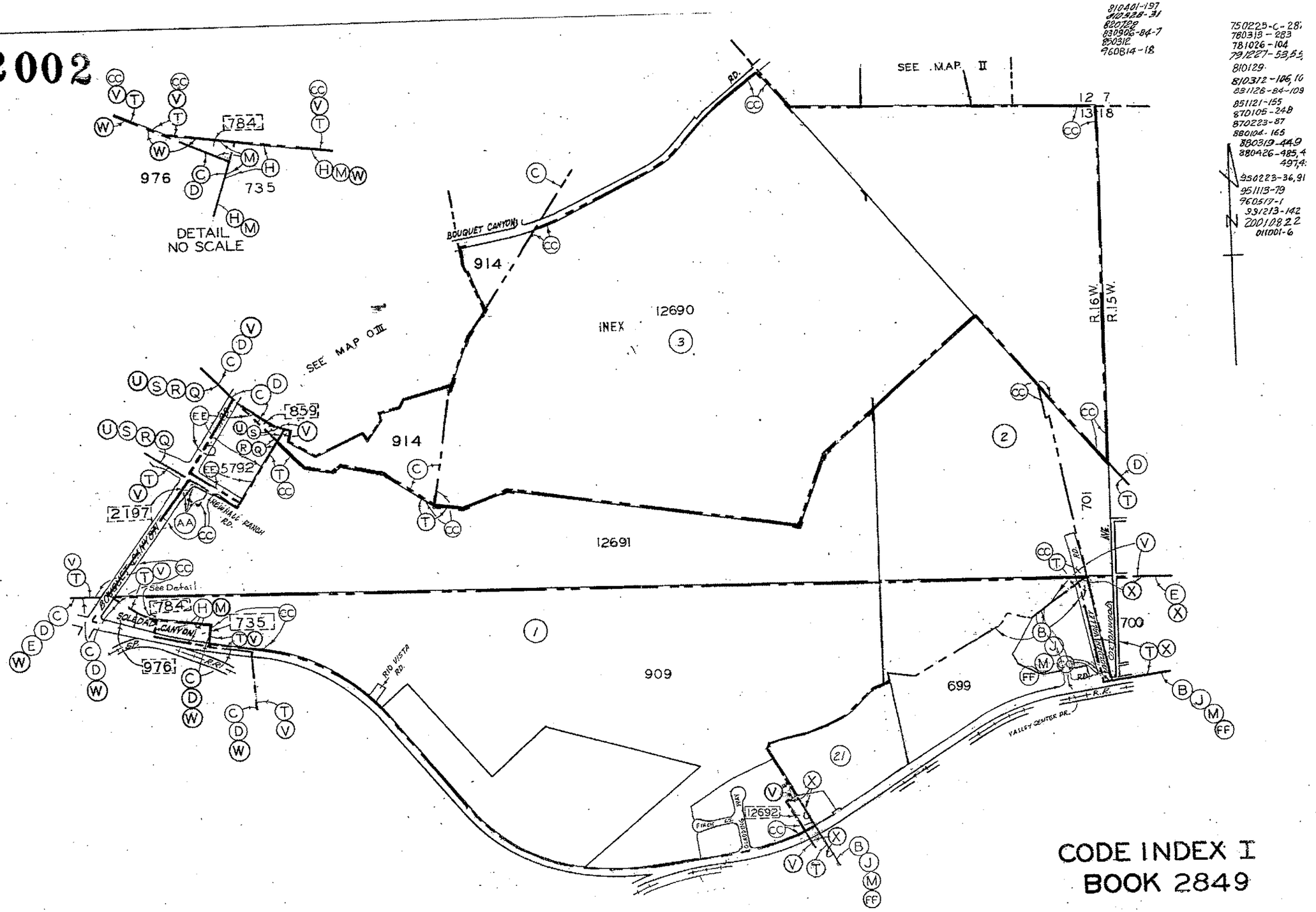
NOW KNOWN AS:

* CO SANITATION DIST NO 32 – 05 NAME CHANGE

JAN 0 3 2005

2849 | OI SHEET 1 | 2002

CA 1" = 1000'



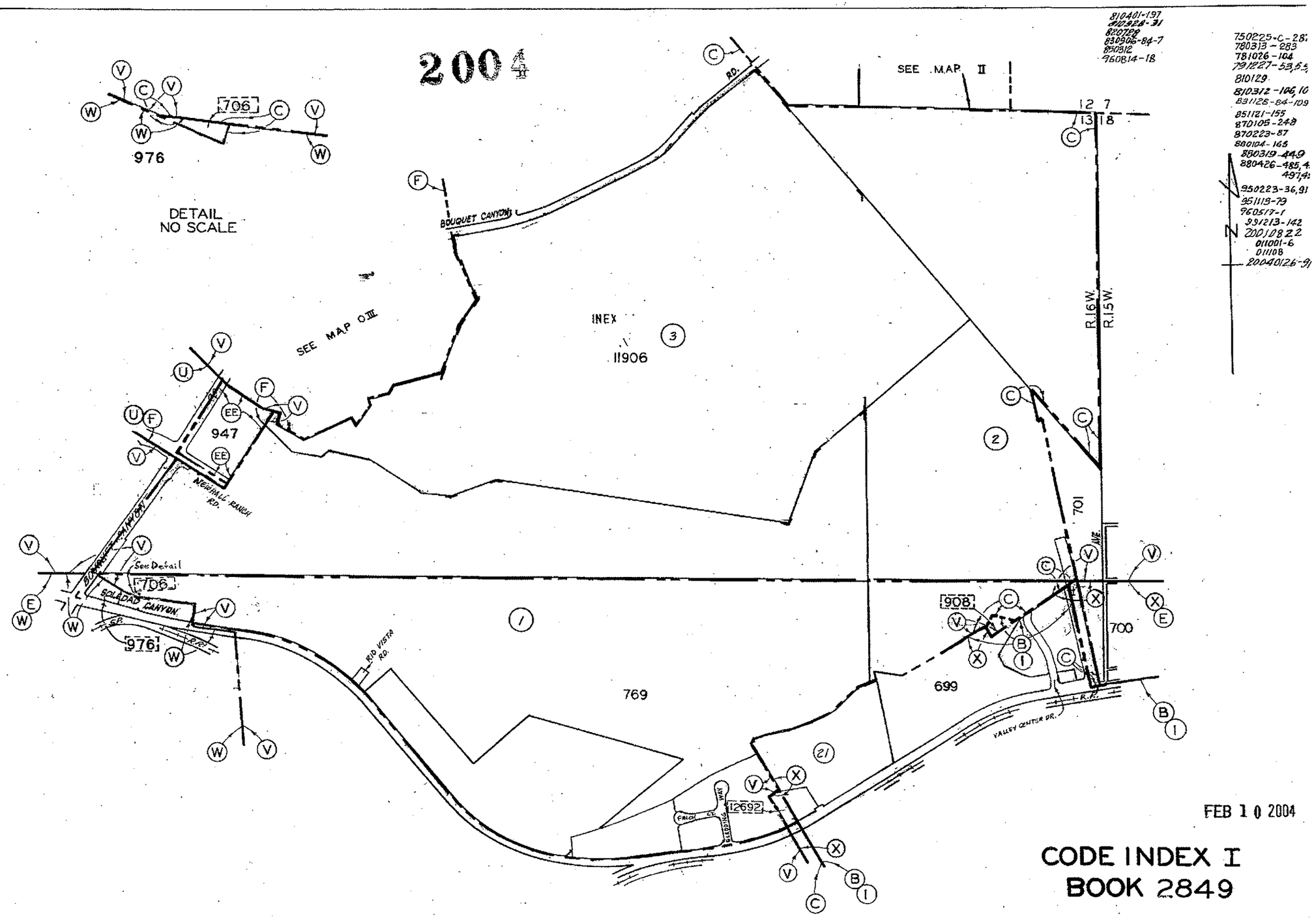
CODE INDEX I
BOOK 2849

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

FOR LEGEND SEE MAP OI SHT 2

2849 | OI
SHEET 1
SCALE 1" = 1000'

2004



FEB 10 2004

CODE INDEX I
BOOK 2849

FOR LEGEND SEE MAP OI SHT 2

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

2849	OII
SCALE 1" = 400'	

2004

791227-55
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820728
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840117-84-281
840227-84-458
851121-152
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960517-1
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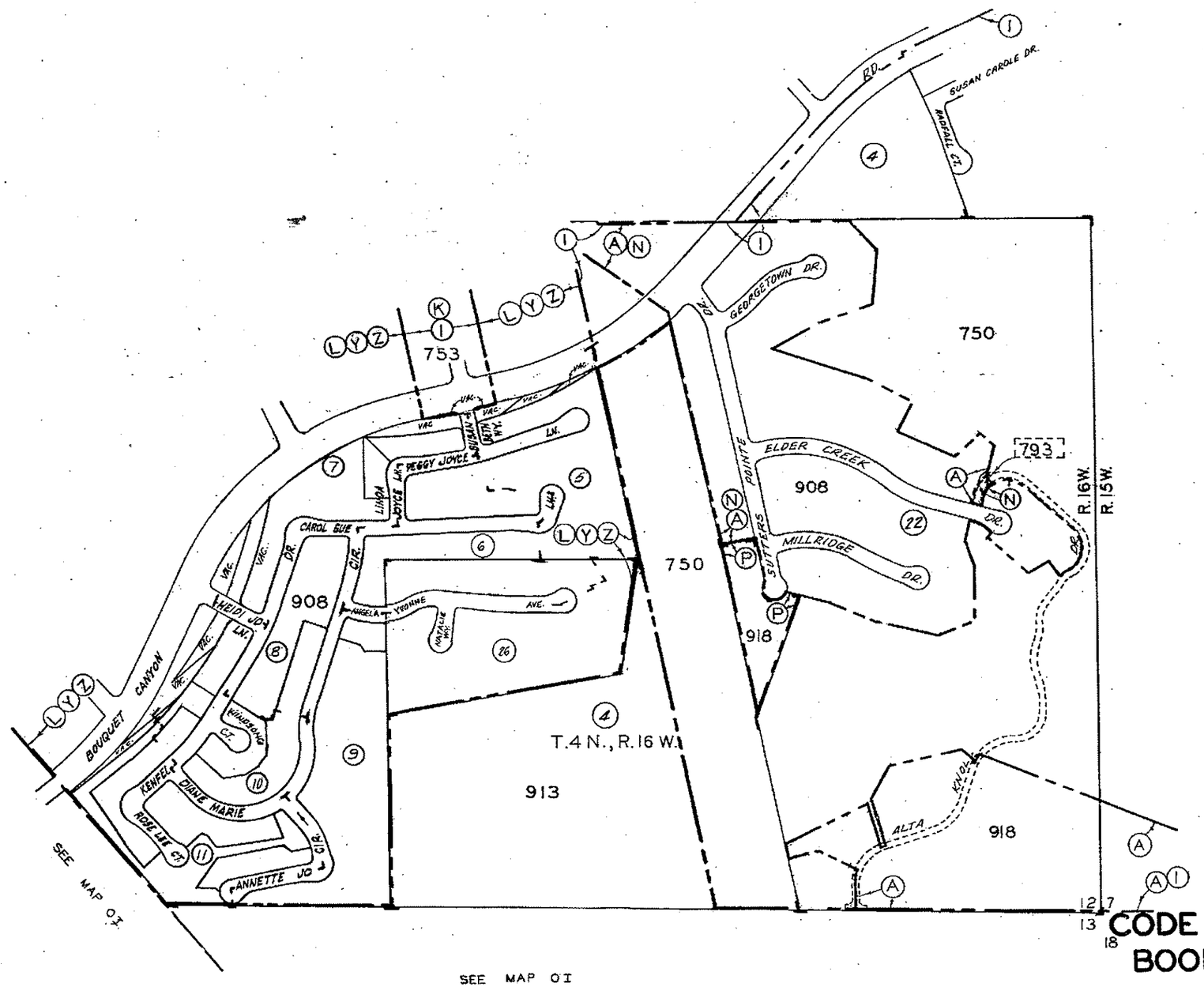

FEB 10 2004

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BOOK 2849

FOR LEGEND SEE MAP OI SHT 2

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

2849 | O III

SCALE 1" = 400'

1997

SCALE IN 1/10 OF AN INCH

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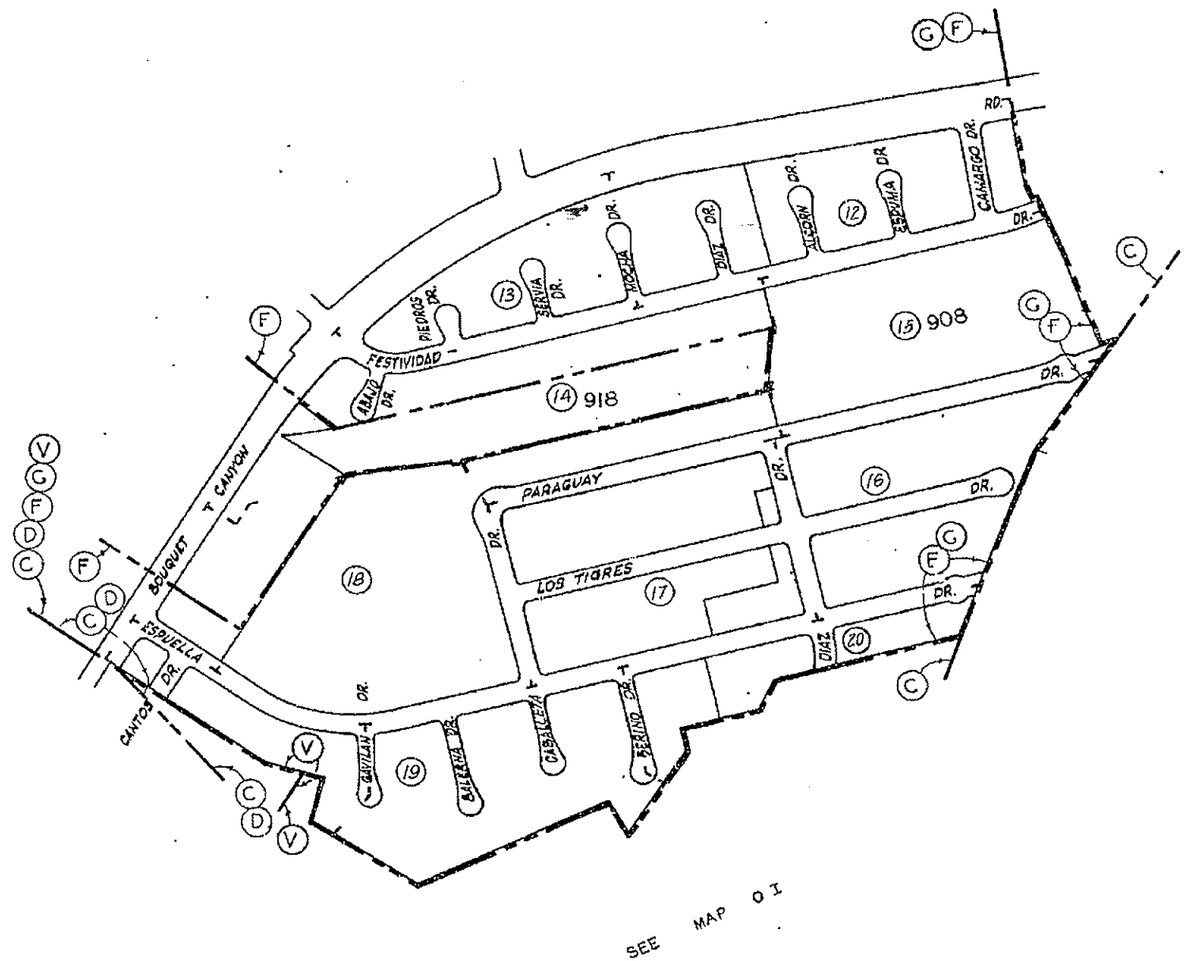
950323-36,91
960517-1



FOR LEGEND SEE MAP O I SHT 2

CODE INDEX III
BOOK 2849

JUN 0 6 1996

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

APPENDIX B: DEPARTMENT OF CONSERVATION DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES – WELL FILES

Chris Segur

From: Fields, Steve [Steve.Fields@conservation.ca.gov]
Sent: Wednesday, September 28, 2005 1:03 PM
To: Chris Segur
Subject: RE: Well Files

(805) 654-4761

Attached are copies of well files for your review.

In doing any environmental report concerning any property that has wells on please referr to our web site concernin construction site reviews.
http://www.consrv.ca.gov/DOG/general_info/construction_site_review.htm

-----Original Message-----
From: Chris Segur [mailto:CSegur@sd.demail.com]
Sent: Wednesday, September 28, 2005 12:36 PM
To: Fields, Steve
Subject: Well Files

Steve,
I just talked with you about well a well file request. The wells I needed information are:
(API)
03701116
03701117
03701121

Any information you have about these wells would be greatly appreciated.

Thanks,
Chris Segur

03701116

DEPARTMENT OF CONSERVATION

STATE OF CALIFORNIA

DIVISION OF OIL, GAS, & GEOTHERMAL RESOURCES

1000 S. HILL ROAD
SUITE 116
VENTURA
CALIFORNIA
93003-4458

PHONE
805/654-4761

FAX
805/654-4765

INTERNET
consrv.ca.gov

GRAY DAVIS
GOVERNOR

April 24, 2003

Leticia Cardoso
PSOMAS
28470 Avenue Stanford
Suite 300 Building B
Santa Clarita, CA 91355

Dear Ms. Cardoso:

This Division has received your request for the review of Tentative Tract 53425. In order to conduct our review, all wells on the project site have to be physically located and surveyed in and plotted on plot plans. Upon locating each well, this Division must be contacted to determine if the well is "leaking". In the event that any of the wells are "leaking" then remedial action will be required. In the event that any "construction" is proposed that will impede access to the well, then the well must be plugged and abandoned to current standards. "Impeding access" is defined as the ability to move in oilfield equipment (10 feet x 10 feet x 50 feet and open) in the future to perform remedial work or the placement of fill at depths greater than 10 feet. In addition, any well that is within 10 feet of a structure, we will recommend to the local permitting agency that a vent system be installed on the well. However, any construction site under the jurisdiction of Los Angeles County requires gas mitigation measures if a well is within 25 feet of a structure.

In order to complete our review, we require that three copies of the plot plan showing with all wells plotted, signed as being true and correct by a licensed survor or civil engineer with all required well work completed and associated records on work performed on each well and if gas mitigation approvals are requires, they must be obtained and submitted.

If you have any questions, please contact me at (805) 654-4761.

Steven A. Fields
Operations Engineer

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF WELL ABANDONMENT

Santa Paula, California

May 12, 1981

Mr. Geo. Atha, Agent
Edward Lustgarten
2221 California Street
San Marino, CA 91108

Your report of abandonment of well "Lucky Lusty" 1 (Name and number)

A.P.I. No. 037-01116, Section 14, T. 4N, R. 16W, S.B. B. & M.,

Bouquet Canyon field, Los Angeles County,

dated Feb. 14, 1972, received Feb. 18, 1972, has been examined in conjunction with records filed in this office, and we have determined that all of the requirements of this Division have been fulfilled.

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 12
OK					✓

M. G. MEFFERD
State Oil and Gas Supervisor

By John L. Hardoin
Deputy Supervisor

John L. Hardoin

FORM 109

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Report on Operations

No. T 172-1438

Mr. Edward Lustgarten, Agent
EDWARD LUSTGARTEN
16561 Ventura Blvd.
Encino, CA 91316

Long Beach, Calif.
Dec. 26, 1972

DEAR SIR: (037-01116)

Operations at well No. "Lucky Lusty" 1, Sec. 14, T. 4S, R. 16W, S.B. B & M. Bouquet Canyon Field, in Los Angeles County, were witnessed on Dec. 15, 1971. Mr. G. Ledingham, Engineer, representative of the supervisor was present from 0900 to 1100. There were also present W. Kirk, Operator and W. Hendley, Contractor.

Present condition of well: 12-3/4" cem. 150'; 7" cem. 2435', perf. 2336' WSO, perfs. at intervals 2344'-2414'; 5-1/2" cem. 2305'-2715', perfs. 2422'-2709'. T.D. 2982', plugged with cement 2678'-2250'±, and 25' to the surface.

The operations were performed for the purpose of witnessing the plugging operations in the process of abandonment.

Mr. --- reported:

THE PLUGGING OPERATIONS AS REPORTED AND WITNESSED ARE APPROVED.

GL:dr

cc William A. Kirk III
Production Dept.

JOHN F. MATTHEWS, JR.
State Oil and Gas Supervisor

By [signature] Deputy

FORM 107

DIVISION OF OIL AND GAS
RECEIVED
SEP 21 1971
INGLEWOOD, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Notice of Intention to Deepen, Redrill, Plug or Alter Casing in Well

This notice must be given before work begins; one copy only

Harbor City Calif. September 17 1971

DIVISION OF OIL AND GAS

Inglewood Calif.

In compliance with Section 3203, Chapter 93, Statutes of 1939, notice is hereby given that it is our intention to commence the work of deepening, redrilling, plugging or altering casing at Well No. Lucky Lusty No. 1
(Cross out unnecessary words)

, Sec. 14, T. 4N, R. 16W, S B B. & M.

Bouquet Canyon area Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth.

   2470' plugged back from 2982'.

2. Complete casing record, including plugs:

   12-3/4" to 150'

   7" to 2435'

   Gun perforated 2344' to 2414'

3. Last produced. 9-5-71 (Date) 1 (Net Oil) 39 (Gravity) (Cut)

The proposed work is as follows:

Plug and abandon.

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
		ARG	Bond Required	ARG	ARG

EDWARD LUSTGARTEN
(Name of Operator)

By

FORM 103

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

JUL 24 1959

LOS ANGELES, CALIFORNIA

History of Oil or Gas Well

OPERATOR EDWARD LUSTGARTEN FIELD BOUQUET CANYON Los Angeles

Well No. LUCKY LUSTY #1, Sec. 14, T. 4N., R. 16W, S.B. B. & M.

Date July 22, 1958 Signed George C. Atha

GEORGE C. ATHA
2221 E. CALIFORNIA ST.
SAN MARINO 9, CALIF.

Na-5203 (Telephone Number) Title Agent (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Atha/Ritzius 7/31/58

Date	
2/21/58	Started drilling operations, drilled ~~11 5/8~~ 17 inch hole to 150 ft., set ~~10"~~ 12 3/4" casing to surface with 35 sacks of cement. Resumed drilling with 9 7/8 inch hole to a depth of 1775' and cored to 1828', then continued drilling to a depth of 2982'. Ran electric log, and then set a plug at 2430' with 100 sacks of cement.
3/ 5/58	Took a formation test, but Johnson formation tester failed to open. Suspended operation on 3/6/58.
4/ 7/58	Reamed hole to 2437', landed 7" casing at 2435 with 400 sacks of cement, plus additional lite aggregate, ran WOS test at 2335-37', and found less than one half of stand of fluid rise. Gun perforated intervals of 2344' to 2414', made swabing test and put well on pump. Initial production approximately 39bbls of oil, and 20 bbls. of water.
4/21/58	Pulled rods and tubing, ran bailer and found shoe had been drilled out, and hole was open at bottom. to 2470
6/ 3/58	Put in Baker Bridging plug at 2423', put well back on pump, production of approximately 10 to 15 bbls. oil a day, cutting less than 10 percent.

FORM 111

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS

No. P 158-323

Mr. Edward Lustgarten
10700 Wilshire Boulevard
LOS ANGELES 24
Agent for EDWARD LUSTGARTEN

Inglewood 3 Calif.
April 17 1958

DEAR SIR:

Your supplementary proposal to drill Well No. "Lucky Lusty" 1,

Section 14, T. 4 N., R. 16 W., S. B. B. & M., xxxx Field, Los Angeles County,

dated April 11, 1958, received April 11, 1958, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES
"The present condition of the well is as follows:
Total depth. 2986', plugged with cement 2520'-2440'

Complete casing record.
12-3/4" cem. 150'."

PROPOSAL
"We now propose
1. Cement 7" casing at 2440' with sufficient cement to fill back of the 7" casing to 850'.
2. Demonstrate water shut-off at 2320'±.
3. Gun-perforate selected intervals between 2325' and 2430', and test for production."

DECISION
THE PROPOSAL IS APPROVED PROVIDED THAT THIS DIVISION SHALL BE NOTIFIED TO WITNESS a test o the effectiveness of the 7" shut-off at 2320'±.

DER:OH

cc Mr Edward Lustgarten
4025 Sepulveda Boulevard
Sherman Oaks California

E. H. MUSSER, State Oil and Gas Supervisor

FORM 109-D

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 158-194

Mr. Edward Lustgarten
10700 Wilshire Boulevard
LOS ANGELES 24
Agent for EDWARD LUSTGARTEN

Inglewood 3 Calif.
March 4, 1958

DEAR SIR:

Operations at your well No. "Lucky Lusty" 1, Sec. 14, T. 4 N, R. 16 W, S B B & M. xxxxxx Field, in Los Angeles County, were witnessed on February 26, 1958. Mr. M. Dosch, Engineer, representative of the supervisor was present from 8:30 to 9:00 a.m. There were also present B. Brunwin, Agent, E. Lustgarten, Operator.

Present condition of well: 12-3/4" cem. 150'. T.D. 1590' (drilling).

The operations were performed for the purpose of inspecting blowout prevention equipment and installation.

Mr. xxxxxxxxxxx reported:

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

MD:GH

cc Edward Lustgarten

Arthur Ritzius 3/17/58
T.D. 2950 d/c 2520-2420
gas showings 1700-1800
oil showings 2360-2440
Tried to S F T below 2400 - no test
Temp. susp.

E. H. MUSSER
State Oil and Gas Supervisor

By [signature] Deputy

FORM 105

037-01116

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS
RECEIVED
FEB 7 1958
LOS ANGELES, CALIFORNIA

DIVISION OF OIL AND GAS

Notice of Intention to Drill New Well

This notice and surety bond must be filed before drilling begins

Los Angeles Calif. February 6 19 58

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division III, Article 4, Public Resources Code, notice is hereby given that it is our intention to commence the work of drilling well No. Lucky-Lusty 1, Sec. 14, T. 4 N, R. 16 W S B B. & M., ——— Field, Los Angeles County.

Legal description of mineral right lease, consisting of 417 acres, is as follows: (Attach map or plat to scale)

See Plat

Do mineral and surface leases coincide? Yes x No ____ If answer is no, attach legal description of both surface and mineral leases, and map or plat to scale.

Location of Well: 1400' feet South (Direction) along property section line and 200' feet East (Direction) ~~at right angles to said line~~ from the Center of ~~corner of~~ property section 14 -

Elevation of ground above sea level 1320 feet U.S.G.S. datum.

All depth measurements taken from top of Rotary Table (Derrick Floor, Rotary Table or Kelly Bushing) which is 5 feet above ground.

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS
10-3/4			Surface	150	Cemented

Intended zone or zones of completion: Pliocene (Name) (Depth, top and bottom)

Estimated total depth 2500'

AGENT: Bert. Brunwin
3517 Dover Street
Los Angeles 39 Calif
PHONE: No. 5-6858

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
18A WB 2-10	18A 151 2-10		235535		

It is understood that if changes in this plan become necessary we are to notify you before running casing.

Address 4025 Sepulveda Blvd. ~~857 Foothill Blvd., La Canada, Calif.~~ Sherman Oaks

Telephone Number State 4-6808

Edward Lustgarten (Name of Operator)

By Bert Brunwin

03701117

DEPARTMENT OF CONSERVATION

STATE OF CALIFORNIA

DIVISION OF OIL, GAS, & GEOTHERMAL RESOURCES

1000 S. HILL ROAD
SUITE 116
VENTURA
CALIFORNIA
93003-4458

PHONE
805/654-4761

FAX
805/654-4765

INTERNET
consrv.ca.gov

GRAY DAVIS
GOVERNOR

April 24, 2003

Leticia Cardoso
PSOMAS
28470 Avenue Stanford
Suite 300 Building B
Santa Clarita, CA 91355

Dear Ms. Cardoso:

This Division has received your request for the review of Tentative Tract 53425. In order to conduct our review, all wells on the project site have to be physically located and surveyed in and plotted on plot plans. Upon locating each well, this Division must be contacted to determine if the well is "leaking". In the event that any of the wells are "leaking" then remedial action will be required. In the event that any "construction" is proposed that will impede access to the well, then the well must be plugged and abandoned to current standards. "Impeding access" is defined as the ability to move in oilfield equipment (10 feet x 10 feet x 50 feet and open) in the future to perform remedial work or the placement of fill at depths greater than 10 feet. In addition, any well that is within 10 feet of a structure, we will recommend to the local permitting agency that a vent system be installed on the well. However, any construction site under the jurisdiction of Los Angeles County requires gas mitigation measures if a well is within 25 feet of a structure.

In order to complete our review, we require that three copies of the plot plan showing with all wells plotted, signed as being true and correct by a licensed survor or civil engineer with all required well work completed and associated records on work performed on each well and if gas mitigation approvals are requires, they must be obtained and submitted.

If you have any questions, please contact me at (805) 654-4761.

Steven A. Fields
Operations Engineer

FORM 159 (9-49)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

(1)

REPORT OF WELL ABANDONMENT

~~Inglewood~~ California

~~May 25 1961~~

Mr. ~~Edward Lustgarten~~
~~16187 Royal Oak Road~~
~~Encino California~~
Agent for ~~EDWARD LUSTGARTEN~~

DEAR SIR:

Your report of abandonment of Well No. ~~"Lucky Lusty" 3~~, Sec. ~~14~~, T. ~~4 N~~, R. ~~16 W~~, ~~S B~~ B. & M., ~~- - -~~ field, ~~Los Angeles~~ County, dated ~~May 16, 1961~~, has been examined in conjunction with records filed in this office.

A review of the reports and records shows that the requirements of this Division, which are based on all information filed with it, have been fulfilled.

MAP	MAP BOOK	CARD	BOND		
13.18 2 5-26-61			150 K 5-25-61		

DER:es
cc Mr E H Musser
Mr Edward Lustgarten
Conservation Comm
Production Dept
Mr L A Dutton
Fire Prevention Bureau

E. H. MUSSER
State Oil and Gas Supervisor

By [signature]
Deputy Supervisor

ORM 100

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

WELL SUMMARY REPORT

SUBMIT IN DUPLICATE

DIVISION OF OIL AND GAS
RECEIVED
MAY 24 1960
INGLEWOOD, CALIFORNIA

Operator Edward Lustgarten Well No. "Lucky Lusty" #3

Sec. 14, T. 4 N, R. 16 W, S.B. B. & M. Roquet Canyon Field Los Angeles County.

Location 450' N & 350' E fr S 1/4 cor. of Sec. 14
(Give location from property or section corner, or street center lines)

Elevation of ground above sea level 1204 feet.

All depth measurements taken from top of D.F. which is 1214 feet above ground.
(Derrick Floor, Rotary Table or Kelly Bushing)

In compliance with Sec. 3215, of the Public Resources Code, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date May 21-60 Signed [illegible]

(Engineer or Geologist) Don Jackson (Superintendent) Title Agent (President, Secretary or Agent)

Commenced drilling 8 A.M.----2-20-60

Completed drilling 10 A.M.--2-27-60

Total depth 3200 Plugged depth 2630

Junk

GEOLOGICAL MARKERS	DEPTH
Mint Canyon	1460
	2640

Geologic age at total depth: Mint Canyon

Commenced producing (Date) Flowing/gas lift/pumping (Cross out unnecessary words) Name of producing zone

	Clean Oil bbl. per day	Gravity Clean Oil	Per Cent Water including emulsion	Gas Mcf. per day	Tubing Pressure	Casing Pressure
Initial production	None					
Production after 30 days						

CASING RECORD (Present Hole)

Size of Casing (A. P. I.)	Depth of Shoe	Top of Casing	Weight of Casing	New or Second Hand	Seamless or Lapweld	Grade of Casing	Size of Hole Drilled	Number of Sacks of Cement	Depth of Cement if through perf.
10 3/4	125	Surface	32 lbs.	S.H.	seamless	J-55	14"	25	Shoe
7"	2526	"	24 lbs.	S.H.	"	"	9 1/8	200	2410

PERFORATED CASING
(Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

Perf 7" 2412' - 2526'
2223 - 2244 & 2269 - 2301

FORM 101
CALIFORNIA STATE PRINTING OFFICE

SUBMIT IN DUPLICATE

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
MAY 24 1960
INGLEWOOD, CALIFORNIA

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator ~~Edward Luetgarten~~ (Field ~~Boquet Canyon~~) Los Angeles

Well No. ~~Lucky Lusty~~ ~~#3~~ Sec. ~~14~~, T. ~~4 N~~, R. ~~16 W.~~, ~~S.B.~~ B. & M.

FORMATIONS PENETRATED BY WELL

DEPTH TO Top of Formation	DEPTH TO Bottom of Formation	Thickness	Drilled or Cored	Recovery	DESCRIPTION
125	430		Drilled		Sandy Shale
430	540		"		Shale & Sandy Shale
540	720		"		Hard Sandy Shale
720	1110		"		Hard Shale
1110	1520		"		Grey Hard Shale
1520	2130		"		Shale & Hard Shale
2130	2400		"		Hard Sand & Shale
2400	2470		"		Hard Shale & Sand
2470	2490		Cored	3"	Soft Sand, some odor, (no cuts)
2490	3200		Drilled		Hard Sand & Shale
	Bottom--3200				

FORM 111

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS

No. P 161-390

Mr. Edward Lustgarten
16187 Royal Oak Rd.
Encino, California
Agent for EDWARD LUSTGARTEN

Inglewood Calif.
April 27, 1961

DEAR SIR:

Your proposal to abandon Well No. "Lucky Lusty" 3,

Section 14, T. 4 N, R. 16 W, S B B. & M., xxxxxx Field, Los Angeles County,

dated April 24, 1961, received April 25, 1961 has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

RECORDS IN ADDITION TO, OR AT VARIANCE WITH, THOSE SHOWN IN THE NOTICE:
7" ld. 2526', perf. 2412'-2526', 2301'-2269' and 2243'-2223', c.p. 2410', perf. 2385', W.S.(T.D. 3200', plugged with cement 2887'-2630', with bridge plug at 2370'. (Base of fresh water 750')(No fluid entry through perfs. 2412'-2526')

THE NOTICE STATES
"THE PRESENT CONDITION OF THE WELL IS:
1. Total Depth: 2526 Ft.
2. Complete casing record, including plugs:

125-Ft.	10 5/8	J-55
2526-Ft.	7"	J-55

3. Last Produced None
(Date) (Oil, B/D) (Water, B/D)

ADDITIONAL DATA FOR DRY HOLE
4. Oil or Gas showings and resul of tests: None
5. Stratigraphic markers and depths:
Mint Canyon @ 700 ft.
6. Geologic age at bottom:
Mint Canyon
7. Base of fresh water sands:
700 ft. "

PROPOSAL
"THE PROPOSED WORK IS
1. Bring cement from bottom up above 2350 ft.
2. Fill the hole with good mud.
3. Put 25 ft. plug at surface. "

DECISION
THE PROPOSAL IS APPROVED PROVIDED
1. The hole shall be plugged with cement from 2330' to 2200', from 800' to 750' and from 25' to the surface.
2. THIS DIVISION SHALL BE NOTIFIED to witness the placing and the location and hardness of each cement plug.

DER:omh

cc Company
George C. Atha

E. H. MUSSER, State Oil and Gas Supervisor

Bond No. 263272

FORM 109-A

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Report on Test of Water Shut-off

(FORMATION TESTER)

No. T 160-135

Mr. Edward Lustgarten
10700 Wilshire Blvd.
Los Angeles 24, California
Agent for EDWARD LUSTGARTEN

Inglewood 3, Calif.
March 4, 1960

DEAR SIR:

Your well No. "Lucky Lusty" 3, Sec. 14, T. 4 N, R. 16 W, S B B & M. xxxxxxxx Field, in Los Angeles County, was tested for water shut-off on March 1, 1960. Mr. W. Hunter, Engineer, designated by the supervisor was present from 7:00 p.m. to 9:30 p.m. as prescribed by law; there were also present G. Atha, Engineer D. Jackson, Drilling Foreman

Shut-off data: 7 in. 20 & 23 lb. casing was xx cemented through perforations at 2410 ft. on February 28, 1960 in 9-7/8 in. hole with 450 ~~xxxxx~~ sacks of cement, the last 150 sacks treated with 2% $CaCl_2$ calculated to fill behind casing to 440 ft. below surface.

Casing record of well: 10-3/4" cem. 125'; 7" ld. 2526', perfs 2412'-2526', c.p. 2410', perf. 2385', W.S.O., plugged with cement 2887'-2630'.

Present depth 3200 ft. cmt. bridge 2410 ft. to 2405 ft. Cleaned out cmt 2366 ft. to 2405 ft. for test. A Halliburton gun and tester was run into the hole on 2-7/8 in. ~~drill pipe~~ tubing, with xxxx ft. of water-mud cushion, and packer xx set at 2335 ft. with tailpiece to 2358 ft. Tester valve, with 5/8 in. bean, was open for one hr. and xxxx min. During this interval there was a medium blow decreasing to weak in five minutes, and no blow thereafter.

Mr. Atha reported:

1. A 10-3/4" casing was cemented at 125'.
2. A 9-7/8" hole was drilled from 125' to 3200'.
3. On February 27, 1960, 150 sacks of cement was pumped into the hole through 4-1/2" drill pipe hanging at 2887' and filling to 2630'.
4. The 7" casing was jet-perforated with four, 1/2" holes at 2385'.

THE ENGINEER NOTED

1. When the tubing was removed, 20' of thin drilling fluid was found above the tester.
2. The pressure bomb chart indicated that the tester tool functioned properly.

THE 7" SHUT-OFF AT 2385' IS APPROVED.

WH:omh

cc Company

E. H. MUSSER
State Oil and Gas Supervisor

By [signature] Deputy

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL REOSURCES

DIVISION OF OIL AND GAS

Report on Proposed Operations

No. P 160-141

Page 2

EDWARD LUSTGARTEN Company

Well No. "Lucky Lusty" 3, Section 14, T. 4 N, R. 16 W, S B B. & M.,

5. THIS DIVISION SHALL BE NOTIFIED AS FOLLOWS:
   a. To inspect the installed blowout prevention equipment before drilling below 500'.
   b. To witness a test of water shut-off above each productive zone, of any casing cemented over or through any oil or gas zone, or zones.

DER:omh

cc Company

Bond No. 263272
Dated 2-15-60

E. H. MUSSER, State Oil and Gas Supervisor

FORM 111X

FORM 159 (9-49)

03701121

(13)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

REPORT OF WELL ABANDONMENT

Inglewood California

September 11 1959

Mr. C F Bowden
P O Box 7600
Los Angeles 54 California
Agent for UNION OIL CO OF CALIFORNIA

DEAR SIR:

Your report of abandonment of Well No. "Bonelli" 2, Sec. 14, T. 4 N, R. 16 W, S B B. & M., - - - field, Los Angeles County, dated July 28, 1959, has been examined in conjunction with records filed in this office.

A review of the reports and records shows that the requirements of this Division, which are based on all information filed with it, have been fulfilled.

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
FB 9-21 WB			Blanket		

DER:es
cc Mr E H Musser
Mr Carl B Bowden
Conservation Committee
Production Department
Mr L A Dutton
Fire Prevention Bureau
Mr Chas L Young

E. H. MUSSER
State Oil and Gas Supervisor

By [signature]
Deputy Supervisor

UNION OIL COMPANY

SURVEY REPORT (Drift Shots Only)

Date August 14, 1959 Field Exploratory Well Bonelli No. 2

Measured Depth	Drift Angle
100'	0° 50'
200'	1° 15'
315'	1° 15'
400'	1° 15'
500'	0° 45'
700'	1° 15'
800'	0° 45'
1000'	0° 30'
1190'	0° 30'
1405'	0° 45'
1772'	2° 00'
2030'	1° 15'
2130'	1° 15'
2253'	1° 00'
2456'	1° 30'
2595'	1° 10'
2820'	2° 00'
3096'	1° 00'

DIVISION OF OIL AND GAS
RECEIVED
SEP 2 1959

UNION OIL COMPANY

DRILLING REPORT

INGLEWOOD, CALIFORNIA

Condition of Hole
11-3/4" @ 315'

Well No. Ponelli No. 2

Field Exploratory

County Los Angeles

Sec. 4 T. 4N R. 10W S.B.B.M.

Barnes Core Drilling
(Contractor)

Date 1959	Depth	Drilled	REMARKS
7-1	315	315	Spudded at 11:00 A.M., July 1, 1959. Drilled 12-1/4" hole to 315' Opened 12-1/4" hole to 17-1/2" to 315'.
7-2	315	----	Ran 11-3/4" 42# H-40 casing to 315'. Cemented through Baker guide shoe with 311 sax cement (2% $CaCl_2$). Good returns to surface. C. 3:35 P.M. Oil Well Cementers. Installed 12" S-400 National base.
7-3	590	275	Installed and tested B.O.P. and Kelly cock with 1100 psi for 10 minutes. Drilled out cement from 255-315'. Drilled 9-7/8" hole.
7-4	850	232	Drilled 9-7/8" hole. Core #1: 822-850', recovered 7' oil sand.
	Cored	28	
		260	
7-5	1115	265	Ran electric log and sidewall sampler at 850'. Drilled 9-7/8" hol
7-6 and 7-7	1843	728	Drilled 9-7/8" hole. Mud: 77 - 45 - 7 cc - 2/32 - 5% - 750 psi.
7-8	2150	187	Core #2: 1942-1962', cut 20', recovered 15'. Drilled 9-7/8" hole
	Cored	20	
		207	
7-9 and 7-10	2650	500	Drilled 9-7/8" hole. Mud: 76 - 47 - 7 cc - 2/32 - 6% - 800 psi.
7-11	2962	312	Twisted off, left bit, bit sub, and one drill collar (33') in hole Top of fish 2929'.
7-12	3096 T.D.	134	Ran B-R socket. Recovered fish. Drilled to 3096'. Ran electric log, sidewall sampler, and dipmeter at 3096'.
7-13	3096 T.D.	226 Plug	Laid down drill pipe.

Plug at 830' with 25 sax:
Pumped in 25 sax cement (3% $CaCl_2$) through O.E. 3-1/2" drill pipe hung at 830'. C.I.P. 1:10 P.M. Stood 4 hours.

Plug at 580' with 211 sax:
Hung O.E. drill pipe at 580'. Pumped in 211 sax cement (2% $CaCl_2$) C.I.P. 5:30 P.M. Found top cement at 368'. Approved by Division Oil and Gas.

Carl B Bowden

153E

RECEIVED

SEP 1 1959

WELL NO. Donelli No. 2

Exploratory
(FIELD)

Los Angeles
(COUNTY)

SEC. 4, T. 4S, R. 16W, S.B. B. & M.

UNION OIL COMPANY

ABANDONING REPORT

Barnes Core Drlg.
(TOOLS)

(PERIOD ENDING)

CASING RECORD

Surface, Valuable See Below.

(NOTE INEFFECTIVE CASING)

NO. TOURS	DATE 1959	DEPTH	EFFECTIVE DEPTH	REMARKS
				CONDITION OF HOLE:
		1009 T.D.	Plugged to Surface	11-3/4" @ 315'
				SPUDDED: July 1, 1959
				ABANDONED: July 14, 1959
				CHB:bda

NAMES OF DRILLERS/HEAD WELL PULLERS:

Carl R. Bundy

FORM 109-D

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T159-603

Mr. C F Bowden
P.O. Box 7600
Los Angeles 54, Calif.
Agent for UNION OIL COMPANY OF CALIFORNIA

Inglewood 3, Calif.
July 21, 1959

DEAR SIR:

Operations at your well No. "Bonelli" 2, Sec. 14, T. 4 N, R. 16 W, S B B & M. ------ Field, in Los Angeles County, were witnessed on July 13, 1959. Mr. W. Hunter, Engineer, representative of the supervisor was present from 7:30 p.m. to 12:00 p.m. There were also present W. Eklund, Engineer
L. Melton, Drilling Foreman

Present condition of well: 11-3/4" cem. 315', T.D. 3096'; plugged with cement 830'-774'±, 580'-368', 340'-226'

The operations were performed for the purpose of witnessing the plugging operations in the process of abandonment.

Mr. Eklund reported:

1. A 9-7/8" hole was drilled from 315' to 3096'.
2. On July 13, 1959, 25 sacks of cement (calculated to fill to 774') was pumped into the hole through 3-1/2" drill pipe hanging at 830'.
3. On July 13, 1959, 211 sacks of cement was pumped into the hole through 3-1/2" drill pipe hanging at 580'.

THE ENGINEER NOTED THAT

1. The cement plug was located at 368'.
2. One hundred sacks of cement (treated with 2% $CaCl_2$) was pumped into the hole through 3-1/2" drill pipe hanging at 340'.
3. The cement plug at the reported depth of 226' supported two points of the weight of the drill pipe.

THE PLUGGING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

WH:omh

cc Mr. Carl B. Bowden
P O Box 670
Santa Paula, California

6 Barrell guided well 7/22/5 [illegible] the cement was at the top of the [illegible] 43' below ground surface

E. H. MUSSER
State Oil and Gas Supervisor

By [signature] Deputy

FORM 108. 25462 10-55 25,550 ④ SPO

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
JUL 15 1959
INGLEWOOD, CALIFORNI

Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin; one copy only

Santa Paula Calif. July 13 1959

DIVISION OF OIL AND GAS

In compliance with Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon

Well No. Bonelli No. 2, Sec. 14, T. 4N,

R. 16W, S.B. B. & M., Saugus Field, Los Angeles County,

commencing work on July 13 1959.

THE PRESENT CONDITION OF THE WELL IS:

1. Total Depth: 3096'

2. Complete casing record, including plugs:

11-3/4" C 315'

3. Last Produced ----- (Date) (Oil, B/D) (Water, B/D)

ADDITIONAL DATA FOR DRY HOLE

4. Oil or Gas showings and results of tests:

Minor shows @ 810-830'. Did not warrant testing.

5. Stratigraphic markers and depths:

Base of Saugus - 500'.

6. Geologic age at bottom: Mint Cyn. formation

7. Base of fresh water sands: 530'

THE PROPOSED WORK IS

1. Plug at 830' with 25 sax.
2. Plug at 580' with 280 sax. Top of plug to be above 295'. Division of Oil and Gas to witness location and hardness of plug.
3. Plug top 10' of 11-3/4" casing with cement. Weld 1/4" steel plate on top of 11-3/4" casing. Notify Division of Oil and Gas upon completion.

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121

P. O. Box 670 - Santa Paula
(Address)

Jackson 5-4422
(Telephone No.)

UNION OIL COMPANY OF CALIFORNIA
(Name of Operator)

By Carl B. Bowden
Carl B. Bowden, Division Engineer

FORM 111

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS

No. P 159-584

121

Mr. C F Bowden
P O Box 7600
LOS ANGELES 54
Agent for UNION OIL CO OF CALIFORNIA

Inglewood 3 Calif.
July 9, 1959

DEAR SIR:

Your _____ proposal to drill Well No. "Bonelli" 2,

Section 14, T. 4 N, R. 16 W, S B B. & M., xxxxx Field, Los Angeles County,

dated July 7, 1959, received July 8, 1959, has been examined in conjunction with records filed in this office.

Present conditions as shown by the records and the proposal are as follows:

THE NOTICE STATES
"Legal description of mineral right lease, consisting of _____ acres, is as follows: (Se attached map).
Do mineral and surface leases coincide? Yes X No _____
Location of Well: ~~300~~ 365.53' feet South and ~~1015~~ 1211.03' feet West from the North quarter corner of sect 14. (See History)
Elevation of ground above sea level ~~1200~~ 1211.03' feet ground datum.
All depth measurements taken from top of rotary table which is 7.65 feet above ground."
PROPOSAL
"PROPOSED CASING PROGRAM
Size of Casing

Inches A.P.I.	Weight	Grade and Type	Top	Bottom	Cementing Depths
11-3/4"	40.5#	K-40	Surface	300'	300'
7"	23#	J-55	Surface	3000'	Top producing interval

Intended zone or zones of completion: Miocene (Name) Exploratory (Depth, top and bottom)

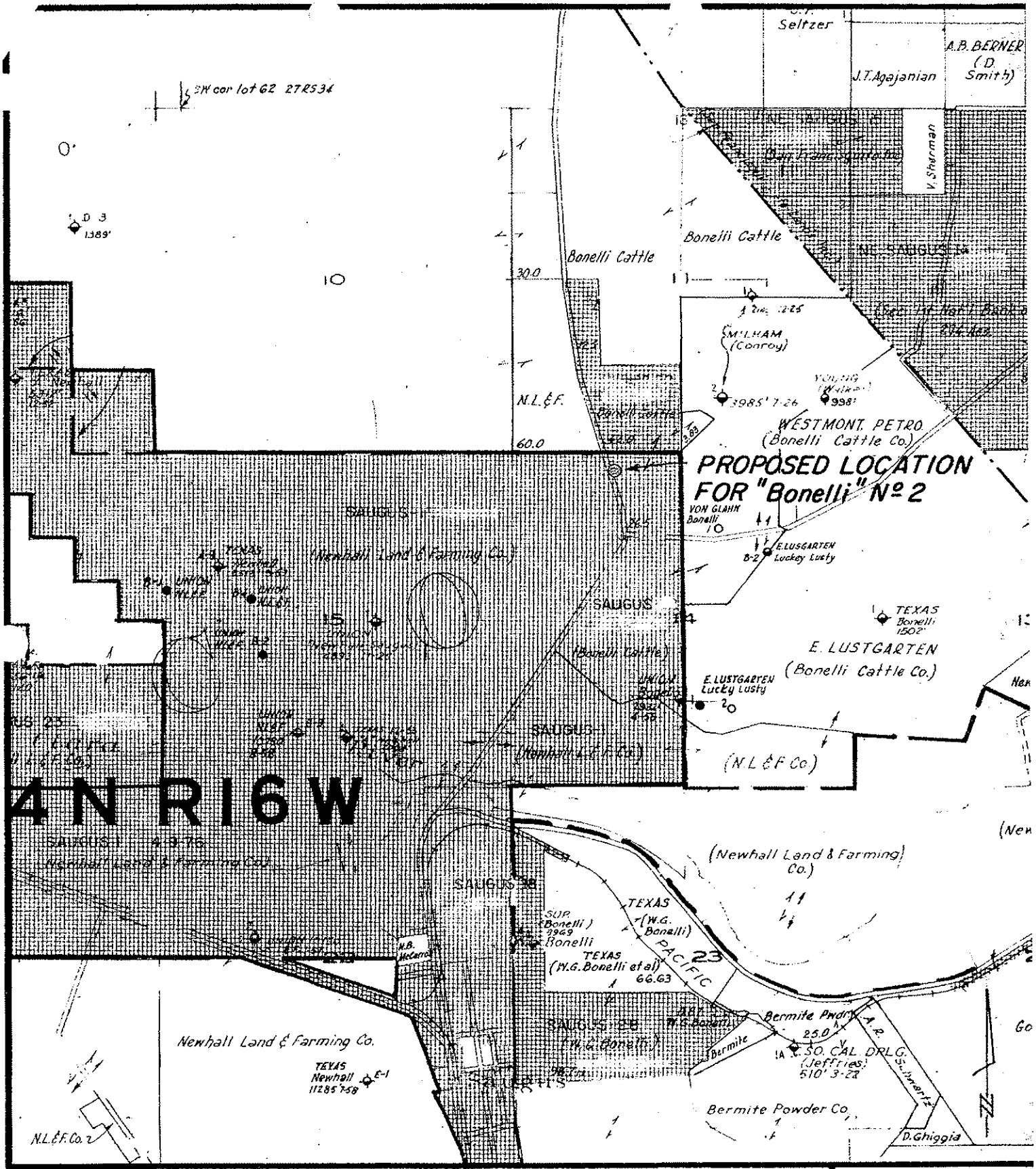
Estimated total depth 3000'
It is understood that if changes in this plan become necessary we are to notify you before running casing."
DECISION
THE PROPOSAL IS APPROVED PROVIDED THAT

1. Mud fluid consistent with good drilling practice shall be used, and the column of mud fluid maintained at all times to the surface, particularly while pulling the drill pip
2. Adequate blowout prevention equipment shall be installed and maintained in operating condition at all times.
3. Sufficient cement shall be used to fill all the space back of the 7" casing to above t top of any oil-, gas-, or salt water-bearing formations, or the casing shall also be cemented through ports at a point below the base of the fresh water-bearing formations with sufficient cement to fill to above such base. This Division shall be consulted r garding cementing depths prior to running the 7" casing into the hole.
4. THIS DIVISION SHALL BE NOTIFIED AS FOLLOWS:
   (a) To inspect the installed blowout prevention equipment before drilling below 1000'.
   (b) To witness a test of the the effectiveness of the 7" shut-off.

DER:OH

E. H. MUSSER, State Oil and Gas Supervisor

cc Mr F R Wade, Div. Engineer



Rev.	Date

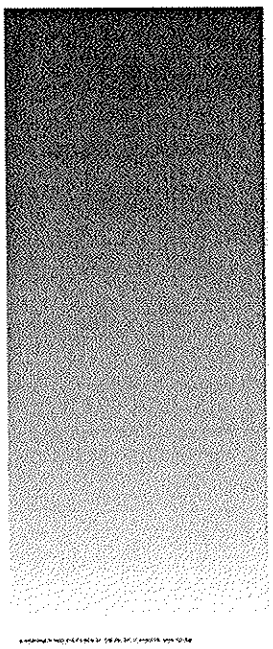
SAUGUS FIELD

UNION OIL COMPANY OF CALIFORNIA

Drawn Lee
App'd C.B.B
Scale 1" = 2000'
Date 6-17-59

Base – U.O. Land Map

APPENDIX C: ACOE CONCEPTUAL HYDROGEOLOGY TECHNICAL MEMORANDUM FOR THE BERMITE WHITTAKER SITE CONTAMINATION



Final

Eastern Santa Clara Subbasin
Groundwater Study
Santa Clarita, California

Conceptual Hydrogeology Technical Memorandum

Prepared for
United States
Army Corps of Engineers
Los Angeles District
Southern Pacific Division

January 10, 2005

CH2MHILL

Post Date:
Executive Su
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ES.2 Project
ES.3 Purpose
TM
ES.4 Summa
Investigation
ES.5 Findings
ES.6 Recomn
Location Map
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with Tables (
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More Docume

Project Info
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Eastern Santa Clara Subbasin Groundwater Study
Santa Clarita, California

Executive Summary:

ES.1 Introduction
This Conceptual Hydrogeology Technical Memorandum (TM) presents the data and findings obtained between October 2002 and April 2004 as part of the Site Characterization Phase of the Eastern Santa Clara Subbasin Groundwater Study (project), Santa Clarita, California (Figure ES-1). The study area includes the former Whittaker Corporation Bermite Facility (Site) and adjacent areas of the Santa Clarita Valley (Figure ES-2). The scope of work includes an evaluation of the nature and extent of regional groundwater impact from chemicals of interest (COIs), or preliminary chemicals of potential concern (COPCs), including perchlorate, in the study area. This work is performed under contract to the United States Army Corps of Engineers (USACE) "Civil Works" program, with Castaic Lake Water Agency (CLWA) as the nonfederal sponsor. On April 11, 2002, USACE entered into a Feasibility Cost-Sharing Agreement with CLWA, which represents the water purveyors in the eastern Santa Clarita Valley. The California Department of Toxic Substances Control (DTSC) is the lead regulatory agency.

The Site is located in the eastern Santa Clarita Valley, near the confluence of the Santa Clara River and the South Fork of the Santa Clara River, approximately 2 miles northeast of Newhall, in Los Angeles County, California (Figure ES-2). Santa Clarita, LLC

(SCLLC) is the current property owner. Previous operations at the Site included the manufacture, storage, and testing of a variety of explosives, munitions, and propellants. Releases of perchlorate, volatile organic compounds (VOCs), and other COIs associated with former operations have impacted soil and groundwater at the Site. Perchlorate and/or VOCs also have been detected in groundwater samples from four municipal water supply or production wells located west of the Site, SC-Saugus 1 and 2, NC-11, and V-157; and one located north of the Site, SC-Stadium (Figure ES-2).

The Site was previously divided into seven operable units (OUs) designated based on the location of known source areas, former Site operations, local surface watersheds, and the affected media. Groundwater impacted by Site operations was grouped into a single OU and designated as OU7. USACE characterization efforts have focused on assessing the nature and extent of impacted groundwater in the study area, which includes OU7 groundwater. The project is implemented under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) procedures. The results are intended to support the ongoing OU7 remedial investigation by Whittaker Corporation (Whittaker), and the CLWA response activities for impacted production wells. Whittaker is currently conducting various remedial investigations onsite and offsite under a Unilateral Order issued by DTSC on November 22, 2002: Imminent and Substantial Endangerment Determination and Order and Remedial Action Order. CLWA is the nonfederal cost-sharing sponsor of the project and is also conducting various work under a voluntary Environmental Oversight Agreement entered into with the DTSC. Under this agreement, DTSC is providing review and oversight of the response activities being taken by CLWA related to the detection of perchlorate at the five impacted production wells.

ES.2 Project Objectives

The main objective of the project is to sufficiently characterize the existing groundwater conditions in the study area to develop and evaluate interim, if applicable, and long-term solutions to address perchlorate-impacted groundwater in the study area. The specific objectives for the site characterization activities are as follows:

- Obtain subsurface characterization data, specifically lithologic, hydraulic, and chemical data in the alluvium and Saugus Formation.
- Complete a baseline assessment of the groundwater quality in the study area.
- Complete additional rounds of groundwater sampling in the study area to confirm the results of the baseline assessment.
- Test for chemical parameters that affect the efficiency or applicability of various potential groundwater-treatment processes. (Note: These results are presented but will not be discussed further in this TM; they will be evaluated as part of water treatment/engineering feasibility studies.)

ES.3 Purpose and Scope of TM

The purpose of this TM is to present the conceptual hydrogeology of the study area, which provides the fundamental framework for ongoing work in the eastern Santa Clarita Valley. It summarizes and evaluates the results of site characterization efforts completed by USACE between October 2002 and April 2004, focusing on the regional extent of impacted groundwater and potential contaminant migration pathways. This TM is not intended to be a comprehensive

treatise of all previous and ongoing site characterization efforts related to OU7; Whittaker will prepare an OU7 Remedial Investigation Report at a later date. In addition, the CLWA is concurrently preparing groundwater modeling and additional well characterization studies in support of the response activities for the impacted production wells.

ES.4 Summary of Remedial Investigations

USACE completed remedial investigations in two major phases between October 2002 and April 2004 (Tables ES-1 and ES-2). Below is a summary of the field activities conducted to meet the project objectives:

USACE completed remedial investigations in two major phases between October 2002 and April 2004 (Tables ES-1 and ES-2). Below is a summary of the field activities conducted to meet the project objectives:

• To obtain subsurface characterization data in the alluvium (Figure ES-3) and Saugus Formation (Figure ES-4):

- Drilled a total of almost 8,500 linear feet, with the deepest monitoring well advanced to a depth of almost 1,600 feet.
- Installed 41 monitoring wells at 11 different locations, including five deep multiport (MP) wells.
- Advanced 17 temporary boreholes by the cone penetrometer testing (CPT) technique to optimally place the shallow alluvium wells, and collected groundwater samples from 10 of the 17 borings advanced.
- Completed five groundwater sampling events and collected a total of 149 groundwater samples.
- Collected water level/piezometric surface elevation data nine times.
- Conducted aquifer testing that consist of slug tests at three MP wells and 3-day-long pumping tests at two production wells, V-205 and NC-13, while monitoring responses to the pumping at adjacent wells.

• To complete a baseline assessment of the groundwater quality in the study area, tested all the wells once initially for a "baseline" suite of analytes, totaling more than 200 parameters, that includes: perchlorate, VOCs, explosive compounds, nitrosamines, and other COIs (i.e., 1,4-dioxane, semivolatile organic compounds [SVOCs], chlorate, gross alpha and gross beta, cyanide, hexavalent chromium). They also were tested for metals (including major cations), major anions, alkalinity, total Kjeldahl nitrogen, nitrate, nitrite, ammonia, total dissolved solids, biochemical oxygen demand, chemical oxygen demand, and total organic carbon.

• To confirm the results of the baseline assessment, conducted additional (two to four, depending on which phase the wells were first installed) groundwater sampling events. The wells were tested for a more focused suite of analytes during the subsequent sampling events.

To obtain subsurface characterization data in the alluvium (Figure ES-3) and Saugus Formation (Figure ES-4):
- Drilled a total of almost 8,500 linear feet, with the deepest monitoring well advanced to a depth of almost 1,600 feet.
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• To complete a baseline assessment of the groundwater quality in the study area, tested all the wells once initially for a "baseline" suite of analytes, totaling more than 200 parameters, that includes: perchlorate, VOCs, explosive compounds, nitrosamines, and other COIs (i.e., 1,4-dioxane, semivolatile organic compounds [SVOCs], chlorate, gross alpha and gross beta, cyanide, hexavalent chromium). They also were tested for metals (including major cations), major anions, alkalinity, total Kjeldahl nitrogen, nitrate, nitrite, ammonia, total dissolved solids, biochemical oxygen demand, chemical oxygen demand, and total organic carbon.
• To confirm the results of the baseline assessment, conducted additional (two to four, depending on which phase the wells were first installed) groundwater sampling events. The wells were tested for a more focused suite of analytes during the subsequent sampling events.

ES.5 Findings
Based on the data collected during the project, the following findings are offered:

Hydrostratigraphy
• The study area conceptual hydrostratigraphic model was defined with 10 hydrostratigraphic units (HSUs) to provide a general framework to evaluate the groundwater flow conditions and the migration of COIs. The HSUs include the Quaternary Alluvium, eight HSUs south of the San Gabriel fault, and one Saugus HSU north of the San Gabriel fault; a simplified three-dimensional view of the conceptual hydrogeology is shown in Figure ES-5.
• The HSUs were defined based on hydraulic head data measured, observed pumping responses to Saugus Formation production well extraction, interpretation of geophysical and lithologic logs, and the results of the March 2004 Saugus Formation aquifer tests at production wells NC-13 and V-205.

Aquifer Properties
• Aquifer properties of the Saugus Formation were estimated from USACE testing. The transmissivity values for the Saugus Formation screened by local Saugus production wells range from 5,544 to 47,355 square feet per day (ft2/day), corresponding to bulk hydraulic conductivity (K) values of 3.5 to 34.3 ft/day. Estimated K values for HSUs SIII, SV, and SVII range from 1.9 to 18.8 ft/day, 1.0 to 23.1 ft/day, and 0.1 to 38.6 ft/day, respectively. The K values reported by USACE and other investigators for discrete lithologic intervals within the Saugus Formation vary by nearly three orders of magnitude, consistent with the heterogeneous nature of the Saugus Formation.
• The bulk K values reported for the Quaternary Alluvium are significantly larger than those for the Saugus Formation. The K values of the Quaternary Alluvium have been estimated by other investigators to be 550 ft/day in the Santa Clara River between the Site and Bouquet Junction, and 105 ft/day in the South Fork west of the Site.

Groundwater Flow
• Groundwater flows westward in the Quaternary Alluvium (Figure

ES-6) in the Santa Clara River and northward in the South Fork Santa Clara River. The horizontal hydraulic gradient is approximately 0.005 foot per foot (ft/ft) in the main reach, 0.0007 ft/ft in the South Fork, and 0.003 ft/ft downstream of the confluence of these drainage systems. Depending on the location, the vertical hydraulic gradients can be either upward (AL-4, approximately 0.07 ft/ft) or downward (at AL-9, 0.04 ft/ft).
• Groundwater in the Saugus Formation flows northwest in HSUs SI and SIII (Figures ES 7 and ES-8), subparallel to the trace of the San Gabriel fault, and west-southwest in HSU SVII (Figure ES-9). The average horizontal hydraulic gradient in HSUs SI, SIII, and SVII is approximately 0.001 ft/ft, 0.002 ft/ft, and 0.001 ft/ft, respectively. The horizontal gradient in HSU SIII is steeper northwest of MP-1 (0.004 ft/ft) than onsite (0.001 ft/ft), apparently due to the pumping influence from production wells V-205, V-201, and V-160. The westerly flow direction observed in HSU SVII may be due, in large part, to groundwater extraction at production wells NC-13 and NC-12. The groundwater flow direction in HSU SV is assumed to be toward the west, based on the similar pumping responses observed in HSUs SVII and SV.
• The direction of the vertical hydraulic gradient across the Saugus HSUs is generally downward, with the exception of the gradient between HSUs SVIII and SVII. Because little groundwater extraction occurs from HSU SVIII, the piezometric surface elevations are higher (greater than 100 feet) in HSU SVIII than in the overlying units. Gradient reversals between HSUs SV and SVII have occurred (as observed at MP-1); this phenomenon is likely a result of the combined extraction from production wells V-205, V-201, and V-160 being substantially larger than at production wells NC-12 and NC-13. The magnitude of the vertical gradients across the HSUs ranges from approximately 0.8 ft/ft to 0.02 ft/ft and varies seasonally with changes in Saugus Formation groundwater extraction.

Water Quality
• Although a large number of COIs, or potential COPCs, including perchlorate, VOCs, SVOCs, nitroaromatics and nitroamines (explosive compounds), and nitrosamines, were tested, perchlorate, trichloroethylene (TCE), and tetrachloroethylene (PCE) appear to be the primary COIs in groundwater in the study area (Table ES-3). Where TCE and PCE were detected, they generally occurred with perchlorate. Other analytes were detected; however, the detections were inconsistent and/or the concentrations were less than regulatory action levels.
• All three primary COIs (perchlorate, TCE, and PCE) were detected at concentrations that exceed their regulatory action levels onsite. The maximum concentrations of perchlorate (64,500J micrograms per liter [mg/L]), TCE (2,000J mg/L), and PCE (10 mg/L) were detected at the same location (MP-2 Screen 1) onsite. Perchlorate and TCE were detected above their regulatory action levels offsite; PCE was detected at concentrations less than, but close to, its regulatory action level offsite.
• Perchlorate, TCE, and PCE were detected in the alluvium as far as Bouquet Junction, which is located approximately 1 mile west of the Site (Figure ES-10). Perchlorate was detected approximately 2,500 feet southwest of Bouquet Junction. The results are consistent with contaminant migration via the alluvium, where the COIs from onsite source areas appear to have migrated in the alluvium west from the Site along the southern margin of the Santa Clara River into the confluence of the Santa Clara River and the South Fork.
• Perchlorate also was detected in the alluvium in the South Fork as far south as the mouth of Oakdale Canyon, which drains major

onsite source areas (Figure ES-10). The results are consistent with contaminant migration via infiltration of impacted surface water runoff. Impacted groundwater appears to have migrated vertically into the Saugus Formation in this area and may have impacted NC-11. Whittaker implemented short-term measures to minimize perchlorate impacts to surface water during the 2003/2004 rainy season, and a feasibility study for the mitigation of perchlorate in surface water runoff is in progress and will be reported separately.
• Perchlorate was detected in the Saugus Formation onsite at MP-2 and offsite as far west as MP-5 (Figures ES-11 and ES-12). The distance between the two wells is more than 2 miles. The groundwater impact appears to be limited to the upper portion of the Saugus Formation. Available data suggest HSUs SI and SIII are impacted (maximum perchlorate concentration is 11.9 mg/L); this translates to approximately 200 feet of saturated thickness onsite and more than 900 feet deep offsite. The distribution of perchlorate concentrations at MP-2, MP-1, SC-Saugus 1, and V-157 is consistent with contaminant migration in HSU SIII via vertical downward migration of perchlorate through the Saugus Formation vadose zone and lateral migration away from the source areas. NC-11 also may have been impacted by a similar mechanism.

ES.6 Recommendations

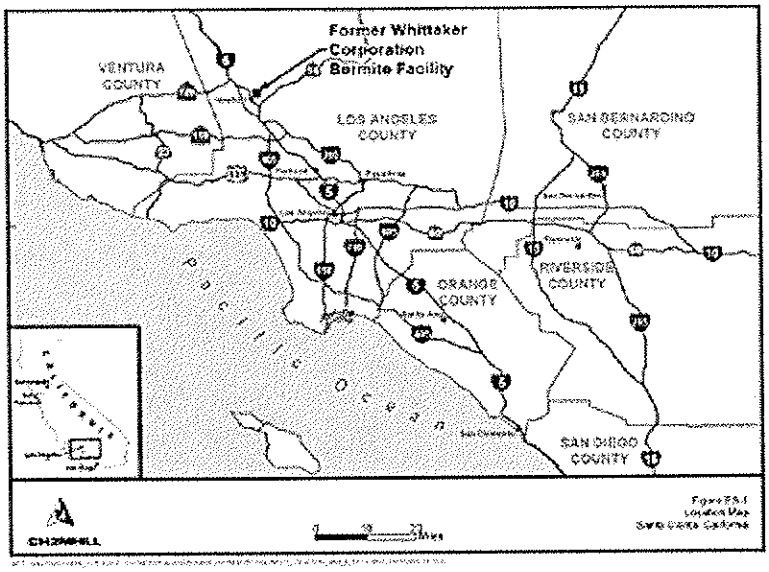
The site characterization data obtained during the project, integrated with pertinent data made available to USACE by CLWA and Whittaker, provided the basis for the conceptual hydrogeology presented in Section 4, a robust working framework for ongoing work in the eastern Santa Clarita Valley. The body of data also provided the basis for refining the primary conceptual migration pathways. USACE recommends continuing groundwater monitoring activities to confirm the results of the baseline assessment and to evaluate potential changes in groundwater concentrations over time.

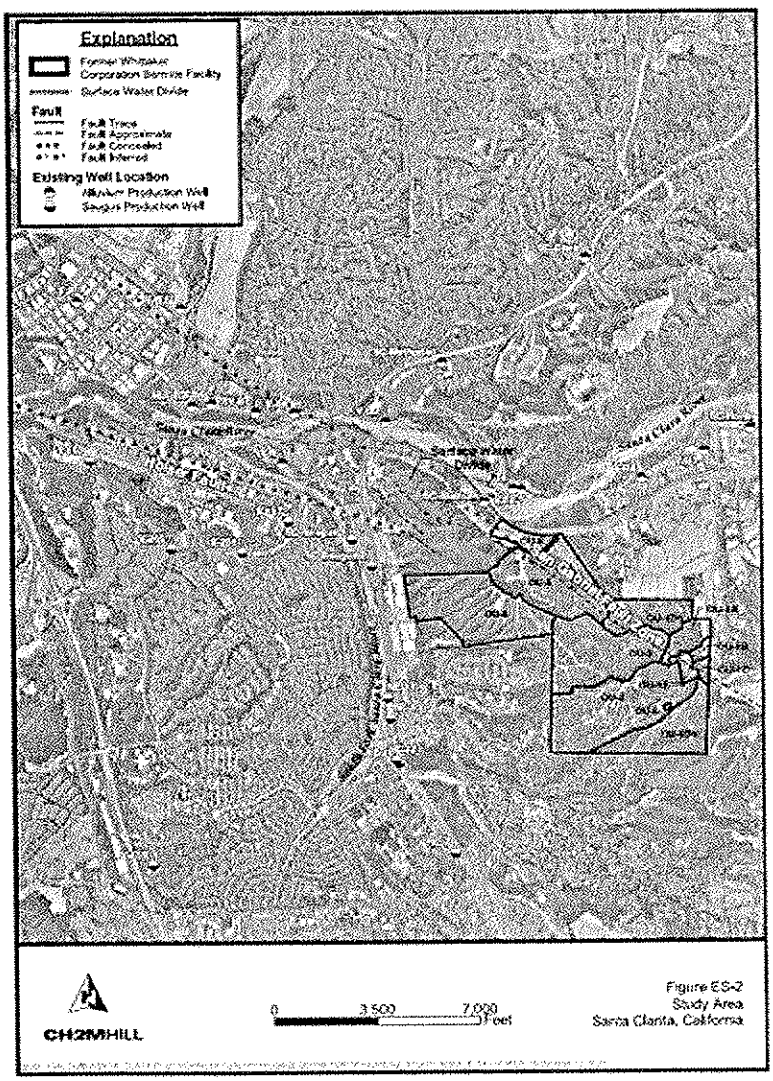
Although a large amount of data is now available and a good understanding of the subsurface in the study area is achieved, there is a need for additional data to continue defining the lateral and vertical extent of impacted groundwater in the Quaternary Alluvium and the Saugus Formation. Additional site characterization is recommended to:

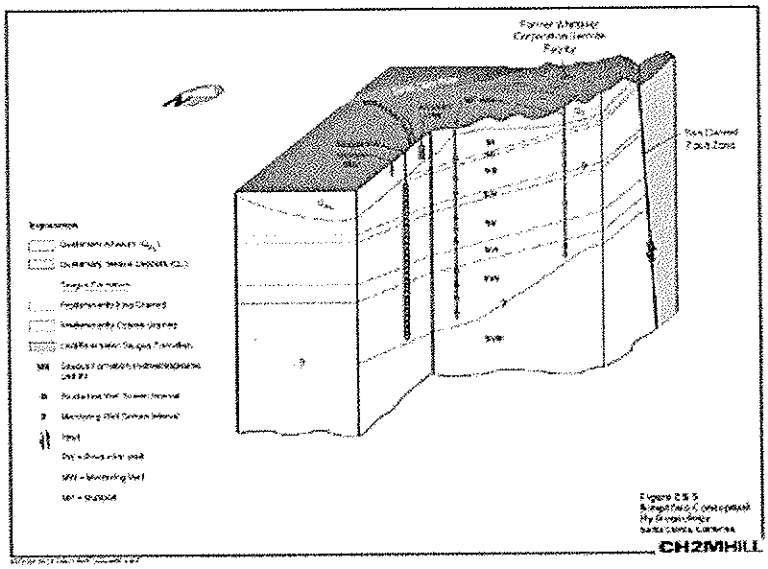
• Continue defining the horizontal and vertical extent of groundwater impact in the alluvium at the confluence of the Santa Clara River and the South Fork.
• Define the vertical extent of groundwater impact in the Saugus Formation, specifically whether groundwater impact extends into HSU SV west of the Site.
• Define the horizontal extent of groundwater impact in the Saugus Formation west of the Site and the three northern impacted production wells, V-157, SC-Saugus 1, and SC Saugus 2.
• Continue defining the horizontal and vertical extent of groundwater impact in the Saugus Formation in the vicinity of production wells NC-11 (impacted) and NC-13 (not impacted).

Working in conjunction with CLWA and Whittaker, USACE has proposed a program for additional site characterization that addresses these data needs.

Location Maps and Study Area (Click to Enlarge):


Former Whittaker Corporation Bermite Facility
VENTURA COUNTY
LOS ANGELES COUNTY
SAN BERNARDINO COUNTY
ORANGE COUNTY
RIVERSIDE COUNTY
SAN DIEGO COUNTY
Pacific Ocean
CH2MHILL


Explanation
Former Whittaker Corporation Bermite Facility
Surface Water Divide
Fault
Fault Trace
Fault Approximate
Fault Concealed
Fault Inferred
Existing Well Location
Alluvial Production Well
Saugus Production Well
Santa Clarita River
Santa Clara River
CH2MHILL
0 3,500 7,000 Feet
Figure ES-2
Study Area
Santa Clarita, California



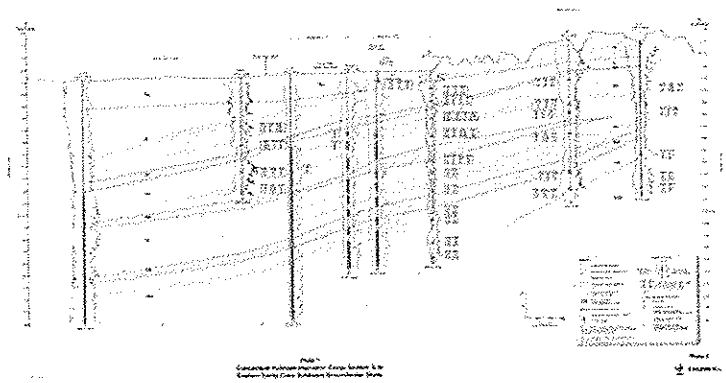


Plate 1 (Click to enlarge)
Conceptual Hydrostratigraphic Cross-Section A-A'

**For complete version of Conceptual Hydrogeology Technical Memorandum of Eastern Santa Clara Subbasin Groundwater Study, please email us at PublicAffairs.SPL@usace.army.mil (579pages - 69MB PDF)

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APPENDIX D: EDR SITE ASSESSMENT AND REPORT

The EDR Radius Map
with GeoCheck®

Cross Valley Connector East
Cross Valley Corridor
SANTA CLARITA, CA 91350

Inquiry Number: 01209277.1r

June 10, 2004

EDR™ Environmental
Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
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FORM-NIC

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

CROSS VALLEY CORRIDOR
SANTA CLARITA, CA 91350

COORDINATES

Latitude (North):	34.423000 - 34' 25' 22.8"
Longitude (West):	118.525300 - 118' 31' 31.1"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	359834.7
UTM Y (Meters):	3809918.0
Elevation:	1221 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	34118-D5 NEWHALL, CA
Source:	USGS 7.5 min quad index

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 ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites

STATE ASTM STANDARD

Notify 65..... Proposition 65 Records
Toxic Pits..... Toxic Pits Cleanup Act Sites
WMUDS/SWAT..... Waste Management Unit Database
CA BOND EXP. PLAN..... Bond Expenditure Plan
INDIAN UST..... Underground Storage Tanks on Indian Land

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

FEDERAL ASTM SUPPLEMENTAL

CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
Delisted NPL..... National Priority List Deletions
HMIRS..... Hazardous Materials Information Reporting System
MLTS..... Material Licensing Tracking System
MINES..... Mines Master Index File
NPL Liens..... Federal Superfund Liens
PADS..... PCB Activity Database System
FUDS..... Formerly Used Defense Sites
INDIAN RESERV..... Indian Reservations
DOD..... Department of Defense Sites
US BROWNFIELDS..... A Listing of Brownfields Sites
TSCA..... Toxic Substances Control Act
FTTS INSP..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

DEED..... List of Deed Restrictions
AOCONCERN..... San Gabriel Valley Areas of Concern

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas..... Former Manufactured Gas (Coal Gas) Sites

BROWNFIELDS DATABASES

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

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.

FEDERAL ASTM STANDARD

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CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System 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).
CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 02/26/2004 has revealed that there are 5 CERCLIS sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
NATIONAL TECHNICAL SYSTEMS	*20979 GOLDEN TRIANGLE R*	*1 - 2*	*E*	*BL454*	*341*
HI-SHEAR TECHNOLOGY CORP	*26413 N GOLDEN VALLEY R*	*1 - 2*	*SE*	*BT502*	*370*

Lower Elevation	Address	Dist / Dir		Map ID	Page
BERMITE DIVISION	*22116 WEST SOLEDAD CANY*	*1/2 - 1*	*S*	*C9*	*13*
KEYSOR CENTURY CORPORATION	*26000 SPRINGBROOK AVE.*	*1 - 2*	*SW*	*AF198*	*148*
REXHALL INDUSTRIES INCORPORATE	*25655 SPRINGBROOK AVE.*	*1 - 2*	*SSW*	*BB352*	*267*

CERCLIS-NFRAP: As of February 1995. CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund Action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

A review of the CERC-NFRAP list, as provided by EDR, and dated 02/26/2004 has revealed that there are 3 CERC-NFRAP sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
GLASS SEAL CORPORATION	*21516 WEST GOLDEN TRIAN*	*1/2 - 1*	*ESE*	*Q105*	*76*
AMERICAN CYANAMID	*21444 GOLDEN TRIANGLE R*	*1/2 - 1*	*ESE*	*T117*	*84*

Lower Elevation	Address	Dist / Dir		Map ID	Page
HASA INCORPORATED	*23119 DRAYTON ST.*	*1 - 2*	*SW*	*AF191*	*135*

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/15/2004 has revealed that there are 2 CORRACTS sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
AMERICAN CYANAMID	*21444 GOLDEN TRIANGLE R*	*1/2 - 1*	*ESE*	*T117*	*84*

Lower Elevation	Address	Dist / Dir		Map ID	Page
BERMITE DIVISION	*22116 WEST SOLEDAD CANY*	*1/2 - 1*	*S*	*C9*	*13*

EXECUTIVE SUMMARY

RCRIS: Resource Conservation and Recovery Information System. RCRIS 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. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRIS-TSD list, as provided by EDR, and dated 04/13/2004 has revealed that there are 2 RCRIS-TSD sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
AMERICAN CYANAMID	*21444 GOLDEN TRIANGLE R*	*1/2 - 1 ESE*	*T117*	*84*

Lower Elevation	Address	Dist / Dir	Map ID	Page
BERMITE DIVISION	*22116 WEST SOLEDAD CANY*	*1/2 - 1 S*	*C9*	*13*

RCRIS: Resource Conservation and Recovery Information System. RCRIS 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. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRIS-LQG list, as provided by EDR, and dated 04/13/2004 has revealed that there is 1 RCRIS-LQG site within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
AMERICAN CYANAMID	*21444 GOLDEN TRIANGLE R*	*1/2 - 1 ESE*	*T117*	*84*

RCRIS: Resource Conservation and Recovery Information System. RCRIS 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. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRIS-SQG list, as provided by EDR, and dated 04/13/2004 has revealed that there are

EXECUTIVE SUMMARY

77 RCRIS-SQG sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
CASTAIC LAKE WATER AGNCY	27234 BOUQUET CANYON RD	1/2 - 1	NNE	U126	90
NATIONAL METAL STAMPINGS INC	26796 OAK AVENUE	1 - 2	E	AW297	224
VON CO TOOL	26778 OAK AVE	1 - 2	E	AX304	226
PACIFIC EXPO	26776 OAK AVE	1 - 2	E	AX306	227
MARANATHA CHEVROLET	26770 OAK AVE	1 - 2	E	AX307	228
STUDIO CITY SPORTS CARS	26846 OAK AVE BLDG 5	1 - 2	E	AW322	238
D K TRUCKING	20811 SANTA CLARA ST	1 - 2	E	AV323	238
G W FRANZ GRINDING	26818 OAK AVE UNIT L	1 - 2	E	AW329	243
HONDA OUTPOST	26724 OAK AVE UNIT C	1 - 2	E	AY330	244
WM S HART UNIFIED SCHOOL DIST	21429 REDVIEW DR	1 - 2	ESE	AZ333	246
WM S HART USD SAUGUS HS	21900 W CENTURION WY	1 - 2	NNE	340	250
WM S HART USD ARROYO SECO JUNI	27171 N VISTA DELGADO D	1 - 2	NNW	360	270
POINTS WEST	20727 SANTA CLARA ST	1 - 2	E	BE382	289
INLAND PACIFIC MTR	26502 GOLDEN VALLEY RD	1 - 2	ESE	BK412	311
ADROS CUSTOM WOOD FINISHING	26524 GOLDEN VALLEY	1 - 2	ESE	BK413	311
BENS TEK	26536 GOLDEN VALLEY RD	1 - 2	ESE	BK414	311
NATIONAL READY MIX	27050 RUETHER AVE	1 - 2	E	BE417	315
SOUTHWEST INDUSTRIES	26911 RUETHER AVE STE S	1 - 2	E	BG423	322
RUSSELL DUNN AUTOMOTIVE	26821 RUETHER UNIT G	1 - 2	E	BI424	323
DISCOUNT TIRE CENTERS	20737 SOLEDAD CANYON RD	1 - 2	E	BO437	331
JIM DANDY	27600 BOUGUET CYN RD	1 - 2	NNE	BQ453	341
R C ACRYLICS	20665 SANTA CLARA	1 - 2	E	BR457	343
HANK PAGE TRUCKING	27511 N CATALA AVE	1 - 2	N	459	344
IMPORT AUTO CARE	20723 SOLEDAD CANYON RD	1 - 2	E	BO461	345
ONE HR MARTINIZING	27645 BOUQUET CYN RD	1 - 2	NNE	BV493	364
BOUQUET CLEANERS	27645 BOUQUET CANYON RD	1 - 2	NNE	BV495	365
HI-SHEAR TECHNOLOGY CORP	26413 N GOLDEN VALLEY R	1 - 2	SE	BT502	370
BLUE CROSS LABORATORIES INC	26411 N GOLDEN VALLEY R	1 - 2	SE	BT504	372
EDS CLEANERS	20655 SOLEDAD CANYON RD	1 - 2	E	BZ523	388
BROWN AUTO BODY	26935 FURNIVALL	1 - 2	E	BY527	390
B B SUPPLY	26921 1/2 FURNIVAL	1 - 2	E	BZ534	396
EUROPEAN AUTO CENTER	27134 FURNIVALL AVE	1 - 2	E	CB540	399
BEST CLEANERS	27737 BOUQUET CYN RD	1 - 2	NE	CG581	423
MIKES TIREMAN	20529 SOLEDAD CANYON RD	1 - 2	E	CF584	427
JERRY AUTOMATIC TRANSMISSIONS	20501 SOLEDAD CYN ROAD	1 - 2	E	CF597	437

Lower Elevation	Address	Dist / Dir		Map ID	Page
BERMITE DIVISION	22116 WEST SOLEDAD CANY	1/2 - 1	S	C9	13
CLARKS DRUGS 21	26550 BOUQET CANYON RD	1/2 - 1	WNW	H35	29
CHEVRON STN 9 2437	26753 BOUQUET CANYON RD	1/2 - 1	NW	I41	33
FLAMINGO CLEANERS	26512 BOQUET CYN RD	1/2 - 1	WNW	J49	37
SHELL SERVICE STATION	26801 BOQUET CANYON RD	1/2 - 1	NW	K53	38
RITE AID NO 5555	26825 BOUQUET CYN RD	1/2 - 1	NNW	K58	45
TEAM ENTERPRISES INC	26830 SECO CYN RD	1/2 - 1	NNW	M70	50
SECO ONE HOUR MARTINIZING	26830 SECO CYN RD	1/2 - 1	NNW	M72	53
CHEVRON STATION 97436	23055 SOLEDAD CYN RD	1/2 - 1	W	O84	60
GLORY CLEANERS	23142 VALENCIA	1/2 - 1	W	W136	94
VALENCIA DODGE	26011 BOQUET CANYON RD	1 - 2	WSW	AA172	121
HASA INCORPORATED	23119 DRAYTON ST.	1 - 2	SW	AF191	135
KEYSOR CENTURY CORPORATION	26000 SPRINGBROOK AVE.	1 - 2	SW	AF198	148
HI TECH TRANSMISSION	25845 SAN FERNANDO RD	1 - 2	SW	AG211	166
VALENCIA AUTOMOTIVE CENTER MD	25835 SAN FERNANDO RD	1 - 2	SW	AG217	170
THE ENGLISH CLEANERS	23360 W VALENCIA BLVD	1 - 2	W	AJ231	177
MIDAS MUFFLER	25745 SAN FERNANDO RD	1 - 2	SW	AL241	186

EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir		Map ID	Page
A & K BODY & FENDER	*25834 SPRINGBROOK AVE*	*1 - 2*	*SSW*	*AN256*	*192*
FRONTIER AUTO SALES	*23621 CREEKSIDE RD*	*1 - 2*	*WSW*	*AQ267*	*198*
SATURN OF SANTA CLARITA	*23645 CREEKSIDE RD*	*1 - 2*	*WSW*	*AQ279*	*210*
BIG O TIRES	*23510 VALENCIA BLVD*	*1 - 2*	*WSW*	*AT281*	*212*
WESTERN WASTE INDUSTRIAL	*25772 SPRINGBROOK RD*	*1 - 2*	*SSW*	*AS287*	*215*
REXHALL INDUSTRIES INC	*25655 SPRINGBROOK AVE S*	*1 - 2*	*SSW*	*BB343*	*254*
REXHALL INDUSTRIES INCORPORATE	*25655 SPRINGBROOK AVE.*	*1 - 2*	*SSW*	*BB352*	*267*
SCOTT IRVIN CHEVROLET	*23649 VALENCIA BLVD*	*1 - 2*	*WSW*	*BC366*	*275*
VALENCIA DODGE ISUZU	*23820 CREEKSIDE RD*	*1 - 2*	*WSW*	*BH400*	*301*
THE TRANSMISSION MAN	*24309 CREEKSIDE RD UNIT*	*1 - 2*	*WSW*	*BH428*	*326*
ANDYS AUTOMOTIVE	*24309 CREEKSIDE RD 112*	*1 - 2*	*WSW*	*BH429*	*327*
VIP AUTO CARE	*25835 SAN FERNANDO RD U*	*1 - 2*	*SSW*	*BM430*	*327*
EXCLUSIVELY BRITISH	*25835 SAN FERNANDO ROAD*	*1 - 2*	*SSW*	*BM431*	*328*
VALENCIA MOTORS GROUP	*23901 CREEKSIDE RD*	*1 - 2*	*W*	*BS471*	*351*
MAGIC FORD	*23920 CREEKSIDE RD*	*1 - 2*	*W*	*BS483*	*357*
VALENCIA JEEP EAGLE	*23923 CREEKSIDE RD*	*1 - 2*	*W*	*BS489*	*361*
VALENCIA BMW	*24030 CREEKSIDE RD*	*1 - 2*	*W*	*CC554*	*407*
LEXUS OF VALENCIA	*24033 CREEKSIDE ROAD*	*1 - 2*	*W*	*CC558*	*409*
PARKWAY OLDSMOBILE CADILLAC IN	*24055 CREEKSIDE RD*	*1 - 2*	*W*	*CH587*	*430*
CROSSROADS HYUNDAI	*24095 CREEKSIDE RD*	*1 - 2*	*W*	*CH592*	*434*
VALENCIA NISSAN	*24111 CREEKSIDE RD*	*1 - 2*	*W*	*CH601*	*440*
MAGIC LINCOLN MERCURY	*24135 CREEKSIDE RD*	*1 - 2*	*W*	*CK608*	*444*
VALENCIA BODY SHOP INC	*26643 AUTO CENTER DR*	*1 - 2*	*W*	*CK612*	*448*
VALENCIA CAR WASH	*24233 CREEKSIDE RD*	*1 - 2*	*W*	*CQ648*	*472*
BIG JOHNS PERFORMANCE	*24233 CREEKSIDE RD*	*1 - 2*	*W*	*CQ649*	*473*

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2003 has revealed that there are 24 ERNS sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
21361 SOLEDAD CANYON RD.	21361 SOLEDAD CANYON RD	1/2 - 1	ESE	S98	72
KEYSER CENTURY CO.	KEYSER CENTURY CO.	1/2 - 1	SW	100	73
21444 GOLDEN TRIANGLE	21444 GOLDEN TRIANGLE	1/2 - 1	ESE	T115	83
21444 GOLDEN TRIANGLE RD	21444 GOLDEN TRIANGLE R	1/2 - 1	ESE	T118	87
21444 GOLDEN TRIANGLE RD	21444 GOLDEN TRIANGLE R	1/2 - 1	ESE	T119	87
21444 GOLDEN TRIANGLE RD	21444 GOLDEN TRIANGLE R	1/2 - 1	ESE	T120	87
21444 GOLDEN TRIANGLE RD	21444 GOLDEN TRIANGLE R	1/2 - 1	ESE	T121	88
21444 GOLDEN TRIANGLE	21444 GOLDEN TRIANGLE	1/2 - 1	ESE	T123	88
22520 BARBACOA DR.	22520 BARBACOA DR.	1 - 2	N	225	175
26417 GOLDEN VALLEY RD	26417 GOLDEN VALLEY RD	1 - 2	SE	BT482	356

Lower Elevation	Address	Dist / Dir		Map ID	Page
22211 W. NEWHALL RANCH RD	22211 W. NEWHALL RANCH	1/2 - 1	WNW	E18	22
23119 DRAYTON ST.	23119 DRAYTON ST.	1 - 2	SW	AF190	135
26000 SPRINGBROOK AVE	26000 SPRINGBROOK AVE	1 - 2	SW	AF193	140
26000 SPRINGBROOK AVE	26000 SPRINGBROOK AVE	1 - 2	SW	AF200	152
26000 SPRINGBROOK AVE	26000 SPRINGBROOK AVE	1 - 2	SW	AF201	152
26000 SPRINGBROOK AVE	26000 SPRINGBROOK AVE	1 - 2	SW	AF202	152
26000 SPRINGBROOK AVE	26000 SPRINGBROOK AVE	1 - 2	SW	AF203	152
26000 SPRINGBROOK AVE	26000 SPRINGBROOK AVE	1 - 2	SW	AF205	154

EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir		Map ID	Page
26000 SPRINGBROOK AVE	26000 SPRINGBROOK AVE	1 - 2	SW	AF206	154
26000 SPRINGBROOK AVE	26000 SPRINGBROOK AVE	1 - 2	SW	AF207	154
26000 SPRINGBROOK AVE	26000 SPRINGBROOK AVE	1 - 2	SW	AF209	159
CORNER SAN FERNANDO RD. AND DR	CORNER SAN FERNANDO RD.	1 - 2	SW	228	176
25655 SPRINGBROOK	25655 SPRINGBROOK	1 - 2	SSW	BB349	264
23711 ALTA MADERA DR.	23711 ALTA MADERA DR.	1 - 2	SSW	600	440

STATE ASTM STANDARD

AWP: California DTSC's Annual Workplan, formerly known as BEP, identifies known hazardous substance sites targeted for cleanup. The source is the California Environmental Protection Agency.

A review of the AWP list, as provided by EDR, and dated 03/02/2004 has revealed that there is 1 AWP site within approximately 2 miles of the target property.

Lower Elevation	Address	Dist / Dir		Map ID	Page
WHITTAKER/BERMITE FACILITY	***22116 SOLEDAD CANYON RD***	***1/2 - 1***	***S***	***C10***	***18***

CAL-SITES: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control.

A review of the Cal-Sites list, as provided by EDR, has revealed that there is 1 Cal-Sites site within approximately 2 miles of the target property.

Lower Elevation	Address	Dist / Dir		Map ID	Page
WHITTAKER/BERMITE FACILITY	***22116 SOLEDAD CANYON RD***	***1/2 - 1***	***S***	***C10***	***18***

CHMIRS: The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated 12/31/2002 has revealed that there are 25 CHMIRS sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
Not reported	21361 SOLEDAD CNY RD	1/2 - 1	ESE	S99	72
Not reported	26477 GOLDEN TRIANGLE R	1/2 - 1	ESE	Q125	89
Not reported	20988 GOLDEN TRIANGLE	1 - 2	E	AU291	220
Not reported	***20833 SANTA CLARA ST***	***1 - 2***	***E***	***AV293***	***221***
Not reported	SOLEDAD CANYON/REUTHER	1 - 2	E	362	273
Not reported	26411 GOLDEN VALLEY RD	1 - 2	SE	BT505	373

Lower Elevation	Address	Dist / Dir		Map ID	Page
Not reported	26057 BOUQUET CANYON RD	1 - 2	WSW	Z157	108
Not reported	23119 DRAYTON	1 - 2	SW	AF187	129
Not reported	26000 SPRING BROOK AVE.	1 - 2	SW	AF192	139
Not reported	***26000 SPRINGBROOK***	***1 - 2***	***SW***	***AF194***	***140***

EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir		Map ID	Page
Not reported	26000 SPRINGBOOK AVE	1 - 2	SW	AF195	142
Not reported	26000 SPRING BROOK AV	1 - 2	SW	AF196	143
Not reported	26000 SPRINGBROOK AVE.	1 - 2	SW	AF197	144
Not reported	26000 SPRINGBROOK RD.	1 - 2	SW	AF199	151
Not reported	26000 SPRINGBROOK RD.	1 - 2	SW	AF204	153
Not reported	***26000 SPRINGBROOK ROAD***	***1 - 2***	***SW***	***AF208***	***154***
Not reported	***26000 SPRINGBROOK AVE***	***1 - 2***	***SW***	***AF210***	***159***
Not reported	25848 SPRINGBROOK RD	1 - 2	SW	AN247	188
Not reported	26901 VAN GOGH LN	1 - 2	WSW	264	195
Not reported	23743 VALENCIA-VALENCIA	1 - 2	WSW	436	330
Not reported	***23901 CREEKSIDE RD***	***1 - 2***	***W***	***BS468***	***348***
MAGIC FORD	***23920 CREEKSIDE RD***	***1 - 2***	***W***	***BS483***	***357***
Not reported	23923 CREEKSIDE RD	1 - 2	W	BS490	362
Not reported	27706 MCBEAN PARKWAY	1 - 2	WNW	CP642	469
Not reported	MCBEAN RD / NEWHALL R	1 - 2	WNW	CP643	470

CORTESE: This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, has revealed that there are 26 Cortese sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
GLASS SEAL CORPORATION	***21516 GOLDEN TRIANGLE R***	***1/2 - 1***	***ESE***	***Q101***	***73***
AMERICAN CYANAMID	***21444 GOLDEN TRIANGLE R***	***1/2 - 1***	***ESE***	***T117***	***84***
WORTMANN OIL CO	***26954 SECO CANYON RD***	***1 - 2***	***NNW***	***AB160***	***110***
NATIONAL READY MIXED CONC	***27050 RUETHER AVE***	***1 - 2***	***E***	***BE418***	***316***
PACIFIC BELL	***26971 N FURNIVALL AVE***	***1 - 2***	***E***	***BY517***	***381***
EXXON #7-3547	***27777 BOUQUET CANYON RD***	***1 - 2***	***NE***	***CM625***	***457***

Lower Elevation	Address	Dist / Dir		Map ID	Page
WHITTAKER BERMITE/RAIL ST	22116 SOLEDAD CNYN	1/2 - 1	S	C12	20
BERMITE, DIVISION OF WHIT	22116 SOLEDAD CNYN	1/2 - 1	S	C13	20
WHITTAKER/BERMITE FACILIT	22116 SOLEDAD CNYN	1/2 - 1	S	C14	20
SHELL	***26801 BOUQUET CANYON RD***	***1/2 - 1***	***NW***	***K56***	***42***
LA CO FIRE STATION #111	26829 SECO CANYON RD	1/2 - 1	NNW	M74	54
CHEVRON STATION 97436	***23055 SOLEDAD CYN RD***	***1/2 - 1***	***W***	***O84***	***60***
EXXON #7-3550 (FORMER)	23060 SOLEDAD CNYN	1/2 - 1	W	O94	70
ARCO #1974	***23105 VALENCIA***	***1/2 - 1***	***W***	***R110***	***80***
UNOCAL #5518	***26279 BOUQUET CANYON RD***	***1/2 - 1***	***WSW***	***X144***	***98***
P & M #987/TEXACO (FORMER	26015 BOUQUET CNYN	1 - 2	WSW	AA170	120
HASA INCORPORATED	***23119 DRAYTON ST.***	***1 - 2***	***SW***	***AF191***	***135***
Not reported	***26000 SPRINGBROOK***	***1 - 2***	***SW***	***AF194***	***140***
FRONTIER AUTO SALES	***23621 CREEKSIDE RD***	***1 - 2***	***WSW***	***AQ267***	***198***
LA CO SHERIFF STATION	23740 MAGIC MOUNTAIN	1 - 2	WSW	AR273	205
THATCHER GLASS	***25655 SPRINGBROOK AVE***	***1 - 2***	***SSW***	***BB342***	***252***
THATCHER GLASS MANUFACTUR	***25655 SPRINGBROOK***	***1 - 2***	***SSW***	***BB346***	***258***
SCOTT IRVIN CHEVROLET	***23649 VALENCIA BLVD***	***1 - 2***	***WSW***	***BC366***	***275***
VALENCIA DODGE ISUZU	***23820 CREEKSIDE RD***	***1 - 2***	***WSW***	***BH400***	***301***
FARGUSON BMW	***24030 CREEKSIDE ROAD***	***1 - 2***	***W***	***CC553***	***405***

EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir	Map ID	Page
NEWHALL LAND AND FARMING	*23823 VALENCIA*	*1 - 2 WSW*	*CD562*	*413*

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

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
MIKE'S TIREMAN INC	*20529 SOLEDAD CANYON RD*	*1 - 2 E*	*CF586*	*428*

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, and dated 04/13/2004 has revealed that there are 24 LUST sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
GLASS SEAL CORPORATION	*21516 GOLDEN TRIANGLE R*	*1/2 - 1 ESE*	*Q101*	*73*
WORTMANN OIL CO	*26954 SECO CANYON RD*	*1 - 2 NNW*	*AB160*	*110*
NATIONAL READY MIXED CONCRETE	*27050 RUETHER AVE*	*1 - 2 E*	*BE420*	*318*
PACIFIC BELL	*26971 N FURNIVALL AVE*	*1 - 2 E*	*BY517*	*381*
EXXON #7-3547	*27777 BOUQUET CANYON RD*	*1 - 2 NE*	*CM625*	*457*

Lower Elevation	Address	Dist / Dir	Map ID	Page
BERMITE DIVISION	*22116 WEST SOLEDAD CANY*	*1/2 - 1 S*	*C9*	*13*
SHELL SERVICE STATION	*26801 BOQUET CANYON RD*	*1/2 - 1 NW*	*K53*	*38*
SHELL SERVICE STATION	26801 BOUQUET CANYON	1/2 - 1 NW	K55	41
SHELL	*26801 BOUQUET CANYON RD*	*1/2 - 1 NW*	*K56*	*42*
LA CO FIRE STATION #111	26829 SECO CANYON RD	1/2 - 1 NNW	M75	54
CHEVRON STATION 97436	*23055 SOLEDAD CYN RD*	*1/2 - 1 W*	*O84*	*60*
EXXON #7-3550 (FORMER)	23060 SOLEDAD CANYON RD	1/2 - 1 W	O93	67
ARCO #1974	23105 VALENCIA BLVD	1/2 - 1 W	R109	77
UNOCAL #5518	*26279 BOUQUET CANYON RD*	*1/2 - 1 WSW*	*X144*	*98*
P & M #987/TEXACO (FORMER)	26015 BOUQUET CANYON RD	1 - 2 WSW	AA169	118
HASA INCORPORATED	*23119 DRAYTON ST.*	*1 - 2 SW*	*AF191*	*135*
NEWHALL LAND & FARMING CO	*23511 W VALENCIA BLVD*	*1 - 2 W*	*AJ240*	*183*
FRONTIER AUTO SALES	*23621 CREEKSIDE RD*	*1 - 2 WSW*	*AQ267*	*198*
LA CO SHERIFF STATION	23740 MAGIC MOUNTAIN PK	1 - 2 WSW	AR275	205
THATCHER GLASS	*25655 SPRINGBROOK AVE*	*1 - 2 SSW*	*BB342*	*252*
SCOTT IRVIN CHEVROLET	*23649 VALENCIA BLVD*	*1 - 2 WSW*	*BC366*	*275*
VALENCIA DODGE ISUZU	*23820 CREEKSIDE RD*	*1 - 2 WSW*	*BH400*	*301*
FARGUSON BMW	*24030 CREEKSIDE ROAD*	*1 - 2 W*	*CC553*	*405*
NEWHALL LAND AND FARMING	*23823 VALENCIA*	*1 - 2 WSW*	*CD562*	*413*

EXECUTIVE SUMMARY

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 04/13/2004 has revealed that there are 19 UST sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
RIO VISTA WTP PUMPING STA	27234 BOUQUET CANYON RD	1/2 - 1	NNE	U131	92
RIO VISTA WATER TREATMENT PLT	27236 BOUQUET CANYON RD	1/2 - 1	NNE	U132	93
WORTMANN OIL CO	26954 SECO CANYON RD	1 - 2	NNW	AB162	113
WM HART UHSD - TRANSPORT DEPT	21429 REDVIEW DR	1 - 2	ESE	AZ332	246
SANTA CLARITA WATER CO	21110 GOLDEN TRIANGLE R	1 - 2	E	BA339	250
SAUGUS UNION SD TRANSPORTATION	26501 GOLDEN VALLEY RD	1 - 2	ESE	BD376	285
BOUQUET MOBIL	***27777 BOUQUET CANYON RD***	***1 - 2***	***NE***	***CM623***	***457***

Lower Elevation	Address	Dist / Dir		Map ID	Page
CHEVRON USA SS 092437	26753 BOUQUET CANYON RD	1/2 - 1	NW	I39	32
BOUQUET CANYON SHELL	26801 BOUQUET CANYON RD	1/2 - 1	NW	K51	37
DAKOTA VENTURES,LLC	26485 BOUQUET CANYON RD	1/2 - 1	W	J62	47
CROSS ROADS AUTO WASH	***23105 VALENCIA BLVD***	***1/2 - 1***	***W***	***R111***	***80***
LA CO SAN DIS-SAUGUS WRP	26200 SPRINGBROOK AVE	1 - 2	SW	AD182	126
VALENCIA CHEVRON AUTOSPA	23440 VALENCIA BLVD	1 - 2	W	AM248	189
BLUE BARREL DISPOSAL CO	25772 SPRINGBROOK AVE	1 - 2	SSW	AS286	215
VALENCIA AMC JEEP	23923 CREEKSIDE RD	1 - 2	W	BS488	360
LEXUS OF VALENCIA	24033 CREEKSIDE RD	1 - 2	W	CC559	410
INFINITI VALENCIA	24095 CREEKSIDE RD	1 - 2	W	CH593	435
SANTA CLARITA CITY HALL	23920 VALENCIA BLVD	1 - 2	WSW	CJ634	464
VALENCIA CAR WASH	***24233 CREEKSIDE RD***	***1 - 2***	***W***	***CQ648***	***472***

VCP: 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.

A review of the VCP list, as provided by EDR, and dated 03/02/2004 has revealed that there are 2 VCP sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
MERLE NORMAN COSMETICS, INC.	26407 GOLDEN VALLEY RD	1 - 2	SE	BT511	376

Lower Elevation	Address	Dist / Dir		Map ID	Page
THATCHER GLASS MANUFACTURING C	25655 SPRINGBROOK AVENU	1 - 2	SSW	BB348	259

CA FID: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, has revealed that there are 9 CA FID UST sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
POINTS WEST	***20727 SANTA CLARA ST***	***1 - 2***	***E***	***BE382***	***289***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
NATIONAL READY MIXED CONCRETE	***27050 RUETHER AVE***	***1 - 2***	***E***	***BE420***	***318***
MERLE NORMAN COSMETICS	26407 N GOLDEN VALLEY R	1 - 2	SE	BT512	378

Lower Elevation	Address	Dist / Dir		Map ID	Page
CAR WASH USA INC	26225 BOUQUET CANYON RD	1 - 2	WSW	Y153	105
P&M SERVICE STATIONS #987	***26015 BOUQUET CANYON RD***	***1 - 2***	***WSW***	***AA167***	***116***
DANA MOTORS	26011 BOUQUET CANYON RD	1 - 2	WSW	AA173	121
KEYSOR CENTURY CORPORATION	***26000 SPRINGBROOK AVE.***	***1 - 2***	***SW***	***AF198***	***148***
LOS ANGELES SHERRIFF'S STATION	23740 MAGIC MOUNTAIN PK	1 - 2	WSW	AR274	205
SCOTT IRVIN CHEVROLET	***23649 VALENCIA BLVD***	***1 - 2***	***WSW***	***BC366***	***275***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 34 HIST UST sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
AMERICAN CYANAMID, ENGINEERED	***21444 GOLDEN TRIANGLE R***	***1/2 - 1***	***ESE***	***T114***	***82***
SANTA CLARA YARD	21014 SOLEDAD CANYON RD	1 - 2	E	AP259	194
POINTS WEST TRUCKING, INC.	20727 SANTA CLARA ST	1 - 2	E	BE383	290
NATIONAL READY MIXED CONCRETE	27050 RUETHER AVE	1 - 2	E	BE419	318
NATIONAL READY MIX CONCRETE CO	27050 RUETHER AVE	1 - 2	E	BE421	321
WAREHOUSE	21030 GOLDEN TRIANGLE R	1 - 2	E	BL426	324
SAUGUS FACILITY	26407 GOLDEN VALLEY RD	1 - 2	SE	BT513	378
PACIFIC BELL (KC-652)	26971 FURNIVALL AVE	1 - 2	E	BY515	380
NEW HALL AMBULANCE	20607 SOLEDAD CANYON RD	1 - 2	E	BZ547	402
FOLVEN BUILDING MATERIALS	26957 HONBY AVE	1 - 2	E	576	421
JERRY AUTOMATIC TRANSMISSIONS	***20501 SOLEDAD CYN ROAD***	***1 - 2***	***E***	***CF597***	***437***
EXXON SERVICE STATION	27777 BOUQUET CANYON RD	1 - 2	NE	CM629	462

Lower Elevation	Address	Dist / Dir		Map ID	Page
SAUGUS SWAP MEET/SAUGUS SPEEDW	22500 SOLEDAD CANYON RD	1/4 - 1/2	SW	A1	6
BERMITE DIV-WHITTAKER	***22116 SOLEDAD CANYON RD***	***1/2 - 1***	***S***	***C8***	***11***
DISTRICT OFFICE	26590 BOUQUET CANYON RD	1/2 - 1	WNW	G29	26
92437	***26753 BOUQUET CANYON RD***	***1/2 - 1***	***NW***	***I40***	***32***
LEON A. THOMPSON	26801 BOUQUET CANYON RD	1/2 - 1	NW	K54	40
97436	23055 SOLEDAD CANYON RD	1/2 - 1	W	O81	57
EXXON SERVICE STATION	23060 SOLEDAD CANYON RD	1/2 - 1	W	O92	66
MICHAEL SCANLON	23105 VALENCIA BLVD	1/2 - 1	W	R112	80
WOLF'S BOUQUET UNION & TOW. IN	26279 BOUQUET CANYON RD	1/2 - 1	WSW	X145	100
UNION OIL SERVICE STATION 5518	26279 BOUQUET CANYON RD	1/2 - 1	WSW	X146	101
SERVICE STATION 5518	26279 BOUQUET CANYON RD	1/2 - 1	WSW	X148	102
KMART ENTERPRISES	23222 VALENCIA BLVD	1 - 2	W	AC163	113
MOHAWK SERVICE STATION #04061	***26015 BOUQUET CANYON RD***	***1 - 2***	***WSW***	***AA168***	***117***
KIRCHNER & SON, INC.	26011 BOUQUET CANYON RD	1 - 2	WSW	AA171	120
HASA CHEMICALS, INC.	23119 DRAYTON ST	1 - 2	SW	AF189	134
Not reported	***26000 SPRINGBROOK AVE***	***1 - 2***	***SW***	***AF210***	***159***
MIKE YUROSEK & SON, INC.	23511 VALENCIA BLVD	1 - 2	W	AJ239	183
BLUE BARREL DISPOSAL CO	***25772 SPRINGBROOK AVE***	***1 - 2***	***SSW***	***AS285***	***214***
THATCHER GLASS CORPORATION	25655 SPRINGBROOK AVE	1 - 2	SSW	BB347	258
VINCE WIESE CHEVROLET, INC.	23649 VALENCIA BLVD	1 - 2	WSW	BC364	275
SCOTT IRVIN CHEVROLET	***23649 VALENCIA BLVD***	***1 - 2***	***WSW***	***BC366***	***275***

EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir		Map ID	Page
SANTA CLARITA SHERIFF	23747 VALENCIA BLVD	1 - 2	WSW	BW497	369

FEDERAL ASTM SUPPLEMENTAL

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 04/08/2004 has revealed that there are 79 FINDS sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
AMERICAN CYANAMID	*21444 GOLDEN TRIANGLE R*	*1/2 - 1*	*ESE*	*T117*	*84*
CASTAIC LAKE WATER AGNCY	*27234 BOUQUET CANYON RD*	*1/2 - 1*	*NNE*	*U126*	*90*
NATIONAL METAL STAMPINGS INC	*26796 OAK AVENUE*	*1 - 2*	*E*	*AW297*	*224*
VON CO TOOL	*26778 OAK AVE*	*1 - 2*	*E*	*AX304*	*226*
PACIFIC EXPO	*26776 OAK AVE*	*1 - 2*	*E*	*AX306*	*227*
MARANATHA CHEVROLET	*26770 OAK AVE*	*1 - 2*	*E*	*AX307*	*228*
STUDIO CITY SPORTS CARS	*26846 OAK AVE BLDG 5*	*1 - 2*	*E*	*AW322*	*238*
D K TRUCKING	*20811 SANTA CLARA ST*	*1 - 2*	*E*	*AV323*	*238*
G W FRANZ GRINDING	*26818 OAK AVE UNIT L*	*1 - 2*	*E*	*AW329*	*243*
HONDA OUTPOST	*26724 OAK AVE UNIT C*	*1 - 2*	*E*	*AY330*	*244*
WM S HART UNIFIED SCHOOL DIST	*21429 REDVIEW DR*	*1 - 2*	*ESE*	*AZ333*	*246*
WM S HART USD SAUGUS HS	*21900 W CENTURION WY*	*1 - 2*	*NNE*	*340*	*250*
WM S HART USD ARROYO SECO JUNI	*27171 N VISTA DELGADO D*	*1 - 2*	*NNW*	*360*	*270*
POINTS WEST	*20727 SANTA CLARA ST*	*1 - 2*	*E*	*BE382*	*289*
INLAND PACIFIC MTR	*26502 GOLDEN VALLEY RD*	*1 - 2*	*ESE*	*BK412*	*311*
ADROS CUSTOM WOOD FINISHING	*26524 GOLDEN VALLEY*	*1 - 2*	*ESE*	*BK413*	*311*
BENS TEK	*26536 GOLDEN VALLEY RD*	*1 - 2*	*ESE*	*BK414*	*311*
NATIONAL READY MIX	*27050 RUETHER AVE*	*1 - 2*	*E*	*BE417*	*315*
SOUTHWEST INDUSTRIES	*26911 RUETHER AVE STE S*	*1 - 2*	*E*	*BG423*	*322*
RUSSELL DUNN AUTOMOTIVE	*26821 RUETHER UNIT G*	*1 - 2*	*E*	*BI424*	*323*
DISCOUNT TIRE CENTERS	*20737 SOLEDAD CANYON RD*	*1 - 2*	*E*	*BO437*	*331*
JIM DANDY	*27600 BOUGUET CYN RD*	*1 - 2*	*NNE*	*BQ453*	*341*
NATIONAL TECHNICAL SYSTEMS	*20979 GOLDEN TRIANGLE R*	*1 - 2*	*E*	*BL454*	*341*
R C ACRYLICS	*20665 SANTA CLARA*	*1 - 2*	*E*	*BR457*	*343*
HANK PAGE TRUCKING	*27511 N CATALA AVE*	*1 - 2*	*N*	*459*	*344*
IMPORT AUTO CARE	*20723 SOLEDAD CANYON RD*	*1 - 2*	*E*	*BO461*	*345*
BOUQUET CLEANERS	*27645 BOUQUET CANYON RD*	*1 - 2*	*NNE*	*BV495*	*365*
HI-SHEAR TECHNOLOGY CORP	*26413 N GOLDEN VALLEY R*	*1 - 2*	*SE*	*BT502*	*370*
BLUE CROSS LABORATORIES INC	*26411 N GOLDEN VALLEY R*	*1 - 2*	*SE*	*BT504*	*372*
EDS CLEANERS	*20655 SOLEDAD CANYON RD*	*1 - 2*	*E*	*BZ523*	*388*
BROWN AUTO BODY	*26935 FURNIVALL*	*1 - 2*	*E*	*BY527*	*390*
B B SUPPLY	*26921 1/2 FURNIVAL*	*1 - 2*	*E*	*BZ534*	*396*
EUROPEAN AUTO CENTER	*27134 FURNIVALL AVE*	*1 - 2*	*E*	*CB540*	*399*
BEST CLEANERS	*27737 BOUQUET CYN RD*	*1 - 2*	*NE*	*CG581*	*423*

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
MIKES TIREMAN	*20529 SOLEDAD CANYON RD*	*1 - 2*	*E*	*CF584*	*427*
JERRY AUTOMATIC TRANSMISSIONS	*20501 SOLEDAD CYN ROAD*	*1 - 2*	*E*	*CF597*	*437*

Lower Elevation	Address	Dist / Dir		Map ID	Page
BERMITE DIVISION	*22116 WEST SOLEDAD CANY*	*1/2 - 1*	*S*	*C9*	*13*
SAUGUS UNION SD	22211 W NEWHALL RANCH R	1/2 - 1	WNW	E19	22
CLARKS DRUGS 21	*26550 BOUQET CANYON RD*	*1/2 - 1*	*WNW*	*H35*	*29*
CHEVRON STN 9 2437	*26753 BOUQUET CANYON RD*	*1/2 - 1*	*NW*	*I41*	*33*
FLAMINGO CLEANERS	*26512 BOQUET CYN RD*	*1/2 - 1*	*WNW*	*J49*	*37*
SHELL SERVICE STATION	*26801 BOQUET CANYON RD*	*1/2 - 1*	*NW*	*K53*	*38*
RITE AID NO 5555	*26825 BOUQUET CYN RD*	*1/2 - 1*	*NNW*	*K58*	*45*
TEAM ENTERPRISES INC	*26830 SECO CYN RD*	*1/2 - 1*	*NNW*	*M70*	*50*
CHEVRON STATION 97436	*23055 SOLEDAD CYN RD*	*1/2 - 1*	*W*	*O84*	*60*
GLORY CLEANERS	*23142 VALENCIA*	*1/2 - 1*	*W*	*W136*	*94*
VALENCIA DODGE	*26011 BOQUET CANYON RD*	*1 - 2*	*WSW*	*AA172*	*121*
SAUGUS WWRP NPDES	26200 SPRINGBROOK AVENU	1 - 2	SW	AD178	123
HASA INCORPORATED	*23119 DRAYTON ST.*	*1 - 2*	*SW*	*AF191*	*135*
KEYSOR CENTURY CORPORATION	*26000 SPRINGBROOK AVE.*	*1 - 2*	*SW*	*AF198*	*148*
HI TECH TRANSMISSION	*25845 SAN FERNANDO RD*	*1 - 2*	*SW*	*AG211*	*166*
VALENCIA AUTOMOTIVE CENTER MD	*25835 SAN FERNANDO RD*	*1 - 2*	*SW*	*AG217*	*170*
THE ENGLISH CLEANERS	*23360 W VALENCIA BLVD*	*1 - 2*	*W*	*AJ231*	*177*
MIDAS MUFFLER	*25745 SAN FERNANDO RD*	*1 - 2*	*SW*	*AL241*	*186*
A & K BODY & FENDER	*25834 SPRINGBROOK AVE*	*1 - 2*	*SSW*	*AN256*	*192*
FRONTIER AUTO SALES	*23621 CREEKSIDE RD*	*1 - 2*	*WSW*	*AQ267*	*198*
SATURN OF SANTA CLARITA	*23645 CREEKSIDE RD*	*1 - 2*	*WSW*	*AQ279*	*210*
BIG O TIRES	*23510 VALENCIA BLVD*	*1 - 2*	*WSW*	*AT281*	*212*
WESTERN WASTE INDUSTRIAL	*25772 SPRINGBROOK RD*	*1 - 2*	*SSW*	*AS287*	*215*
MIKE FENNEL AUTO BODY	*25655 SPRINGBROOK AV*	*1 - 2*	*SSW*	*BB341*	*251*
REXHALL INDUSTRIES INCORPORATE	*25655 SPRINGBROOK AVE.*	*1 - 2*	*SSW*	*BB352*	*267*
SCOTT IRVIN CHEVROLET	*23649 VALENCIA BLVD*	*1 - 2*	*WSW*	*BC366*	*275*
VALENCIA DODGE ISUZU	*23820 CREEKSIDE RD*	*1 - 2*	*WSW*	*BH400*	*301*
THE TRANSMISSION MAN	*24309 CREEKSIDE RD UNIT*	*1 - 2*	*WSW*	*BH428*	*326*
ANDYS AUTOMOTIVE	*24309 CREEKSIDE RD 112*	*1 - 2*	*WSW*	*BH429*	*327*
VIP AUTO CARE	*25835 SAN FERNANDO RD U*	*1 - 2*	*SSW*	*BM430*	*327*
EXCLUSIVELY BRITISH	*25835 SAN FERNANDO ROAD*	*1 - 2*	*SSW*	*BM431*	*328*
VALENCIA MOTORS GROUP	*23901 CREEKSIDE RD*	*1 - 2*	*W*	*BS471*	*351*
MAGIC FORD	*23920 CREEKSIDE RD*	*1 - 2*	*W*	*BS483*	*357*
VALENCIA JEEP EAGLE	*23923 CREEKSIDE RD*	*1 - 2*	*W*	*BS489*	*361*
VALENCIA BMW	*24030 CREEKSIDE RD*	*1 - 2*	*W*	*CC554*	*407*
LEXUS OF VALENCIA	*24033 CREEKSIDE ROAD*	*1 - 2*	*W*	*CC558*	*409*
PARKWAY OLDSMOBILE CADILLAC IN	*24055 CREEKSIDE RD*	*1 - 2*	*W*	*CH587*	*430*
CROSSROADS HYUNDAI	*24095 CREEKSIDE RD*	*1 - 2*	*W*	*CH592*	*434*
VALENCIA NISSAN	*24111 CREEKSIDE RD*	*1 - 2*	*W*	*CH601*	*440*
MAGIC LINCOLN MERCURY	*24135 CREEKSIDE RD*	*1 - 2*	*W*	*CK608*	*444*
VALENCIA BODY SHOP INC	*26643 AUTO CENTER DR*	*1 - 2*	*W*	*CK612*	*448*
VALENCIA CAR WASH	*24233 CREEKSIDE RD*	*1 - 2*	*W*	*CQ648*	*472*
BIG JOHNS PERFORMANCE	*24233 CREEKSIDE RD*	*1 - 2*	*W*	*CQ649*	*473*

RAATS: The RCRA Administration Action Tracking System contains records based on enforcement actions issued under RCRA and pertaining to major violators. It includes administrative and civil actions brought by the United States Environmental Protection Agency. The source of this database is the U.S.

EXECUTIVE SUMMARY

EPA.

A review of the RAATS list, as provided by EDR, and dated 04/17/1995 has revealed that there is 1 RAATS site within approximately 2 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
BERMITE DIVISION	*22116 WEST SOLEDAD CANY*	*1/2 - 1 S*	*C9*	*13*

TRIS: The Toxic Chemical Release Inventory System identifies facilities that release toxic chemicals to the air, water, and land in reportable quantities under SARA Title III, Section 313. The source of this database is the U.S. EPA.

A review of the TRIS list, as provided by EDR, and dated 12/31/2001 has revealed that there is 1 TRIS site within approximately 2 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
KEYSOR CENTURY CORPORATION	*26000 SPRINGBROOK AVE.*	*1 - 2 SW*	*AF198*	*148*

SSTS: 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.

A review of the SSTS list, as provided by EDR, and dated 12/31/2001 has revealed that there are 2 SSTS sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
VAL-PAK PRODUCTS	26751 OAK AVE.	1 - 2 E	AX318	234

Lower Elevation	Address	Dist / Dir	Map ID	Page
HASA, INC	23119 DRAYTON STREET	1 - 2 SW	AF188	131

STATE OR LOCAL ASTM SUPPLEMENTAL

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the AST list, as provided by EDR, and dated 12/01/2003 has revealed that there are 2 AST sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
IFFY LUBE #680	*20703 SOLEDAD CANYON RD*	*1 - 2 E*	*BO476*	*353*

Lower Elevation	Address	Dist / Dir	Map ID	Page
LA COUNTY FIRE DEPT STATION 11	26829 SECO CYN RD	1/2 - 1 NNW	M76	56

EXECUTIVE SUMMARY

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

A review of the CLEANERS list, as provided by EDR, and dated 04/21/2004 has revealed that there are 14 CLEANERS sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
JIM DANDY CLEANERS	27600 BOUGUET CYN RD	1 - 2	NNE	BQ441	333
JIM DANDY CLEANERS	27600 BOUGUET CYN RD	1 - 2	NNE	BQ442	334
JIM DANDY CLEANERS	27600 BOUQUET CANYON RD	1 - 2	NNE	BQ443	334
JIM DANDY CLEANERS	27600 BOUGUET CYN RD	1 - 2	NNE	BQ444	335
JIM DANDY CLEANERS	27600 BOUGUET CYN RD	1 - 2	NNE	BQ445	335
JIM DANDY CLEANERS	27600 BOUQUET CYN RD	1 - 2	NNE	BQ446	336
BOUQUET CLEANERS	***27645 BOUQUET CANYON RD***	***1 - 2***	***NNE***	***BV495***	***365***
MINNIE MAX CLEANERS	20655 SOLEDAD CANYON RD	1 - 2 -	E	BZ519	384
ED'S CLEANERS	20655 SOLEDAD CANYON RD	1 - 2	E	BZ520	385
BEST CLEANERS	***27737 BOUQUET CYN RD***	***1 - 2***	***NE***	***CG581***	***423***

Lower Elevation	Address	Dist / Dir		Map ID	Page
CARRIAGE TRADE CLEANERS	***26512 BOUQUET CANYON***	***1/2 - 1***	***WNW***	***J48***	***35***
ONE HOUR MARTINIZING	***26830 SECO CYN RD***	***1/2 - 1***	***NNW***	***M71***	***50***
GLORY CLEANERS	***23142 VALENCIA***	***1/2 - 1***	***W***	***W136***	***94***
THE ENGLISH CLEANERS	***23360 W VALENCIA BLVD***	***1 - 2***	***W***	***AJ231***	***177***

WDS: California Water Resources Control Board - Waste Discharge System.

A review of the CA WDS list, as provided by EDR, and dated 04/05/2004 has revealed that there are 10 CA WDS sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
Not reported	***20833 SANTA CLARA ST***	***1 - 2***	***E***	***AV293***	***221***
TRANS	21429 CENTRE POINTE PAR	1 - 2	ESE	AZ334	247
SAUGUS TRANS YARD	26501 RUETHER AVE	1 - 2	ESE	BD375	284
NATIONAL READY MIXED CONCRETE	***27050 RUETHER AVE***	***1 - 2***	***E***	***BE420***	***318***

Lower Elevation	Address	Dist / Dir		Map ID	Page
SCLLC PORTA BELLA DEV. PROJECT	22116 W SOLEDAD CANYON	1/2 - 1	S	C11	19
BOUQUET CANYON BRIDGE WIDENING	BOUQUET CANYON RD/VALEN	1/2 - 1	W	R108	77
SAUGUS WWRP	***26200 SPRINGBROOK AVE***	***1 - 2***	***SW***	***AD179***	***123***
HASA INCORPORATED	***23119 DRAYTON ST.***	***1 - 2***	***SW***	***AF191***	***135***
Not reported	***26000 SPRINGBROOK***	***1 - 2***	***SW***	***AF194***	***140***
BLUE BARREL DISPOSAL CO	***25772 SPRINGBROOK AVE***	***1 - 2***	***SSW***	***AS285***	***214***

SCH: 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.

A review of the SCH list, as provided by EDR, and dated 03/02/2004 has revealed that there is 1 SCH

site within approximately 2 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
BRIDGEPORT ELEMENTARY SCHOOL	GRANDVIEW DRIVE/NEWHALL	1 - 2 WNW	361	271

NFA: This category contains properties at which DTSC has made aclear determination that the property does not pose a problem to the environment or to public health.

A review of the NFA list, as provided by EDR, and dated 03/02/2004 has revealed that there are 2 NFA sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WILLIAM S. HART UNION SCHOOL D	21469 REDVIEW DRIVE	1 - 2 SE	265	196

Lower Elevation	Address	Dist / Dir	Map ID	Page
WHITTAKER BERMITE/RAIL STATION	22116 WEST SOLEDAD CANY	1/2 - 1 S	C7	9

Emissions Inventory Data: Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies

A review of the EMI list, as provided by EDR, and dated 12/31/2002 has revealed that there are 7 EMI sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
AMERICAN CYANAMID, ENGINEERED	*21444 GOLDEN TRIANGLE R*	*1/2 - 1 ESE*	*T114*	*82*

Lower Elevation	Address	Dist / Dir	Map ID	Page
MOHAWK SERVICE STATION #04061	*26015 BOUQUET CANYON RD*	*1 - 2 WSW*	*AA168*	*117*
SAUGUS WWRP	*26200 SPRINGBROOK AVE*	*1 - 2 SW*	*AD179*	*123*
Not reported	*26000 SPRINGBROOK AVE*	*1 - 2 SW*	*AF210*	*159*
MIKE FENNEL AUTO BODY	*25655 SPRINGBROOK AV*	*1 - 2 SSW*	*BB341*	*251*
MAGIC FORD	*23920 CREEKSIDE RD*	*1 - 2 W*	*BS483*	*357*
VALENCIA BODY SHOP INC	*26643 AUTO CENTER DR*	*1 - 2 W*	*CK612*	*448*

REF: This category contains properties where contamination has not been confirmed and which were determined as not requiring direct DTSC Site Mitigation Program action or oversight. Accordingly, these sites have been referred to another tate or local regulatory agency.

A review of the REF list, as provided by EDR, and dated 03/02/2004 has revealed that there is 1 REF site within approximately 2 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
Not reported	*26000 SPRINGBROOK ROAD*	*1 - 2 SW*	*AF208*	*154*

EXECUTIVE SUMMARY

NFE: This category contains properties that are suspected of being contaminated. These are unconfirmed contaminated properties that need to beassessed using the PEA process. PEA in Progress indicates properties where DTSC has determined a PEA is required, but not currently underway.

A review of the NFE list, as provided by EDR, and dated 03/02/2004 has revealed that there is 1 NFE site within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
NATIONAL TECHNICAL SYSTEMS	20988 GOLDEN TRIANGLE R	1 - 2	E	BL439	331

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

A review of the CA SLIC list, as provided by EDR, has revealed that there are 3 CA SLIC sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
GLASS SEAL CORPORATION	***21516 WEST GOLDEN TRIAN***	***1/2 - 1***	***ESE***	***Q105***	***76***

Lower Elevation	Address	Dist / Dir		Map ID	Page
M W INVESTMENT	26830 SECO CANYON	1/2 - 1	NNW	M69	50
NEWHALL LAND & FARMING CO.	23800 VALENCIA	1 - 2	WSW	545	401

HAZNET: 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 from non-California manifests & continuation sheets are not included at the present time. 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, & disposal method. The source is the Department of Toxic Substance Control is the agency

A review of the HAZNET list, as provided by EDR, has revealed that there are 223 HAZNET sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
SANTA CLARITA VALLEY HEALTH CA	21704 W GOLDEN TRIANGLE	1/2 - 1	SE	N64	48
OLIVER WILLIAMS ELEVATOR COMPA	21700 W GOLDEN TRIANGLE	1/2 - 1	SE	N65	48
SANTA CLARITA MEDICAL GROUP	21700 W GOLDEN TRIANGLE	1/2 - 1	SE	N66	49
PUBLIC STORAGE	21648 W GOLDEN TRIANGLE	1/2 - 1	SE	N68	49
PACIFIC COAST ROOFING INC	21616 GOLDEN TRIANGLE R	1/2 - 1	SE	P87	64
MFG SANTA CLARITA LP	21516 W GOLDEN TRIANGLE	1/2 - 1	ESE	Q106	76
AMERICAN CYANAMID	***21444 GOLDEN TRIANGLE R***	***1/2 - 1***	***ESE***	***T117***	***84***
LAKESIDE BOAT SERVICE	21452 GOLDEN TRIANGLE R	1/2 - 1	ESE	T124	88
CASTAIC LAKE WATER AGENCY	27234 BOUQUET CANYON RD	1/2 - 1	NNE	U130	91
WHITTAKER CORP/BERMITE DIV	22116 W SOLEDAD CYN RD	1 - 2	SSE	214	168
VALENCIA RAQUET CLUB HOME OWNE	27055 RIO BOSQUE	1 - 2	NNW	223	174
48 HOUR T-SHIRTS	23113 CUERVO	1 - 2	NW	226	176
BOWMAN HIGH SCHOOL/WM S HART U	21508 REDVIEW DR	1 - 2	SE	235	180
ADVANCED PREPRESS SERVICES	27127 COLEBROOK PL	1 - 2	NW	268	202
NATIONAL TECHNICAL SYSTEM	***20988 GOLDEN TRIANGLE R***	***1 - 2***	***E***	***AU290***	***218***
SENSORTECH SYSTEMS INC	26810-I OAK AVE	1 - 2	E	AW296	223
VIP AUTO REPAIR	26794 OAK AVE	1 - 2	E	AW298	224
G W FRANZ GRINDING	26818 OAK AVE UNIT I	1 - 2	E	AW301	225
VON CO TOOL	***26778 OAK AVE***	***1 - 2***	***E***	***AX304***	***226***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
CANYON COUNTRY INDUSTRIAL PARK	26776 OAK AVE	1 - 2	E	AX305	227
MARANATHA CHEVROLET	***26770 OAK AVE***	***1 - 2***	***E***	***AX307***	***228***
MARANATHA CHEVROLET SERVICE	***26770 OAK AVE***	***1 - 2***	***E***	***AX308***	***230***
OAK COLOR	26752 OAK AVE STE E	1 - 2	E	AX311	231
EMCO ELECTRICAL	26752 OAK AVE STE H	1 - 2	E	AX313	231
METAL WORKS	26846 OAK AVENUE #K	1 - 2	E	AW315	233
GLAZER CUSTOM METAL WORKS	26846 OAK AVE STE R	1 - 2	E	AW316	233
VAL PAK PRODUCTS	26751 OAK AVE	1 - 2	E	AX317	234
BOHANS AUTOMOTOVIE	26741 OAK ST	1 - 2	E	AY320	237
RESTORATIONS PLUS	26846 OAK AVENUE UNIT "	1 - 2	E	AW321	238
D K TRUCKING	***20811 SANTA CLARA ST***	***1 - 2***	***E***	***AV323***	***238***
D & K TRUCKING INC	20811 SANTA CLARA ST	1 - 2	E	AV324	239
MORRIS PRECISION PRODUCTS, INC	26732 OAK AVE	1 - 2	E	AY325	240
PREMIER AUTO BODY & FRAME	26723 OAK AVENUE	1 - 2	E	AY326	241
G W FRANZ GRINDING	***26818 OAK AVE UNIT L***	***1 - 2***	***E***	***AW329***	***243***
HART UNION HIGH SCHOOL DISTRIC	21429 REDVIEW DR	1 - 2	ESE	AZ331	244
SANTA CLARITA WATER CO	***21110 W GOLDEN TRIANGLE***	***1 - 2***	***E***	***BA337***	***248***
SANTA CLARITA WATER COMPANY	21110 GOLDEN TRIANGLE	1 - 2	E	BA338	249
WM S HART USD SAUGUS HS	***21900 W CENTURION WY***	***1 - 2***	***NNE***	***340***	***250***
WM S HART USD ARROYO SECO JUNI	***27171 N VISTA DELGADO D***	***1 - 2***	***NNW***	***360***	***270***
INSPECTOR'S PAINT & BODY	26516 GOLDEN VALLEY RD	1 - 2	ESE	BD368	280
1X ANESCO MANUFACTURING PARTNE	26502 GOLDEN VALLEY ROA	1 - 2	ESE	BD372	282
KAR BODY & PAINT INC	26502 GOLDEN VALLEY	1 - 2	ESE	BD373	282
PS INC	26502 GOLDEN VALLEY RD	1 - 2	ESE	BD374	283
SAUGUS USD/TRANSPORTATION	26501 GOLDEN VALLEY ROA	1 - 2	ESE	BD377	285
SAUGUS UNION SD TRANSPORTATION	***26501 GOLDEN VALLEY RD***	***1 - 2***	***ESE***	***BD378***	***286***
UNIVERSAL ENGINE	26536 GOLDEN VALLEY RD,	1 - 2	ESE	BD380	287
POINTS WEST TRUCKING INC	***20727 SANTA CLARA ST***	***1 - 2***	***E***	***BE381***	***289***
POINTS WEST	***20727 SANTA CLARA ST***	***1 - 2***	***E***	***BE382***	***289***
MATO PLASTICS	***26541 GOLDEN VALLEY RD***	***1 - 2***	***ESE***	***BD384***	***290***
GALAXY BEARING CO	26477 GOLDEN VALLEY RD	1 - 2	ESE	BF386	291
SCV AUTO SPECIALIST	26921 RUETHER UNIT A	1 - 2	E	BG387	291
PREMIER PRINTING COMPANY	26951 RUETHER AVE STE G	1 - 2	E	BG388	293
IU- ITSU ACADEMY	***26911 RUETHER AVE G***	***1 - 2***	***E***	***BG389***	***294***
AUTOMOTIVE FITNESS CENTER INC.	26911 RUETHER AVE STE S	1 - 2	E	BG390	294
A & S EXCHANGE	26911 RUETHER AVE UNIT	1 - 2	E	BG391	295
ROTO- ET OF AMERICA CO INC	26943 RUETHER AVE UNIT	1 - 2	E	BG392	295
POINT AUTO SERVICE	26921 RUETHER AVE #A	1 - 2	E	BG393	296
ERRYS TOWING SERVICE INC	26921-B RUETHER AVE	1 - 2	E	BG394	297
SANTA CLARITA VALLEY TOYOTA SP	26911 RUETHER AVE	1 - 2	E	BG396	297
ANDY GUMP INC	***26954 RUETHER AVE***	***1 - 2***	***E***	***BG397***	***299***
SANTA CLARITA ELEM SCHOOL/SAUG	27177 SECO CANYON RD	1 - 2	NNW	402	305
SANTA CLARITA COLLISION CENTER	26867 RUETHER AVE	1 - 2	E	BG404	306
VP MANUFACTURING INC	20732 SOLEDAD ST	1 - 2	E	BJ409	308
VELS AUTOMOTIVE/ADVANCED AUTOM	26831 RUETHER #K	1 - 2	E	BI410	309
BENS TEK	***26536 GOLDEN VALLEY RD***	***1 - 2***	***ESE***	***BK414***	***311***
S C RADIATOR & BODY PARTS	26821 RUETHER UNIT D	1 - 2	E	BI415	313
AMERICAN GRAFFITII	26821 RUETHER AVE UNIT	1 - 2	E	BI416	314
NATIONAL READY MIX	***27050 RUETHER AVE***	***1 - 2***	***E***	***BE417***	***315***
NATIONAL READY MIXED CONC	***27050 RUETHER AVE***	***1 - 2***	***E***	***BE418***	***316***
AMERICAN UNITED INC	20730 SOLEDAD ST	1 - 2	E	BJ422	322
VAL-AERO INDUSTRIES INC.	***26559 GOLDEN VALLEY RD***	***1 - 2***	***ESE***	***BD425***	***323***
SCV AUTO SPECIALIST	20733 SOLEDAD CANYON RD	1 - 2	E	BO447	336
BONGIOVANNI CHIROPRACTIC	27600 BOUQUET CANYON RD	1 - 2	NNE	BQ451	338
IM DANDY CLEANERS	27600 BOUGUET CYN RD	1 - 2	NNE	BQ452	339
MAIN STREET VIDIO	27611 BOUQUET CYN RD	1 - 2	NNE	BQ455	342

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
ACRYLLIC CUSTOMS COLLISION & B	20665 SANTA CLARA	1 - 2	E	BR456	342
VALENCIA LABORATORY	***26421 GOLDEN VALLEY RD***	***1 - 2***	***SE***	***BT474***	***352***
IFFY LUBE #680	***20703 SOLEDAD CANYON RD***	***1 - 2***	***E***	***BO476***	***353***
CANYON COUNTRY LUBRICATION	20703 SOLEDAD CANYON RO	1 - 2	E	BO477	354
ONE HR MARTINIZING	***27645 BOUQUET CYN RD***	***1 - 2***	***NNE***	***BV493***	***364***
BOUQUET ONE HOUR MARTINIZING	27645 BOUQUET CANYON RD	1 - 2	NNE	BV496	367
1 HOUR PHOTO EXPRESS	27647 BOUQUET CANYON RD	1 - 2	NNE	BV501	370
CHRIS AND PATTY FRENCH	22438 GUADILAMAR	1 - 2	N	503	371
BLUE CROSS LABORATORIES INC	***26411 N GOLDEN VALLEY R***	***1 - 2***	***SE***	***BT504***	***372***
CITY OF SANTA CLARITA	26407 GOLDEN VALLEY RD	1 - 2	SE	BT510	375
STAATS CONSTRUCTION	***26951 N FURNIVALL AVE***	***1 - 2***	***E***	***BY518***	***383***
CANYON COUNTRY VETERINARY	20655 SOLEDAD CANYON RO	1 - 2	E	BZ521	386
EDS CLEANERS	***20655 SOLEDAD CANYON RD***	***1 - 2***	***E***	***BZ523***	***388***
WILLIAM ETTER & PATRICK BETZ	26949 FURNIBAL AVE	1 - 2	E	BY526	390
BROWN AUTO BODY	***26935 FURNIVALL***	***1 - 2***	***E***	***BY527***	***390***
PACIFIC BELL	26971 N FUNIVALL AVE	1 - 2	E	BY529	391
PRECISION CNC PRODUCTS	26921 1/2 FURNIVALL ST	1 - 2	E	BZ533	396
LOLA OLSEN PROPERTIES	26917 FURNIVALL	1 - 2	E	BZ537	397
KWIK INK CREEEN PRINTING DESIG	26915 FURNIVALL	1 - 2	E	BZ538	397
CALIFORNIA COLLECTIBLE COACH W	27134 FURNIVALL AVE	1 - 2	E	CB541	399
DESIGN MASONRY INC	27121 FURNIVAL	1 - 2	E	CB542	400
LIL' OHN AUTO PARTS (USED OIL	20541 SOLEDAD CANYON RD	1 - 2	E	CF574	419
SAUGUS ANIMAL HOSPITAL	27737 BOUQUET CANYON RD	1 - 2	NE	CG580	423
BEST CLEANERS	***27737 BOUQUET CYN RD***	***1 - 2***	***NE***	***CG581***	***423***
MIKE'S TIREMAN INC	***20529 SOLEDAD CANYON RD***	***1 - 2***	***E***	***CF586***	***428***
ERRY'S TRANSMISSIONS	20501 SOLEDAD CANYON RD	1 - 2	E	CF596	437
JERRY AUTOMATIC TRANSMISSIONS	***20501 SOLEDAD CYN ROAD***	***1 - 2***	***E***	***CF597***	***437***
ERRY HIDDER	20501 SOLEDA CANYON ROA	1 - 2	E	CF598	439
RIO VISTA ELEMENTARY SCHOOL	20417 CEDARCREEK ST	1 - 2	E	611	448
RENE VELUZAT	28100 HASCOLL CNYN RD	1 - 2	NNE	622	456
BOUQUET MOBIL	27777 BOUQUET CANYON RO	1 - 2	NE	CM626	459
EXXON CO USA #73547	27777 BOUQUET CANYON RO	1 - 2	NE	CM627	461
DRD CONSTRUCTION	27441 ELDER VIEW DR	1 - 2	NNW	630	463
THE HOME DEPOT #653	20642 GOLDEN TRIANGLE	1 - 2	E	CO637	464
ROSEDELL ELEMENTARY SCHOOL	27853 URBANDALE	1 - 2	NNE	CR653	476
ROSEDELL SCHOOL	27853 URBANDALE	1 - 2	NNE	CR654	476

Lower Elevation	Address	Dist / Dir		Map ID	Page
SANTA CLARITA VALLEY DENTAL	22770 WEST SOLEDAD CYN	1/2 - 1	WSW	B5	7
SAUGUS UNION SCHOOL DIST	22635 ESPUELLA DR	1/2 - 1	NW	6	8
FIRST CARE WALK IN MEDICAL GR	22840 SOLDEDAD CANYON R	1/2 - 1	W	D17	21
SAUGUS	22211 W NEWHALL RANCH R	1/2 - 1	WNW	E20	22
SAUGUS SCH DIST	22211 NEWHALL RANCH RD	1/2 - 1	WNW	E21	24
SAV ON 9722	26550 BOUQUET CANYON RD	1/2 - 1	WNW	H33	28
CLARKS DRUGS 21	***26550 BOUQET CANYON RD***	***1/2 - 1***	***WNW***	***H35***	***29***
92437	***26753 BOUQUET CANYON RD***	***1/2 - 1***	***NW***	***I40***	***32***
CARRIAGE TRADE CLEANERS	***26512 BOUQUET CANYON***	***1/2 - 1***	***WNW***	***J48***	***35***
SHELL SERVICE STATION	***26801 BOQUET CANYON RD***	***1/2 - 1***	***NW***	***K53***	***38***
SHELL	***26801 BOUQUET CANYON RD***	***1/2 - 1***	***NW***	***K56***	***42***
RITE AID NO 5555	***26825 BOUQUET CYN RD***	***1/2 - 1***	***NNW***	***K58***	***45***
CHEVRON USA PRODUCTS COMPANY	26753 BOQUET CANYON	1/2 - 1	NNW	L59	46
ONE HOUR MARTINIZING	***26830 SECO CYN RD***	***1/2 - 1***	***NNW***	***M71***	***50***
SECO ONE HOUR MARTINIZING	***26830 SECO CYN RD***	***1/2 - 1***	***NNW***	***M72***	***53***
UNOCAL SERVICE STATION #7344	23055 SOLEDAD CANYON RO	1/2 - 1	W	O83	59
TOSCO CORPORATION STATION #313	23055 SOLEDAD CANYON RD	1/2 - 1	W	O85	63

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Lower Elevation	Address	Dist / Dir		Map ID	Page
SAMS EXXON	23060 SOLEDAD CYN RD	1/2 - 1	W	O91	66
LOWES HIW INC-SANTA CLARITA #1	26415 BOUQUET CANYON RD	1/2 - 1	W	R96	70
ARCO #1974	***23105 VALENCIA***	***1/2 - 1***	***W***	***R110***	***80***
GLORY CLEANERS	***23142 VALENCIA***	***1/2 - 1***	***W***	***W136***	***94***
WESTERN BAGEL TOO	23170 W VALENCIA BLVD	1/2 - 1	W	W139	96
CROSSROADS DENTAL CENTER	26246 BOUQUET CANYON RD	1/2 - 1	WSW	X149	102
PIP PRINTING #675	26240 BOUQUET CANYON RD	1/2 - 1	WSW	Y150	104
ANIMAL CLINIC OF SANTA CLARITA	26062 BOUQUET CANYON RD	1 - 2	WSW	Z156	106
RODNEY L CUMMINGS DC CHIROPRAC	26045 BOQUET CANYON RD.	1 - 2	WSW	AA158	109
KMART #3018	23222 W VALENCIA BLVD	1 - 2	W	AC164	113
PENSKE AUTO CENTER #3018	23222 WEST VALENCIA BLV	1 - 2	W	AC166	115
ALERT MOBILE REPAIR SERVICE, I	26011 BOUQUET CYN RD	1 - 2	WSW	AA174	121
GERMAN AUTO CENTER	23051 DRAYTON ST	1 - 2	SW	AD175	122
CNTY LA SANITATION DIST/SAUGUS	26200 SPRINGBOOK AVE	1 - 2	SW	AD180	125
AUTO BODY SPECIALIST	23108 DRAYTON ST	1 - 2	SW	AD185	127
HASA CHEMICALS INC	***23119 DRAYTON ST***	***1 - 2***	***SW***	***AF186***	***128***
KEYSOR CENTURY CORPORATION	***26000 SPRINGBROOK AVE.***	***1 - 2***	***SW***	***AF198***	***148***
PLAZA CLARITA	***25845 SAN FERNANDO RD***	***1 - 2***	***SW***	***AG212***	***166***
RIDE WAY AUTO SERVICE	***25843 SAN FERNANDO RD***	***1 - 2***	***SW***	***AG213***	***167***
ACE AUTOMOTIVE	25835 SAN FERNANDO RD S	1 - 2	SW	AG215	170
VALENCIA AUTOMOTIVE CENTER MD	***25835 SAN FERNANDO RD***	***1 - 2***	***SW***	***AG217***	***170***
LIONS TOWING AND MOTORS	25835 SAN FERNANDO ROAD	1 - 2	SW	AG218	172
AAMCO TRANSMISSION	25825 SAN FERNANDO RD	1 - 2	SW	AG220	173
HANDS ON HEALTHCARE	23504 CINEMA DR	1 - 2	W	AI224	174
THE ENGLISH CLEANERS	***23360 W VALENCIA BLVD***	***1 - 2***	***W***	***AJ231***	***177***
SCOTT CHIROPRACTIC	23360 VALENCIA BLVD #R	1 - 2	W	AJ232	179
TERRY YORKS VALENCIA HONDA	23551 MAGIC MOUNTAIN PK	1 - 2	WSW	AK236	181
MYFRAN INC DBA MIDAS MUFFLER	25745 SAN FERNANDO RD	1 - 2	SW	AL242	186
WILLIAM S HART BASEBALL & SOFT	23437 VALENCIA BLVD	1 - 2	W	AM250	190
A & K BODY & FENDER	***25834 SPRINGBROOK AVE***	***1 - 2***	***SSW***	***AN256***	***192***
FRONTIER AUTO SALES	***23621 CREEKSIDE RD***	***1 - 2***	***WSW***	***AQ267***	***198***
LACO SHERIFF'S DEPT/STA CLARIT	23740 W MAGIC MOUNTAIN	1 - 2	WSW	AR271	203
EXPRESS SERVICE CTR	23500 VALENCIA BLVD	1 - 2	WSW	AT277	208
OILSTOP INC	23500 VALENCIA BLVD	1 - 2	WSW	AT278	208
SATURN OF SANTA CLARITA	***23645 CREEKSIDE RD***	***1 - 2***	***WSW***	***AQ279***	***210***
BIG O TIRES	***23510 VALENCIA BLVD***	***1 - 2***	***WSW***	***AT281***	***212***
STEVE'S EXPRESS AUTOMOTIVE	23510 VALENCIA BLVD	1 - 2	WSW	AT282	212
CHOOSE THE RIGHT III LLC DBA B	23510 VALENCIA BLVD UNI	1 - 2	WSW	AT284	213
BLUE BARREL DISPOSAL CO	***25772 SPRINGBROOK AVE***	***1 - 2***	***SSW***	***AS285***	***214***
EXXON USA #7-4944	***18308 E COLIMA RD***	***1 - 2***	***SSW***	***AS288***	***216***
VALENCIA AUTO SERVICE	23520 VALENCIA BLVD,#J	1 - 2	WSW	AT289	218
REXHALL INDUSTRIES INC	***25655 SPRINGBROOK AVE S***	***1 - 2***	***SSW***	***BB343***	***254***
TMC PROPERTIES LLC	25655 SPRINGBROOK AVE	1 - 2	SSW	BB344	255
STANFORD PERSONAL CARE MFG	25655 SPRINGBROOK AVE N	1 - 2	SSW	BB345	257
THATCHER GLASS MANUFACTUR	***25655 SPRINGBROOK***	***1 - 2***	***SSW***	***BB346***	***258***
MARATHON INDUSTRIES INC	25655 SPRINGBROOK AVE	1 - 2	SSW	BB350	264
MIKE FENNEL ENT	25655 SPRINGBROOK AVE	1 - 2	SSW	BB351	266
POWER CHEVROLET VALENCIA	***23649 VALENCIA BLVD***	***1 - 2***	***WSW***	***BC367***	***278***
VALENCIA DODGE YUGO	23820 CREEKSIDE RD	1 - 2	WSW	BH399	300
VALENCIA DODGE ISUZU	***23820 CREEKSIDE RD***	***1 - 2***	***WSW***	***BH400***	***301***
THE TRANSMISSION MAN	***24309 CREEKSIDE RD UNIT***	***1 - 2***	***WSW***	***BH428***	***326***
VIP AUTO CARE	***25835 SAN FERNANDO RD U***	***1 - 2***	***SSW***	***BM430***	***327***
MICHAEL D GOODLEY DDS INC	23734 WEST VALENCIA BLV	1 - 2	WSW	BN465	346
TERRY YORKS VALENCIA HONDA	23901 CREEKSIDE ROAD	1 - 2	W	BS467	347
Not reported	***23901 CREEKSIDE RD***	***1 - 2***	***W***	***BS468***	***348***
VALENCIA MOTORS GROUP	***23901 CREEKSIDE RD***	***1 - 2***	***W***	***BS471***	***351***

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MAGIC FORD	***23920 CREEKSIDE RD***	***1 - 2***	***W***	***BS483***	***357***
VALENCIA JEEP EAGLE	***23923 CREEKSIDE RD***	***1 - 2***	***W***	***BS489***	***361***
VALENCIA ACURA	***23955 W CREEKSIDE RD***	***1 - 2***	***W***	***CA530***	***392***
1X VALENCIA ACURA	23955 CREEKSIDE ROAD	1 - 2	W	CA531	394
VOLUME CAR SALES INC (ACURA)	23955 CREEKSIDE RD	1 - 2	W	CA532	395
THE SIGNAL	24000 CREEKSIDE RD.	1 - 2	W	CA548	402
1X THE NEWHALL SIGNAL	24000 CREEKSIDE RD.	1 - 2	W	CA550	404
VALENCIA BMW	***24030 CREEKSIDE RD***	***1 - 2***	***W***	***CC554***	***407***
BMW OF VALENCIA	24030 CREEKSIDE ROAD	1 - 2	W	CC555	408
LEXUS OF VALENCIA	***24033 CREEKSIDE ROAD***	***1 - 2***	***W***	***CC558***	***409***
LEXUS OF VALENCIA	***24033 W CREEKSIDE RD***	***1 - 2***	***W***	***CC560***	***411***
VALENCIA DENTAL CARE	23838 VALENCIA STE 301	1 - 2	WSW	CD564	415
FACEY MEDICAL FOUNDATION	23838 VALENCIA	1 - 2	WSW	CD565	415
DAVID R WYNDHAMSMITH DDS	23838 VALENCIA BLVD #30	1 - 2	WSW	CD566	416
VALENCIA ORAL SURGERY CTR	23838 VALENCIA #302	1 - 2	WSW	CD567	417
ADDIE'S GOLD & EWELRY	24311 WEST MAGIC MOUNTA	1 - 2	WSW	CE568	417
PARKWAY OLDMOBILE-CADILLAC	***24050 W CREEKSIDE RD***	***1 - 2***	***W***	***CC569***	***418***
ALPHA GRAPHICS	24343 MAGIC MOUNTAIN PK	1 - 2	W	CE579	422
PARKWAY OLDSMOBILE CADILLAC IN	***24055 CREEKSIDE RD***	***1 - 2***	***W***	***CH587***	***430***
MOORE OLDSMOBILE CADILLAC INC	24055 CREEKSIDE RD	1 - 2	W	CH588	431
VOLKSWAGON OF VALENCIA	24095 CREEKSIDE RD	1 - 2	W	CH591	433
VALENCIA INFINITY	24095 CREEKSIDE RD	1 - 2	W	CH594	435
VALENCIA NISSAN	***24111 CREEKSIDE RD***	***1 - 2***	***W***	***CH601***	***440***
CLANTON BLOCK	25446 SAN FERNANDO RD	1 - 2	SSW	CI605	442
VALENCIA LINCOLN MERCURY	24135 CREEKSIDE RD	1 - 2	W	CK607	443
MAGIC LINCOLN MERCURY	***24135 CREEKSIDE RD***	***1 - 2***	***W***	***CK608***	***444***
DETAIL DEPARTMENT MAGIC LINCOL	24135 CREEKSIDE RD.	1 - 2	W	CK610	446
VALENCIA BODY SHOP INC	***26643 AUTO CENTER DR***	***1 - 2***	***W***	***CK612***	***448***
CREEKSIDE COLLISION	26640 AUTO CENTER	1 - 2	W	CK614	450
TARGET #257A	24425 MAGIC MOUNTAIN PK	1 - 2	W	CL616	452
TARGET #257A	24425 W MAGIC MOUNTAIN	1 - 2	W	CL617	453
EXPRESS STOP PHOTO (TARGET #02	24425 W MAGIC MOUNTAIN	1 - 2	W	CL618	454
TARGET STORE #257	24425 W MAGIC MOUNTAIN	1 - 2	W	CL620	455
SIKIND PROPERTIES	22900 OAKRIDGE DRIVE	1 - 2	SSW	621	456
THE PICTURE PEOPLE INC	24201 VALENCIA BLVD UNI	1 - 2	WSW	CN638	466
VALENCIA TOWN CENTER	24201 W VALENCIA	1 - 2	WSW	CN640	467
MOBILE OIL CORP	27706 MCBEAN PKWY	1 - 2	WNW	CP641	467
VALENCIA CAR WASH	***24233 CREEKSIDE RD***	***1 - 2***	***W***	***CQ648***	***472***
BIG JOHNS PERFORMANCE	***24233 CREEKSIDE RD***	***1 - 2***	***W***	***CQ649***	***473***

HMS: Los Angeles County Industrial Waste and Underground Storage Tank Sites.

A review of the LOS ANGELES CO. HMS list, as provided by EDR, has revealed that there are 274 LOS ANGELES CO. HMS sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
L A POLICE MISDEMEANANT F	27000 N BOUQUET CANYON	1/2 - 1	N	44	34
SANTA CLARITA AUTO TRCK	21618 GOLDEN TRIANGLE R	1/2 - 1	SE	P86	64
SANTA CLARITA CONCESSIONS, INC	21554 GOLDEN TRIANGLE R	1/2 - 1	ESE	Q95	70
MCDONALDS RESTAURANT	21516 GOLDEN TRIANGLE R	1/2 - 1	ESE	Q102	75
MOUNTASIA OF SANTA CLARITA LP	21516 GOLDEN TRIANGLE R	1/2 - 1	ESE	Q103	75
GLASS SEAL CORPORATION	21516 GOLDEN TRIANGLE R	1/2 - 1	ESE	Q104	76
AMERICAN CYANAMID CO	21444 W GOLDEN TRIANGLE	1/2 - 1	ESE	T116	83
CYTEC INDUSTRIES	21444 W GOLDEN TRIANGLE	1/2 - 1	ESE	T122	88

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Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
RIO VISTA WATER TREATMENT	27234 BOUQUET CANYON RD	1/2 - 1	NNE	U127	90
CASTAIC LAKE WATER AGENCY	27234 N BOUQUET CANYON	1/2 - 1	NNE	U128	91
RIO VISTA WATER TREATMENT PLT	27234 N BOUQUET CANYON	1/2 - 1	NNE	U129	91
FOSTER FREEZE	21525 W SOLEDAD CANYON	1/2 - 1	ESE	V133	93
FOSTERS FREEZE	21525 W SOLEDAD CANYON	1/2 - 1	ESE	V134	93
WORTMANN OIL CO	26954 N SECO CANYON RD	1 - 2	NNW	AB159	110
DRIVE-IN DAIRY	26954 N SECO CANYON RD	1 - 2	NNW	AB161	112
MIKE'S ELECTRONIC (UNIT B)	22577 W CHAPARRO DR	1 - 2	NNW	AO252	191
FIXING TIRES GAONA	22577 W CHAPARRO DR	1 - 2	NNW	AO253	191
M&M CUSTOM SHEET METAL	22577 W CHAPARRO DR	1 - 2	NNW	AO254	191
PROWLERS SPEED & CUSTOMS INC.	21021 SOLEDAD CANYON RD	1 - 2	E	AP257	193
CAMEL WORKS	21020 W SOLEDAD CANYON	1 - 2	E	AP258	193
LA CO DPW FLOOD SANTA CLARITA	21014 W SOLEDAD CANYON	1 - 2	E	AP260	194
NATIONAL TECHNICAL SYSTEM	***20988 GOLDEN TRIANGLE R***	***1 - 2***	***E***	***AU290***	***218***
RENT A BIN	20830 SANTA CLARA ST	1 - 2	E	AV292	221
Not reported	***20833 SANTA CLARA ST***	***1 - 2***	***E***	***AV293***	***221***
VP MFG. INC.	20732 SOLEDAD ST A	1 - 2	E	AW295	223
HONEST OHN'S EVO'S ETC	26792 OAK AVE	1 - 2	E	AW299	225
HOBBY SHOP	26790 OAK AVE	1 - 2	E	AW300	225
AV BREAK SUPPLY	26818 OAK AVE E	1 - 2	E	AW302	225
WINNERS CIRCLE AUTO PATRS	26786 OAK AVE	1 - 2	E	AX303	226
MARANATHA CHEVROLET SERVICE	***26770 OAK AVE***	***1 - 2***	***E***	***AX308***	***230***
MICHAEL'S SHUTTER MFG.	26752 OAK AVE A	1 - 2	E	AX309	230
CHEMEX EXTERMINATORS	26752 OAK AVE B	1 - 2	E	AX310	230
PATROL SECURITY	26752 OAK AVE C	1 - 2	E	AX312	231
PACIFIC AIR LOGISTICS	26763 OAK AVE	1 - 2	E	AX314	232
BOHAN'S AUTOMOTIVE	26741 OAK AVE	1 - 2	E	AY319	237
PREMIER AUTO BODY	26723 OAK AVE	1 - 2	E	AY327	242
AUTO CENTER	26723 OAK AVE	1 - 2	E	AY328	242
WS HART UNION HIGH SCH DT	21429 REDVIEW DR	1 - 2	ESE	AZ335	247
MATCHED VAN TRAILER	23444 WESTFORD PL	1 - 2	NW	336	248
SANTA CLARITA WATER CO	***21110 W GOLDEN TRIANGLE***	***1 - 2***	***E***	***BA337***	***248***
INSPECTORS PAINT & BODY	26516 GOLDEN VALLEY RD	1 - 2	ESE	359	269
SO PACIFIC MILLING CO	20735 W SANTA CLARA ST	1 - 2	E	BE369	281
INDUSTRIAL ASPHALT CO	20735 W SANTA CLARA ST	1 - 2	E	BE370	282
CLASSIC UPHOLSTERY	26524 GOLDEN VALLEY RD	1 - 2	ESE	BD371	282
SAUGUS UNION SD TRANSPORTATION	***26501 GOLDEN VALLEY RD***	***1 - 2***	***ESE***	***BD378***	***286***
BABY YOUR CAR	26529 GOLDEN VALLEY RD	1 - 2	ESE	BD379	287
POINTS WEST TRUCKING INC	***20727 SANTA CLARA ST***	***1 - 2***	***E***	***BE381***	***289***
MATO PLASTICS	***26541 GOLDEN VALLEY RD***	***1 - 2***	***ESE***	***BD384***	***290***
ELEC-TROL INC	26477 N GOLDEN VALLEY R	1 - 2	ESE	BF385	291
IU- ITSU ACADEMY	***26911 RUETHER AVE G***	***1 - 2***	***E***	***BG389***	***294***
MOFIELD PRODUCTIONS	26911 RUETHER AVE E	1 - 2	E	BG395	297
ANDY GUMP INC	***26954 RUETHER AVE***	***1 - 2***	***E***	***BG397***	***299***
VIDAC	26883 RUETHER AVE	1 - 2	E	BG403	306
PRIDE COLLISION CENTERS INC.	26867 N RUETHER AVE	1 - 2	E	BG405	307
PRIDE COLLISION CENTER	26867 N RUETHER AVE	1 - 2	E	BG406	307
SANTA CLARITA COLLISION CENTER	26867 N RUETHER AVE	1 - 2	E	BG407	308
SCORE INDUSTRIES	26841 RUETHER AVE E	1 - 2	E	BI408	308
FORBES METAL STAMPING CO.	26555 GOLDEN VALLEY RD	1 - 2	ESE	BD411	310
BENS TEK	***26536 GOLDEN VALLEY RD***	***1 - 2***	***ESE***	***BK414***	***311***
NATIONAL READY MIXED CONC	***27050 RUETHER AVE***	***1 - 2***	***E***	***BE418***	***316***
VAL-AERO INDUSTRIES INC.	***26559 GOLDEN VALLEY RD***	***1 - 2***	***ESE***	***BD425***	***323***
OHN PAUL MICHAEL SYSTEMS	26455 GOLDEN VALLEY RD	1 - 2	ESE	427	325
DPW FMD SANTA CLARITA REFERRAL	21014 GOLDEN TRIANGLE R	1 - 2	E	BL432	329
LA CO DPW FLOOD DIST	21014 GOLDEN TRIANGLE R	1 - 2	E	BL433	329

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Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
NATIONAL TECHNICAL SYSTEMS	20988 GOLDEN TRIANGLE R	1 - 2	E	BL440	333
KENNCO PLUMBING INC	26575 RUETHER AVE	1 - 2	ESE	448	337
LA RUMBA	27600 N BOUQUET CANYON	1 - 2	NNE	BQ449	338
CAFE BOUQUET	27600 N BOUQUET CANYON	1 - 2	NNE	BQ450	338
JIM DANDY	***27600 BOUGUET CYN RD***	***1 - 2***	***NNE***	***BQ453***	***341***
ROBERT SAUMERS	20665 W SANTA CLARA ST	1 - 2	E	BR458	344
FRONTIER AUTO SERVICE	20723 SOLEDAD CANYON RD	1 - 2	E	BO460	345
BOCCHI LABORATORIES INC	26421 GOLDEN VALLEY RD	1 - 2	SE	BT473	352
VALENCIA LABORATORY	***26421 GOLDEN VALLEY RD***	***1 - 2***	***SE***	***BT474***	***352***
STAR LABORATORIES INC	26421 N GOLDEN VALLEY R	1 - 2	SE	BT475	353
IFFY LUBE	20703 W SOLEDAD CANYON	1 - 2	E	BO478	355
ROLL OFF SERVICE INC.	27258 SECO CANYON RD	1 - 2	NNW	BU479	356
CIRCLE K	27258 SECO CANYON RD	1 - 2	NNW	BU480	356
ALBERTSONS #6360	27631 N BOUQUET CANYON	1 - 2	NNE	BQ481	356
BLUE CROSS LABORATORIES INC	***26411 N GOLDEN VALLEY R***	***1 - 2***	***SE***	***BT504***	***372***
SANTA CLARITA COUNTY PARK	27285 N SECO CANYON RD	1 - 2	NNW	BU506	374
SANTA CLARITA PARK	27285 N SECO CANYON RD	1 - 2	NNW	BU507	375
PACIFIC BELL CNCYCAPB/KC652	26971 N FURNIVALL AVE	1 - 2	E	BY516	380
PACIFIC BELL	***26971 N FURNIVALL AVE***	***1 - 2***	***E***	***BY517***	***381***
STAATS CONSTRUCTION	***26951 N FURNIVALL AVE***	***1 - 2***	***E***	***BY518***	***383***
SANTA CLARITA BREWING CO	20655 W SOLEDAD CANYON	1 - 2	E	BZ522	387
IVAN COHEN	20655 W SOLEDAD CANYON	1 - 2	E	BZ524	389
STORAGE LOT	26949 N FURNIVALL AVE	1 - 2	E	BY525	389
DICK SANCHEZ AUTO BODY	26935 FURNIVALL AVE	1 - 2	E	BY528	391
B & D GLASS	26919 FURNIVALL AVE	1 - 2	E	BZ535	397
KOCH'S	26917 FURNIVALL AVE	1 - 2	E	BZ536	397
ERRYS AUTOMATIC TRANS RP	20601 W SANTA CLARA ST	1 - 2	E	CB539	399
SANTA CLARITA CAR WASH	20625 W SOLEDAD CANYON	1 - 2	E	BZ543	401
UNOCAL CORP SS 7062	27610 N HASKELL CANYON	1 - 2	NNE	544	401
MED TRANS CORP.	20607 W SOLEDAD CANYON	1 - 2	E	BZ546	402
CANYON AUTO SUPPLY	20541 W SOLEDAD CANYON	1 - 2	E	CF572	419
NAPA AUTO PARTS	20541 W SOLEDAD CANYON	1 - 2	E	CF573	419
LIL OHN AUTO PARTS	20541 W SOLEDAD CANYON	1 - 2	E	CF575	420
SIMI SMOG EXPERTS	21627 MASTERSON CT	1 - 2	NNE	577	421
TELLYS CHARBURGERS	27737 N BOUQUET CANYON	1 - 2	NE	CG582	426
SNAPSHOT 1HR PHOTO, UNIT 126	27737 N BOUQUET CANYON	1 - 2	NE	CG583	427
MIKE'S TIRE MAN	20529 SOLEDAD CANYON RD	1 - 2	E	CF585	427
ERRY'S TRANSMISSIONS	20501 SOLEDAD CANYON RD	1 - 2	E	CF599	439
BOUQUET MOBIL	***27777 BOUQUET CANYON RD***	***1 - 2***	***NE***	***CM623***	***457***
EXXON CO USA	27777 BOUQUET CANYON RD	1 - 2	NE	CM624	457
EXXON USA #7-3547	27777 BOUQUET CANYON RD	1 - 2	NE	CM628	461
ADVANCED MOBILE TRUCK ALIGN	21621 NUTMEG LN	1 - 2	NNE	631	463
HOME DEPOT USA	20642 GOLDEN TRIANGLE R	1 - 2	E	CO636	464
PARK LANE MOBLE ESTATES	20401 W SOLEDAD CANYON	1 - 2	E	645	471

Lower Elevation	Address	Dist / Dir		Map ID	Page
SAUGUS SPEED WAY - SWAPMEET	22500 W SOLEDAD CANYON	1/4 - 1/2	SW	A2	6
BONELLI PHAR PROD	22500 W SOLEDAD CANYON	1/4 - 1/2	SW	A3	7
SANTA CLARITA WATER CO.	22722 SOLEDAD CANYON RD	1/4 - 1/2	WSW	B4	7
BERMITE DIV-WHITTAKER	***22116 SOLEDAD CANYON RD***	***1/2 - 1***	***S***	***C8***	***11***
AMERICAN MOTOR CYCLE	22820 SOLEDAD CANYON RD	1/2 - 1	W	D15	20
PIZZA HUT RESTAURANT #758132	22830 W SOLEDAD CANYON	1/2 - 1	W	D16	20
SAUGUS UNION SCHOOL DISTRICT	22211 NEWHALL RANCH RD	1/2 - 1	WNW	E22	24
SPORTS BAR & GRILL	22903 W SOLEDAD CANYON	1/2 - 1	W	F23	24
POPPIS	22903 W SOLEDAD CANYON	1/2 - 1	W	F24	25

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Lower Elevation	Address	Dist / Dir		Map ID	Page
PEARSON AND CO	22911 W SOLEDAD CANYON	1/2 - 1	W	F25	25
KATI THAI	22911 W SOLEDAD CANYON	1/2 - 1	W	F26	25
MADARIN EXPRESS	22911 W SOLEDAD CANYON	1/2 - 1	W	F27	26
NUMERO UNO #52	22917 W SOLEDAD CANYON	1/2 - 1	W	F28	26
CAMP BOUQUET CANYON	26590 N BOUQUET CANYON	1/2 - 1	WNW	G30	27
SWENSENS BOUQUET CENTER	26586 N BOUQUET CANYON	1/2 - 1	WNW	G31	27
PRESIDENTE RESTAURANT	26625 N BOUQUET CANYON	1/2 - 1	WNW	32	27
HUGHES MARKETS INC	26550 N BOUQUET CANYON	1/2 - 1	WNW	H34	29
ORCHARD SUPPLY HARDWARE	26565 N BOUQUET CANYON	1/2 - 1	WNW	H36	31
WENDYS HAMBURGERS	26538 N BOUQUET CANYON	1/2 - 1	WNW	H37	31
CHEVRON USA CO / CARWASH	26753 N BOUQUET CANYON	1/2 - 1	NW	I38	31
CHEVRON SERVICE STATION	26753 N BOUQUET CANYON	1/2 - 1	NW	I42	33
ACK-IN-THE-BOX	26547 N BOUQUET CANYON	1/2 - 1	WNW	H43	34
BOSTON MARKET RESTAURANT	26543 N BOUQUET CANYON	1/2 - 1	WNW	H45	34
BOUQUET AUTO PARTS	26769 BOUQET CANYON RD	1/2 - 1	NW	I46	34
VONS #1669	26518 N BOUQUET CANYON	1/2 - 1	WNW	J47	35
BOUQUET CANYON SHELL	26801 N BOUQUET CANYON	1/2 - 1	NW	K50	37
SHELL OIL #204-7050-0347	26801 N BOUQUET CANYON	1/2 - 1	NW	K52	38
BURGER KING RESTAURANT	26480 N BOUQUET CANYON	1/2 - 1	W	J57	44
COUSINS BURGERS	26851 N BOUQUET CANYON	1/2 - 1	NNW	L60	47
SAFEWAY STORES INC #1024	26877 BOUQUET CANYON RD	1/2 - 1	NNW	M61	47
DAKOTA VENTURES, LLC	26485 N BOUQUET CANYON	1/2 - 1	W	J63	47
PANDA EXPRESS	26447 N BOUQUET CANYON	1/2 - 1	W	67	49
LA CO FD FIRE STA #111	26829 N SECO CANYON RD	1/2 - 1	NNW	M77	56
ACWA ASSOC - SEE FILE I09575	23055 W SOLEDAD CANYON	1/2 - 1	W	O78	57
UNOCAL CORP SS 7344	23055 W SOLEDAD CANYON	1/2 - 1	W	O79	57
TOSCO/UNOCAL #31309	23055 W SOLEDAD CANYON	1/2 - 1	W	O80	57
ACWA ASSOCIATES INC	23055 W SOLEDAD CANYON	1/2 - 1	W	O82	59
EXXON USA #7-3550	23060 W SOLEDAD CANYON	1/2 - 1	W	O88	65
SAM'S MOBIL	23060 W SOLEDAD CANYON	1/2 - 1	W	O89	65
SAMS EXXON	23060 W SOLEDAD CANYON	1/2 - 1	W	O90	66
LOWE'S HOME IMPROVMNT WRHOUSE	26415 N BOUQUET CANYON	1/2 - 1	W	R97	71
IN-N-OUT BURGER	26401 N BOUQUET CANYON	1/2 - 1	W	R107	77
CROSS ROADS AUTO WASH	***23105 VALENCIA BLVD***	***1/2 - 1***	***W***	***R111***	***80***
MCDONALDS RESTAURANT	23111 W VALENCIA BLVD	1/2 - 1	W	R113	82
BOOK NIPPAN	1123 E DOMINGUEZ ST K	1/2 - 1	W	W135	93
BACKYARD INVESTMENT GROUP	23154 W VALENCIA BLVD	1/2 - 1	W	W137	96
DR BORIS ZAK'S DENTAL OFFICE	26324 N BOUQUET CANYON	1/2 - 1	WSW	138	96
M&M HARRIGAN	23300 W CINEMA DR #112	1/2 - 1	WSW	X140	97
PAULI'S ITALIAN RESTAURANT	23300 CINEMA DR #109	1/2 - 1	WSW	X141	97
GERALD H. HEIDT CO.	23300 W CINEMA DR #112	1/2 - 1	WSW	X142	97
UGGLES RESTAURANT	23300 W CINEMA DR #112	1/2 - 1	WSW	X143	98
UNOCAL CORP SS	26279 N BOUQUET CANYON	1/2 - 1	WSW	X147	101
U-HAUL CO.	26230 BOUQUET CANYON RD	1 - 2	WSW	Y151	105
CAR WASH USA INC	26225 N BOUQUET CANYON	1 - 2	WSW	Y152	105
VACANT	26111 N BOUQUET CANYON	1 - 2	WSW	Z154	106
FRED SANDS	26111 N BOUQUET CANYON	1 - 2	WSW	Z155	106
PENSKE AUTO CENTER	23222 VALENCIA BLVD	1 - 2	W	AC165	114
P&M SERVICE STATIONS #987	***26015 BOUQUET CANYON RD***	***1 - 2***	***WSW***	***AA167***	***116***
GERMAN AUTO CENTERS INC.	23051 DRAYTON AVE	1 - 2	SW	AD176	122
DIRSHNER DODGE	26011 BOUQUET CANYON RD	1 - 2	SW	177	123
LA CO SAN DIST SAUGUS WRP	26200 SPRINGBROOK AVE	1 - 2	SW	AD181	126
I GANDARA TRUCKING REPAIR	25885 SAN FERNANDO RD	1 - 2	SW	AE183	126
LUNA'S TIRE SERVICE	25885 SAN FERNANDO RD	1 - 2	SW	AE184	126
HASA CHEMICALS INC	***23119 DRAYTON ST***	***1 - 2***	***SW***	***AF186***	***128***
KEYSOR CENTURY CORPORATION	***26000 SPRINGBROOK AVE.***	***1 - 2***	***SW***	***AF198***	***148***

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PLAZA CLARITA	***25845 SAN FERNANDO RD***	***1 - 2***	***SW***	***AG212***	***166***
RIDE WAY AUTO SERVICE	***25843 SAN FERNANDO RD***	***1 - 2***	***SW***	***AG213***	***167***
ACE ATUOMOTIVE	25835 SAN FERNANDO RD #	1 - 2	SW	AG216	170
INTERSTATE BATTERIES	25835 SAN FERNANDO RD #	1 - 2	SW	AG219	173
VALENCIA GRILLE	23320 VALENCIA BLVD	1 - 2	W	AH221	173
ZEKO'S RESTAURANT	23320 VALENCIA BLVD	1 - 2	W	AH222	174
N & M RESTAURANT	23460 CINEMA DR A	1 - 2	W	AI227	176
M.G. BARGAINS/SHORELINE U.S.A.	1139 E DOMINGUEZ ST E /	1 - 2	W	AH229	176
SCOTT CHIROPRACTIC - UNIT R	23360 VALENCIA BLVD #R	1 - 2	W	AJ230	177
GREAT WALL RESTAURANT	23360 W VALENCIA BLVD #	1 - 2	W	AJ233	180
HASA PRODUCTS CO INC	25950 SPRINGBROOK AVE	1 - 2	SW	234	180
VALENCIA HONDA	23551 W MAGIC MOUNTAIN	1 - 2	WSW	AK237	182
SUTTERS MILL RESTAURANT	23380 W VALENCIA BLVD	1 - 2	W	AJ238	182
NEWHALL LAND & FARMING CO	***23511 W VALENCIA BLVD***	***1 - 2***	***W***	***AJ240***	***183***
MIDAS MUFFLER & BRAKE SHOP	25745 SAN FERNANDO RD	1 - 2	SW	AL243	187
KISHO APANESE RESTAURANT	23430 W VALENCIA BLVD	1 - 2	W	AM244	188
FOOTHILL ELECTRIC MOTORS	25852 SPRINGBROOK AVE	1 - 2	SW	AN245	188
BEE & BEE MACHINE SHOP	25852 SPRINGBROOK AVE	1 - 2	SW	AN246	188
LEONARD'S MOLDED PRODUCTS	25847 SPRINGBROOK AVE	1 - 2	SW	AN249	190
FOOTHILL ELECTRIC MOTORS	25838 SPRINGBROOK AVE	1 - 2	SSW	AN251	190
A & K FRAME ALIGNMENT	25834 SPRINGBROOK AVE	1 - 2	SSW	AN255	191
MYERS PUMPING CO.	25824 SPRINGBROOK AVE	1 - 2	SSW	AN261	194
AUTO BODY SPECIALISTS	25823 SPRINGBROOK AVE	1 - 2	SSW	AN262	195
VIKING AUTO UPHOLSTERY	25819 SPRINGBROOK AVE	1 - 2	SSW	AN263	195
C. HANSEN DESIGN	25813 SPRINGBROOK AVE	1 - 2	SSW	AN266	198
FRONTIER AUTO SALES	***23621 CREEKSIDE RD***	***1 - 2***	***WSW***	***AQ267***	***198***
SEE I-10092	23747 W MAGIC MOUNTAIN	1 - 2	WSW	AR269	203
RICHIE'S HYDRAULICS	25799 SPRINGBROOK AVE	1 - 2	SSW	AS270	203
LA CO SHERIFF SANTA CLARITA	23740 MAGIC MOUNTAIN PK	1 - 2	WSW	AR272	204
BUNNY LUV CARROTS	23500 W VALENCIA BLVD	1 - 2	WSW	AT276	208
VALENCIA COMPANY	23510 VALENCIA BLVD	1 - 2	WSW	AT280	211
FRYE FAMILY PARTNERSHIP	23510 VALENCIA BLVD	1 - 2	WSW	AT283	213
EXXON USA #7-4944	***18308 E COLIMA RD***	***1 - 2***	***SSW***	***AS288***	***216***
BA A FRESH MEXICAN GRILL	23630 W VALENCIA BLVD F	1 - 2	WSW	294	223
RAINBOW COSMETIC LAB UNIT #8	25655 SPRINGBROOK AVE #	1 - 2	SSW	BB353	268
RUSS KALVINS HAIR CARE	25655 SPRINGBROOK AVE #	1 - 2	SSW	BB354	268
APPLEBEE'S GRILL AND BAR	23626 W VALENCIA BLVD	1 - 2	WSW	BC355	268
COAL MINER	23630 W VALENCIA BLVD #	1 - 2	WSW	BC356	269
SUSHI AI INC	23630 W VALENCIA BLVD #	1 - 2	WSW	BC357	269
LOUISE'S TRATTORIA	23630 W VALENCIA BLVD #	1 - 2	WSW	BC358	269
SATURN OF SANTA CLARITA	23647 VALENCIA BLVD	1 - 2	WSW	BC363	274
TERRY YORK CHEVROLET INC	23649 VALENCIA BLVD	1 - 2	WSW	BC365	275
SCOTT IRVIN CHEVROLET	***23649 VALENCIA BLVD***	***1 - 2***	***WSW***	***BC366***	***275***
POWER CHEVROLET VALENCIA	***23649 VALENCIA BLVD***	***1 - 2***	***WSW***	***BC367***	***278***
VALENCIA DODGE/TERRY YORK	23820 W CREEKSIDE RD	1 - 2	WSW	BH398	300
PARKWAY HUMMER	24075 W MAGIC MOUNTAIN	1 - 2	WSW	401	304
COCOS RESTAURANT #0849	23710 W VALENCIA BLVD	1 - 2	WSW	BN434	329
RESTAURANT ENTERPRISES GROUP	23710 W VALENCIA BLVD	1 - 2	WSW	BN435	330
PAPALINOS MARKET AND DELI	24135 W MAGIC MOUNTAIN	1 - 2	WSW	BP438	331
S & S AUTO GROUP	24159 W MAGIC MOUNTAIN	1 - 2	WSW	BP462	345
AMERICAN PIPE & CONSTR CO	24159 MAGIC MOUNTAIN PK	1 - 2	WSW	BP463	346
LIONS TOWING/LIONS MOTORS	24159 MAGIC MOUNTAIN PK	1 - 2	WSW	BP464	346
AUTONATION VALENCIA HONDA	23901 W CREEKSIDE RD	1 - 2	W	BS466	346
VALENCIA HONDA	23901 W CREEKSIDE RD	1 - 2	W	BS470	350
TERRY YORK'S VALENCIA HONDA	23901 W CREEKSIDE RD	1 - 2	W	BS472	351
MAGIC FORD	23920 W CREEKSIDE RD	1 - 2	W	BS484	359

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MAGIC FORD LINCOLN/MERCURY	23920 W CREEKSIDE RD	1 - 2	W	BS485	360
VALENCIA AMC EEP	23923 W CREEKSIDE RD	1 - 2	W	BS486	360
VALENCIA CHRYSLER EEP EAGLE	23923 W CREEKSIDE RD	1 - 2	W	BS487	360
VALENCIA EEP EAGLE	23923 W CREEKSIDE RD	1 - 2	W	BS492	363
NEWHALL-VALENCIA CIVIC CT	23747 W VALENCIA BLVD	1 - 2	WSW	BW498	369
MIMIS CAFE	24201 W MAGIC MOUNTAIN	1 - 2	WSW	BX499	369
TONY ROMAS	24201 W MAGIC MOUNTAIN	1 - 2	WSW	BX500	370
LA CO DPW B & S VALENCIA REFO	23757 W VALENCIA BLVD	1 - 2	WSW	BW508	375
INVESTIGATIONS-AREA7	23757 W VALENCIA BLVD	1 - 2	WSW	BW509	375
LA CO FIRE STATION 126	26320 CITRUS ST	1 - 2	WSW	514	379
VALENCIA ACURA	***23955 W CREEKSIDE RD***	***1 - 2***	***W***	***CA530***	***392***
NEWHALL SIGNAL NEWSPAPERS INC	24000 W CREEKSIDE RD	1 - 2	W	CA549	404
NEWHALL NEWSPAPERS INC	24000 W CREEKSIDE RD	1 - 2	W	CA551	404
FARGUSON BMW	24030 W CREEKSIDE RD	1 - 2	W	CC552	404
BMW VALENCIA	24030 W CREEKSIDE RD	1 - 2	W	CC556	408
SANTA CLARITA REBAR	26171 MONTOLLA LN	1 - 2	WSW	557	409
LEXUS OF VALENCIA	***24033 W CREEKSIDE RD***	***1 - 2***	***W***	***CC560***	***411***
VALENCIA MAZDA	24033 W CREEKSIDE RD	1 - 2	W	CC561	412
LBTH INC	23823 VALENCIA BLVD	1 - 2	WSW	CD563	415
PARKWAY OLDMOBILE-CADILLAC	***24050 W CREEKSIDE RD***	***1 - 2***	***W***	***CC569***	***418***
THE LODGE AT A TOWN CENTER	24509 TOWN CENTER DR	1 - 2	WSW	570	418
MOORE OLDSMOBILE/CADILLAC INC	24055 W CREEKSIDE RD	1 - 2	W	CC571	419
ENS CAFE	24341 W MAGIC MOUNTAIN	1 - 2	WSW	CE578	421
PARKWAY OLDSMOBILE CADILLAC IN	***24055 CREEKSIDE RD***	***1 - 2***	***W***	***CH587***	***430***
EL POLLO LOCO RESTAURANT	24365 W MAGIC MOUNTAIN	1 - 2	W	589	433
VOLKSWAGEN OF VALENCIA	24095 W CREEKSIDE RD	1 - 2	W	CH590	433
INFINITI VALENCIA	24095 W CREEKSIDE RD	1 - 2	W	CH595	436
VALENCIA NISSAN	24111 W CREEKSIDE RD	1 - 2	W	CH602	441
VALENCIA MITSUBISHI	24111 W CREEKSIDE RD	1 - 2	W	CH603	442
PUEBLO INC.	25446 SAN FERNANDO RD	1 - 2	SSW	CI604	442
KOKY WHELLS U.S.A., INC	1070 E DOMINGUEZ ST I	1 - 2	WSW	CJ606	442
MAGIC LINCOLN-MERCURY	24135 W CREEKSIDE RD	1 - 2	W	CK609	446
VALENCIA BODY SHOP INC.	26643 AUTO CENTER DR	1 - 2	W	CK613	450
PRIDE AUTO BODY	26640 AUTO CENTER DR	1 - 2	W	CK615	452
TARGET STORE #T0257	24425 MAGIC MOUNTAIN PK	1 - 2	W	CL619	455
CITY OF SANTA CLARITA REFERRAL	23920 VALENCIA BLVD 300	1 - 2	WSW	CJ632	463
SANTA CLARITA CITY HALL	23920 W VALENCIA BLVD	1 - 2	WSW	CJ633	463
MARU SUSHI RESTAURANT	24250 TOWNE CENTRE DR	1 - 2	WSW	CN635	464
VALENCIA TOWN CENTER	24201 W VALENCIA BLVD 1	1 - 2	WSW	CN639	466
MAGIC TRUCK SALES	24221 W CREEKSIDE RD	1 - 2	W	CQ644	471
VALENCIA CAR WASH CENTER	24233 W CREEKSIDE RD #A	1 - 2	W	CQ646	471
VALENCIA AUTO CARE CENTER	24233 W CREEKSIDE RD	1 - 2	W	CQ647	471
SMOG 2 SMOG	24233 W CREEKSIDE RD #B	1 - 2	W	CQ650	474
VALENCIA CARWASH CENTER	24233 W CREEKSIDE RD	1 - 2	W	CQ651	475
AAA MACHINE TOOL REBUILDING	25749 SARAPE CT	1 - 2	SW	652	475

Site Mitigation Complaint Control Log: The Los Angeles County Site Mitigation Log comes from Community Health Services.

A review of the LA Co. Site Mitigation list, as provided by EDR, has revealed that there are 4 LA Co. Site Mitigation sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
BOUQUET CLEANERS	27645 BOUQUET CANYON RD	1 - 2	NNE	BV494	365

EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir		Map ID	Page
SANTA CLARITA PLACE/1 HR. CLNR	26830 SECO CANYON RD	1/2 - 1	NNW	M73	54
TERRY YORK HONDA	23901 CREEKSIDE RD	1 - 2	W	BS469	350
TERRY YORK CHRYSLER	23923 CREEKSIDE RD	1 - 2	W	BS491	363

BROWNFIELDS DATABASES

VCP: 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.

A review of the VCP list, as provided by EDR, and dated 03/02/2004 has revealed that there are 2 VCP sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir		Map ID	Page
MERLE NORMAN COSMETICS, INC.	26407 GOLDEN VALLEY RD	1 - 2	SE	BT511	376

Lower Elevation	Address	Dist / Dir		Map ID	Page
THATCHER GLASS MANUFACTURING C	25655 SPRINGBROOK AVENU	1 - 2	SSW	BB348	259

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
PPG INDUSTRIES INC WORKS 24	RCRIS-SQG, FINDS, RCRIS-TSD, CORRACTS, CERC-NFRAP, LOS ANGELES CO. HMS
ACE CLEANERS	CLEANERS
GREEN VALLEY COUNTRY STOR	Cortese
UNION OIL COMPANY/UNOCAL	Cortese, EMI
USDA FS ANGELES NATIONAL FOREST	RCRIS-SQG, FINDS, CERC-NFRAP
PARKER AIRCRAFT CO	CERC-NFRAP
BILL SMALL'S MUD SUMP	SWF/LF
SAN FRANCISQUITO POWER PLANT#1	LUST
LA COUNTY DPW	LUST
UNION OIL COMPANY/UNOCAL STATION	LUST
MOBIL OIL CORP S/S #18-KCM	UST
NORTH OAKS SHELL	UST
USA MINI MART #823	UST
TEXACO/EQUILON #61-106-2065	UST
PACIFIC BELL CNCYCAPB/KC652	UST
UNITED OIL #69	UST
LA CO SHERIFF SANTA CLARITA	UST
POINTS WEST TRUCKING,INC.	UST
SAM'S MOBIL	UST
TOSCO/UNOCAL #31309	UST
NEWHALL LAND & FARMING CO	UST
TERRY YORK CHEVROLET INC	UST
RON TONKIN'S VALENCIA ACURA	UST
ASSOC. WATER WELL SUPPLY INC.	HIST UST
USA PETROLEUM COMPANY #82	HIST UST
NEWHALL LAND & FARMING WELL B8	AST
NEWHALL LAND FARMING WELL 156	AST
LOS ANGELES COUNTY FIRE DEPT	HAZNET
SAUGUS UNION SCHOOL DISTRICT	HAZNET
ALL VALLEY CARBURETOR	HAZNET
GAP ASSOCIATES	HAZNET
SHARON KENNEALLY	HAZNET
LOS ANGELES COUNTY FIRE DEPT	HAZNET
WELLS FARGO BANK	HAZNET
MERLE NORMAN COSMETICS SAUGUS	HAZNET
EXECUTIVE AUTOMOTIVE	HAZNET
THE CROISDALE GROUP	HAZNET
CSI CRIME SCENE INVESTIGATION	HAZNET
A/REALIABLE PAINTING	HAZNET
HOME DEPOT STORE#1055	HAZNET
COUNTY OF L.A.	HAZNET
VP MANUFACTURING INC	HAZNET
CARDINAL RESTAURANT SUPPLY	HAZNET
USDA FOREST SERVICE	HAZNET
LOS ANGELES COUNTY FIRE DEPT	HAZNET
SHELL SERVICE STATION 136099	FINDS, HAZNET, RCRIS-LQG
SHELL	HAZNET
CALIFO NIA INSTITUTE OF THE A TS	HAZNET
CENTURY AUTO CLINIC	HAZNET
CF ENGINEERING INC	HAZNET
NORTHPARK 3 AND 4	HAZNET
SHELL	HAZNET
DEPARTMENT OF TRANSPORTATION	RCRIS-SQG, FINDS
V P MANUFACTURING INC	RCRIS-SQG, FINDS
MOBIL OIL CORP NEWHALL STA	RCRIS-SQG, FINDS
EAST SIDE OF ANTELOPE FWY 14 1 MI	ERNS
PEACH VALLEY RD AT QUAIL LAKE	ERNS

EXECUTIVE SUMMARY

I-5 AT HUNDRY VALLEY RD	ERNS
100 FEET EAST OF CHRISTMAS TREE FA	ERNS
1.5 MI FM INTERSECTION OF SPRING C	ERNS
26524 GOLDEN VALLEY RD SUITE 503	ERNS
26516 GOLDEN VALLEY RD STE 301	ERNS
NORTHBOUND ON ANTELOPE VALLEY FREE	ERNS
BLUE CROSS LABORATORIES INCORPORAT	FINDS
CANYON SQUARE SHOP. CTR/MOBIL	LA Co. Site Mitigation
GOLDEN VALLEY RD. SANTA CLARITA	CA SLIC
NATURAL RIVER MANAGEMENT PLAN	CA WDS
5/126 INTER@SANTA CLAR BRIDGE	CA WDS
REPLACEMENT WELL U6	CA WDS
HART/PONY BASEBALL & AUTO MALL	CA WDS
OAK HILLS ELEMENTARY SCHOOL	SCH
TERRY YORK'S VALENCIA HONDA	LOS ANGELES CO. HMS
S.C. VALLEY RUBBER STAMP MFG.	LOS ANGELES CO. HMS
LUSTGARTEN OIL CO	LOS ANGELES CO. HMS
ALERT MOBILE REPAIR	LOS ANGELES CO. HMS
WOK EXPRESS	LOS ANGELES CO. HMS
RIO VISTA WTP PUMPING STA	LOS ANGELES CO. HMS
BOUQUET CYN OILFIELD	LOS ANGELES CO. HMS
GOOD GUYS AUTO REPAIR	LOS ANGELES CO. HMS
AQUA-FLO SUPPLY	LOS ANGELES CO. HMS
SAUGUS SUZUKI	LOS ANGELES CO. HMS
UNITED OIL CO	LOS ANGELES CO. HMS
MOON WOK	LOS ANGELES CO. HMS
PETIE PIES RESTAURANT	LOS ANGELES CO. HMS
MARIA'S ITALIAN KITCHEN	LOS ANGELES CO. HMS
AUTO BODY SPECIALISTS	LOS ANGELES CO. HMS
DOMINIK'S BODY SHOP	LOS ANGELES CO. HMS
BONELLI & SONS PRCSN	LOS ANGELES CO. HMS
LON'S DIESEL REPAIR	LOS ANGELES CO. HMS
GOLDEN VALLEY INDUSTRIAL	LOS ANGELES CO. HMS
CITY OF SANTA CLARITA	LOS ANGELES CO. HMS
PRO EX	LOS ANGELES CO. HMS
KARS BODY & PAINT	LOS ANGELES CO. HMS
STARR AUTO DETAIL	LOS ANGELES CO. HMS
MERLE NORMAN COSMETICS	LOS ANGELES CO. HMS
CALIF COLLECTABLE COACHCRAFT	LOS ANGELES CO. HMS
AUTO DISCOUNT CENTER	LOS ANGELES CO. HMS
THE AUTOLINE	LOS ANGELES CO. HMS
R & R ENGINEERING COMPANY	LOS ANGELES CO. HMS
GALAXY DIE & ENGINEERING INC.	LOS ANGELES CO. HMS
ALL AROUND SHELL METAL	LOS ANGELES CO. HMS
HMV MOLDES & TOOLS	LOS ANGELES CO. HMS
PACIFIC AUTOMOTIVE	LOS ANGELES CO. HMS
C & N AUTOMOTIVE	LOS ANGELES CO. HMS
A SUPERIOR WOODWORKS	LOS ANGELES CO. HMS
ACCURATE TRAILER HITCH & WELD	LOS ANGELES CO. HMS
C & F SHEET METAL	LOS ANGELES CO. HMS
ARB ENTERPRISES	LOS ANGELES CO. HMS
GOLDEN TRIANGLE INDL PARK	LOS ANGELES CO. HMS
FLAIR CLEANERS INC	LOS ANGELES CO. HMS
NEWHALL OIL FIELD	LOS ANGELES CO. HMS
KERNVIEW OIL CO	LOS ANGELES CO. HMS
WILLIAM S HART REGIONAL PARK	LOS ANGELES CO. HMS
HOME DEPOT, INC	LOS ANGELES CO. HMS
GATE KING PROPERTIES INC	LOS ANGELES CO. HMS
ATLANTIC OIL CO	LOS ANGELES CO. HMS
STRAIGHT LINE PERFORMANCE	LOS ANGELES CO. HMS
EXCLUSIVELY BRITISH & IMPORTS	LOS ANGELES CO. HMS
SKIN TIGHT	LOS ANGELES CO. HMS

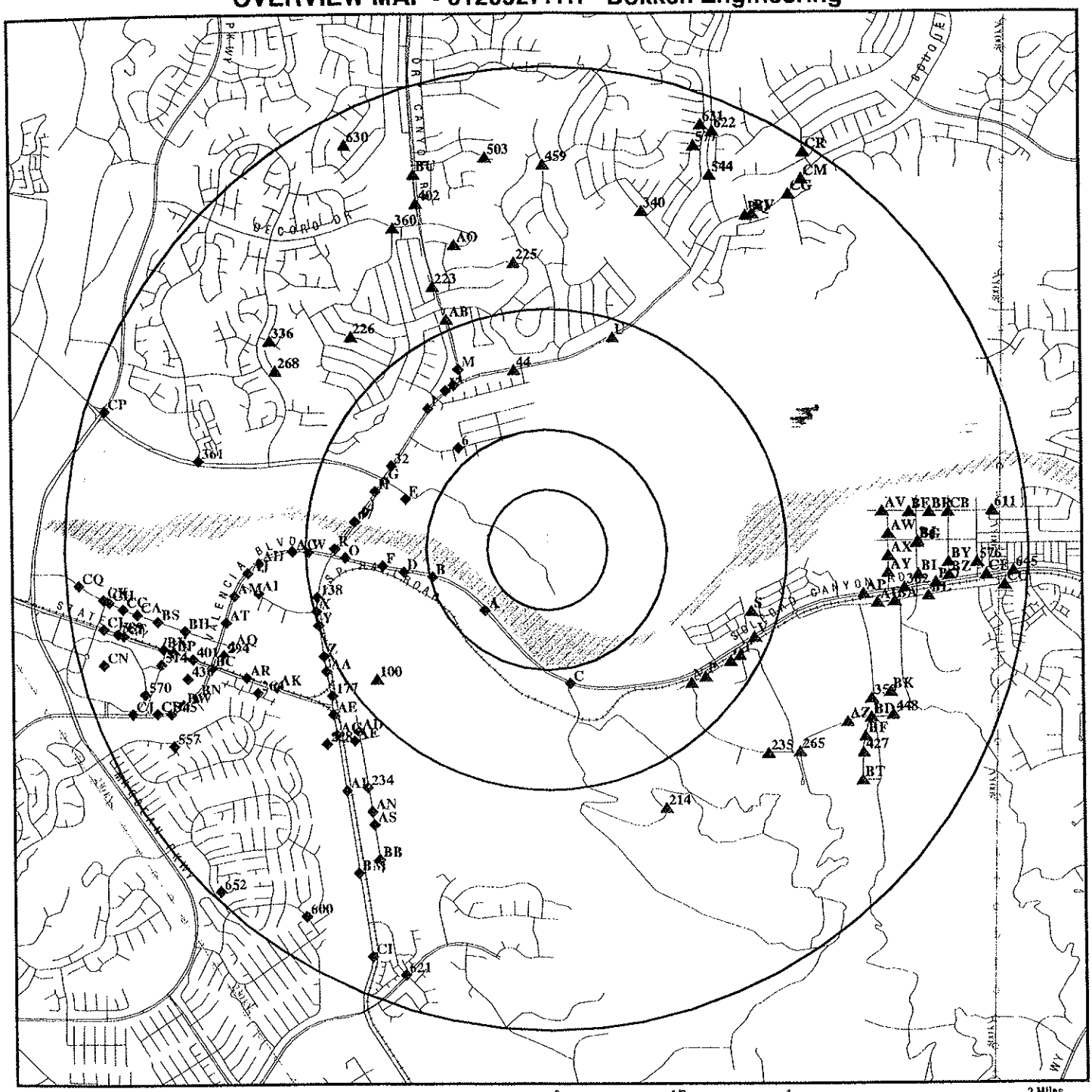
EXECUTIVE SUMMARY

PREMIER AUTOBODY FRAME	LOS ANGELES CO. HMS
BODEN'S CYLINDER HEADS	LOS ANGELES CO. HMS
CANYON AUTO ELECTRIC	LOS ANGELES CO. HMS
ARNECKES AUTOMOTIVE MACH. SHOP	LOS ANGELES CO. HMS
FINE CABINETS	LOS ANGELES CO. HMS
CYCLE ENGINEERING	LOS ANGELES CO. HMS
AMT SYSTEMS INC	LOS ANGELES CO. HMS
ACTION WOODWORKS	LOS ANGELES CO. HMS
C B C	LOS ANGELES CO. HMS
TLC WOODWORKS	LOS ANGELES CO. HMS
TLC WOODWORK	LOS ANGELES CO. HMS
THE BLOWERS SHOP	LOS ANGELES CO. HMS
ALL VALLEY CARBURETORS	LOS ANGELES CO. HMS
SOLAR DESIGN WINDOW TINTING	LOS ANGELES CO. HMS
ARENS INDUSTRIES INC.	LOS ANGELES CO. HMS
BRITISH CUSTOMS	LOS ANGELES CO. HMS
CLASSIC MANTELS	LOS ANGELES CO. HMS
PACIFIC WOOD PRODUCTS	LOS ANGELES CO. HMS
HERMANN MW CO.	LOS ANGELES CO. HMS
SANTA CLARITA AUTO AIR&RADTR	LOS ANGELES CO. HMS
ADVANCED HONDA-ACURA	LOS ANGELES CO. HMS
BARBS QUALITY REPAIR SERVICE	LOS ANGELES CO. HMS
CYCLE CONCEPTS INC.	LOS ANGELES CO. HMS
SCV TOYOTA	LOS ANGELES CO. HMS
A & S EXCHANGE	LOS ANGELES CO. HMS
BLACKSTOCK WOODWORKS	LOS ANGELES CO. HMS
OHN TOMMY WOODWORKS	LOS ANGELES CO. HMS
STANDARD FASTENERS MFG.	LOS ANGELES CO. HMS
TOM'S AUTOMOTIVE SERVICE	LOS ANGELES CO. HMS
VALENCIA VOLVO INDEPENDENT	LOS ANGELES CO. HMS
SERVICE MASTER	LOS ANGELES CO. HMS
SANTA CLARITA VALLEY HUBCAPS	LOS ANGELES CO. HMS
NICK'S AUTO REPAIR	LOS ANGELES CO. HMS
GASOLINE ALLEY	LOS ANGELES CO. HMS
MAN ON AUTO BODY & PAINT	LOS ANGELES CO. HMS
CUSTOM SPECIALTIES	LOS ANGELES CO. HMS
HAVE YOU SEEN MY TRUCK	LOS ANGELES CO. HMS
KWIK RIG INC.	LOS ANGELES CO. HMS
& S AUTOBODY & PAINT SUPPLY	LOS ANGELES CO. HMS
CANYON MOTORS INC.	LOS ANGELES CO. HMS
AUTOMOTIVE TECHNOLOGY	LOS ANGELES CO. HMS
SC CUSTOM CYCLES	LOS ANGELES CO. HMS
A AUTO DETAIL & ACCESSORIES	LOS ANGELES CO. HMS
CALIFORNIA TINT	LOS ANGELES CO. HMS
WINDSHIELDS WHOLESALE AUTO GLS	LOS ANGELES CO. HMS
AAMCO TRANSMISSIONS	LOS ANGELES CO. HMS
ACRYLIC CUSTOM CLLSN & BODY	LOS ANGELES CO. HMS
SAUMERS WELDING	LOS ANGELES CO. HMS
SHELL OIL CO	LOS ANGELES CO. HMS
SHELL OIL # 204-7050-0164	LOS ANGELES CO. HMS
NORTH OAKS SHELL	LOS ANGELES CO. HMS
SHELL OIL # 204-7050-0164	LOS ANGELES CO. HMS
CREATIVE ENERGY SOURCE	LOS ANGELES CO. HMS
FOUR M GRINDING	LOS ANGELES CO. HMS
NEWHALL LAND & FARMING CO	LOS ANGELES CO. HMS
NEWHALL LAND & FARMING CO	LOS ANGELES CO. HMS
POQUITO MAS RESTAURANT	LOS ANGELES CO. HMS
POQUITO MAS RESTAURANT (BLDG E)	LOS ANGELES CO. HMS
B 'S PIZZA, GRILL & BREWERY	LOS ANGELES CO. HMS
NEWHALL LAND & FARMING CO	LOS ANGELES CO. HMS
NEWHALL LAND & FARMING CO	LOS ANGELES CO. HMS
NYB GOURMET WRAPS, SUITE 165	LOS ANGELES CO. HMS

EXECUTIVE SUMMARY

NEWHALL LAND & FARMING/BLDG D&E	LOS ANGELES CO. HMS
OHNNY ROCKETS (BLDG D)	LOS ANGELES CO. HMS
KOO KOO ROO CALIFORNIA KITCHEN	LOS ANGELES CO. HMS
SALT CREEK GRILL	LOS ANGELES CO. HMS
YUROSEK & SON	LOS ANGELES CO. HMS
THE AN GROUP B (SISLEY)	LOS ANGELES CO. HMS
SEE FILE NO 23840-7A	LOS ANGELES CO. HMS
SPECTRUM CLUB	LOS ANGELES CO. HMS
RED ROBIN RESTAURANT	LOS ANGELES CO. HMS
PEDREGAL RESTAURANT	LOS ANGELES CO. HMS
HYATT VALENCIA & CONF CENTER	LOS ANGELES CO. HMS
IFFY LUBE	LOS ANGELES CO. HMS

OVERVIEW MAP - 01209277.1r - Dokken Engineering



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

TARGET PROPERTY:	Cross Valley Connector East	CUSTOMER:	Dokken Engineering
ADDRESS:	Cross Valley Corridor	CONTACT:	Sarah Peterson
CITY/STATE/ZIP:	SANTA CLARITA CA 91350	INQUIRY #:	01209277.1r
LAT/LONG:	34.4230 / 118.5253	DATE:	June 10, 2004 8:49 am

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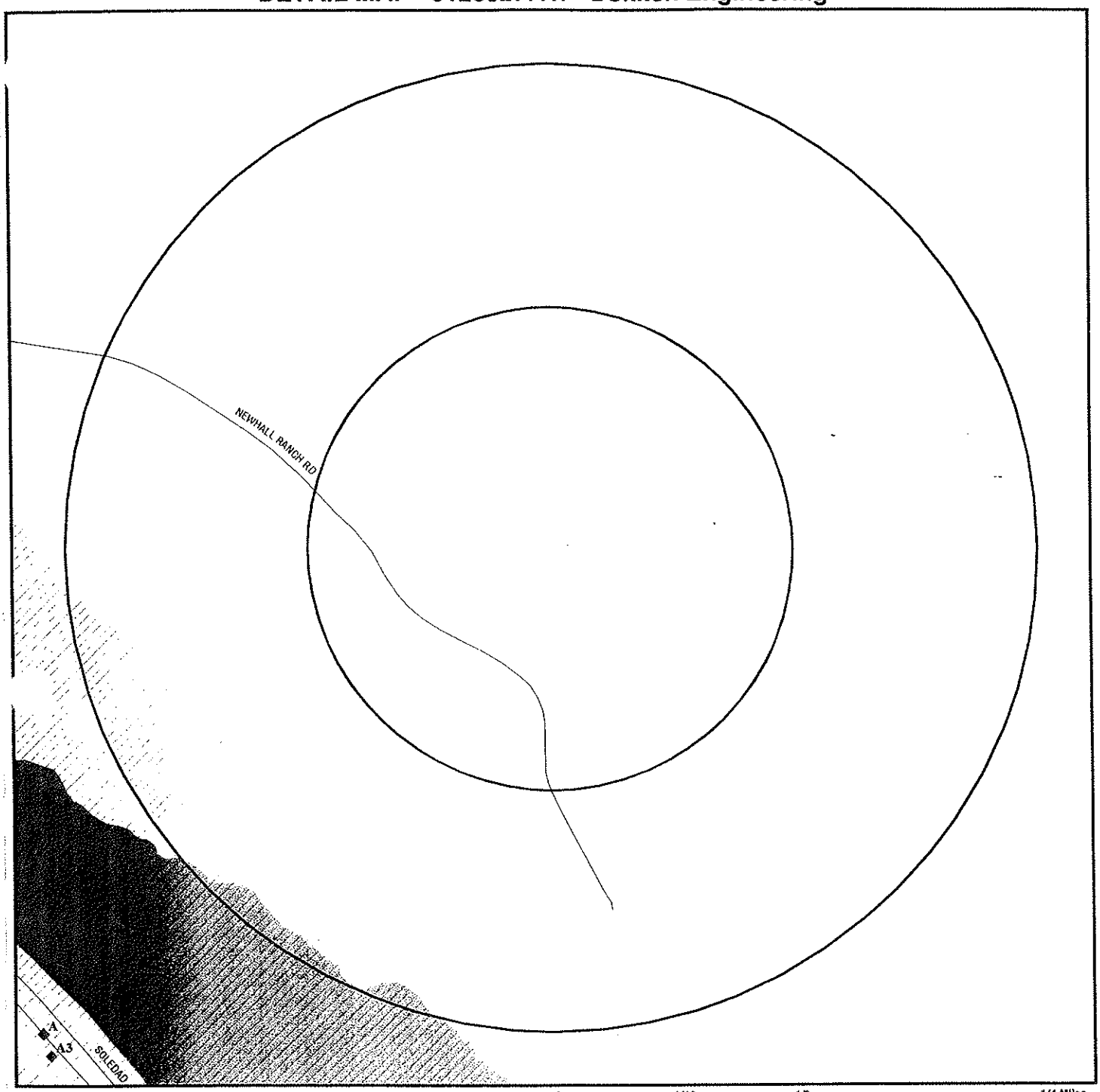
DETAIL MAP - 01209277.1r - Dokken Engineering



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

Coal Gasification Sites

Sensitive Receptors

National Priority List Sites

Landfill Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Oil & Gas pipelines

100-year flood zone

500-year flood zone

Areas of Concern

N

TARGET PROPERTY:	Cross Valley Connector East	CUSTOMER:	Dokken Engineering
ADDRESS:	Cross Valley Corridor	CONTACT:	Sarah Peterson
CITY/STATE/ZIP:	SANTA CLARITA CA 91350	INQUIRY #:	01209277.1r
LAT/LONG:	34.4230 / 118.5253	DATE:	June 10, 2004 8:53 am

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL ASTM STANDARD								
NPL		2.000	0	0	0	0	0	0
Proposed NPL		2.000	0	0	0	0	0	0
CERCLIS		2.000	0	0	0	1	4	5
CERC-NFRAP		2.000	0	0	0	2	1	3
CORRACTS		2.000	0	0	0	2	0	2
RCRIS-TSD		2.000	0	0	0	2	0	2
RCRIS Lg. Quan. Gen.		2.000	0	0	0	1	0	1
RCRIS Sm. Quan. Gen.		2.000	0	0	0	11	66	77
ERNS		2.000	0	0	0	9	15	24
STATE ASTM STANDARD								
AWP		2.000	0	0	0	1	0	1
Cal-Sites		2.000	0	0	0	1	0	1
CHMIRS		2.000	0	0	0	2	23	25
Cortese		2.000	0	0	0	11	15	26
Notify 65		2.000	0	0	0	0	0	0
Toxic Pits		2.000	0	0	0	0	0	0
State Landfill		2.000	0	0	0	0	1	1
WMUDS/SWAT		2.000	0	0	0	0	0	0
LUST		2.000	0	0	0	10	14	24
CA Bond Exp. Plan		2.000	0	0	0	0	0	0
UST		2.000	0	0	0	6	13	19
VCP		2.000	0	0	0	0	2	2
INDIAN UST		2.000	0	0	0	0	0	0
INDIAN LUST		2.000	0	0	0	0	0	0
CA FID UST		2.000	0	0	0	0	9	9
HIST UST		2.000	0	0	1	11	22	34
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		2.000	0	0	0	0	0	0
ROD		2.000	0	0	0	0	0	0
Delisted NPL		2.000	0	0	0	0	0	0
FINDS		2.000	0	0	0	12	67	79
HMIRS		2.000	0	0	0	0	0	0
MLTS		2.000	0	0	0	0	0	0
MINES		2.000	0	0	0	0	0	0
NPL Liens		2.000	0	0	0	0	0	0
PADS		2.000	0	0	0	0	0	0
FUDS		2.000	0	0	0	0	0	0
INDIAN RESERV		2.000	0	0	0	0	0	0
DOD		2.000	0	0	0	0	0	0
US BROWNFIELDS		2.000	0	0	0	0	0	0
RAATS		2.000	0	0	0	1	0	1
TRIS		2.000	0	0	0	0	1	1
TSCA		2.000	0	0	0	0	0	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SSTS		2.000	0	0	0	0	2	2
FTTS		2.000	0	0	0	0	0	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
AST		2.000	0	0	0	1	1	2
CLEANERS		2.000	0	0	0	3	11	14
CA WDS		2.000	0	0	0	2	8	10
DEED		2.000	0	0	0	0	0	0
SCH		2.000	0	0	0	0	1	1
NFA		2.000	0	0	0	1	1	2
EMI		2.000	0	0	0	1	6	7
REF		2.000	0	0	0	0	1	1
NFE		2.000	0	0	0	0	1	1
CA SLIC		2.000	0	0	0	2	1	3
HAZNET		2.000	0	0	0	33	190	223
Los Angeles Co. HMS		2.000	0	0	3	62	209	274
LA Co. Site Mitigation		2.000	0	0	0	1	3	4
AOCONCERN		2.000	0	0	0	0	0	0
EDR PROPRIETARY HISTORICAL DATABASES								
Coal Gas		2.000	0	0	0	0	0	0
BROWNFIELDS DATABASES								
US BROWNFIELDS		2.000	0	0	0	0	0	0
VCP		2.000	0	0	0	0	2	2

NOTES:

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

A1 SW 1/4-1/2 1917 ft. — **SAUGUS SWAP MEET/SAUGUS SPEEDW** — **HIST UST** — **U001567721** / **N/A**

22500 SOLEDAD CANYON RD
SAUGUS, CA 91350

Relative: Lower — **Site 1 of 3 in cluster A**

Actual: 1188 ft.

UST HIST:

Facility ID:	66476	Owner Name:	RODEO LAND CO.
Total Tanks:	3	Region:	STATE
Owner Address:	22500 SOLEDAD CYN. RD. SAUGUS, CA 91350		
Tank Used for:	WASTE		
Tank Num:	1	Container Num:	#1
Tank Capacity:	00003000	Year Installed:	Not reported
Type of Fuel:	1	Tank Construction:	X inches
Leak Detection:	None		
Contact Name:	RAYMOND J. WILKINGS, MGR.	Telephone:	(805) 259-3886
Facility Type:	Other	Other Type:	SPEEDWAY

Facility ID:	66476	Owner Name:	RODEO LAND CO.
Total Tanks:	3	Region:	STATE
Owner Address:	22500 SOLEDAD CYN. RD. SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	#2
Tank Capacity:	00003000	Year Installed:	Not reported
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	RAYMOND J. WILKINGS, MGR.	Telephone:	(805) 259-3886
Facility Type:	Other	Other Type:	SPEEDWAY

Facility ID:	66476	Owner Name:	RODEO LAND CO.
Total Tanks:	3	Region:	STATE
Owner Address:	22500 SOLEDAD CYN. RD. SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	3	Container Num:	#3
Tank Capacity:	00004000	Year Installed:	Not reported
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	RAYMOND J. WILKINGS, MGR.	Telephone:	(805) 259-3886
Facility Type:	Other	Other Type:	SPEEDWAY

A2 SW 1/4-1/2 1917 ft. — **SAUGUS SPEED WAY - SWAPMEET** — **LOS ANGELES CO. HMS** — **S105696687** / **N/A**

22500 W SOLEDAD CANYON RD
SANTA CLARITA, CA

Relative: Lower — **Site 2 of 3 in cluster A**

Actual: 1188 ft.

HMS:

Facility Id:	009029-004366		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	Removed		
Region:	Los Angeles County:		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
A3 SW 1/4-1/2 1944 ft.	**BONELLI PHAR PROD 22500 W SOLEDAD CANYON RD UNINCORPORATED, CA**	**LOS ANGELES CO. HMS**	**U003060423 N/A**

Site 3 of 3 in cluster A

Relative: Lower

Actual: 1189 ft.

HMS:

Facility Id:	004213-I04366		
Area:	7		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
B4 WSW 1/4-1/2 2573 ft.	**SANTA CLARITA WATER CO. 22722 SOLEDAD CANYON RD SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103945137 N/A**

Site 1 of 2 in cluster B

Relative: Lower

Actual: 1178 ft.

HMS:

Facility Id:	020322-028917		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
B5 WSW 1/2-1 2829 ft.	**SANTA CLARITA VALLEY DENTAL 22770 WEST SOLEDAD CYN RD SAUGUS, CA 91350**	**HAZNET**	**S103986698 N/A**

Site 2 of 2 in cluster B

Relative: Lower

Actual: 1185 ft.

HAZNET:

Gepaid:	CAL000099024
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.0625
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	R MEEKER/A MINDEL/M ORRO
Telephone:	(805) 259-9674
Mailing Address:	22770 SOLEDAD CANYON RD SANTA CLARITA, CA 91350 - 2629
County	Los Angeles

Gepaid:	CAL000099024
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.0625
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	R MEEKER/A MINDEL/M ORRO
Telephone:	(805) 259-9674
Mailing Address:	22770 SOLEDAD CANYON RD SANTA CLARITA, CA 91350 - 2629
County	Los Angeles

SANTA CLARITA VALLEY DENTAL (Continued) **S103986698**

Gepaid: CAL000099024
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .0625
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Not reported
Contact: R MEEKER/A MINDEL/M ORRO
Telephone: (805) 259-9674
Mailing Address: 22770 SOLEDAD CANYON RD
SANTA CLARITA, CA 91350 - 2629
County Los Angeles

Gepaid: CAL000099024
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .0625
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: R MEEKER/A MINDEL/M ORRO
Telephone: (805) 259-9674
Mailing Address: 22770 SOLEDAD CANYON RD
SANTA CLARITA, CA 91350 - 2629
County Los Angeles

Gepaid: CAL000099024
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .0625
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: R MEEKER/A MINDEL/M ORRO
Telephone: (805) 259-9674
Mailing Address: 22770 SOLEDAD CANYON RD
SANTA CLARITA, CA 91350 - 2629
County Los Angeles

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6 **SAUGUS UNION SCHOOL DIST** **HAZNET** **S102815982**
NW **22635 ESPUELLA DR** **N/A**
1/2-1 **SAUGUS, CA 91350**
2963 ft.

Relative: Lower
Actual: 1197 ft.

HAZNET:
Gepaid: CAL000082553
TSD EPA ID: CAD067786749
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 4.2140
Waste Category: Asbestos-containing waste
Disposal Method: Not reported
Contact: PUBLIC AGENCY
Telephone: (805) 297-8800
Mailing Address: 22211 WEST NEWHALL RANCH RD
SAUGUS, CA 91350
County Los Angeles

SAUGUS UNION SCHOOL DIST (Continued) **S102815982**

Gepaid:	CAL000082553
TSD EPA ID:	CAD067786749
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	67.4240
Waste Category:	Asbestos-containing waste
Disposal Method:	Disposal, Land Fill
Contact:	PUBLIC AGENCY
Telephone:	(805) 297-8800
Mailing Address:	22211 WEST NEWHALL RANCH RD SAUGUS, CA 91350
County	Los Angeles

C7 South 1/2-1 2978 ft. **WHITTAKER BERMITE/RAIL STATION - SITE A** **NFA** **S101480673**
22116 WEST SOLEDAD CANYON ROAD **N/A**
SANTA CLARITA, CA 91350

Site 1 of 8 in cluster C

Relative: Lower

Actual: 1205 ft.

NFA:

Facility ID	19281203
Dtsc Region Code :	3
Region Code Definition :	GLENDALE
County Code :	19
Site Name Under :	Not reported
Current Status Date :	10251994
Current Status Code :	NFA
Current Status :	NO FURTHER ACTION FOR DTSC
Lead Agency Code :	DTSC
Lead Agency :	DEPT OF TOXIC SUBSTANCES CONTROL
Site Type Code :	RP
Site Type :	RESPONSIBLE PARTY
National Priorities List :	N
Tier :	Not reported
Source Of Funding Code :	Not reported
Staff Member :	TCOTA
Supervisor :	Not reported
Sic Code :	28
Sic Code Definition :	MANU - CHEMICALS & ALLIED PRODUCTS
Site Mitigatn & Brnflds Reuse Prog (SMBR) Code :	SA
SMBR Branch :	SO CAL - GLENDALE
Regional Water Quality Control Board :	LA
RWQCB Definition :	LOS ANGELES
Site Access Controlled :	Not reported
Listed In Haz Wst & Substncs Sites List (CORTESE):	Not reported
Date Hazard Ranked :	Not reported
GW Contamination Suspected :	Not reported
# Of Sources Contributing To Contamination :	0.00000
Lat/Long :	0.00000° 0.00000′ 0.00000″ / 0.00000° 0.00000′ 0.00000″
Direction Lat :	Not reported
Direction Long :	Not reported
Lat/long Method :	Not reported
Entity Lat/long Coordinates Refer To :	Not reported
State Assembly Distt Code :	36
State Senate Distt Code :	17
Identifying Code:	SITES
ID Value:	19281087
Other ID Desc:	CALSITES ID NUMBER

WHITTAKER BERMITE/RAIL STATION - SITE A (Continued) **S101480673**

Alternate Name(s):	WHITTAKER BERMITE/RAIL STATION - SITE A
Alternate Name(s):	WHITTAKER CORPORATION
Alternate Name(s):	BERMITE DIVISION OF WHITTAKER CORP
Alternate Name(s):	SANTA CLARITA COMMUTER RAIL STATION
Address(es) :	22116 WEST SOLEDAD CANYON ROAD SANTA CLARITA, CA 91350
Address(es) :	22116 WEST SOLEDAD CANYON ROAD SAUGUS, CA 91350
Address(es) :	10.3-ACRE PARCEL AT SOLEDAD CYN PROPERTY SANTA CLARITA, CA 91350
Background Info :	This site is identified as a 10/3 acre Santa Clarity Commuter Rail Station Site. It comprises of a very small portion of the Whittaker Bermite RCRA facility.

Facility Id :	19281203
AWP Activities Code :	1.00000
DTSC Site Activity Code :	SS
Activity Code Def:	Not reported
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	05111992
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19281203
AWP Activities Code :	2.00000
DTSC Site Activity Code :	PEA
Activity Code Def:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	04301993
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19281203
AWP Activities Code :	3.00000
DTSC Site Activity Code :	SS
Activity Code Def:	Not reported
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	10251994
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC

WHITTAKER BERMITE/RAIL STATION - SITE A (Continued) **S101480673**

Cubic Yards Of Solids Removed At Completion : 0.00000
Gallons Of Liquid Removed Upon Completion : 0.00000
Cubic Yards Of Solids Treated Upon Completion : 0.00000
Actvty Deleted Via Commitmnt/Completns Screen : Not reported
Special Program Code: Not reported
Special Program : Not reported
Comments Date : 05041993
Comments : After review of a PEA and supplemental information, the Department concurred with the NFA recommendation. The site is identified as a 10.3 acre Santa Clarita Commuter Rail Statio site. It comprises a very small portion of the Whittaker Bermite RCRA facility. The subject site did not house any of the RCRA units.
The site composed of 976 acres and 23 acres out of it is in a perchase offer with the city of Santa Clarita for the construction of commuter rail road station. 10.3 acres of this 23 acres property is discussed under Site A. The Halifax Powder Company opened the facility in 1906 which was purchased by the Bermite Corp in 1930s. Whittaker Corp purchased the property from Bermite in 1967. The facility was closed in 1987. The buildings have been demolished and the facility is currently not operated. The explosives manufacturing plant at the Bermite Facility operated between 1906 and 1987. At the time of closure in 1987, 14 RCRA Unit with ISD Permits had operated at the site. A history of on-site disposal and accidental explosion had occurred at the site. The 10.3 acre parcel was used as a storage area in the past. The site is listed on cortese. Also, listed on RWQCB's LUST. Martin Industrial Plumbing used the site for storage of Haz Waste containers, drumpsters, and tanker-tracter trailers. Stained areas were noted on the property. A PEA is required due to the evidence onsite contamination.
Database verification project confirms NFA for DTSC.

C8
South
1/2-1
2978 ft.

Relative:
Lower

Actual:
1205 ft.

BERMITE DIV-WHITTAKER **LOS ANGELES CO. HMS** **U001567688**
22116 SOLEDAD CANYON RD **HIST UST** **N/A**
SAUGUS, CA 91350

Site 2 of 8 in cluster C

HMS:

Facility Id: 000930-I00975
Area: 7A
Facility Type: I09
Permit Number: 174 Permit Status: Closed
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 000930-000975
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

Facility Id: 000930-028916
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN

BERMITE DIV-WHITTAKER (Continued) **U001567688**

Region: Los Angeles County:

UST HIST:

Facility ID: 6423
Total Tanks: 4
Owner Address: 22116 W SOLEDAD CANYON RD
SAUGUS, CA 91350
Tank Used for: WASTE
Tank Num: 1
Tank Capacity: 00001000
Type of Fuel: Not reported
Leak Detection: Visual, None
Contact Name: Not reported
Facility Type: Other

Owner Name: BERMITE DIVISION OF WHITTAKER
Region: STATE
Container Num: 004
Year Installed: 1982
Tank Construction: 6" inches
Telephone: (805) 259-2241
Other Type: MFG.

Facility ID: 6423
Total Tanks: 4
Owner Address: 22116 W SOLEDAD CANYON RD
SAUGUS, CA 91350
Tank Used for: PRODUCT
Tank Num: 2
Tank Capacity: 00002000
Type of Fuel: REGULAR
Leak Detection: Stock Inventor, None
Contact Name: Not reported
Facility Type: Other

Owner Name: BERMITE DIVISION OF WHITTAKER
Region: STATE
Container Num: 001
Year Installed: Not reported
Tank Construction: Not Reported
Telephone: (805) 259-2241
Other Type: MFG.

Facility ID: 6423
Total Tanks: 4
Owner Address: 22116 W SOLEDAD CANYON RD
SAUGUS, CA 91350
Tank Used for: PRODUCT
Tank Num: 3
Tank Capacity: 00001000
Type of Fuel: DIESEL
Leak Detection: Stock Inventor, None
Contact Name: Not reported
Facility Type: Other

Owner Name: BERMITE DIVISION OF WHITTAKER
Region: STATE
Container Num: 003
Year Installed: Not reported
Tank Construction: Not Reported
Telephone: (805) 259-2241
Other Type: MFG.

Facility ID: 6423
Total Tanks: 4
Owner Address: 22116 W SOLEDAD CANYON RD
SAUGUS, CA 91350
Tank Used for: PRODUCT
Tank Num: 4
Tank Capacity: 00002000
Type of Fuel: UNLEADED
Leak Detection: Stock Inventor, None
Contact Name: Not reported
Facility Type: Other

Owner Name: BERMITE DIVISION OF WHITTAKER
Region: STATE
Container Num: 002
Year Installed: 1975
Tank Construction: Not Reported
Telephone: (805) 259-2241
Other Type: MFG.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
C9 South 1/2-1 2978 ft.	**BERMITE DIVISION 22116 WEST SOLEDAD CANYON ROAD SAUGUS, CA 91350**	**CERCLIS RCRIS-SQG FINDS LUST RCRIS-TSD RAATS CORRACTS**	**1000421644 CAD064573108**
Relative: Lower	**Site 3 of 8 in cluster C**		

Actual: 1205 ft.

CERCLIS Classification Data:

Site Incident Category: Not reported
Federal Facility: Not a Federal Facility
Non NPL Status: PA Start Needed
Ownership Status: Private
NPL Status: Not on the NPL
Contact: Jere Johnson
Contact Tel: (415) 972-3094
Contact Title: Not reported

CERCLIS Assessment History:

Assessment: RCRA FACILITY ASSESSMENT
Completed: 09/18/1987

CERCLIS Site Status:

Not reported

CORRACTS Data:

EPA Id: CAD064573108
Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 03/08/1993
Corrective Action: CA225IN - Stabilization Measures Evaluation, This facility is not , amenable to stabilization activity because of, a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available
2002 NAICS Title: Not Reported

EPA Id: CAD064573108
Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 06/09/1998
Corrective Action: CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority
2002 NAICS Title: Not Reported

EPA Id: CAD064573108
Region: 9
Area Name: AREA34
Actual Date: 11/21/1994
Corrective Action: CA600SR - Stabilization Measures Implemented , Primary measure is source removal and/or treatment
2002 NAICS Title: Not Reported

EPA Id: CAD064573108
Region: 9
Area Name: AREA34
Actual Date: 06/01/1996
Corrective Action: CA650 - Stabilization Construction Completed
2002 NAICS Title: Not Reported

EPA Id: CAD064573108
Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 08/06/1992
Corrective Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective

BERMITE DIVISION (Continued) **1000421644**

action priority
2002 NAICS Title: Not Reported

Click this hyperlink while viewing on your computer to access
3 additional CORRACTS record(s) in the EDR Site Report.

RCRIS Corrective Action Summary:

Event: CA Prioritization, Facility or area was assigned a high corrective action priority.
Event Date: 06/09/1998

Event: Current Human Exposures under Control, Current human exposures are NOT under control.
Event Date: 06/09/1998

Event: Igration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected.
Event Date: 06/09/1998

Event: Stabilization Construction Completed
Event Date: 06/01/1996

Event: RFI Imposition
Event Date: 11/21/1994

Event: Stabilization Measures Implemented, Primary measure is source removal and/or treatment (e.g., soil or waste excavation, in-situ soil treatment, off-site treatment).
Event Date: 11/21/1994

Event: Stabilization Measures Evaluation,This facility is not amenable to stabilization activity because of a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available.
Event Date: 03/08/1993

Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.
Event Date: 08/06/1992

RCRIS:

Owner: WHITTAKER BERMITE CORP
(213) 475-9411
EPA ID: CAD064573108

Contact: Not reported

Classification: TSDF
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 05/01/2003
Actual Date Achieved Compliance: Not reported

Regulation Violated: 264.90-94.F
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 03/26/2001
Actual Date Achieved Compliance: Not reported

Regulation Violated: 264.90-94.F

BERMITE DIVISION (Continued) **1000421644**

Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 03/26/2001
Actual Date Achieved Compliance: Not reported

Regulation Violated: 264.140-150.H
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 11/21/1991
Actual Date Achieved Compliance: 11/21/1996

Regulation Violated: 270
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 04/26/1991
Actual Date Achieved Compliance: Not reported

Regulation Violated: 264.90-94.F
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 06/25/1990
Actual Date Achieved Compliance: Not reported

Regulation Violated: 270
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 04/27/1989
Actual Date Achieved Compliance: 08/25/1989

Regulation Violated: 264.140-150.H
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 06/07/1988
Actual Date Achieved Compliance: 05/02/1989

Regulation Violated: 264.90-94.F
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 06/25/1985
Actual Date Achieved Compliance: 12/31/1989

Regulation Violated: 264.140-150.H
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 06/25/1985
Actual Date Achieved Compliance: 07/02/1986

Regulation Violated: 264.110-120.G
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 06/25/1985
Actual Date Achieved Compliance: 08/16/1986

Regulation Violated: 264.110-120.G
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 06/25/1985
Actual Date Achieved Compliance: 08/16/1986

There are 12 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance

NY MANIFEST

Click this hyperlink while viewing on your computer to access additional NY MANIFEST detail in the EDR Site Report.

CT MANIFEST

Click this hyperlink while viewing on your computer to access additional CT MANIFEST detail in the EDR Site Report.

BERMITE DIVISION (Continued) **1000421644**

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Comperhensive Environmental Response, Compensation and Liability Information System (CERCLIS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

State LUST:

Cross Street:	SIERRA HWY		
Qty Leaked:	0		
Case Number	R-00975		
Reg Board:	4		
Chemical:	Diesel		
Lead Agency:	Local Agency		
Local Agency :	19000		
Case Type:	Soil only		
Status:	Leak being confirmed		
Review Date:	1/2/86 0:00	Confirm Leak:	1/2/86 0:00
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	Not reported		
Release Date:	01/02/1986		
Cleanup Fund Id :	Not reported		
Discover Date :	01/02/1986		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	12/31/86 0:00		
Funding:	Not reported		
Staff Initials:	Not reported		
How Discovered:	Tank Closure		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	Corrosion		
Leak Source:	Tank		
MTBE Date :	Not reported		
Max MTBE GW :	Not reported		
MTBE Tested:	Not Required to be Tested.		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	Not reported		
Staff :	UNK		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	SANTA CLARA RIVER VA		
Operator :	PEARSON, JOHN		
Oversight Prgm:	LUST		
Review Date :	8/25/87 0:00		
Stop Date :	01/02/1986		
Work Suspended :	Not reported		
Responsible Party	BERMITE, DIVISION OF WHITTIKER		
RP Address:	22116 SOLEDAD CANYON, SAUGUS, CA 91350		
Global Id:	T0603704547		
Org Name:	Not reported		
Contact Person:	Not reported		
MTBE Conc:	Not reported		
Mtbe Fuel:	Not reported		

BERMITE DIVISION (Continued) **1000421644**

Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 01/02/1986
Lead Agency: Local Agency
Local Agency: 19000
Substance: Diesel
Case Type: Soil
Status: Leak being confirmed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 8/25/87
Date Leak Record Entered: 12/31/86
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : Not reported
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: BERMITE, DIVISION OF WHITTIKER
RP Address: 22116 SOLEDAD CANYON, SAUGUS, CA 91350
Significant Interim Remedial Action Taken: Not reported
Program : LUST
Lat / Long : 34 / -119
Local Agency Staff: Not reported
Summary : OLD CASE #00170
Hydrologic Basin # : SANTA CLARA RIVER VA
Beneficial Use : Not reported
Priority : Not reported
Cleanup Fund Id : Not reported
Suspended : Not reported
Local Case No : Not reported
Substance Quantity : 0
Abatement Method Used at the Site: Not reported
Operator : PEARSON, JOHN
Water System : Not reported
Well Name : Not reported
Approx. Dist To Production Well (ft) : 480.2548571
Assigned Name : Not reported
Source of Cleanup Funding: Not reported
Date the Leak was Discovered: 01/02/1986
How the Leak was Discovered: Tank Closure
How the Leak was Stopped: Not reported
Cause of Leak: Corrosion
Leak Source: Tank
Date The Leak was Stopped: 1/2/86
Date Confirmation Leak Began: 1/2/86
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported

BERMITE DIVISION (Continued) **1000421644**

Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	Not reported
Enforcement Action Date:	Not reported
Date Leak First Reported:	01/02/1986
Enforcement Type:	Not reported
Global ID :	T0603704547
Cross Street: SIERRA HWY	

C10 South 1/2-1 2978 ft. **WHITTAKER/BERMITE FACILITY** **Cal-Sites** **S105689608**
22116 SOLEDAD CANYON RD **AWP** **N/A**
SAUGUS, CA 91350

Site 4 of 8 in cluster C

Relative: Lower

Actual: 1205 ft.

CAL-SITES:

Facility ID	19281087	
Status:	AWP - ANNUAL WORKPLAN (AWP) - ACTIVE SITE	
Status Date:	04/14/1995	
Lead:	DTSC	
Region:	3 - GLENDALE	
Branch:	SA - SO CAL - GLENDALE	
File Name:	Not reported	
Status Name:	ANNUAL WORKPLAN - ACTIVE SITE	
Lead Agency:	DEPT OF TOXIC SUBSTANCES CONTROL	Not reported
NPL:	Not Listed	
SIC:	28 MANU - CHEMICALS & ALLIED PRODUCTS	
Facility Type:	RP	
Type Name:	RESPONSIBLE PARTY	
Staff Member Responsible for Site:	KBAEZ	
Supervisor Responsible for Site:	Not reported	
Region Water Control Board:	LA - LOS ANGELES	
Access:	Not reported	
Cortese:	Not reported	
Hazardous Ranking Score:	Not reported	
Date Site Hazard Ranked:	Not reported	
Groundwater Contamination:	Not reported	
No. of Contamination Sources:	0.00000	
Lat/Long:	0.00000' 0.00000' 0.00000" / 0.00000' 0.00000' 0.00000"	
Lat/long Method:	Not reported	
State Assembly District Code:	38	
State Senate District:	19	

Click this hyperlink while viewing on your computer to access additional CAL-SITES detail in the EDR Site Report.

AWP Facility ID:	19281087
Facility Type:	responsible party
Site Access Controlled :	Not reported
Region :	GLENDALE
SMBR Branch Unit:	SO CAL - GLENDALE
SMBR Branch Code :	SA
Site Name. :	Not reported
Current Status Date :	19/95/0414
Current Status :	ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency Code :	DTSC
Lead Agency :	DEPT OF TOXIC SUBSTANCES CONTROL
Awp Site Type:	RESPONSIBLE PARTY
NPL :	No

WHITTAKER/BERMITE FACILITY (Continued) **S105689608**

Tier Of AWP Site :	Not reported
Source Of Funding :	Not reported
Responsible Staff Member :	KBAEZ
Supervisor Responsible :	Not reported
Facility SIC :	MANU - CHEMICALS & ALLIED PRODUCTS
SIC Code :	28
RWQCB Associated With Site	LOS ANGELES
RWQCB Code :	LA
Site Listed HWS List :	Not reported
Hazard Ranking Score :	Not reported
Date Site Hazard Ranked :	Not reported
Groundwater Contamination :	Not reported
# Of Contamination Sources :	0.00000
Lat/long Method :	Not reported
Description Of Entity :	Not reported
State Assembly Distt Code :	38
State Senate District :	19
Lat/long :	0.00000° 0.00000′ 0.00000″ / 0.00000° 0.00000′ 0.00000″

C11 South 1/2-1 2978 ft. **SCLLC PORTA BELLA DEV. PROJECT** **CA WDS** **S105689273**
22116 W SOLEDAD CANYON RD **N/A**
SANTA CLARITA, CA 91350

Site 5 of 8 in cluster C

Relative: Lower

Actual: 1205 ft.

WDS:

Facility ID:	Santa Clara River 196800044		
Facility Contact	Chuang Yueh	Facility Telephone	(714) 429-2000
SIC Code:	919	SIC Code 2:	3999
Agency Name:	CH2M HILL		
Agency Address:	3 Hutton Centre Dr. St. 200 Santa Ana 92707		
Agency Contact:	Nancy Eldin	Agency Phone:	(714) 429-2000
Design Flow:	0.065 Million Gal/Day	Baseline Flow:	0.065 Million Gal/Day

Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)

Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

Agency Type: Private

Waste Type: Contaminated Ground Water - Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.

Threat to Water: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.

Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

Reclamation: No reclamation requirements associated with this facility.

POTW: The POTW Does not have an approved pretreatment program. Some POTWs may have local pretreatment programs that have not been approved by the regional board and/or EPA.

NPDES Number: CAG914001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

Subregion: 4

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
C12 South 1/2-1 2993 ft. Relative: Lower Actual: 1206 ft.	**WHITTAKER BERMITE/RAIL ST** **22116 SOLEDAD CNYN** **SAUGUS, CA 91350** **Site 6 of 8 in cluster C** CORTESE: Region: CORTESE Fac Address 2: Not reported	**Cortese**	**S105026559** **N/A**
C13 South 1/2-1 2993 ft. Relative: Lower Actual: 1206 ft.	**BERMITE, DIVISION OF WHIT** **22116 SOLEDAD CNYN** **SAUGUS, CA 91350** **Site 7 of 8 in cluster C** CORTESE: Region: CORTESE Fac Address 2: Not reported	**Cortese**	**S105026557** **N/A**
C14 South 1/2-1 2993 ft. Relative: Lower Actual: 1206 ft.	**WHITTAKER/BERMITE FACILIT** **22116 SOLEDAD CNYN** **SAUGUS, CA 91350** **Site 8 of 8 in cluster C** CORTESE: Region: CORTESE Fac Address 2: Not reported	**Cortese**	**S105026558** **N/A**
D15 West 1/2-1 3114 ft. Relative: Lower Actual: 1176 ft.	**AMERICAN MOTOR CYCLE** **22820 SOLEDAD CANYON RD** **SANTA CLARITA, CA** **Site 1 of 3 in cluster D** HMS: Facility Id: 020323-028918 Area: 7A Facility Type: Not reported Permit Number: 174 Permit Status: Not reported Facility Status: OPEN Region: Los Angeles County:	**LOS ANGELES CO. HMS**	**S103945138** **N/A**
D16 West 1/2-1 3174 ft. Relative: Lower Actual: 1174 ft.	**PIZZA HUT RESTAURANT #758132** **22830 W SOLEDAD CANYON RD** **SANTA CLARITA, CA** **Site 2 of 3 in cluster D** HMS: Facility Id: 008919-I16652 Area: 7A Facility Type: I01 Permit Number: 174 Permit Status: Closed Facility Status: Closed Region: Los Angeles County:	**LOS ANGELES CO. HMS**	**S103317719** **N/A**

D17 West 1/2-1 3231 ft. | **FIRST CARE WALK IN MEDICAL GR**
22840 SOLDEDAD CANYON RD
SANTA CLARITA, CA 91350 | **HAZNET** | **S103964431**
N/A

Site 3 of 3 in cluster D

Relative: Lower

Actual: 1176 ft.

HAZNET:

Gepaid:	CAL000080691
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.5294
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	RALPH FARINELLA/LARRY BARNHART
Telephone:	(000) 000-0000
Mailing Address:	22840 SOLEDAD CANYON RD SANTA CLARITA, CA 91350
County	Los Angeles

Gepaid:	CAL000080691
TSD EPA ID:	CAD982041980
Gen County:	Los Angeles
Tsd County:	Fresno
Tons:	.0200
Waste Category:	Metal sludge - Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
Disposal Method:	Treatment, Incineration
Contact:	RALPH FARINELLA/LARRY BARNHART
Telephone:	(000) 000-0000
Mailing Address:	22840 SOLEDAD CANYON RD SANTA CLARITA, CA 91350
County	Los Angeles

Gepaid:	CAL000080691
TSD EPA ID:	CAD982041980
Gen County:	Los Angeles
Tsd County:	Fresno
Tons:	.0000
Waste Category:	
Disposal Method:	Treatment, Incineration
Contact:	RALPH FARINELLA/LARRY BARNHART
Telephone:	(000) 000-0000
Mailing Address:	22840 SOLEDAD CANYON RD SANTA CLARITA, CA 91350
County	Los Angeles

Gepaid:	CAL000080691
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.3710
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	RALPH FARINELLA/LARRY BARNHART
Telephone:	(000) 000-0000
Mailing Address:	22840 SOLEDAD CANYON RD SANTA CLARITA, CA 91350
County	Los Angeles

FIRST CARE WALK IN MEDICAL GR (Continued) — **S103964431**

Gepaid: CAL000080691
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .1000
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: RALPH FARINELLA/LARRY BARNHART
Telephone: (000) 000-0000
Mailing Address: 22840 SOLEDAD CANYON RD
SANTA CLARITA, CA 91350
County Los Angeles

E18
WNW
1/2-1
3290 ft.
Relative: Lower
Actual: 1171 ft.

22211 W. NEWHALL RANCH RD — **ERNS** — **92284936**
22211 W. NEWHALL RANCH RD — **N/A**
FAUGUS, CA 91350

Site 1 of 5 in cluster E

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

E19
WNW
1/2-1
3292 ft.
Relative: Lower
Actual: 1171 ft.

SAUGUS UNION SD — **FINDS** — **1004442941**
22211 W NEWHALL RANCH RD — **110011661013**
SAUGUS, CA 91350

Site 2 of 5 in cluster E

FINDS:
Other Pertinent Environmental Activity Identified at Site:
National Compliance Database (NCDB)

E20
WNW
1/2-1
3292 ft.
Relative: Lower
Actual: 1171 ft.

SAUGUS — **HAZNET** — **1001614077**
22211 W NEWHALL RANCH RD — **N/A**
SAUGUS, CA 91350

Site 3 of 5 in cluster E

HAZNET:
Gepaid: CAD981429087
TSD EPA ID: AZD983478322
Gen County: Los Angeles
Tsd County: 99
Tons: 8.2154
Waste Category: Polychlorinated biphenyls and material containing PCB's
Disposal Method: Not reported
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 24930 AVENUE STANFORD
VALENCIA, CA 91355
County Los Angeles

SAUGUS (Continued) **1001614077**

Gepaid: CAD981429087
TSD EPA ID: AZC950823111
Gen County: Los Angeles
Tsd County: 99
Tons: 1.6856
Waste Category: Asbestos-containing waste
Disposal Method: Not reported
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 24930 AVENUE STANFORD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAD981429087
TSD EPA ID: CAT080022148
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 1.5220
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 24930 AVENUE STANFORD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAD981429087
TSD EPA ID: CAT080022148
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: .0550
Waste Category: Pesticides and other waste associated with pesticide production
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 24930 AVENUE STANFORD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAD981429087
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .6255
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 24930 AVENUE STANFORD
VALENCIA, CA 91355
County Los Angeles

Click this hyperlink while viewing on your computer to access
15 additional CA HAZNET record(s) in the EDR Site Report.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
E21 WNW 1/2-1 3292 ft.	**SAUGUS SCH DIST 22211 NEWHALL RANCH RD SAUGUS, CA 91350**	**HAZNET**	**S103986849 N/A**

Site 4 of 5 in cluster E

Relative: Lower

Actual: 1171 ft.

HAZNET:

Gepaid:	CAC001036560
TSD EPA ID:	CAD067786749
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	57.3104
Waste Category:	Asbestos-containing waste
Disposal Method:	Disposal, Land Fill
Contact:	THE NEWHALL LAND
Telephone:	(000) 000-0000
Mailing Address:	23823 VALENCIA BLVD VALENCIA, CA 91355
County	Los Angeles

Gepaid:	CAL000206728
TSD EPA ID:	CAD982444481
Gen County:	Los Angeles
Tsd County:	San Bernardino
Tons:	1.2000
Waste Category:	Other inorganic solid waste
Disposal Method:	Transfer Station
Contact:	BILL STAATS
Telephone:	(000) 000-0000
Mailing Address:	22211 NEWHALL RANCH RD SAUGUS, CA 91350
County	Los Angeles

E22 WNW 1/2-1 3292 ft.	**SAUGUS UNION SCHOOL DISTRICT 22211 NEWHALL RANCH RD SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S102064119 N/A**

Site 5 of 5 in cluster E

Relative: Lower

Actual: 1171 ft.

HMS:

Facility Id:	012851-013065		
Area:	7A		
Facility Type:	T1		
Permit Number:	174	Permit Status:	Removed
Facility Status:	Removed		
Region:	Los Angeles County:		

F23 West 1/2-1 3541 ft.	**SPORTS BAR & GRILL 22903 W SOLEDAD CANYON RD SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S102064159 N/A**

Site 1 of 6 in cluster F

Relative: Lower

Actual: 1168 ft.

HMS:

Facility Id:	006675-020528		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

F24
West
1/2-1
3541 ft.

Relative:
Lower

Actual:
1168 ft.

POPPIS — **LOS ANGELES CO. HMS** — **U003062543** / **N/A**
22903 W SOLEDAD CANYON RD
SANTA CLARITA, CA

Site 2 of 6 in cluster F

HMS:

Facility Id:	006675-I06899		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

F25
West
1/2-1
3590 ft.

Relative:
Lower

Actual:
1168 ft.

PEARSON AND CO — **LOS ANGELES CO. HMS** — **S105193895** / **N/A**
22911 W SOLEDAD CANYON RD
SANTA CLARITA, CA

Site 3 of 6 in cluster F

HMS:

Facility Id:	007913-036549		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

F26
West
1/2-1
3590 ft.

Relative:
Lower

Actual:
1168 ft.

KATI THAI — **LOS ANGELES CO. HMS** — **S104538368** / **N/A**
22911 W SOLEDAD CANYON RD
SANTA CLARITA, CA

Site 4 of 6 in cluster F

HMS:

Facility Id:	007913-040498		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		
Facility Id:	007913-025306		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Suspended
Facility Status:	Permit		
Region:	Los Angeles County:		
Facility Id:	007913-022127		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

F27
West
1/2-1
3590 ft.

Relative:
Lower

Actual:
1168 ft.

MADARIN EXPRESS
22911 W SOLEDAD CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **U002281550**
N/A

Site 5 of 6 in cluster F

HMS:

Facility Id:	007913-I08382		
Area:	7A		
Facility Type:	I02		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

Facility Id:	007913-008382		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

F28
West
1/2-1
3622 ft.

Relative:
Lower

Actual:
1168 ft.

NUMERO UNO #52
22917 W SOLEDAD CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **U003063511**
N/A

Site 6 of 6 in cluster F

HMS:

Facility Id:	007762-I08203		
Area:	7A		
Facility Type:	I02		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

G29
WNW
1/2-1
3853 ft.

Relative:
Lower

Actual:
1175 ft.

DISTRICT OFFICE
26590 BOUQUET CANYON RD
SAUGUS, CA 91350

HIST UST **U001567692**
N/A

Site 1 of 3 in cluster G

UST HIST:

Facility ID:	29386	Owner Name:	SAUGUS UNION SCHOOL DISTRICT
Total Tanks:	3	Region:	STATE
Owner Address:	26590 BOUQUET CANYON ROAD SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	2
Tank Capacity:	00002000	Year Installed:	1974
Type of Fuel:	REGULAR	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	DR. JAMES M. FOSTER	Telephone:	(805) 259-1886
Facility Type:	Other	Other Type:	OFFICE

Facility ID:	29386	Owner Name:	SAUGUS UNION SCHOOL DISTRICT
Total Tanks:	3	Region:	STATE
Owner Address:	26590 BOUQUET CANYON ROAD SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	1

DISTRICT OFFICE (Continued) **U001567692**

Tank Capacity:	00002000	Year Installed:	1974
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	DR. JAMES M. FOSTER	Telephone:	(805) 259-1886
Facility Type:	Other	Other Type:	OFFICE
Facility ID:	29386	Owner Name:	SAUGUS UNION SCHOOL DISTRICT
Total Tanks:	3	Region:	STATE
Owner Address:	26590 BOUQUET CANYON ROAD SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	3	Container Num:	3
Tank Capacity:	00000500	Year Installed:	Not reported
Type of Fuel:	Not reported	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	DR. JAMES M. FOSTER	Telephone:	(805) 259-1886
Facility Type:	Other	Other Type:	OFFICE

G30
WNW
1/2-1
3853 ft.

CAMP BOUQUET CANYON **LOS ANGELES CO. HMS** **U003060795**
26590 N BOUQUET CANYON RD **N/A**
SANTA CLARITA, CA

Site 2 of 3 in cluster G

Relative:
Lower

Actual:
1175 ft.

HMS:

Facility Id:	004644-I04822		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

G31
WNW
1/2-1
3862 ft.

SWENSENS BOUQUET CENTER **LOS ANGELES CO. HMS** **U003063560**
26586 N BOUQUET CANYON RD **N/A**
SANTA CLARITA, CA

Site 3 of 3 in cluster G

Relative:
Lower

Actual:
1174 ft.

HMS:

Facility Id:	007820-I08278		
Area:	7A		
Facility Type:	I02		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

32
WNW
1/2-1
3869 ft.

PRESIDENTE RESTAURANT **LOS ANGELES CO. HMS** **S102229787**
26625 N BOUQUET CANYON RD **N/A**
SANTA CLARITA, CA

Relative:
Lower

Actual:
1181 ft.

HMS:

Facility Id:	017343-023505		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
H33 WNW 1/2-1 3948 ft.	**SAV ON 9722 26550 BOUQUET CANYON RD SAUGUS, CA 91350**	**HAZNET**	**S105092268 N/A**

Site 1 of 7 in cluster H

Relative: Lower

Actual: 1172 ft.

HAZNET:

Gepaid:	CAL000208013
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.01
Waste Category:	Alkaline solution without metals (pH > 12.5)
Disposal Method:	Not reported
Contact:	LAURA KIDWAI, ENV PROJECTS SPE
Telephone:	(208) 395-5245
Mailing Address:	PO BOX 20 DEPT 74100 BOISE, ID 83726
County	Not reported

Gepaid:	CAL000208013
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.02
Waste Category:	Alkaline solution without metals (pH > 12.5)
Disposal Method:	Transfer Station
Contact:	LAURA KIDWAI, ENV PROJECTS SPE
Telephone:	(208) 395-5245
Mailing Address:	PO BOX 20 DEPT 74100 BOISE, ID 83726
County	Not reported

Gepaid:	CAL000208013
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.14
Waste Category:	Alkaline solution without metals (pH > 12.5)
Disposal Method:	Treatment, Tank
Contact:	LAURA KIDWAI, ENV PROJECTS SPE
Telephone:	(208) 395-5245
Mailing Address:	PO BOX 20 DEPT 74100 BOISE, ID 83726
County	Not reported

Gepaid:	CAL000208013
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.04
Waste Category:	Alkaline solution without metals (pH > 12.5)
Disposal Method:	Not reported
Contact:	LAURA KIDWAI, ENV PROJECTS SPE
Telephone:	(208) 395-5245
Mailing Address:	PO BOX 20 DEPT 74100 BOISE, ID 83726
County	Not reported

SAV ON 9722 (Continued) **S105092268**

Gepaid: CAL000208013
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.3
Waste Category: Alkaline solution without metals (pH > 12.5)
Disposal Method: Treatment, Tank
Contact: LAURA KIDWAI, ENV PROJECTS SPE
Telephone: (208) 395-5245
Mailing Address: PO BOX 20 DEPT 74100
BOISE, ID 83726
County Not reported

Click this hyperlink while viewing on your computer to access
2 additional CA HAZNET record(s) in the EDR Site Report.

H34
WNW
1/2-1
3948 ft.

HUGHES MARKETS INC **LOS ANGELES CO. HMS** **S104536197**
26550 N BOUQUET CANYON RD **N/A**
SANTA CLARITA, CA

Site 2 of 7 in cluster H

Relative:
Lower

Actual:
1172 ft.

HMS:
Facility Id: 007676-I08100
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

H35
WNW
1/2-1
3948 ft.

CLARKS DRUGS 21 **RCRIS-SQG** **1000818980**
26550 BOUQET CANYON RD **FINDS** **CAD983649211**
SAUGUS, CA 91350 **HAZNET**

Site 3 of 7 in cluster H

Relative:
Lower

Actual:
1172 ft.

RCRIS:
Owner: CLARKS DRUGS
(310) 306-4435
EPA ID: CAD983649211

Contact: DAVID CLYMER
(310) 494-9474

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

CLARKS DRUGS 21 (Continued) **1000818980**

HAZNET:

Gepaid:	CAD983649211
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	2.4311
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	CLARKS DRUGS
Telephone:	(310) 306-4435
Mailing Address:	26550 BOUQUET CANYON RD SANTA CLARITA, CA 91350 - 2353
County	Los Angeles

Gepaid:	CAD983649211
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.0475
Waste Category:	Metal sludge - Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
Disposal Method:	Recycler
Contact:	CLARKS DRUGS
Telephone:	(310) 306-4435
Mailing Address:	26550 BOUQUET CANYON RD SANTA CLARITA, CA 91350 - 2353
County	Los Angeles

Gepaid:	CAL000097355
TSD EPA ID:	KSD981506025
Gen County:	Los Angeles
Tsd County:	99
Tons:	.0500
Waste Category:	Alkaline solution without metals (pH > 12.5)
Disposal Method:	Not reported
Contact:	AMERICAN STORES PROPERTIES INC
Telephone:	(801) 961-5779
Mailing Address:	PO BOX 26948 SALT LAKE CITY, UT 84126 - 0948
County	Los Angeles

Gepaid:	CAL000097355
TSD EPA ID:	COD991300484
Gen County:	Los Angeles
Tsd County:	99
Tons:	.0400
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Transfer Station
Contact:	AMERICAN STORES PROPERTIES INC
Telephone:	(801) 961-5779
Mailing Address:	PO BOX 26948 SALT LAKE CITY, UT 84126 - 0948
County	Los Angeles

CLARKS DRUGS 21 (Continued) **1000818980**

Gepaid: CAL000097355
TSD EPA ID: COD991300484
Gen County: Los Angeles
Tsd County: 99
Tons: .0500
Waste Category: Alkaline solution without metals (pH > 12.5)
Disposal Method: Not reported
Contact: AMERICAN STORES PROPERTIES INC
Telephone: (801) 961-5779
Mailing Address: PO BOX 26948
SALT LAKE CITY, UT 84126 - 0948
County Los Angeles

Click this hyperlink while viewing on your computer to access
4 additional CA HAZNET record(s) in the EDR Site Report.

H36
WNW
1/2-1
3972 ft.

ORCHARD SUPPLY HARDWARE
26565 N BOUQUET CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S104536198**
N/A

Site 4 of 7 in cluster H

Relative:
Lower

Actual:
1173 ft.

HMS:
Facility Id: 017246-023319
Area: 7A
Facility Type: I04
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

H37
WNW
1/2-1
3990 ft.

WENDYS HAMBURGERS
26538 N BOUQUET CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **U003063775**
N/A

Site 5 of 7 in cluster H

Relative:
Lower

Actual:
1168 ft.

HMS:
Facility Id: 008061-I08566
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

I38
NW
1/2-1
3999 ft.

CHEVRON USA CO / CARWASH
26753 N BOUQUET CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S104827211**
N/A

Site 1 of 6 in cluster I

Relative:
Lower

Actual:
1190 ft.

HMS:
Facility Id: 008429-I09574
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
I39 NW 1/2-1 3999 ft.	**CHEVRON USA SS 092437** **26753 BOUQUET CANYON RD** **SANTA CLARITA, CA 91350**	**UST**	**U003776335** **N/A**

Site 2 of 6 in cluster I

Relative: Lower

Actual: 1190 ft.

State UST:

Facility ID:	009574
Region:	STATE
Local Agency:	19000

I40 NW 1/2-1 3999 ft.	**92437** **26753 BOUQUET CANYON RD** **SAUGUS, CA 91350**	**HAZNET** **HIST UST**	**U001567683** **N/A**

Site 3 of 6 in cluster I

Relative: Lower

Actual: 1190 ft.

HAZNET:

Gepaid:	CAL000159772
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.06
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Recycler
Contact:	KATHY NORRIS
Telephone:	(925) 842-5931
Mailing Address:	PO BOX 6004 SAN RAMON, CA 94583
County	Not reported

UST HIST:

Facility ID:	62259	Owner Name:	CHEVRON U.S.A. INC.
Total Tanks:	4	Region:	STATE
Owner Address:	575 MARKET SAN FRANCISCO, CA 94105		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00010000	Year Installed:	1970
Type of Fuel:	Not reported	Tank Construction:	0000250 unknown
Leak Detection:	Stock Inventor		
Contact Name:	NEIDIGH,KENNETH	Telephone:	(805) 259-2325
Facility Type:	Gas Station	Other Type:	Not reported

Facility ID:	62259	Owner Name:	CHEVRON U.S.A. INC.
Total Tanks:	4	Region:	STATE
Owner Address:	575 MARKET SAN FRANCISCO, CA 94105		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	2
Tank Capacity:	00010000	Year Installed:	1970
Type of Fuel:	Not reported	Tank Construction:	0000250 unknown
Leak Detection:	Stock Inventor		
Contact Name:	NEIDIGH,KENNETH	Telephone:	(805) 259-2325
Facility Type:	Gas Station	Other Type:	Not reported

Facility ID:	62259	Owner Name:	CHEVRON U.S.A. INC.
Total Tanks:	4	Region:	STATE
Owner Address:	575 MARKET SAN FRANCISCO, CA 94105		
Tank Used for:	PRODUCT		

92437 (Continued)

Tank Num:	3	Container Num:	3
Tank Capacity:	00005000	Year Installed:	1970
Type of Fuel:	Not reported	Tank Construction:	0000250 unknown
Leak Detection:	Stock Inventor		
Contact Name:	NEIDIGH,KENNETH	Telephone:	(805) 259-2325
Facility Type:	Gas Station	Other Type:	Not reported
Facility ID:	62259	Owner Name:	CHEVRON U.S.A. INC.
Total Tanks:	4	Region:	STATE
Owner Address:	575 MARKET SAN FRANCISCO, CA 94105		
Tank Used for:	WASTE		
Tank Num:	4	Container Num:	4
Tank Capacity:	00001000	Year Installed:	1970
Type of Fuel:	Not reported	Tank Construction:	0000130 unknown
Leak Detection:	Stock Inventor		
Contact Name:	NEIDIGH,KENNETH	Telephone:	(805) 259-2325
Facility Type:	Gas Station	Other Type:	Not reported

I41
NW
1/2-1
3999 ft.

CHEVRON STN 9 2437
26753 BOUQUET CANYON RD
SAUGUS, CA 91350

RCRIS-SQG 1000857051
FINDS CA0000031807

Site 4 of 6 in cluster I

Relative:
Lower

Actual:
1190 ft.

RCRIS:

Owner:	CHEVRON PRODUCTS COMPANY (925) 842-5931
EPA ID:	CA0000031807
Contact:	KATHY NORRIS (925) 842-5931
Classification:	Small Quantity Generator
TSDF Activities:	Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

I42
NW
1/2-1
3999 ft.

CHEVRON SERVICE STATION
26753 N BOUQUET CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS S102064464
N/A

Site 5 of 6 in cluster I

Relative:
Lower

Actual:
1190 ft.

HMS:

Facility Id:	008429-009574		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
H43 WN 1/ 4	**ACK-IN-THE-BOX** **26547 N BOUQUET CANYON RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S104536196** **N/A**
:4 ft.	**Site 6 of 7 in cluster H**		
Relative: Lower	HMS:		
Actual: 1170 ft.	Facility Id: 017100-022947 Area: 7A Facility Type: I01 Permit Number: 174 — Permit Status: Permit Facility Status: Permit Region: Los Angeles County:		
44 North 1/2-1 4026 ft.	**L A POLICE MISDEMEANANT F** **27000 N BOUQUET CANYON RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**U003057660** **N/A**
Relative: Higher	HMS:		
Actual: 1224 ft.	Facility Id: 001208-I01268 Area: 7A Facility Type: I00 Permit Number: 174 — Permit Status: Closed Facility Status: Closed Region: Los Angeles County:		
H45 WNW 1/2-1 4037 ft.	**BOSTON MARKET RESTAURANT** **26543 N BOUQUET CANYON RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S104536195** **N/A**
Relative: Lower	**Site 7 of 7 in cluster H**		
Actual: 1168 ft.	HMS: Facility Id: 016925-022697 Area: 7A Facility Type: I01 Permit Number: 174 — Permit Status: Permit Facility Status: Permit Region: Los Angeles County:		
I46 NW 1/2-1 4041 ft.	**BOUQUET AUTO PARTS** **26769 BOUQET CANYON RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103945459** **N/A**
Relative: Lower	**Site 6 of 6 in cluster I**		
Actual: 1191 ft.	HMS: Facility Id: 019823-028294 Area: 7A Facility Type: Not reported Permit Number: 174 — Permit Status: Not reported Facility Status: OPEN Region: Los Angeles County:		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
J47 WNW 1/2-1 4068 ft.	**VONS #1669 26518 N BOUQUET CANYON RD SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103945436 N/A**

Site 1 of 6 in cluster J

Relative: Lower

Actual: 1168 ft.

HMS:

Facility Id:	019051-027320		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Removed
Facility Status:	Permit		
Region:	Los Angeles County:		

J48 WNW 1/2-1 4083 ft.	**CARRIAGE TRADE CLEANERS 26512 BOUQUET CANYON SAUGUS, CA 91350**	**HAZNET CLEANERS**	**S103647886 N/A**

Site 2 of 6 in cluster J

Relative: Lower

Actual: 1168 ft.

CA Cleaners:

Inactive Date:	6/30/1998
EPA Id:	CAD981636384
Facility Address 2	Not reported
NAICS Code :	Not reported
Facility Active :	No
Mail Name :	Not reported
Mailing Address:	26512 BOUQUET CANYON RD SANTA CLARITA, CA 91350
Owner Name :	G1& M SHERPO, D KLINE
Mailing Address:	26512 BOUQUET CANYON SAUGUS, CA --
Owner Telephone	8052960606
Contact Name :	JERRY SHEPRO
Mailing Address:	INACT PER 98VQ FINAL NOTICE - BATCH 4/27 SAUGUS, CA --
Contact Telephone	8052960606
Contact Fax :	Not reported
Contact Email :	Not reported
Region Code :	3

HAZNET:

Gepaid:	CAD981636384
TSD EPA ID:	CAT000613992
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.1950
Waste Category:	Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method:	Transfer Station
Contact:	G1& M SHERPO, D KLINE
Telephone:	(805) 296-0606
Mailing Address:	26512 BOUQUET CANYON RD SANTA CLARITA, CA 91350
County	Los Angeles

CARRIAGE TRADE CLEANERS (Continued) **S103647886**

Gepaid: CAD981636384
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1950
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: G1& M SHERPO, D KLINE
Telephone: (805) 296-0606
Mailing Address: 26512 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
County Los Angeles

Gepaid: CAD981636384
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1950
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: G1& M SHERPO, D KLINE
Telephone: (805) 296-0606
Mailing Address: 26512 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
County Los Angeles

Gepaid: CAD981636384
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2925
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Transfer Station
Contact: G1& M SHERPO, D KLINE
Telephone: (805) 296-0606
Mailing Address: 26512 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
County Los Angeles

Gepaid: CAD981636384
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .8100
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: G1& M SHERPO, D KLINE
Telephone: (805) 296-0606
Mailing Address: 26512 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
County Los Angeles

Click this hyperlink while viewing on your computer to access
9 additional CA HAZNET record(s) in the EDR Site Report.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
J49 WNW 1/2-1 4083 ft.	**FLAMINGO CLEANERS 26512 BOQUET CYN RD SAUGUS, CA 91350**	**RCRIS-SQG FINDS**	**1000358291 CAD981636384**

Site 3 of 6 in cluster J

Relative: Lower

Actual: 1168 ft.

RCRIS:

Owner: NOT REQUIRED
(415) 555-1212
EPA ID: CAD981636384

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

K50 NW 1/2-1 4099 ft.	**BOUQUET CANYON SHELL 26801 N BOUQUET CANYON RD SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103392973 N/A**

Site 1 of 8 in cluster K

Relative: Lower

Actual: 1193 ft.

HMS:

Facility Id: 006245-026426
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 019946-028464
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

K51 NW 1/2-1 4099 ft.	**BOUQUET CANYON SHELL 26801 BOUQUET CANYON RD SANTA CLARITA, CA 91350**	**UST**	**U003778043 N/A**

Site 2 of 8 in cluster K

Relative: Lower

Actual: 1193 ft.

State UST:

Facility ID: 026426
Region: STATE
Local Agency: 19000

K52
NW
1/2-1
4099 ft.

SHELL OIL #204-7050-0347
26801 N BOUQUET CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S102064466**
N/A

Site 3 of 8 in cluster K

Relative:
Lower

Actual:
1193 ft.

HMS:

Facility Id:	006245-006462		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

Facility Id:	006245-I06462		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

K53
NW
1/2-1
4099 ft.

SHELL SERVICE STATION
26801 BOQUET CANYON RD
SAUGUS, CA 91350

RCRIS-SQG **1005441238**
FINDS **CAR000117010**
HAZNET
LUST

Site 4 of 8 in cluster K

Relative:
Lower

Actual:
1193 ft.

RCRIS:

Owner: EQUILON ENT LLC DBA S O P US
(713) 241-5036

EPA ID: CAR000117010

Contact: SONDRA BIENVENU
(713) 241-5036

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

LUST Region 4:

Report Date:	10/29/2001
Lead Agency:	Regional Board
Local Agency:	19000
Substance:	Gasoline
Case Type:	Groundwater
Status:	Preliminary site assessment underway
Region:	4
Staff:	MSH
Date Case Last Changed on Database:	Not reported
Date Leak Record Entered:	Not reported
Historical Max MTBE Date:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil :	Not reported
County:	Los Angeles
Organization :	Not reported

SHELL SERVICE STATION (Continued) **1005441238**

Regional Board:	4
Owner Contact: Not reported	
Responsible Party:	ED PADEN
RP Address:	PO BOX 7869
Significant Interim Remedial Action Taken:	Not reported
Program :	LUST
Lat / Long :	0 / 0
Local Agency Staff:	Not reported
Summary :	Not reported
Hydrologic Basin # :	Not reported
Beneficial Use :	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	006245-026426
Substance Quantity :	0
Abatement Method Used at the Site:	Not reported
Operator :	Not reported
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	Not reported
Assigned Name :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	10/24/2001
How the Leak was Discovered:	OM
How the Leak was Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	10/29/01
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	1/16/04
Pollution Characterization Began:	7/14/03
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	Not reported
Enforcement Action Date:	Not reported
Date Leak First Reported:	10/29/2001
Enforcement Type:	DLLET
Global ID :	T0603738731
Cross Street: Not reported	

HAZNET:

Gepaid:	CAR000117010
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	3.33
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Recycler
Contact:	Sondra Bienvenu
Telephone:	(713) 241-5036
Mailing Address:	PO BOX 2648
	Houston, TX 77252 - 2648
County	Not reported

K54 NW 1/2-1 4099 ft. | **LEON A. THOMPSON**
26801 BOUQUET CANYON RD
SAUGUS, CA 91350 | **HIST UST** | **U001567706** / **N/A**

Site 5 of 8 in cluster K

Relative: Lower

Actual: 1193 ft.

UST HIST:

Facility ID:	55591	Owner Name:	SHELL OIL COMPANY
Total Tanks:	4	Region:	STATE
Owner Address:	P.O. BOX 4848 ANAHEIM, CA 92803		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00012000	Year Installed:	1982
Type of Fuel:	DIESEL	Tank Construction:	1/4 inches
Leak Detection:	Stock Inventor, GW Monitoring Well		
Contact Name:	Not reported	Telephone:	(805) 259-9797
Facility Type:	Gas Station	Other Type:	Not reported

Facility ID:	55591	Owner Name:	SHELL OIL COMPANY
Total Tanks:	4	Region:	STATE
Owner Address:	P.O. BOX 4848 ANAHEIM, CA 92803		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	2
Tank Capacity:	00010000	Year Installed:	1982
Type of Fuel:	UNLEADED	Tank Construction:	1/4 inches
Leak Detection:	Stock Inventor, GW Monitoring Well		
Contact Name:	Not reported	Telephone:	(805) 259-9797
Facility Type:	Gas Station	Other Type:	Not reported

Facility ID:	55591	Owner Name:	SHELL OIL COMPANY
Total Tanks:	4	Region:	STATE
Owner Address:	P.O. BOX 4848 ANAHEIM, CA 92803		
Tank Used for:	PRODUCT		
Tank Num:	3	Container Num:	3
Tank Capacity:	00010000	Year Installed:	1982
Type of Fuel:	REGULAR	Tank Construction:	1/4 inches
Leak Detection:	Stock Inventor, GW Monitoring Well		
Contact Name:	Not reported	Telephone:	(805) 259-9797
Facility Type:	Gas Station	Other Type:	Not reported

Facility ID:	55591	Owner Name:	SHELL OIL COMPANY
Total Tanks:	4	Region:	STATE
Owner Address:	P.O. BOX 4848 ANAHEIM, CA 92803		
Tank Used for:	PRODUCT		
Tank Num:	4	Container Num:	4
Tank Capacity:	00010000	Year Installed:	1982
Type of Fuel:	PREMIUM	Tank Construction:	1/4 inches
Leak Detection:	Stock Inventor, GW Monitoring Well		
Contact Name:	Not reported	Telephone:	(805) 259-9797
Facility Type:	Gas Station	Other Type:	Not reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
K55 NW 1/2-1 4099 ft.	**SHELL SERVICE STATION 26801 BOUQUET CANYON SANTA CLARITA, CA 91350**	**LUST**	**S106162063 N/A**

Site 6 of 8 in cluster K

Relative: Lower

Actual: 1193 ft.

State LUST:

Cross Street:	Not reported		
Qty Leaked:	0		
Case Number	I-06462A		
Reg Board:	4		
Chemical:	Gasoline		
Lead Agency:	Regional Board		
Local Agency :	19000		
Case Type:	Other ground water affected		
Status:	Pollution Characterization		
Review Date:	10/29/01 0:00	Confirm Leak:	10/29/01 0:00
Workplan:	10/29/01 0:00	Prelim Assess:	10/29/01 0:00
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	Not reported		
Release Date:	10/29/2001		
Cleanup Fund Id :	Not reported		
Discover Date :	10/24/2001		
Enforcement Dt :	Not reported		
Enf Type:	DLSEL		
Enter Date :	Not reported		
Funding:	Not reported		
Staff Initials:	Not reported		
How Discovered:	OM		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	UNK		
Leak Source:	UNK		
MTBE Date :	Not reported		
Max MTBE GW :	Not reported		
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	Not reported		
Staff :	MSH		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	Not reported		
Operator :	Not reported		
Oversight Prgm:	LUST		
Review Date :	Not reported		
Stop Date :	/ /		
Work Suspended :	Not reported		
Responsible Party	ED PADEN		
RP Address:	PO BOX 7869		
Global Id:	T0603738731		
Org Name:	Not reported		
Contact Person:	Not reported		
MTBE Conc:	Not reported		
Mtbe Fuel:	Not reported		
Water System Name:	Not reported		

SHELL SERVICE STATION (Continued) **S106162063**

Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

K56
NW
1/2-1
4099 ft.

Relative:
Lower

Actual:
1193 ft.

SHELL
26801 BOUQUET CANYON RD
SAUGUS, CA 91350

HAZNET **S102436873**
LUST **N/A**
Cortese

Site 7 of 8 in cluster K

State LUST:

Cross Street:	SECO		
Qty Leaked:	0		
Case Number	I-06462		
Reg Board:	4		
Chemical:	Gasoline		
Lead Agency:	Regional Board		
Local Agency :	19000		
Case Type:	Soil only		
Status:	Case Closed		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	1/20/92 0:00	Remed Plan:	1/20/92 0:00
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	7/30/96 0:00		
Release Date:	10/29/2001		
Cleanup Fund Id :	Not reported		
Discover Date :	10/24/2001		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	Not reported		
Funding:	Not reported		
Staff Initials:	Not reported		
How Discovered:	OM		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	UNK		
Leak Source:	UNK		
MTBE Date :	9/10/02 0:00		
Max MTBE GW :	9900 Parts per Billion		
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	Not reported		
Staff :	UNK		
GW Qualifier :	=		
Max MTBE Soil :	3800 Parts per Million		
Soil Qualifier :	=		
Hydr Basin #:	SANTA CLARA RIVER VA		
Operator :	THOMPSON,LEON		
Oversight Prgm:	LUST		
Review Date :	Not reported		
Stop Date :	11/30/1988		
Work Suspended :	Not reported		
Responsible Party	SHELL OIL CO.		
RP Address:	P.O. BOX 4848, ANAHEIM, CA 92803	D	
Global Id:	T0603703215		

SHELL (Continued) **S102436873**

Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 10/29/2001
Lead Agency: Regional Board
Local Agency: 19000
Substance: Gasoline
Case Type: Soil
Status: Case Closed
Region: 4
Staff: UNK
Date Case Last Changed on Database: Not reported
Date Leak Record Entered: Not reported
Historical Max MTBE Date: 9/10/02
GW Qualifier: =
Soil Qualifier: =
Hist Max MTBE Conc in Groundwater: 9900
Hist Max MTBE Conc in Soil : 3800
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: SHELL OIL CO.
RP Address: P.O. BOX 4848, ANAHEIM, CA 92803 D
Significant Interim Remedial Action Taken: Not reported
Program : LUST
Lat / Long : 34 / -119
Local Agency Staff: Not reported
Summary : 3/1/91 4TH QUARTER REPORT.
4/25/91 1ST QUARTER REPORT.
8/1/91 2ND QUARTER REPORT.
10/16/96 TRANSMITTAL OF
FINAL G/W MONITORING
Hydrologic Basin # : SANTA CLARA RIVER VA
Beneficial Use : Not reported
Priority : Not reported
Cleanup Fund Id : Not reported
Suspended : Not reported
Local Case No : Not reported
Substance Quantity : 0
Abatement Method Used at the Site: Not reported
Operator : THOMPSON,LEON
Water System : Not reported
Well Name : Not reported
Approx. Dist To Production Well (ft) : 574.6371284
Assigned Name : Not reported
Source of Cleanup Funding: Not reported
Date the Leak was Discovered: 10/24/2001
How the Leak was Discovered: OM
How the Leak was Stopped: Not reported

SHELL (Continued) **S102436873**

Cause of Leak: UNK
Leak Source: UNK
Date The Leak was Stopped: 11/30/88
Date Confirmation Leak Began: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: 5/24/89
Remediation Plan Submitted: 1/20/92
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Date the Case was Closed: 7/30/96
Enforcement Action Date: Not reported
Date Leak First Reported: 10/29/2001
Enforcement Type: Not reported
Global ID : T0603703215
Cross Street: SECO

HAZNET:
Gepaid: CAL000162212
TSD EPA ID: CAD982484933
Gen County: Los Angeles
Tsd County: 7
Tons: .6500
Waste Category: Empty containers less than 30 gallons
Disposal Method: Disposal, Other
Contact: EQUILON ENTERPRISES LLC
Telephone: (713) 241-2258
Mailing Address: PO BOX 4453
HOUSTON, TX 77210 - 4453
County Los Angeles

Gepaid: CAC002552610
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 4.33
Waste Category: Oil/water separation sludge
Disposal Method: Recycler
Contact: steven a thomson
Telephone: (661) 297-7484
Mailing Address: 26801 BOUQUET CANYON RD
SAUGUS, CA 91350 - 2372
County Not reported

CORTESE:
Region: CORTESE
Fac Address 2: 26801 BOUQUET CANYON RD

J57 **BURGER KING RESTAURANT** **LOS ANGELES CO. HMS** **S104536194**
West **26480 N BOUQUET CANYON RD** **N/A**
1/2-1 **SANTA CLARITA, CA**
4137 ft.

Site 4 of 6 in cluster J

Relative:
Lower

Actual:
1165 ft.

HMS:
Facility Id: 017165-023081
Area: 7A
Facility Type: I02
Permit Number: 174 Permit Status: Permit
Facility Status: Permit

BURGER KING RESTAURANT (Continued) **S104536194**

Region: Los Angeles County:

K58 NNW 1/2-1 4137 ft. | **RITE AID NO 5555**
26825 BOUQUET CYN RD
SAUGUS, CA 91350 | **RCRIS-SQG** **1000857175**
FINDS **CA0000068890**
HAZNET

Site 8 of 8 in cluster K

Relative: Lower

Actual: 1198 ft.

RCRIS:
Owner: RITE AID
(717) 761-2633
EPA ID: CA0000068890

Contact: GAIL RATAJCZAK
(800) 769-5845

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CA0000068890
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: 3.0355
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: RITE AID CORP
Telephone: (717) 761-2633
Mailing Address: 4020 STIRRUP CREEK DRIVE SUITE 211
DURHAM, NC 27703 - 3165
County Los Angeles

Gepaid: CA0000068890
TSD EPA ID: CAT000613976
Gen County: Los Angeles
Tsd County: Orange
Tons: .1678
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Transfer Station
Contact: RITE AID CORP
Telephone: (717) 761-2633
Mailing Address: 4020 STIRRUP CREEK DRIVE SUITE 211
DURHAM, NC 27703 - 3165
County Los Angeles

Gepaid: CA0000068890
TSD EPA ID: CAT000613976
Gen County: Los Angeles
Tsd County: Orange
Tons: .0035
Waste Category:
Disposal Method: Transfer Station
Contact: RITE AID CORP
Telephone: (717) 761-2633

RITE AID NO 5555 (Continued) **1000857175**

Mailing Address: 4020 STIRRUP CREEK DRIVE SUITE 211
DURHAM, NC 27703 - 3165
County Los Angeles

Gepaid: CA0000068890
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .3919
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: RITE AID CORP
Telephone: (717) 761-2633
Mailing Address: 4020 STIRRUP CREEK DRIVE SUITE 211
DURHAM, NC 27703 - 3165
County Los Angeles

Gepaid: CA0000068890
TSD EPA ID: CAT000613976
Gen County: Los Angeles
Tsd County: Orange
Tons: .1459
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: RITE AID CORP
Telephone: (717) 761-2633
Mailing Address: 4020 STIRRUP CREEK DRIVE SUITE 211
DURHAM, NC 27703 - 3165
County Los Angeles

Click this hyperlink while viewing on your computer to access
4 additional CA HAZNET record(s) in the EDR Site Report.

L59
NNW
1/2-1
4146 ft.

CHEVRON USA PRODUCTS COMPANY
26753 BOQUET CANYON
SAUGUS, CA 91350

HAZNET **S103648043**
N/A

Site 1 of 2 in cluster L

Relative:
Lower

Actual:
1200 ft.

HAZNET:
Gepaid: CAC000713304
TSD EPA ID: CAT080010101
Gen County: Los Angeles
Tsd County: San Diego
Tons: .0208
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Transfer Station
Contact: CHEVRON USA PRODUCTS COMPANY
Telephone: (310) 694-7452
Mailing Address: PO BOX 2833
LA HABRA, CA 90632
County Los Angeles

L60 NNW 1/2-1 4148 ft. — **COUSINS BURGERS** — **LOS ANGELES CO. HMS** — **S104913316 / N/A**
26851 N BOUQUET CANYON RD
SANTA CLARITA, CA

Site 2 of 2 in cluster L

Relative: Lower **Actual: 1200 ft.**

HMS:
Facility Id: 026468-036131
Area: 7A
Facility Type: I01
Permit Number: 174 — Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

M61 NNW 1/2-1 4157 ft. — **SAFEWAY STORES INC #1024** — **LOS ANGELES CO. HMS** — **U003062140 / N/A**
26877 BOUQUET CANYON RD
SANTA CLARITA, CA

Site 1 of 10 in cluster M

Relative: Lower **Actual: 1204 ft.**

HMS:
Facility Id: 006195-I06411
Area: 7A
Facility Type: I00
Permit Number: 174 — Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

J62 West 1/2-1 4185 ft. — **DAKOTA VENTURES,LLC** — **UST** — **U003778157 / N/A**
26485 BOUQUET CANYON RD
SANTA CLARITA, CA 91350

Site 5 of 6 in cluster J

Relative: Lower **Actual: 1164 ft.**

State UST:
Facility ID: 027259
Region: STATE
Local Agency: 19000

J63 West 1/2-1 4185 ft. — **DAKOTA VENTURES, LLC** — **LOS ANGELES CO. HMS** — **S103945429 / N/A**
26485 N BOUQUET CANYON RD
SANTA CLARITA, CA

Site 6 of 6 in cluster J

Relative: Lower **Actual: 1164 ft.**

HMS:
Facility Id: 018997-027259
Area: 7A
Facility Type: T1
Permit Number: 174 — Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 018997-027815
Area: 7A
Facility Type: I01
Permit Number: 174 — Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

DAKOTA VENTURES, LLC (Continued) — **S103945429**

Facility Id: 018997-037607
Area: 7A
Facility Type: Not reported
Permit Number: 174 — Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

Facility Id: 018997-040287
Area: 7A
Facility Type: Not reported
Permit Number: 174 — Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

N64
SE
1/2-1
4239 ft.

Relative: Higher

Actual: 1228 ft.

SANTA CLARITA VALLEY HEALTH CARE MNG GRP — **HAZNET** — **S103986699**
21704 W GOLDEN TRIANGLE — **N/A**
SAUGUS, CA 91350

Site 1 of 4 in cluster N

HAZNET:
Gepaid: CAC000881800
TSD EPA ID: CAT080010101
Gen County: Los Angeles
Tsd County: San Diego
Tons: .3044
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Transfer Station
Contact: SANTA CLARITA VALLEY ETC
Telephone: (000) 000-0000
Mailing Address: 21704 W GOLDEN TRIANGLE
SAUGUS, CA 91350
County Los Angeles

N65
SE
1/2-1
4242 ft.

Relative: Higher

Actual: 1228 ft.

OLIVER WILLIAMS ELEVATOR COMPANY — **HAZNET** — **S103979971**
21700 W GOLDEN TRIANGLE RD — **N/A**
SAUGUS, CA 93555

Site 2 of 4 in cluster N

HAZNET:
Gepaid: CAC001505560
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Oil/water separation sludge
Disposal Method: Transfer Station
Contact: OLIVER WILLIAMS ELEVATOR CO
Telephone: (213) 478-2104
Mailing Address: 3039 ROSWELL ST
LOS ANGELES, CA 90065
County Los Angeles

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
N66 SE 1/2-1 4242 ft.	**SANTA CLARITA MEDICAL GROUP 21700 W GOLDEN TRIANGLE ROAD SAUGUS, CA 91350**	**HAZNET**	**S103986696 N/A**

Site 3 of 4 in cluster N

Relative: Higher

Actual: 1228 ft.

HAZNET:

Gepaid:	CAL000127661
TSD EPA ID:	CAL000121946
Gen County:	Los Angeles
Tsd County:	Marin
Tons:	.0200
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	JOHN B JUNG
Telephone:	(805) 259-9800
Mailing Address:	21700 GOLDEN TRIANGLE RD STE 104 SANTA CLARITA, CA 91350 - 2934
County	Los Angeles

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67 West 1/2-1 4248 ft.	**PANDA EXPRESS 26447 N BOUQUET CANYON RD SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S105696713 N/A**

Relative: Lower

Actual: 1162 ft.

HMS:

Facility Id:	026517-036350		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

N68 SE 1/2-1 4300 ft.	**PUBLIC STORAGE 21648 W GOLDEN TRIANGLE SAUGUS, CA 91350**	**HAZNET**	**S103982923 N/A**

Site 4 of 4 in cluster N

Relative: Higher

Actual: 1228 ft.

HAZNET:

Gepaid:	CAC001129936
TSD EPA ID:	CAD000088252
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.3127
Waste Category:	Waste oil and mixed oil
Disposal Method:	Transfer Station
Contact:	PUBLIC STORAGE
Telephone:	(000) 000-0000
Mailing Address:	21648 W GOLDEN TRIANGLE SAUGUS, CA 91350
County	Los Angeles

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
M69 NNW 1/2-1 4397 ft.	**M W INVESTMENT 26830 SECO CANYON SANTA CLARITA, CA 91354**	**CA SLIC**	**S104404953 N/A**

Site 2 of 10 in cluster M

Relative: Lower

Actual: 1211 ft.

SLIC Region 4:
Facility Status: Closure
Region: 4
SLIC 0849
Staff: PR
Substance: VOCs

M70 NNW 1/2-1 4397 ft.	**TEAM ENTERPRISES INC 26830 SECO CYN RD SAUGUS, CA 91350**	**RCRIS-SQG FINDS**	**1000118275 CAD981637499**

Site 3 of 10 in cluster M

Relative: Lower

Actual: 1211 ft.

RCRIS:
Owner: TOM JONES
(209) 555-1212
EPA ID: CAD981637499

Contact: NANCY HINDENBURG
(209) 224-7705

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

M71 NNW 1/2-1 4397 ft.	**ONE HOUR MARTINIZING 26830 SECO CYN RD SAUGUS, CA 93150**	**HAZNET CLEANERS**	**S103648098 N/A**

Site 4 of 10 in cluster M

Relative: Lower

Actual: 1211 ft.

CA Cleaners:
Inactive Date: Not reported
EPA Id: CAD981637499
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : Yes
Mail Name : Not reported
Mailing Address: 26830 SECO CANYON RD
SANTA CLARITA, CA 91350
Owner Name : HEUNG KYU JANG OWNER
Mailing Address: 26830 SECO CANYON RD
SAUGUS, CA 91350
Owner Telephone 0000000000
Contact Name : HEUNG KYU JANG OWNER
Mailing Address: 26830 SECO CANYON RD
SAUGUS, CA 91350
Contact Telephone 6612977422
Contact Fax : Not reported
Contact Email : Not reported

ONE HOUR MARTINIZING (Continued) **S103648098**

Region Code : 3

Inactive Date: Not reported
EPA Id: CAD981637499
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : Yes
Mail Name : Not reported
Mailing Address: 26830 SECO CANYON RD
SANTA CLARITA, CA 91350
Owner Name : HEUNG KYU JANG OWNER
Mailing Address: 26830 SECO CANYON RD
SAUGUS, CA 91350
Owner Telephone 0000000000
Contact Name : HEUNG KYU JANG OWNER
Mailing Address: 26830 SECO CANYON RD
SAUGUS, CA 91350
Contact Telephone 6612977422
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

Inactive Date: Not reported
EPA Id: CAD981637499
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : Yes
Mail Name : Not reported
Mailing Address: 26830 SECO CANYON RD
SANTA CLARITA, CA 91350
Owner Name : HEUNG KYU JANG OWNER
Mailing Address: 26830 SECO CANYON RD
SAUGUS, CA 91350
Owner Telephone 0000000000
Contact Name : HEUNG KYU JANG OWNER
Mailing Address: 26830 SECO CANYON RD
SAUGUS, CA 91350
Contact Telephone 6612977422
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

Inactive Date: Not reported
EPA Id: CAD981637499
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : Yes
Mail Name : Not reported
Mailing Address: 26830 SECO CANYON RD
SANTA CLARITA, CA 91350
Owner Name : HEUNG KYU JANG OWNER
Mailing Address: 26830 SECO CANYON RD
SAUGUS, CA 91350
Owner Telephone 0000000000
Contact Name : HEUNG KYU JANG OWNER
Mailing Address: 26830 SECO CANYON RD
SAUGUS, CA 91350

ONE HOUR MARTINIZING (Continued) **S103648098**

Contact Telephone 6612977422
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

HAZNET:

Gepaid: CAD981637499
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2100
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: HEUNG KYU JANG OWNER
Telephone: (000) 000-0000
Mailing Address: 26830 SECO CANYON RD
SANTA CLARITA, CA 91350 - 2216
County Los Angeles

Gepaid: CAD981637499
TSD EPA ID: CAT000613992
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2100
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: HEUNG KYU JANG OWNER
Telephone: (000) 000-0000
Mailing Address: 26830 SECO CANYON RD
SANTA CLARITA, CA 91350 - 2216
County Los Angeles

Gepaid: CAD981637499
TSD EPA ID: CAT000613992
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0700
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Not reported
Contact: HEUNG KYU JANG OWNER
Telephone: (000) 000-0000
Mailing Address: 26830 SECO CANYON RD
SANTA CLARITA, CA 91350 - 2216
County Los Angeles

Gepaid: CAD981637499
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3900
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: HEUNG KYU JANG OWNER
Telephone: (000) 000-0000
Mailing Address: 26830 SECO CANYON RD
SANTA CLARITA, CA 91350 - 2216
County Los Angeles

ONE HOUR MARTINIZING (Continued) **S103648098**

Gepaid: CAD981637499
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3100
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: HEUNG KYU JANG OWNER
Telephone: (000) 000-0000
Mailing Address: 26830 SECO CANYON RD
SANTA CLARITA, CA 91350 - 2216
County Los Angeles

Click this hyperlink while viewing on your computer to access
10 additional CA HAZNET record(s) in the EDR Site Report.

M72
NNW
1/2-1
4397 ft.

SECO ONE HOUR MARTINIZING
26830 SECO CYN RD
SAUGUS, CA 91350

RCRIS-SQG **1000326388**
HAZNET **CAD981638729**

Site 5 of 10 in cluster M

Relative:
Lower

Actual:
1211 ft.

RCRIS:
Owner: TEAM ENTERPRISES
(415) 555-1212
EPA ID: CAD981638729

Contact: NANCY HINDENBURG
(209) 224-7705

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

HAZNET:
Gepaid: CAD981638729
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1400
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 750 N VALINETINE
FRESNO, CA 93706
County Los Angeles

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
M73 NNW 1/2-1 4397 ft.	**SANTA CLARITA PLACE/1 HR. CLNR** **26830 SECO CANYON RD** **SCV, CA 91350**	**LA Co. Site Mitigation**	**S103697106** **N/A**

Site 6 of 10 in cluster M

Relative: Lower

Actual: 1211 ft.

Site Mitigation Log:
- Case Number: 98S447
- Abatement Date: 03/31/99
- Thomas Guide Page Numbers: 4550J1

M74 NNW 1/2-1 4413 ft.	**LA CO FIRE STATION #111** **26829 SECO CANYON RD** **SANTA CLARITA, CA 91350**	**Cortese**	**S104916234** **N/A**

Site 7 of 10 in cluster M

Relative: Lower

Actual: 1209 ft.

CORTESE:
- Region: CORTESE
- Fac Address 2: 26829 SECO CANYON RD

M75 NNW 1/2-1 4413 ft.	**LA CO FIRE STATION #111** **26829 SECO CANYON RD** **VALENCIA, CA 91350**	**LUST**	**S103065926** **N/A**

Site 8 of 10 in cluster M

Relative: Lower

Actual: 1209 ft.

State LUST:

Cross Street:	BOUQUET CANYON RD		
Qty Leaked:	0		
Case Number	R-12555		
Reg Board:	4		
Chemical:	Gasoline		
Lead Agency:	Regional Board		
Local Agency :	19000		
Case Type:	Soil only		
Status:	Pollution Characterization		
Abate Method:	Other Means		
Review Date:	1/23/97 0:00	Confirm Leak:	1/23/97 0:00
Workplan:	8/8/01 0:00	Prelim Assess:	8/8/01 0:00
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	Not reported		
Release Date:	01/23/1997		
Cleanup Fund Id :	Not reported		
Discover Date :	12/03/1996		
Enforcement Dt :	Not reported		
Enf Type:	DLSEL		
Enter Date :	3/31/97 0:00		
Funding:	Not reported		
Staff Initials:	Not reported		
How Discovered:	Tank Closure		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	Not reported		
Leak Source:	Piping		
MTBE Date :	12/18/01 0:00		
Max MTBE GW :	660 Parts per Billion		
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected		

LA CO FIRE STATION #111 (Continued) **S103065926**

Priority: Not reported
Local Case # : 0
Beneficial: Not reported
Staff : WXT
GW Qualifier : =
Max MTBE Soil : 910 Parts per Million
Soil Qualifier : =
Hydr Basin #: SANTA CLARA RIVER VA
Operator : Not reported
Oversight Prgm: LUST
Review Date : 4/25/02 0:00
Stop Date : / /
Work Suspended :Not reported
Responsible PartyWALLACE JENSKY
RP Address: 4561 MARKET ST., SUITE B
Global Id: T0603705147
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 01/23/1997
Lead Agency: Regional Board
Local Agency: 19000
Substance: Gasoline
Case Type: Soil
Status: Pollution Characterization
Region: 4
Staff: WXT
Date Case Last Changed on Database: 4/25/02
Date Leak Record Entered: 3/31/97
Historical Max MTBE Date: 12/18/01
GW Qualifier: =
Soil Qualifier: =
Hist Max MTBE Conc in Groundwater: 660
Hist Max MTBE Conc in Soil : 910
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: WALLACE JENSKY
RP Address: 4561 MARKET ST., SUITE B
Significant Interim Remedial Action Taken: Not reported
Program : LUST
Lat / Long : 34 / -119
Local Agency Staff: Not reported
Summary : Not reported
Hydrologic Basin # : SANTA CLARA RIVER VA
Beneficial Use : Not reported
Priority : Not reported
Cleanup Fund Id : Not reported
Suspended : Not reported

LA CO FIRE STATION #111 (Continued) **S103065926**

Local Case No :	Not reported
Substance Quantity :	0
Abatement Method Used at the Site:	OT
Operator :	Not reported
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	507.6313291
Assigned Name :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	12/03/1996
How the Leak was Discovered:	Tank Closure
How the Leak was Stopped:	Not reported
Cause of Leak:	Not reported
Leak Source:	Piping
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	1/23/97
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	8/8/01
Pollution Characterization Began:	9/17/01
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	Not reported
Enforcement Action Date:	Not reported
Date Leak First Reported:	01/23/1997
Enforcement Type:	DLSEL
Global ID :	T0603705147
Cross Street: BOUQUET CANYON RD	

M76
NNW
1/2-1
4413 ft.

LA COUNTY FIRE DEPT STATION 111 **AST** **A100211083**
26829 SECO CYN RD **N/A**
VALENCIA, CA 91350

Site 9 of 10 in cluster M

Relative:
Lower

AST:
Owner: LOS ANGELES COUNTY FIRE DEPT
Total Gallons: 1000

Actual:
1209 ft.

M77
NNW
1/2-1
4413 ft.

LA CO FD FIRE STA #111 **LOS ANGELES CO. HMS** **S102064468**
26829 N SECO CANYON RD **N/A**
SANTA CLARITA, CA

Site 10 of 10 in cluster M

Relative:
Lower

HMS:
Facility Id: 012424-012555
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

Actual:
1209 ft.

O78
West
1/2-1
4418 ft.

ACWA ASSOC - SEE FILE I09575
23055 W SOLEDAD CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS — **S105422132** / **N/A**

Site 1 of 15 in cluster O

Relative:
Lower

Actual:
1158 ft.

HMS:

Facility Id:	008430-021139		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

O79
West
1/2-1
4418 ft.

UNOCAL CORP SS 7344
23055 W SOLEDAD CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS — **S105422133** / **N/A**

Site 2 of 15 in cluster O

Relative:
Lower

Actual:
1158 ft.

HMS:

Facility Id:	009739-009575		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Permit		
Region:	Los Angeles County:		

O80
West
1/2-1
4418 ft.

TOSCO/UNOCAL #31309
23055 W SOLEDAD CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS — **S105422135** / **N/A**

Site 3 of 15 in cluster O

Relative:
Lower

Actual:
1158 ft.

HMS:

Facility Id:	009739-028929		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		
Facility Id:	009739-024755		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

O81
West
1/2-1
4418 ft.

97436
23055 SOLEDAD CANYON RD
SAUGUS, CA 91350

HIST UST — **U001567684** / **N/A**

Site 4 of 15 in cluster O

Relative:
Lower

Actual:
1158 ft.

UST HIST:

Facility ID:	62998	Owner Name:	CHEVRON U.S.A. INC.
Total Tanks:	5	Region:	STATE
Owner Address:	575 MARKET SAN FRANCISCO, CA 94105		

97436 (Continued) **U001567684**

Tank Used for: PRODUCT
Tank Num: 1 Container Num: 1
Tank Capacity: 00003000 Year Installed: 1963
Type of Fuel: Not reported Tank Construction: 0000170 unknown
Leak Detection: Stock Inventor
Contact Name: MORSE,JERRY P Telephone: (805) 259-3705
Facility Type: Gas Station Other Type: Not reported

Facility ID: 62998 Owner Name: CHEVRON U.S.A. INC.
Total Tanks: 5 Region: STATE
Owner Address: 575 MARKET
SAN FRANCISCO, CA 94105
Tank Used for: PRODUCT
Tank Num: 2 Container Num: 2
Tank Capacity: 00005000 Year Installed: 1963
Type of Fuel: Not reported Tank Construction: 0000250 unknown
Leak Detection: Stock Inventor
Contact Name: MORSE,JERRY P Telephone: (805) 259-3705
Facility Type: Gas Station Other Type: Not reported

Facility ID: 62998 Owner Name: CHEVRON U.S.A. INC.
Total Tanks: 5 Region: STATE
Owner Address: 575 MARKET
SAN FRANCISCO, CA 94105
Tank Used for: PRODUCT
Tank Num: 3 Container Num: 3
Tank Capacity: 00006000 Year Installed: 1963
Type of Fuel: Not reported Tank Construction: 0000250 unknown
Leak Detection: Stock Inventor
Contact Name: MORSE,JERRY P Telephone: (805) 259-3705
Facility Type: Gas Station Other Type: Not reported

Facility ID: 62998 Owner Name: CHEVRON U.S.A. INC.
Total Tanks: 5 Region: STATE
Owner Address: 575 MARKET
SAN FRANCISCO, CA 94105
Tank Used for: PRODUCT
Tank Num: 4 Container Num: 4
Tank Capacity: 00010000 Year Installed: 1969
Type of Fuel: Not reported Tank Construction: 0000250 unknown
Leak Detection: Stock Inventor
Contact Name: MORSE,JERRY P Telephone: (805) 259-3705
Facility Type: Gas Station Other Type: Not reported

Facility ID: 62998 Owner Name: CHEVRON U.S.A. INC.
Total Tanks: 5 Region: STATE
Owner Address: 575 MARKET
SAN FRANCISCO, CA 94105
Tank Used for: WASTE
Tank Num: 5 Container Num: 5
Tank Capacity: 00000550 Year Installed: 1963
Type of Fuel: Not reported Tank Construction: 0000100 unknown
Leak Detection: Stock Inventor
Contact Name: MORSE,JERRY P Telephone: (805) 259-3705
Facility Type: Gas Station Other Type: Not reported

O82
West
1/2-1
4418 ft.

ACWA ASSOCIATES INC
23055 W SOLEDAD CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS — **S105422131**, **N/A**

Site 5 of 15 in cluster O

Relative:
Lower

Actual:
1158 ft.

HMS:

Facility Id:	008430-I09575		
Area:	7A		
Facility Type:	I02		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

O83
West
1/2-1
4418 ft.

UNOCAL SERVICE STATION #7344
23055 SOLEDAD CANYON ROAD
SAUGUS, CA 91350

HAZNET — **S103643996**, **N/A**

Site 6 of 15 in cluster O

Relative:
Lower

Actual:
1158 ft.

HAZNET:

Gepaid:	CAL000046416
TSD EPA ID:	CAT080011059
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.0425
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	UNION OIL COMPANY OF CALIFORNI
Telephone:	(714) 428-6560
Mailing Address:	PO BOX 25376 SANTA ANA, CA 92799 - 5376
County	Los Angeles

Gepaid:	CAL000046416
TSD EPA ID:	CAT080011059
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.5795
Waste Category:	Aqueous solution with 10% or more total organic residues
Disposal Method:	Recycler
Contact:	UNION OIL COMPANY OF CALIFORNI
Telephone:	(714) 428-6560
Mailing Address:	PO BOX 25376 SANTA ANA, CA 92799 - 5376
County	Los Angeles

Gepaid:	CAL000046416
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	0
Tons:	.3961
Waste Category:	
Disposal Method:	Not reported
Contact:	UNION OIL COMPANY OF CALIFORNI
Telephone:	(714) 428-6560
Mailing Address:	PO BOX 25376 SANTA ANA, CA 92799 - 5376
County	Los Angeles

UNOCAL SERVICE STATION #7344 (Continued) **S103643996**

Gepaid: CAL000046416
TSD EPA ID: CAD028409019
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3961
Waste Category:
Disposal Method: Treatment, Tank
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: (714) 428-6560
Mailing Address: PO BOX 25376
SANTA ANA, CA 92799 - 5376
County Los Angeles

Gepaid: CAL000046416
TSD EPA ID: CAD028409019
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1959
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Treatment, Tank
Contact: UNION OIL COMPANY OF CALIFORNI
Telephone: (714) 428-6560
Mailing Address: PO BOX 25376
SANTA ANA, CA 92799 - 5376
County Los Angeles

O84
West
1/2-1
4418 ft.

Relative:
Lower

Actual:
1158 ft.

CHEVRON STATION 97436
23055 SOLEDAD CYN RD
SAUGUS, CA 91350

RCRIS-SQG **1000905200**
FINDS **CA0000370890**
LUST
Cortese

Site 7 of 15 in cluster O

RCRIS:
Owner: CHEVRON USA PRODUCTS CO
(310) 694-7452
EPA ID: CA0000370890

Contact: SUZANNE SISSUNG
(310) 694-7452

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

State LUST:
Cross Street: BOUQUET CANYON
Qty Leaked: 0
Case Number I-09575
Reg Board: 4
Chemical: Gasoline
Lead Agency: Regional Board
Local Agency : 19000
Case Type: Other ground water affected
Status: Case Closed
Abate Method: Vapor Extraction

CHEVRON STATION 97436 (Continued) **1000905200**

Review Date: Not reported
Workplan: Not reported
Pollution Char: Not reported
Remed Action: 7/7/96 0:00
Monitoring: Not reported
Close Date: 11/4/96 0:00
Release Date: 10/09/1989
Cleanup Fund Id : Not reported
Discover Date : 08/13/1987
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : Not reported
Funding: Not reported
Staff Initials: Not reported
How Discovered: Not reported
How Stopped: Not reported
Interim : Yes
Leak Cause: Not reported
Leak Source: Not reported
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Priority: Not reported
Local Case # : 0
Beneficial: Not reported
Staff : UNK
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SANTA CLARA RIVER VA
Operator : Not reported
Oversight Prgm: LUST
Review Date : 2/18/98 0:00
Stop Date : / /
Work Suspended :Not reported
Responsible PartyCHEVRON PRODUCTS CO
RP Address: P.O. BOX 2833, LA HABRA CA 90632-2833
Global Id: T0603703450
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

Confirm Leak: Not reported
Prelim Assess: Not reported
Remed Plan: Not reported

LUST Region 4:
Report Date: 10/09/1989
Lead Agency: Regional Board
Local Agency: 19000
Substance: Gasoline
Case Type: Groundwater
Status: Case Closed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 2/18/98

CHEVRON STATION 97436 (Continued) **1000905200**

Date Leak Record Entered:	Not reported
Historical Max MTBE Date:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil :	Not reported
County:	Los Angeles
Organization :	Not reported
Regional Board:	4
Owner Contact: Not reported	
Responsible Party:	CHEVRON PRODUCTS CO
RP Address:	P.O. BOX 2833, LA HABRA CA 90632-2833
Significant Interim Remedial Action Taken:	Yes
Program :	LUST
Lat / Long :	34 / -119
Local Agency Staff:	Not reported
Summary :	??/??/?? CASE ASSIGNED TO GN 10/15/96 3RD QUARTER G/W MONITORING REPORT 02/24/97 WELL DESTRUCTION REPORT 02/18/98 RESULTS OF A SOIL GAS SURVEY
Hydrologic Basin # :	SANTA CLARA RIVER VA
Beneficial Use :	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	0
Abatement Method Used at the Site:	VE
Operator :	Not reported
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	934.3271627
Assigned Name :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	08/13/1987
How the Leak was Discovered:	Not reported
How the Leak was Stopped:	Not reported
Cause of Leak:	Not reported
Leak Source:	Not reported
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	6/9/89
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	7/7/96
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	11/4/96
Enforcement Action Date:	Not reported
Date Leak First Reported:	10/09/1989
Enforcement Type:	Not reported
Global ID :	T0603703450
Cross Street: BOUQUET CANYON	

CORTESE:

Region:	CORTESE
Fac Address 2:	23055 SOLEDAD CANYON RD

O85
West
1/2-1
4418 ft.

Relative:
Lower

Actual:
1158 ft.

TOSCO CORPORATION STATION #31309
23055 SOLEDAD CANYON RD
SAUGUS, CA 91350

HAZNET **S103992190**
N/A

Site 8 of 15 in cluster O

HAZNET:

Gepaid:	CAL000135711
TSD EPA ID:	CAD028409019
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0875
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Treatment, Tank
Contact:	TOSCO MARKETING
Telephone:	(602) 728-4180
Mailing Address:	P O BOX 52085 PHOENIX, AZ 85072 - 2085
County	Los Angeles

Gepaid:	CAL000135711
TSD EPA ID:	CAD028409019
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.1668
Waste Category:	Aqueous solution with 10% or more total organic residues
Disposal Method:	Treatment, Tank
Contact:	TOSCO MARKETING
Telephone:	(602) 728-4180
Mailing Address:	P O BOX 52085 PHOENIX, AZ 85072 - 2085
County	Los Angeles

Gepaid:	CAL000135711
TSD EPA ID:	CAD028409019
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.271
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Treatment, Tank
Contact:	TOSCO MARKETING
Telephone:	(602) 728-4180
Mailing Address:	P O BOX 52085 PHOENIX, AZ 85072 - 2085
County	Los Angeles

Gepaid:	CAL000135711
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.37
Waste Category:	Unspecified aqueous solution
Disposal Method:	Transfer Station
Contact:	HAZMAT SPECIALIST
Telephone:	(602) 728-4180
Mailing Address:	PO BOX 52085 PHOENIX, AZ 85072 - 2085
County	Not reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
P86 **SE** **1/2-1** **4436 ft.**	**SANTA CLARITA AUTO TRCK** **21618 GOLDEN TRIANGLE RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103945077** **N/A**

Site 1 of 2 in cluster P

Relative: Higher

Actual: 1230 ft.

HMS:

Facility Id:	019967-028486		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

P87 **SE** **1/2-1** **4449 ft.**	**PACIFIC COAST ROOFING INC** **21616 GOLDEN TRIANGLE RD** **SANTA CLARITA, CA 91350**	**HAZNET**	**S104579764** **N/A**

Site 2 of 2 in cluster P

Relative: Higher

Actual: 1230 ft.

HAZNET:

Gepaid:	CAL000157138
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.0834
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	PJ OWENS PRESIDENT
Telephone:	(000) 000-0000
Mailing Address:	21616 GOLDEN TRIANGLE RD SANTA CLARITA, CA 91350 - 2618
County	Los Angeles

Gepaid:	CAL000157138
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.2
Waste Category:	Off-specification, aged, or surplus organics
Disposal Method:	Recycler
Contact:	JONANNES MOEHNLE
Telephone:	(661) 254-3322
Mailing Address:	21616 GOLDEN TRIANGLE RD SANTA CLARITA, CA 91350 - 2618
County	Not reported

Gepaid:	CAL000157138
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	San Bernardino
Tons:	2.5
Waste Category:	Off-specification, aged, or surplus organics
Disposal Method:	Transfer Station
Contact:	JONANNES MOEHNLE
Telephone:	(661) 254-3322
Mailing Address:	21616 GOLDEN TRIANGLE RD SANTA CLARITA, CA 91350 - 2618
County	Not reported

PACIFIC COAST ROOFING INC (Continued) **S104579764**

Gepaid:	CAL000157138
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	San Bernardino
Tons:	0.2
Waste Category:	Off-specification, aged, or surplus organics
Disposal Method:	Not reported
Contact:	JONANNES MOEHNLE
Telephone:	(661) 254-3322
Mailing Address:	21616 GOLDEN TRIANGLE RD SANTA CLARITA, CA 91350 - 2618
County	Not reported

O88
West
1/2-1
4461 ft.

EXXON USA #7-3550 **LOS ANGELES CO. HMS** **S105696693**
23060 W SOLEDAD CANYON RD **N/A**
SANTA CLARITA, CA

Site 9 of 15 in cluster O

Relative:
Lower

Actual:
1162 ft.

HMS:

Facility Id:	006373-006593		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Permit		
Region:	Los Angeles County:		

O89
West
1/2-1
4461 ft.

SAM'S MOBIL **LOS ANGELES CO. HMS** **S105696695**
23060 W SOLEDAD CANYON RD **N/A**
SANTA CLARITA, CA

Site 10 of 15 in cluster O

Relative:
Lower

Actual:
1162 ft.

HMS:

Facility Id:	006373-028931		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

Facility Id:	006373-021517		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

O90
West
1/2-1
4461 ft.

SAMS EXXON
23060 W SOLEDAD CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S105696692**
N/A

Site 11 of 15 in cluster O

Relative:
Lower

Actual:
1162 ft.

HMS:

Facility Id:	006373-I06593		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Removed
Facility Status:	Removed		
Region:	Los Angeles County:		

O91
West
1/2-1
4461 ft.

SAMS EXXON
23060 SOLEDAD CYN RD
SAUGUS, CA 91350

HAZNET **S103986171**
N/A

Site 12 of 15 in cluster O

Relative:
Lower

Actual:
1162 ft.

HAZNET:

Gepaid:	CAL912136051
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.7297
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	ELHILU,ESMAT
Telephone:	(805) 985-5566
Mailing Address:	23060 SOLEDAD CANYON RD SANTA CLARITA, CA 91350 - 2634
County	Los Angeles

Gepaid:	CAL912136051
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	2.16
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	--
Telephone:	(805) 288-2989
Mailing Address:	23060 SOLEDAD CANYON RD SANTA CLARITA, CA 91350 - 2634
County	Not reported

O92
West
1/2-1
4461 ft.

EXXON SERVICE STATION
23060 SOLEDAD CANYON RD
SAUGUS, CA 91350

HIST UST **U001567697**
N/A

Site 13 of 15 in cluster O

Relative:
Lower

Actual:
1162 ft.

UST HIST:

Facility ID:	29509	Owner Name:	EXXON COMPANY U.S.A.
Total Tanks:	4	Region:	STATE
Owner Address:	16945 NORTHCHASE BLVD HOUSTON, TX 77210		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	#1
Tank Capacity:	00006000	Year Installed:	1969

EXXON SERVICE STATION (Continued) **U001567697**

Type of Fuel:	PREMIUM	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	JACK RAKESTAU	Telephone:	(805) 255-6444
Facility Type:	Gas Station	Other Type:	Not reported
Facility ID:	29509	Owner Name:	EXXON COMPANY U.S.A.
Total Tanks:	4	Region:	STATE
Owner Address:	16945 NORTHCHASE BLVD HOUSTON, TX 77210		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	#2
Tank Capacity:	00008000	Year Installed:	1969
Type of Fuel:	REGULAR	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	JACK RAKESTAU	Telephone:	(805) 255-6444
Facility Type:	Gas Station	Other Type:	Not reported
Facility ID:	29509	Owner Name:	EXXON COMPANY U.S.A.
Total Tanks:	4	Region:	STATE
Owner Address:	16945 NORTHCHASE BLVD HOUSTON, TX 77210		
Tank Used for:	PRODUCT		
Tank Num:	3	Container Num:	#3
Tank Capacity:	00010000	Year Installed:	1969
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	JACK RAKESTAU	Telephone:	(805) 255-6444
Facility Type:	Gas Station	Other Type:	Not reported
Facility ID:	29509	Owner Name:	EXXON COMPANY U.S.A.
Total Tanks:	4	Region:	STATE
Owner Address:	16945 NORTHCHASE BLVD HOUSTON, TX 77210		
Tank Used for:	PRODUCT		
Tank Num:	4	Container Num:	#4
Tank Capacity:	00001000	Year Installed:	1969
Type of Fuel:	WASTE OIL	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	JACK RAKESTAU	Telephone:	(805) 255-6444
Facility Type:	Gas Station	Other Type:	Not reported

O93 **West** **1/2-1** **4461 ft.**

EXXON #7-3550 (FORMER) **LUST** **S103891181**
23060 SOLEDAD CANYON RD **N/A**
SANTA CLARITA, CA 91350

Site 14 of 15 in cluster O

Relative: Lower

Actual: 1162 ft.

State LUST:

Cross Street:	BOUQUET CANYON RD		
Qty Leaked:	0		
Case Number	R-06593		
Reg Board:	4		
Chemical:	Hydrocarbons		
Lead Agency:	Regional Board		
Local Agency :	19000		
Case Type:	Other ground water affected		
Status:	Remediation Plan		
Review Date:	6/5/92 0:00	Confirm Leak:	6/5/92 0:00
Workplan:	6/5/92 0:00	Prelim Assess:	6/5/92 0:00

EXXON #7-3550 (FORMER) (Continued) **S103891181**

Pollution Char: 1/16/02 0:00 Remed Plan: 1/16/02 0:00
Remed Action: Not reported
Monitoring: Not reported
Close Date: Not reported
Release Date: 05/26/1992
Cleanup Fund Id : Not reported
Discover Date : 05/26/1992
Enforcement Dt : Not reported
Enf Type: SEL
Enter Date : 5/27/92 0:00
Funding: Not reported
Staff Initials: Not reported
How Discovered: OM
How Stopped: Not reported
Interim : Not reported
Leak Cause: UNK
Leak Source: UNK
MTBE Date : 1/1/65 0:00
Max MTBE GW : 7900 Parts per Billion
MTBE Tested: MTBE Detected. Site tested for MTBE & MTBE detected
Priority: Not reported
Local Case # : 0
Beneficial: Not reported
Staff : TCS
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SANTA CLARA RIVER VA
Operator : ELHILU, ESMAT (SAM)
Oversight Prgm: LUST
Review Date : 10/15/02 0:00
Stop Date : / /
Work Suspended :Not reported
Responsible PartyJENNIFER C. SEDLACHEK
RP Address: 2300 CLAYTON RD., STE1250
Global Id: T0603704740
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 05/26/1992
Lead Agency: Regional Board
Local Agency: 19000
Substance: Hydrocarbons
Case Type: Groundwater
Status: Remediation Plan
Region: 4
Staff: TCS
Date Case Last Changed on Database: 10/15/02
Date Leak Record Entered: 5/27/92
Historical Max MTBE Date: 1/1/65

EXXON #7-3550 (FORMER) (Continued) **S103891181**

GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Hist Max MTBE Conc in Groundwater:	7900
Hist Max MTBE Conc in Soil :	Not reported
County:	Los Angeles
Organization :	Not reported
Regional Board:	4
Owner Contact: Not reported	
Responsible Party:	JENNIFER C. SEDLACHEK
RP Address:	2300 CLAYTON RD., STE1250
Significant Interim Remedial Action Taken:	Not reported
Program :	LUST
Lat / Long :	34 / -119
Local Agency Staff:	Not reported
Summary :	3/31/00 1ST QTR GW MON RPT 2000; 7/14/00 2ND QTR GW MON RPT; 11/15/00 3RD QTR GW MON RPT 2000; 1/12/01 4TH QTR GW MON RPT 2000; 4/12/01 1ST QTR GW MON RPT 2001
Hydrologic Basin # :	SANTA CLARA RIVER VA
Beneficial Use :	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	0
Abatement Method Used at the Site:	Not reported
Operator :	ELHILU, ESMAT (SAM)
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	1083.20387
Assigned Name :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	05/26/1992
How the Leak was Discovered:	OM
How the Leak was Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	6/5/92
Preliminary Site Assessment Workplan Submitted:	6/5/92
Preliminary Site Assessment Began:	6/5/92
Pollution Characterization Began:	1/16/02
Remediation Plan Submitted:	1/16/02
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	Not reported
Enforcement Action Date:	Not reported
Date Leak First Reported:	05/26/1992
Enforcement Type:	SEL
Global ID :	T0603704740
Cross Street: BOUQUET CANYON RD	

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
O94 West 1/2-1 4461 ft.	**EXXON #7-3550 (FORMER)**	**Cortese**	**S105026561**
	23060 SOLEDAD CNYN		**N/A**
	SAUGUS, CA 91350		
Relative: Lower	**Site 15 of 15 in cluster O**		
Actual: 1162 ft.	CORTESE:		
	Region: CORTESE		
	Fac Address 2: Not reported		
Q95 ESE 1/2-1 4637 ft.	**SANTA CLARITA CONCESSIONS, INC**	**LOS ANGELES CO. HMS**	**S104733642**
	21554 GOLDEN TRIANGLE RD		**N/A**
	SANTA CLARITA, CA		
Relative: Higher	**Site 1 of 8 in cluster Q**		
Actual: 1236 ft.	HMS:		
	Facility Id: 006483-I06703		
	Area: 7A		
	Facility Type: I01		
	Permit Number: 174	Permit Status: Closed	
	Facility Status: Permit		
	Region: Los Angeles County:		
R96 West 1/2-1 4647 ft.	**LOWES HIW INC-SANTA CLARITA #1510**	**HAZNET**	**S106093196**
	26415 BOUQUET CANYON RD		**N/A**
	SANTA CLARITA, CA 91350		
Relative: Lower	**Site 1 of 9 in cluster R**		
Actual: 1157 ft.	HAZNET:		
	Gepaid: CAL000249977		
	TSD EPA ID: Not reported		
	Gen County: Los Angeles		
	Tsd County: Los Angeles		
	Tons: 0.12		
	Waste Category: Alkaline solution without metals (pH > 12.5)		
	Disposal Method: Transfer Station		
	Contact: DAMON CHAPPELL/SAFETY & HAZMAT		
	Telephone: (336) 658-4548		
	Mailing Address: 1605 CURTIS BRIDGE RD WILKESBORO, NC 28697		
	County Not reported		
	Gepaid: CAL000249977		
	TSD EPA ID: Not reported		
	Gen County: Los Angeles		
	Tsd County: Los Angeles		
	Tons: 0.30		
	Waste Category: Off-specification, aged, or surplus organics		
	Disposal Method: Not reported		
	Contact: DAMON CHAPPELL/SAFETY & HAZMAT		
	Telephone: (336) 658-4548		
	Mailing Address: 1605 CURTIS BRIDGE RD WILKESBORO, NC 28697		
	County Not reported		

LOWES HIW INC-SANTA CLARITA #1510 (Continued) **S106093196**

Gepaid: CAL000249977
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.43
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Transfer Station
Contact: DAMON CHAPPELL/SAFETY & HAZMAT
Telephone: (336) 658-4548
Mailing Address: 1605 CURTIS BRIDGE RD
WILKESBORO, NC 28697
County Not reported

Gepaid: CAL000249977
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.30
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Treatment, Tank
Contact: DAMON CHAPPELL/SAFETY & HAZMAT
Telephone: (336) 658-4548
Mailing Address: 1605 CURTIS BRIDGE RD
WILKESBORO, NC 28697
County Not reported

Gepaid: CAL000249977
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.05
Waste Category: Other organic solids
Disposal Method: Transfer Station
Contact: DAMON CHAPPELL/SAFETY & HAZMAT
Telephone: (336) 658-4548
Mailing Address: 1605 CURTIS BRIDGE RD
WILKESBORO, NC 28697
County Not reported

Click this hyperlink while viewing on your computer to access
2 additional CA HAZNET record(s) in the EDR Site Report.

R97 West 1/2-1 4647 ft. **LOWE'S HOME IMPROVMNT WRHOUSE** **LOS ANGELES CO. HMS** **S105193539**
26415 N BOUQUET CANYON RD **N/A**
SANTA CLARITA, CA

Site 2 of 9 in cluster R

Relative: Lower

Actual: 1157 ft.

HMS:
Facility Id: 026547-036407
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
S98 **ESE** **1/2-1** **4691 ft.** **Relative:** **Higher** **Actual:** **1243 ft.**	**21361 SOLEDAD CANYON RD.** **21361 SOLEDAD CANYON RD.** **SANTA CLARITA, CA** **Site 1 of 2 in cluster S** Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.	**ERNS**	**8874052** **N/A**
S99 **ESE** **1/2-1** **4691 ft.** **Relative:** **Higher** **Actual:** **1243 ft.**	**21361 SOLEDAD CNY RD** **SANTA CLARITA, CA** **Site 2 of 2 in cluster S**	**CHMIRS**	**S100216378** **N/A**

CHMIRS:

OES Control Number:	8803256
Chemical Name:	Not reported
Extent of Release:	Not reported
Property Use:	099
Incident Date:	12-OCT-88
Date Completed:	12-OCT-88
Time Completed :	1245
Agency Id Number :	19110
Agency Incident Number :	0
OES Incident Number :	8803256
Time Notified :	1208
Surrounding Area :	400
Estimated Temperature :	70
Property Management :	K
More Than Two Substances Involved? :	N
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	Not reported
Responding Agency Personel # Of Fatalities :	Not reported
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	CAPT JOHN W EVERETT
Report Date :	12-OCT-88
Comments :	Yes
Facility Telephone Number :	213 267-2485
Waterway Involved :	Not reported
Waterway :	Not reported
Spill Site :	Not reported
Cleanup By :	Not reported
Containment :	Not reported
What Happened :	Not reported
Type :	Not reported

(Continued) **S100216378**

Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	Not reported
Evacuations :	Not reported

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100 SW 1/2-1 4703 ft. — **KEYSER CENTURY CO.** **KEYSER CENTURY CO.** **SAUGUS, CA 91350** — **ERNS** **91215365** **N/A**

Relative: Higher

Actual: 1224 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Q101 ESE 1/2-1 4706 ft. — **GLASS SEAL CORPORATION** **21516 GOLDEN TRIANGLE RD** **SAUGUS, CA 91351** — **LUST Cortese** **S101298092** **N/A**

Site 2 of 8 in cluster Q

Relative: Higher

Actual: 1238 ft.

State LUST:

Cross Street:	HOPE		
Qty Leaked:	0		
Case Number	913510034		
Reg Board:	4		
Chemical:	1		
Lead Agency:	Regional Board		
Local Agency :	19000		
Case Type:	Other ground water affected		
Status:	Case Closed		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	2/1/95 0:00		
Release Date:	02/08/1988		
Cleanup Fund Id :	Not reported		
Discover Date :	/ /		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	6/14/88 0:00		
Funding:	Not reported		
Staff Initials:	Not reported		
How Discovered:	Not reported		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	Not reported		
Leak Source:	Not reported		
MTBE Date :	Not reported		
Max MTBE GW :	Not reported		
MTBE Tested:	Not Required to be Tested.		
Priority:	Not reported		
Local Case # :	0		

GLASS SEAL CORPORATION (Continued) **S101298092**

Beneficial: Not reported
Staff : SLC
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SANTA CLARA RIVER VA
Operator : Not reported
Oversight Prgm: Spills, Leaks, Investigations and Cleanup UST
Review Date : 6/14/88 0:00
Stop Date : / /
Work Suspended :Not reported
Responsible PartyBLANK RP
RP Address: Not reported
Global Id: T0603702308
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 02/08/1988
Lead Agency: Regional Board
Local Agency: 19000
Substance: 1
Case Type: Groundwater
Status: Case Closed
Region: 4
Staff: SLC
Date Case Last Changed on Database: 6/14/88
Date Leak Record Entered: 6/14/88
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : Not reported
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: BLANK RP
RP Address: Not reported
Significant Interim Remedial Action Taken: Not reported
Program : SLIC
Lat / Long : 34 / -119
Local Agency Staff: Not reported
Summary : **JIM ROSS WITH GROUND WATER LEACH FIELD
REFER TO SLIC #063
Hydrologic Basin # : SANTA CLARA RIVER VA
Beneficial Use : Not reported
Priority : Not reported
Cleanup Fund Id : Not reported
Suspended : Not reported
Local Case No : Not reported

GLASS SEAL CORPORATION (Continued) **S101298092**

Substance Quantity :	0
Abatement Method Used at the Site:	Not reported
Operator :	Not reported
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	1473.654873
Assigned Name :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	/ /
How the Leak was Discovered:	Not reported
How the Leak was Stopped:	Not reported
Cause of Leak:	Not reported
Leak Source:	Not reported
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	6/14/88
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	2/1/95
Enforcement Action Date:	Not reported
Date Leak First Reported:	02/08/1988
Enforcement Type:	Not reported
Global ID :	T0603702308
Cross Street: HOPE	

CORTESE:

Region:	CORTESE
Fac Address 2:	21516 GOLDEN TRIANGLE RD

Q102 ESE 1/2-1 4706 ft. **MCDONALDS RESTAURANT** **LOS ANGELES CO. HMS** **S102064073**
21516 GOLDEN TRIANGLE RD **N/A**
SANTA CLARITA, CA

Site 3 of 8 in cluster Q

Relative: Higher

Actual: 1238 ft.

HMS:

Facility Id:	001936-022296		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

Q103 ESE 1/2-1 4706 ft. **MOUNTASIA OF SANTA CLARITA LP** **LOS ANGELES CO. HMS** **S102064074**
21516 GOLDEN TRIANGLE RD **N/A**
SANTA CLARITA, CA

Site 4 of 8 in cluster Q

Relative: Higher

Actual: 1238 ft.

HMS:

Facility Id:	001936-022613		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

Q104
ESE
1/2-1
4706 ft.

GLASS SEAL CORPORATION
21516 GOLDEN TRIANGLE RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS — **U003058320**, **N/A**

Site 5 of 8 in cluster Q

Relative:
Higher

Actual:
1238 ft.

HMS:

Facility Id:	001936-I02011		
Area:	7A		
Facility Type:	I00		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

Q105
ESE
1/2-1
4706 ft.

GLASS SEAL CORPORATION
21516 WEST GOLDEN TRIANGLE RD.
SAUGUS, CA 91350

CA SLIC — **1003879618**
CERC-NFRAP — **CAD983610148**

Site 6 of 8 in cluster Q

Relative:
Higher

Actual:
1238 ft.

CERCLIS-NFRAP Classification Data:

Site Incident Category:	Not reported	Federal Facility:	Not a Federal Facility
Non NPL Code:	NFRAP		
Ownership Status:	Private	NPL Status:	Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	10/25/1991
Assessment:	PRELIMINARY ASSESSMENT	Completed:	10/22/1992
Assessment:	SITE INSPECTION	Completed:	06/18/1993
Assessment:	EXPANDED SITE INSPECTION	Completed:	04/08/1996
Assessment:	ARCHIVE SITE	Completed:	02/07/1997

SLIC Region 4:

Facility Status:	Unassigned
Region:	4
SLIC	0063
Staff:	Manjulika Chakarbarti
Substance:	Not reported

Q106
ESE
1/2-1
4706 ft.

MFG SANTA CLARITA LP
21516 W GOLDEN TRIANGLE RD
SANTA CLARITA, CA 91350

HAZNET — **S103642096**, **N/A**

Site 7 of 8 in cluster Q

Relative:
Higher

Actual:
1238 ft.

HAZNET:

Gepaid:	CAC000961264
TSD EPA ID:	CAD009007626
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.6856
Waste Category:	Asbestos-containing waste
Disposal Method:	Disposal, Land Fill
Contact:	MFG SANTA CLARITA LP
Telephone:	(000) 000-0000
Mailing Address:	18140 PARTHENIA ST NORTHRIDGE, CA 91325
County	Los Angeles

R107
West
1/2-1
4734 ft.

IN-N-OUT BURGER
26401 N BOUQUET CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S105193537**
N/A

Site 3 of 9 in cluster R

Relative:
Lower

Actual:
1160 ft.

HMS:

Facility Id:	026675-036775		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

R108
West
1/2-1
4740 ft.

BOUQUET CANYON BRIDGE WIDENING
BOUQUET CANYON RD/VALENCIA BL
SANTA CLARITA, CA 0

CA WDS **S106103469**
N/A

Site 4 of 9 in cluster R

Relative:
Lower

Actual:
1163 ft.

WDS:

Facility ID:	Santa Clara River 197500007		
Facility Contact	Lou Courtois	Facility Telephone	(805) 644-1208
SIC Code:	1622	SIC Code 2:	Not reported
Agency Name:	DOKKEN ENGINEERING		
Agency Address:	0		
Agency Contact:	Not reported	Agency Phone:	0
Design Flow:	0.4 Million Gal/Day	Baseline Flow:	0.4 Million Gal/Day
Facility Type:	Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)		
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.		
Agency Type:	Private		
Waste Type:	Miscellaneous (Includes wastes from dewatering, recreational lake overflow, swimming pool wastes, water ride wastewater, ground water seepage and other wastes of this type) - Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.		
Threat to Water:	0		
Complexity:	Not reported		
Reclamation:	No reclamation requirements associated with this facility.		
POTW:	The facility is not a POTW.		
NPDES Number:	CAG994004 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board		
Subregion:	4		

R109
West
1/2-1
4755 ft.

ARCO #1974
23105 VALENCIA BLVD
VALENCIA, CA 91355

LUST **S102424196**
N/A

Site 5 of 9 in cluster R

Relative:
Lower

Actual:
1160 ft.

State LUST:

Cross Street:	BOUQUET CYN
Qty Leaked:	0
Case Number	I-06508
Reg Board:	4
Chemical:	Gasoline
Lead Agency:	Regional Board
Local Agency :	19000

ARCO #1974 (Continued) **S102424196**

Case Type: Other ground water affected
Status: Case Closed
Review Date: Not reported
Confirm Leak: Not reported
Workplan: 5/21/91 0:00
Prelim Assess: 5/21/91 0:00
Pollution Char: Not reported
Remed Plan: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: 7/24/96 0:00
Release Date: 05/21/1991
Cleanup Fund Id : Not reported
Discover Date : 02/18/1991
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 5/22/91 0:00
Funding: Not reported
Staff Initials: Not reported
How Discovered: OM
How Stopped: Not reported
Interim : Not reported
Leak Cause: UNK
Leak Source: UNK
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Priority: Not reported
Local Case # : 0
Beneficial: Not reported
Staff : UNK
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SANTA CLARA RIVER VA
Operator : SCANLON, MICHAEL J.
Oversight Prgm: LUST
Review Date : 7/24/96 0:00
Stop Date : / /
Work Suspended :Not reported
Responsible PartyARCO PRODUCTS CO.
RP Address: 17315 STUDEBAKER RD., CERRITOS, 90701 C
Global Id: T0603703223
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 05/21/1991
Lead Agency: Regional Board
Local Agency: 19000
Substance: Gasoline
Case Type: Groundwater
Status: Case Closed
Region: 4

ARCO #1974 (Continued) **S102424196**

Staff: UNK	
Date Case Last Changed on Database:	7/24/96
Date Leak Record Entered:	5/22/91
Historical Max MTBE Date:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil :	Not reported
County:	Los Angeles
Organization :	Not reported
Regional Board:	4
Owner Contact: Not reported	
Responsible Party:	ARCO PRODUCTS CO.
RP Address:	17315 STUDEBAKER RD., CERRITOS, 90701 C
Significant Interim Remedial Action Taken:	Not reported
Program :	LUST
Lat / Long :	34 / -119
Local Agency Staff:	Not reported
Summary :	Not reported
Hydrologic Basin # :	SANTA CLARA RIVER VA
Beneficial Use :	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	0
Abatement Method Used at the Site:	Not reported
Operator :	SCANLON, MICHAEL J.
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	1024.926093
Assigned Name :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	02/18/1991
How the Leak was Discovered:	OM
How the Leak was Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	5/21/91
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	7/24/96
Enforcement Action Date:	Not reported
Date Leak First Reported:	05/21/1991
Enforcement Type:	Not reported
Global ID :	T0603703223
Cross Street: BOUQUET CYN	

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
R110 West 1/2-1 4755 ft.	**ARCO #1974 23105 VALENCIA SANTA CLARITA, CA 91305**	**HAZNET Cortese**	**S100852736 N/A**

Site 6 of 9 in cluster R

Relative: Lower

Actual: 1160 ft.

HAZNET:

Gepaid:	CAC002204865
TSD EPA ID:	CAD982484933
Gen County:	Los Angeles
Tsd County:	7
Tons:	.5000
Waste Category:	Empty containers less than 30 gallons
Disposal Method:	Disposal, Other
Contact:	SANTA CLARITA CAR WASH INC
Telephone:	(000) 000-0000
Mailing Address:	23105 VALENCIA BLVD SANTA CLARITA, CA 91305
County	Los Angeles

CORTESE:

Region:	CORTESE
Fac Address 2:	Not reported

R111 West 1/2-1 4755 ft.	**CROSS ROADS AUTO WASH 23105 VALENCIA BLVD VALENCIA, CA 91355**	**UST LOS ANGELES CO. HMS**	**U003777333 N/A**

Site 7 of 9 in cluster R

Relative: Lower

Actual: 1160 ft.

HMS:

Facility Id:	006290-016804		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

State UST:

Facility ID:	016804
Region:	STATE
Local Agency:	19000

R112 West 1/2-1 4755 ft.	**MICHAEL SCANLON 23105 VALENCIA BLVD VALENCIA, CA 91355**	**HIST UST**	**U001567869 N/A**

Site 8 of 9 in cluster R

Relative: Lower

Actual: 1160 ft.

UST HIST:

Facility ID:	26689	Owner Name:	ARCO PETROLEUM PRODUCTS CO.
Total Tanks:	6	Region:	STATE
Owner Address:	515 SOUTH FLOWER STREET LOS ANGELES, CA 90071		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	0000000001
Tank Capacity:	00010000	Year Installed:	1968
Type of Fuel:	06	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	Not reported	Telephone:	(000) 000-0000
Facility Type:	Gas Station	Other Type:	Not reported

MICHAEL SCANLON (Continued) **U001567869**

Facility ID: 26689
Total Tanks: 6
Owner Address: 515 SOUTH FLOWER STREET
LOS ANGELES, CA 90071
Tank Used for: PRODUCT
Tank Num: 2
Tank Capacity: 00004000
Type of Fuel: 06
Leak Detection: Stock Inventor
Contact Name: Not reported
Facility Type: Gas Station

Owner Name: ARCO PETROLEUM PRODUCTS CO.
Region: STATE
Container Num: 0000000002
Year Installed: 1968
Tank Construction: Not Reported
Telephone: (000) 000-0000
Other Type: Not reported

Facility ID: 26689
Total Tanks: 6
Owner Address: 515 SOUTH FLOWER STREET
LOS ANGELES, CA 90071
Tank Used for: PRODUCT
Tank Num: 3
Tank Capacity: 00004000
Type of Fuel: 06
Leak Detection: Stock Inventor
Contact Name: Not reported
Facility Type: Gas Station

Owner Name: ARCO PETROLEUM PRODUCTS CO.
Region: STATE
Container Num: 0000000003
Year Installed: 1968
Tank Construction: Not Reported
Telephone: (000) 000-0000
Other Type: Not reported

Facility ID: 26689
Total Tanks: 6
Owner Address: 515 SOUTH FLOWER STREET
LOS ANGELES, CA 90071
Tank Used for: PRODUCT
Tank Num: 4
Tank Capacity: 00006000
Type of Fuel: 06
Leak Detection: Stock Inventor
Contact Name: Not reported
Facility Type: Gas Station

Owner Name: ARCO PETROLEUM PRODUCTS CO.
Region: STATE
Container Num: 0000000004
Year Installed: 1968
Tank Construction: Not Reported
Telephone: (000) 000-0000
Other Type: Not reported

Facility ID: 26689
Total Tanks: 6
Owner Address: 515 SOUTH FLOWER STREET
LOS ANGELES, CA 90071
Tank Used for: PRODUCT
Tank Num: 5
Tank Capacity: 00006000
Type of Fuel: 06
Leak Detection: Stock Inventor
Contact Name: Not reported
Facility Type: Gas Station

Owner Name: ARCO PETROLEUM PRODUCTS CO.
Region: STATE
Container Num: 0000000005
Year Installed: 1971
Tank Construction: Not Reported
Telephone: (000) 000-0000
Other Type: Not reported

Facility ID: 26689
Total Tanks: 6
Owner Address: 515 SOUTH FLOWER STREET
LOS ANGELES, CA 90071
Tank Used for: PRODUCT
Tank Num: 6
Tank Capacity: 00000550
Type of Fuel: WASTE OIL

Owner Name: ARCO PETROLEUM PRODUCTS CO.
Region: STATE
Container Num: 0000000006
Year Installed: 1978
Tank Construction: 0000093 inches

MICHAEL SCANLON (Continued) **U001567869**

Leak Detection: Stock Inventor
Contact Name: Not reported — Telephone: (000) 000-0000
Facility Type: Gas Station — Other Type: Not reported

R113 West 1/2-1 4804 ft. — **MCDONALDS RESTAURANT** — **LOS ANGELES CO. HMS** — **S104538553 N/A**
23111 W VALENCIA BLVD
SANTA CLARITA, CA

Site 9 of 9 in cluster R

Relative: Lower
Actual: 1160 ft.

HMS:
Facility Id: 007721-I08155
Area: 7A
Facility Type: I01
Permit Number: 174 — Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

T114 ESE 1/2-1 4825 ft. — **AMERICAN CYANAMID, ENGINEERED** — **HIST UST EMI** — **U001567686 N/A**
21444 GOLDEN TRIANGLE RD
SAUGUS, CA 91350

Site 1 of 11 in cluster T

Relative: Higher
Actual: 1239 ft.

UST HIST:
Facility ID: 6429 — Owner Name: AMERICAN CYANAMID COMPANY
Total Tanks: 3 — Region: STATE
Owner Address: ONE CYANAMID PLAZA
WAYNE, NJ 07470
Tank Used for: WASTE
Tank Num: 1 — Container Num: ACS-0001
Tank Capacity: 00000500 — Year Installed: Not reported
Type of Fuel: Not reported — Tank Construction: Not Reported
Leak Detection: Not reported
Contact Name: STUART C. BLAIR — Telephone: (805) 259-1415
Facility Type: Other — Other Type: MANUFACTURING

Facility ID: 6429 — Owner Name: AMERICAN CYANAMID COMPANY
Total Tanks: 3 — Region: STATE
Owner Address: ONE CYANAMID PLAZA
WAYNE, NJ 07470
Tank Used for: PRODUCT
Tank Num: 2 — Container Num: ACS-0002
Tank Capacity: 00005000 — Year Installed: 1970
Type of Fuel: Not reported — Tank Construction: 1/4IN inches
Leak Detection: Stock Inventor, Pressure Test
Contact Name: STUART C. BLAIR — Telephone: (805) 259-1415
Facility Type: Other — Other Type: MANUFACTURING

Facility ID: 6429 — Owner Name: AMERICAN CYANAMID COMPANY
Total Tanks: 3 — Region: STATE
Owner Address: ONE CYANAMID PLAZA
WAYNE, NJ 07470
Tank Used for: PRODUCT
Tank Num: 3 — Container Num: ACS-0003
Tank Capacity: 00008000 — Year Installed: 1970
Type of Fuel: Not reported — Tank Construction: 1/4 INC unknown
Leak Detection: Stock Inventor, Pressure Test

AMERICAN CYANAMID, ENGINEERED (Continued) **U001567686**

Contact Name: STUART C. BLAIR Telephone: (805) 259-1415
Facility Type: Other Other Type: MANUFACTURING

EMISSIONS :

Facility ID :	12879
Air District Code :	SC
SIC Code :	2295
Total Priority Score :	Not reported
Health Risk Assessment :	Not reported
Non-cancer Chronic Haz Index :	Not reported
Non-cancer Acute Haz Index :	Not reported
Air Basin :	SC
Air District Name :	SOUTH COAST AQMD
Community Health Air Pollution Info System :	Not reported
Consolidated Emission Reporting Rule :	Not reported
County Code :	19
County ID :	19

T115
ESE
1/2-1
4825 ft.

21444 GOLDEN TRIANGLE **ERNS** **92263926**
21444 GOLDEN TRIANGLE **N/A**
SAUGUS, CA 91350

Site 2 of 11 in cluster T

Relative: Higher

Actual: 1239 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

T116
ESE
1/2-1
4825 ft.

AMERICAN CYANAMID CO **LOS ANGELES CO. HMS** **S104537092**
21444 W GOLDEN TRIANGLE RD **N/A**
SANTA CLARITA, CA

Site 3 of 11 in cluster T

Relative: Higher

Actual: 1239 ft.

HMS:

Facility Id: 001972-I02049
Area: 7A
Facility Type: I09
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

Facility Id: 001972-002049
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Closed
Facility Status: Permit
Region: Los Angeles County:

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
T117 **ESE** **1/2-1** **4825 ft.** **Relative:** **Higher**	**AMERICAN CYANAMID** **21444 GOLDEN TRIANGLE RD** **SAUGUS, CA 91350** **Site 4 of 11 in cluster T**	**FINDS** **HAZNET** **Cortese** **RCRIS-LQG** **RCRIS-TSD** **CORRACTS** **CERC-NFRAP**	**1000360638** **CAT080010929**

Actual:
1239 ft.

CERCLIS-NFRAP Classification Data:
Site Incident Category: Not reported
Non NPL Code: DR
Ownership Status: Private
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	04/01/1991
Assessment:	PRELIMINARY ASSESSMENT	Completed:	09/24/1991
Assessment:	ARCHIVE SITE	Completed:	01/23/1996

CORRACTS Data:

EPA Id: CAT080010929
Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 09/15/1991
Corrective Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
2002 NAICS Title: Fabric Coating Mills
Fabric Coating Mills
Plastics Material and Resin Manufacturing
Adhesive Manufacturing

RCRIS Corrective Action Summary:
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.
Event Date: 09/15/1991

RCRIS:
Owner: AMERICAN CYANAMID COMPANY
(805) 259-1415
EPA ID: CAT080010929

Contact: Not reported

Classification: Large Quantity Generator, TSDF
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 04/29/1994
Actual Date Achieved Compliance: 06/08/1994

Regulation Violated: Not reported
Area of Violation: GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined: 04/29/1994
Actual Date Achieved Compliance: 06/08/1994

Regulation Violated: Not reported
Area of Violation: TSD-GENERAL STANDARDS
Date Violation Determined: 04/29/1994
Actual Date Achieved Compliance: 06/08/1994

Regulation Violated: Not reported
Area of Violation: TSD-CONTINGENCY PLAN REQUREMENTS

AMERICAN CYANAMID (Continued) **1000360638**

Date Violation Determined: 04/29/1994
Actual Date Achieved Compliance: 06/08/1994

Regulation Violated: Not reported
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 05/23/1990
Actual Date Achieved Compliance: 06/08/1990

Regulation Violated: Not reported
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 05/23/1990
Actual Date Achieved Compliance: 06/08/1990

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS
Date Violation Determined: 05/23/1990
Actual Date Achieved Compliance: 06/08/1990

Regulation Violated: Not reported
Area of Violation: TSD-MANIFEST REQUIREMENTS
Date Violation Determined: 05/23/1990
Actual Date Achieved Compliance: 06/08/1990

Regulation Violated: Not reported
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 07/20/1988
Actual Date Achieved Compliance: 06/08/1990

Regulation Violated: Not reported
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 07/20/1988
Actual Date Achieved Compliance: 06/08/1990

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS
Date Violation Determined: 07/20/1988
Actual Date Achieved Compliance: 12/06/1988

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 07/14/1988
Actual Date Achieved Compliance: 11/02/1988

There are 12 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance

FINDS:
Other Pertinent Environmental Activity Identified at Site:
National Emissions Inventory (NEI)
National Toxics Inventory (NTI)
Resource Conservation and Recovery Act Information system (RCRAINFO)
Toxic Chemical Release Inventory System (TRIS)

AMERICAN CYANAMID (Continued) **1000360638**

HAZNET:

Gepaid:	CAT080010929
TSD EPA ID:	CAD008302903
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.1876
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Not reported
Contact:	AMERICAN CYANAMID COMPANY
Telephone:	(000) 000-0000
Mailing Address:	21444 GOLDEN TRIANGLE RD SAUGUS, CA 91350
County	Los Angeles

Gepaid:	CAT080010929
TSD EPA ID:	CAD008302903
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.1467
Waste Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	Recycler
Contact:	AMERICAN CYANAMID COMPANY
Telephone:	(000) 000-0000
Mailing Address:	21444 GOLDEN TRIANGLE RD SAUGUS, CA 91350
County	Los Angeles

Gepaid:	CAT080010929
TSD EPA ID:	CAL000027741
Gen County:	Los Angeles
Tsd County:	5
Tons:	8.4280
Waste Category:	Asbestos-containing waste
Disposal Method:	Disposal, Land Fill
Contact:	AMERICAN CYANAMID COMPANY
Telephone:	(000) 000-0000
Mailing Address:	21444 GOLDEN TRIANGLE RD SAUGUS, CA 91350
County	Los Angeles

Gepaid:	CAT080010929
TSD EPA ID:	CAD982484933
Gen County:	Los Angeles
Tsd County:	7
Tons:	7.0000
Waste Category:	Other empty containers 30 gallons or more
Disposal Method:	Recycler
Contact:	AMERICAN CYANAMID COMPANY
Telephone:	(000) 000-0000
Mailing Address:	21444 GOLDEN TRIANGLE RD SAUGUS, CA 91350
County	Los Angeles

AMERICAN CYANAMID (Continued) **1000360638**

Gepaid: CAT080010929
TSD EPA ID: CAT000646117
Gen County: Los Angeles
Tsd County: Kings
Tons: 2.2517
Waste Category: Unspecified aqueous solution
Disposal Method: Not reported
Contact: AMERICAN CYANAMID COMPANY
Telephone: (000) 000-0000
Mailing Address: 21444 GOLDEN TRIANGLE RD
SAUGUS, CA 91350
County Los Angeles

Click this hyperlink while viewing on your computer to access 11 additional CA HAZNET record(s) in the EDR Site Report.

CORTESE:
Region: CORTESE
Fac Address 2: Not reported

T118
ESE
1/2-1
4825 ft.

21444 GOLDEN TRIANGLE RD
21444 GOLDEN TRIANGLE RD
SAUGUS, CA 91350

Site 5 of 11 in cluster T

Relative:
Higher

Actual:
1239 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

ERNS **92261459**
N/A

T119
ESE
1/2-1
4825 ft.

21444 GOLDEN TRIANGLE RD
21444 GOLDEN TRIANGLE RD
SAUGUS, CA 91350

Site 6 of 11 in cluster T

Relative:
Higher

Actual:
1239 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

ERNS **91234870**
N/A

T120
ESE
1/2-1
4825 ft.

21444 GOLDEN TRIANGLE RD
21444 GOLDEN TRIANGLE RD
SAUGUS, CA

Site 7 of 11 in cluster T

Relative:
Higher

Actual:
1239 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

ERNS **91233147**
N/A

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
T121 **ESE** **1/2-1** **4825 ft.** **Relative:** **Higher** **Actual:** **1239 ft.**	**21444 GOLDEN TRIANGLE RD** **21444 GOLDEN TRIANGLE RD** **SAUGUS, CA 91350** **Site 8 of 11 in cluster T** Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.	**ERNS**	**91467142** **N/A**
T122 **ESE** **1/2-1** **4825 ft.** **Relative:** **Higher** **Actual:** **1239 ft.**	**CYTEC INDUSTRIES** **21444 W GOLDEN TRIANGLE RD** **SANTA CLARITA, CA** **Site 9 of 11 in cluster T** HMS: Facility Id: 001972-021306 Area: 7A Facility Type: T0 Permit Number: 174 Permit Status: Removed Facility Status: Removed Region: Los Angeles County:	**LOS ANGELES CO. HMS**	**S102064071** **N/A**
T123 **ESE** **1/2-1** **4825 ft.** **Relative:** **Higher** **Actual:** **1239 ft.**	**21444 GOLDEN TRIANGLE** **21444 GOLDEN TRIANGLE** **SAUGUS, CA 91350** **Site 10 of 11 in cluster T** Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.	**ERNS**	**92263925** **N/A**
T124 **ESE** **1/2-1** **4826 ft.** **Relative:** **Higher** **Actual:** **1239 ft.**	**LAKESIDE BOAT SERVICE** **21452 GOLDEN TRIANGLE RD** **SANTA CLARITA, CA 91350** **Site 11 of 11 in cluster T** HAZNET: Gepaid: CAL000221254 TSD EPA ID: CAD099452708 Gen County: Los Angeles Tsd County: Los Angeles Tons: .2293 Waste Category: Waste oil and mixed oil Disposal Method: Recycler Contact: AMIR IBRAHIM Telephone: (661) 254-0644 Mailing Address: 21452 GOLDEN TRIANGLE RD SANTA CLARITA, CA 91350 County Los Angeles	**HAZNET**	**S105093538** **N/A**

LAKESIDE BOAT SERVICE (Continued) **S105093538**

Gepaid:	CAL000221254
TSD EPA ID:	CAD008302903
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2293
Waste Category:	Unspecified solvent mixture Waste
Disposal Method:	Not reported
Contact:	AMIR IBRAHIM
Telephone:	(661) 254-0644
Mailing Address:	21452 GOLDEN TRIANGLE RD SANTA CLARITA, CA 91350
County	Los Angeles

Q125
ESE
1/2-1
4853 ft.

26477 GOLDEN TRIANGLE RD.
SANTA CLARITA, CA 91355

CHMIRS **S100217867**
N/A

Site 8 of 8 in cluster Q

Relative:
Higher

Actual:
1260 ft.

CHMIRS:

OES Control Number:	8908461
Chemical Name:	Not reported
Extent of Release:	Not reported
Property Use:	Manufacturing
Incident Date:	18-OCT-89
Date Completed:	18-OCT-89
Time Completed :	800
Agency Id Number :	19110
Agency Incident Number :	9
OES Incident Number :	8908461
Time Notified :	619
Surrounding Area :	500
Estimated Temperature :	60
Property Management :	K
More Than Two Substances Involved? :	N
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	0
Others Number Of Decontaminated :	0
Others Number Of Injuries :	0
Others Number Of Fatalities :	0
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	ROBERT J SHEETS CAPT #185
Report Date :	18-OCT-89
Comments :	Not reported
Facility Telephone Number :	213 267-2485
Waterway Involved :	Not reported

(Continued) **S100217867**

Waterway :	Not reported
Spill Site :	Not reported
Cleanup By :	Not reported
Containment :	Not reported
What Happened :	Not reported
Type :	Not reported
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	Not reported
Evacuations :	Not reported

U126
NNE
1/2-1
4886 ft.

CASTAIC LAKE WATER AGNCY
27234 BOUQUET CANYON RD
SAUGUS, CA 91350

RCRIS-SQG **1001075566**
FINDS **CAR000006544**

Site 1 of 7 in cluster U

Relative:
Higher

Actual:
1239 ft.

RCRIS:

Owner:	CASTAIC LAKE WATER AGNCY (805) 297-1600
EPA ID:	CAR000006544
Contact:	GEORGE CORE (805) 297-1600
Classification:	Small Quantity Generator
TSDF Activities:	Not reported
Violation Status:	No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

U127
NNE
1/2-1
4886 ft.

RIO VISTA WATER TREATMENT
27234 BOUQUET CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S104536199**
N/A

Site 2 of 7 in cluster U

Relative:
Higher

Actual:
1239 ft.

HMS:

Facility Id:	019947-028465		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
U128 **NNE** **1/2-1** **4886 ft.**	**CASTAIC LAKE WATER AGENCY** **27234 N BOUQUET CANYON RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S105570361** **N/A**

Site 3 of 7 in cluster U

Relative: Higher

Actual: 1239 ft.

HMS:

Facility Id:	008984-037804		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

U129 **NNE** **1/2-1** **4886 ft.**	**RIO VISTA WATER TREATMENT PLT** **27234 N BOUQUET CANYON RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S105512334** **N/A**

Site 4 of 7 in cluster U

Relative: Higher

Actual: 1239 ft.

HMS:

Facility Id:	008984-001268		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

U130 **NNE** **1/2-1** **4886 ft.**	**CASTAIC LAKE WATER AGENCY** **27234 BOUQUET CANYON RD** **SAUGUS, CA 91350**	**HAZNET**	**S103955090** **N/A**

Site 5 of 7 in cluster U

Relative: Higher

Actual: 1239 ft.

HAZNET:

Gepaid:	CAR000006544
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.41
Waste Category:	Alkaline solution without metals (pH > 12.5)
Disposal Method:	Recycler
Contact:	UNDELIVERABLE PER VF97 AH
Telephone:	(805) 297-1600
Mailing Address:	27234 BOUQUET CYN RD SANTA CLARITA, CA 91350
County	Not reported

Gepaid:	CAR000006544
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.0298
Waste Category:	Off-specification, aged, or surplus organics
Disposal Method:	Recycler
Contact:	CASTAIC LAKE WATER AGENCY
Telephone:	(805) 297-1600
Mailing Address:	27234 BOUQUET CYN RD SANTA CLARITA, CA 91350
County	Los Angeles

CASTAIC LAKE WATER AGENCY (Continued) **S103955090**

Gepaid: CAR000006544
TSD EPA ID: CAT080022148
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: .0050
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Not reported
Contact: CASTAIC LAKE WATER AGENCY
Telephone: (805) 297-1600
Mailing Address: 27234 BOUQUET CYN RD
SANTA CLARITA, CA 91350
County Los Angeles

Gepaid: CAR000006544
TSD EPA ID: CAT080022148
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: .0250
Waste Category: Unspecified organic liquid mixture
Disposal Method: ***
Contact: CASTAIC LAKE WATER AGENCY
Telephone: (805) 297-1600
Mailing Address: 27234 BOUQUET CYN RD
SANTA CLARITA, CA 91350
County Los Angeles

Gepaid: CAR000006544
TSD EPA ID: CAT080022148
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: .0083
Waste Category: Pesticides and other waste associated with pesticide production
Disposal Method: Not reported
Contact: CASTAIC LAKE WATER AGENCY
Telephone: (805) 297-1600
Mailing Address: 27234 BOUQUET CYN RD
SANTA CLARITA, CA 91350
County Los Angeles

Click this hyperlink while viewing on your computer to access
23 additional CA HAZNET record(s) in the EDR Site Report.

U131 **RIO VISTA WTP PUMPING STA** **UST** **U003777367**
NNE **27234 BOUQUET CANYON RD** **N/A**
1/2-1 **SANTA CLARITA, CA 91350**
4886 ft.

Site 6 of 7 in cluster U

Relative:
Higher

State UST:
Facility ID: 020673
Region: STATE
Local Agency: 19000

Actual:
1239 ft.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
U132 NNE 1/2-1 4901 ft.	**RIO VISTA WATER TREATMENT PLT 27236 BOUQUET CANYON RD SANTA CLARITA, CA 91350**	**UST**	**U003775875 N/A**

Site 7 of 7 in cluster U

Relative: Higher

Actual: 1239 ft.

State UST:
Facility ID: 001268
Region: STATE
Local Agency: 19000

V133 ESE 1/2-1 4942 ft.	**FOSTER FREEZE 21525 W SOLEDAD CANYON RD SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S105422129 N/A**

Site 1 of 2 in cluster V

Relative: Higher

Actual: 1241 ft.

HMS:
Facility Id: 008239-I08780
Area: 7A
Facility Type: I02
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

V134 ESE 1/2-1 4942 ft.	**FOSTERS FREEZE 21525 W SOLEDAD CANYON RD SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S105422130 N/A**

Site 2 of 2 in cluster V

Relative: Higher

Actual: 1241 ft.

HMS:
Facility Id: 008239-022268
Area: 7A
Facility Type: I02
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

W135 West 1/2-1 4961 ft.	**BOOK NIPPAN 1123 E DOMINGUEZ ST K CARSON, CA**	**LOS ANGELES CO. HMS**	**S102064171 N/A**

Site 1 of 4 in cluster W

Relative: Lower

Actual: 1158 ft.

HMS:
Facility Id: 002117-023458
Area: 7A
Facility Type: I02
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 023960-033305
Area: 22
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
W136 West 1/2-1 4998 ft.	**GLORY CLEANERS 23142 VALENCIA VALENCIA, CA 91355**	**RCRIS-SQG FINDS HAZNET CLEANERS**	**1001111780 CAR000013185**

Site 2 of 4 in cluster W

Relative:
Lower

Actual:
1158 ft.

RCRIS:
Owner: GURGUIS CHEHATA
(805) 222-9382
EPA ID: CAR000013185

Contact: GURGUIS CHEHATA
(805) 222-9382

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

CA Cleaners:
Inactive Date: Not reported
EPA Id: CAL000175106
Facility Address 2 Not reported
NAICS Code : Not reported
Facility Active : Yes
Mail Name : Not reported
Mailing Address: 23142 VALENCIA BLVD
VALENCIA, CA 91355
Owner Name : MAGDI W RIAD
Mailing Address: --
--, 99 --
Owner Telephone 0000000000
Contact Name : MAGDI RIAD OWNER
Mailing Address: CHEHATA/MGR
--, 99 --
Contact Telephone 8052229382
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

Inactive Date: 6/30/1998
EPA Id: CAR000013185
Facility Address 2 Not reported
NAICS Code : Not reported
Facility Active : No
Mail Name : Not reported
Mailing Address: 23142 VALENCIA BLVD
VALENCIA, CA 91355
Owner Name : GURGUIS CHEHATA
Mailing Address: 23142 VALENCIA BLVD
VALENCIA, CA 91355
Owner Telephone 8052229382
Contact Name : GURGUIS CHEHATA
Mailing Address: INACT PER 98VQ FINAL NOTICE
- BATCH 4/27
VALENCIA, CA 91355
Contact Telephone 8052229382

GLORY CLEANERS (Continued) **1001111780**

Contact Fax : Not reported
Contact Email : Not reported
Region Code : 0

HAZNET:

Gepaid: CAL000175106
TSD EPA ID: CAD981397417
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1584
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: MAGDI W RIAD
Telephone: (000) 000-0000
Mailing Address: 23142 VALENCIA BLVD
VALENCIA, CA 91355 - 1716
County Los Angeles

Gepaid: CAL000175106
TSD EPA ID: CAD981397417
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2835
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: MAGDI W RIAD
Telephone: (000) 000-0000
Mailing Address: 23142 VALENCIA BLVD
VALENCIA, CA 91355 - 1716
County Los Angeles

Gepaid: CAL000175106
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Not reported
Tons: 0
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Not reported
Contact: MAGDI RIAD OWNER
Telephone: (805) 222-9382
Mailing Address: 23142 VALENCIA BLVD
VALENCIA, CA 91355 - 1716
County Not reported

Gepaid: CAL000175106
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Not reported
Tons: 0.17
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: MAGDI RIAD OWNER
Telephone: (805) 222-9382
Mailing Address: 23142 VALENCIA BLVD
VALENCIA, CA 91355 - 1716
County Not reported

GLORY CLEANERS (Continued) **1001111780**

Gepaid: CAL000175106
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 0.17
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Not reported
Contact: MAGDI RIAD OWNER
Telephone: (805) 222-9382
Mailing Address: 23142 VALENCIA BLVD
VALENCIA, CA 91355 - 1716
County Not reported

Click this hyperlink while viewing on your computer to access
1 additional CA HAZNET record(s) in the EDR Site Report.

W137
West
1/2-1
5093 ft.

BACKYARD INVESTMENT GROUP
23154 W VALENCIA BLVD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S104828053**
N/A

Site 3 of 4 in cluster W

Relative:
Lower

Actual:
1155 ft.

HMS:
Facility Id: 002117-I02194
Area: 7A
Facility Type: I02
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

138
WSW
1/2-1
5142 ft.

DR BORIS ZAK'S DENTAL OFFICE
26324 N BOUQUET CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S102321790**
N/A

Relative:
Lower

Actual:
1165 ft.

HMS:
Facility Id: 017507-023852
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

W139
West
1/2-1
5217 ft.

WESTERN BAGEL TOO
23170 W VALENCIA BLVD
VALENCIA, CA 91355

HAZNET **S103995489**
N/A

Site 4 of 4 in cluster W

Relative:
Lower

Actual:
1153 ft.

WESTERN BAGEL TOO (Continued) **S103995489**

HAZNET:
Gepaid: CAC001185976
TSD EPA ID: CAL000027741
Gen County: Los Angeles
Tsd County: 5
Tons: 5.8996
Waste Category: Asbestos-containing waste
Disposal Method: Disposal, Land Fill
Contact: WESTERN BAGEL TOO
Telephone: (000) 000-0000
Mailing Address: 23170 W VALENCIA BLVD
VALENCIA, CA 91355
County Los Angeles

X140 WSW 1/2-1 5225 ft. **M&M HARRIGAN** **LOS ANGELES CO. HMS** **S104733332**
23300 W CINEMA DR #112 **N/A**
SANTA CLARITA, CA

Site 1 of 10 in cluster X

Relative: Lower
Actual: 1166 ft.

HMS:
Facility Id: 017528-032617
Area: 7A
Facility Type: I02
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

X141 WSW 1/2-1 5225 ft. **PAULI'S ITALIAN RESTAURANT** **LOS ANGELES CO. HMS** **S102321783**
23300 CINEMA DR #109 **N/A**
SANTA CLARITA, CA

Site 2 of 10 in cluster X

Relative: Lower
Actual: 1166 ft.

HMS:
Facility Id: 017553-023958
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

X142 WSW 1/2-1 5225 ft. **GERALD H. HEIDT CO.** **LOS ANGELES CO. HMS** **S103945153**
23300 W CINEMA DR #112 **N/A**
SANTA CLARITA, CA

Site 3 of 10 in cluster X

Relative: Lower
Actual: 1166 ft.

HMS:
Facility Id: 017528-027221
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
X143 WSW 1/2-1 5225 ft.	UGGLES RESTAURANT 23300 W CINEMA DR #112 SANTA CLARITA, CA	LOS ANGELES CO. HMS	S102321784 N/A

Site 4 of 10 in cluster X

Relative: Lower

Actual: 1166 ft.

HMS:

Facility Id:	017528-023908		
Area:	7A		
Facility Type:	I02		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

X144 WSW 1/2-1 5241 ft.	UNOCAL #5518 26279 BOUQUET CANYON RD SAUGUS, CA 91350	LUST Cortese	S102440043 N/A

Site 5 of 10 in cluster X

Relative: Lower

Actual: 1167 ft.

State LUST:

Cross Street:	CENTURION		
Qty Leaked:	0		
Case Number	913500034		
Reg Board:	4		
Chemical:	Gasoline		
Lead Agency:	Regional Board		
Local Agency :	19000		
Case Type:	Other ground water affected		
Status:	Case Closed		
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	6/11/86 0:00		
Release Date:	03/10/1986		
Cleanup Fund Id :	Not reported		
Discover Date :	/ /		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	12/31/86 0:00		
Funding:	Not reported		
Staff Initials:	Not reported		
How Discovered:	Not reported		
How Stopped:	Not reported		
Interim :	Yes		
Leak Cause:	UNK		
Leak Source:	UNK		
MTBE Date :	Not reported		
Max MTBE GW :	Not reported		
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	Not reported		
Staff :	UNK		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		

UNOCAL #5518 (Continued) **S102440043**

Hydr Basin #: SANTA CLARA RIVER VA
Operator : Not reported
Oversight Prgm: LUST
Review Date : 3/30/89 0:00
Stop Date : / /
Work Suspended :Not reported
Responsible PartyUNOCAL
RP Address: 3701 WILSHIRE BLVD, SUITE 800, LOS ANGELES, CA 90010
Global Id: T0603702306
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 03/10/1986
Lead Agency: Regional Board
Local Agency: 19000
Substance: Gasoline
Case Type: Groundwater
Status: Case Closed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 3/30/89
Date Leak Record Entered: 12/31/86
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : Not reported
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: UNOCAL
RP Address: 3701 WILSHIRE BLVD, SUITE 800, LOS ANGELES, CA 90010
Significant Interim Remedial Action Taken: Yes
Program : LUST
Lat / Long : 34 / -119
Local Agency Staff: Not reported
Summary : NO FURTHER ACTION REQUIRED. EO LETTER SENT 06/11/86 TANKS AND CONTAMINATED SOIL AND WATER REMOVED.
Hydrologic Basin # : SANTA CLARA RIVER VA
Beneficial Use : Not reported
Priority : Not reported
Cleanup Fund Id : Not reported
Suspended : Not reported
Local Case No : Not reported
Substance Quantity : 0
Abatement Method Used at the Site: Excavate and Dispose
Operator : Not reported
Water System : Not reported

UNOCAL #5518 (Continued) **S102440043**

Well Name :	Not reported
Approx. Dist To Production Well (ft) :	1053.987858
Assigned Name :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	/ /
How the Leak was Discovered:	Not reported
How the Leak was Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	6/11/86
Enforcement Action Date:	Not reported
Date Leak First Reported:	03/10/1986
Enforcement Type:	Not reported
Global ID :	T0603702306
Cross Street: CENTURION	

CORTESE:

Region:	CORTESE
Fac Address 2:	26279 BOUQUET CANYON RD

X145
WSW
1/2-1
5241 ft.

WOLF'S BOUQUET UNION & TOW. IN **HIST UST** **U001567736**
26279 BOUQUET CANYON RD **N/A**
SAUGUS, CA 91350

Site 6 of 10 in cluster X

Relative:
Lower

Actual:
1167 ft.

UST HIST:

Facility ID:	51049	Owner Name:	WOLF'S BOUQUET UNION & TOWING,
Total Tanks:	3	Region:	STATE
Owner Address:	26279 BOUQUET CYN. RD. SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00010000	Year Installed:	1966
Type of Fuel:	PREMIUM	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	DONALD E. WOLF	Telephone:	(805) 259-7676
Facility Type:	Gas Station	Other Type:	Not reported

Facility ID:	51049	Owner Name:	WOLF'S BOUQUET UNION & TOWING,
Total Tanks:	3	Region:	STATE
Owner Address:	26279 BOUQUET CYN. RD. SAUGUS, CA 91350		
Tank Used for:	WASTE		
Tank Num:	2	Container Num:	3
Tank Capacity:	00001000	Year Installed:	1966
Type of Fuel:	WASTE OIL	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	DONALD E. WOLF	Telephone:	(805) 259-7676
Facility Type:	Gas Station	Other Type:	Not reported

WOLF'S BOUQUET UNION & TOW. IN (Continued) **U001567736**

Facility ID:	51049	Owner Name:	WOLF'S BOUQUET UNION & TOWING,
Total Tanks:	3	Region:	STATE
Owner Address:	26279 BOUQUET CYN. RD. SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	3	Container Num:	2
Tank Capacity:	00010000	Year Installed:	1966
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	DONALD E. WOLF	Telephone:	(805) 259-7676
Facility Type:	Gas Station	Other Type:	Not reported

X146
WSW
1/2-1
5241 ft.

Relative:
Lower

Actual:
1167 ft.

UNION OIL SERVICE STATION 5518 **HIST UST** **U001567731**
26279 BOUQUET CANYON RD **N/A**
SAUGUS, CA 91350

Site 7 of 10 in cluster X

UST HIST:

Facility ID:	56205	Owner Name:	UNION OIL COMPANY OF CALIFORNI
Total Tanks:	1	Region:	STATE
Owner Address:	3701 WILSHIRE BOULEVARD-SUITE LOS ANGELES, CA 90010		
Tank Used for:	WASTE		
Tank Num:	1	Container Num:	1
Tank Capacity:	00000000	Year Installed:	Not reported
Type of Fuel:	WASTE OIL	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	DONALD WOLF	Telephone:	(805) 259-7676
Facility Type:	Gas Station	Other Type:	Not reported

X147
WSW
1/2-1
5241 ft.

Relative:
Lower

Actual:
1167 ft.

UNOCAL CORP SS **LOS ANGELES CO. HMS** **U002280350**
26279 N BOUQUET CANYON RD **N/A**
SANTA CLARITA, CA

Site 8 of 10 in cluster X

HMS:

Facility Id:	005834-I06048		
Area:	7A		
Facility Type:	I00		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		
Facility Id:	005834-006048		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Removed
Facility Status:	Removed		
Region:	Los Angeles County:		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
X148 WSW 1/2-1 5241 ft.	**SERVICE STATION 5518 26279 BOUQUET CANYON RD SAUGUS, CA 91350**	**HIST UST**	**U001567724 N/A**

Relative: Lower

Actual: 1167 ft.

Site 9 of 10 in cluster X

UST HIST:

Facility ID:	8021	Owner Name:	UNION OIL COMPANY OF CALIFORNI
Total Tanks:	3	Region:	STATE
Owner Address:	3701 WILSHIRE BOULEVARD-SUITE LOS ANGELES, CA 90010		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	5518-1
Tank Capacity:	00009950	Year Installed:	1965
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor, Pressure Test		
Contact Name:	DONALD WOLF	Telephone:	(805) 259-7676
Facility Type:	Gas Station	Other Type:	Not reported

Facility ID:	8021	Owner Name:	UNION OIL COMPANY OF CALIFORNI
Total Tanks:	3	Region:	STATE
Owner Address:	3701 WILSHIRE BOULEVARD-SUITE LOS ANGELES, CA 90010		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	5518-2
Tank Capacity:	00009950	Year Installed:	1965
Type of Fuel:	PREMIUM	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor, Pressure Test		
Contact Name:	DONALD WOLF	Telephone:	(805) 259-7676
Facility Type:	Gas Station	Other Type:	Not reported

Facility ID:	8021	Owner Name:	UNION OIL COMPANY OF CALIFORNI
Total Tanks:	3	Region:	STATE
Owner Address:	3701 WILSHIRE BOULEVARD-SUITE LOS ANGELES, CA 90010		
Tank Used for:	WASTE		
Tank Num:	3	Container Num:	5518-4
Tank Capacity:	00000280	Year Installed:	1965
Type of Fuel:	WASTE OIL	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor, Pressure Test		
Contact Name:	DONALD WOLF	Telephone:	(805) 259-7676
Facility Type:	Gas Station	Other Type:	Not reported

X149 WSW 1/2-1 5266 ft.	**CROSSROADS DENTAL CENTER 26246 BOUQUET CANYON RD SAUGUS, CA 91350**	**HAZNET**	**S102826494 N/A**

Relative: Lower

Actual: 1168 ft.

Site 10 of 10 in cluster X

HAZNET:

Gepaid:	CAL921855721
TSD EPA ID:	CAD028409019
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0000
Waste Category:	Other inorganic solid waste
Disposal Method:	Transfer Station
Contact:	DAVID GOLDBERG DDS
Telephone:	(661) 254-6044
Mailing Address:	26246 BOUQUET CANYON RD SANTA CLARITA, CA 91350 - 2645

CROSSROADS DENTAL CENTER (Continued) **S102826494**

County Los Angeles

Gepaid: CAL921855721
TSD EPA ID: CAD050806850
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .8428
Waste Category: Other inorganic solid waste
Disposal Method: Transfer Station
Contact: DAVID GOLDBERG DDS
Telephone: (661) 254-6044
Mailing Address: 26246 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 2645
County Los Angeles

Gepaid: CAL921855721
TSD EPA ID: CAD028409019
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0
Waste Category: Other inorganic solid waste
Disposal Method: Transfer Station
Contact: DAVID GOLDBERG DDS
Telephone: (661) 254-6044
Mailing Address: 26246 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 2645
County Los Angeles

Gepaid: CAL921855721
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .0834
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Not reported
Contact: DAVID GOLDBERG DDS
Telephone: (661) 254-6044
Mailing Address: 26246 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 2645
County Los Angeles

Gepaid: CAL921855721
TSD EPA ID: CAD050806850
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0092
Waste Category: Other inorganic solid waste
Disposal Method: Recycler
Contact: DAVID GOLDBERG DDS
Telephone: (661) 254-6044
Mailing Address: 26246 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 2645
County Los Angeles

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1 additional CA HAZNET record(s) in the EDR Site Report.

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
Y150 **WSW** **1/2-1** **5271 ft.**	**PIP PRINTING #675** **26240 BOUQUET CANYON RD** **SANTA CLARITA, CA 91350**	**HAZNET**	**S100870896** **N/A**

Site 1 of 4 in cluster Y

Relative:
Lower

Actual:
1168 ft.

HAZNET:

Gepaid:	CAL000044792
TSD EPA ID:	CAD108040858
Gen County:	Santa Clara
Tsd County:	Los Angeles
Tons:	.2000
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	DONALD G CAMERON
Telephone:	(000) 000-0000
Mailing Address:	26240 BOUQUET CANYON RD SANTA CLARITA, CA 91350
County	Santa Clara

Gepaid:	CAL000044792
TSD EPA ID:	CAT080033681
Gen County:	Santa Clara
Tsd County:	Los Angeles
Tons:	.8351
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	DONALD G CAMERON
Telephone:	(000) 000-0000
Mailing Address:	26240 BOUQUET CANYON RD SANTA CLARITA, CA 91350
County	Santa Clara

Gepaid:	CAL000044792
TSD EPA ID:	CAT080033681
Gen County:	Santa Clara
Tsd County:	Los Angeles
Tons:	.4000
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Disposal, Other
Contact:	DONALD G CAMERON
Telephone:	(000) 000-0000
Mailing Address:	26240 BOUQUET CANYON RD SANTA CLARITA, CA 91350
County	Santa Clara

Gepaid:	CAL000044792
TSD EPA ID:	CAD108040858
Gen County:	Santa Clara
Tsd County:	Los Angeles
Tons:	.2251
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	DONALD G CAMERON
Telephone:	(000) 000-0000
Mailing Address:	26240 BOUQUET CANYON RD SANTA CLARITA, CA 91350
County	Santa Clara

PIP PRINTING #675 (Continued) **S100870896**

Gepaid: CAL000044792
TSD EPA ID: CAD108040858
Gen County: Santa Clara
Tsd County: Los Angeles
Tons: .1333
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: DONALD G CAMERON
Telephone: (000) 000-0000
Mailing Address: 26240 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
County Santa Clara

Click this hyperlink while viewing on your computer to access
6 additional CA HAZNET record(s) in the EDR Site Report.

Y151
WSW
> 1
5280 ft.

Relative:
Lower

Actual:
1168 ft.

U-HAUL CO. **LOS ANGELES CO. HMS** **S103945419**
26230 BOUQUET CANYON RD **N/A**
SANTA CLARITA, CA

Site 2 of 4 in cluster Y

HMS:
Facility Id: 019822-028293
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

Y152
WSW
> 1
5286 ft.

Relative:
Lower

Actual:
1168 ft.

CAR WASH USA INC **LOS ANGELES CO. HMS** **S105421916**
26225 N BOUQUET CANYON RD **N/A**
SANTA CLARITA, CA

Site 3 of 4 in cluster Y

HMS:
Facility Id: 014729-015431
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

Y153
WSW
> 1
5286 ft.

Relative:
Lower

Actual:
1168 ft.

CAR WASH USA INC **CA FID UST** **S101587230**
26225 BOUQUET CANYON RD **N/A**
SANTA CLARITA, CA 91773

Site 4 of 4 in cluster Y

CAR WASH USA INC (Continued) — **S101587230**

FID:

Facility ID:	19055119	Regulate ID:	Not reported
Reg By:	Active Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Active	Facility Tel:	(714) 592-9562
Mail To:	Not reported 555 W BONITA AVE SANTA CLARITA, CA 91773		
Contact:	Not reported	Contact Tel:	Not reported
DUNs No:	Not reported	NPDES No:	Not reported
Creation:	10/22/93	Modified:	00/00/00
EPA ID:	Not reported		
Comments:	Not reported		

Z154
WSW
> 1
5424 ft.

Relative:
Lower

Actual:
1162 ft.

VACANT — **LOS ANGELES CO. HMS** — **S104536193**
26111 N BOUQUET CANYON RD — **N/A**
SANTA CLARITA, CA

Site 1 of 4 in cluster Z

HMS:

Facility Id:	007298-I07637		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

Z155
WSW
> 1
5424 ft.

Relative:
Lower

Actual:
1162 ft.

FRED SANDS — **LOS ANGELES CO. HMS** — **S102064430**
26111 N BOUQUET CANYON RD — **N/A**
SANTA CLARITA, CA

Site 2 of 4 in cluster Z

HMS:

Facility Id:	015378-016623		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Removed
Facility Status:	Removed		
Region:	Los Angeles County:		

Z156
WSW
> 1
5496 ft.

Relative:
Lower

Actual:
1162 ft.

ANIMAL CLINIC OF SANTA CLARITA — **HAZNET** — **S103647461**
26062 BOUQUET CANYON RD — **N/A**
SAUGUS, CA 91350

Site 3 of 4 in cluster Z

HAZNET:

Gepaid:	CAL000174526
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.2376
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	JOHN BURKHARTSMEYER

ANIMAL CLINIC OF SANTA CLARITA (Continued) **S103647461**

Telephone: (000) 000-0000
Mailing Address: 26062 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
County Los Angeles

Gepaid: CAL000174526
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .3668
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: JOHN BURKHARTSMEYER
Telephone: (000) 000-0000
Mailing Address: 26062 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
County Los Angeles

Gepaid: CAL000174526
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: 0.0625
Waste Category:
Disposal Method: Recycler
Contact: JOHN BURKHARTSMEYER
Telephone: (000) 000-0000
Mailing Address: 26062 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
County Los Angeles

Gepaid: CAL000174526
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: 0.0625
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: JOHN BURKHARTSMEYER
Telephone: (000) 000-0000
Mailing Address: 26062 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
County Los Angeles

Gepaid: CAL000174526
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .3127
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: JOHN BURKHARTSMEYER
Telephone: (000) 000-0000
Mailing Address: 26062 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
County Los Angeles

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
Z157 WSW > 1 5507 ft.	**26057 BOUQUET CANYON RD SAUGUS, CA 0**	**CHMIRS**	**S105658342 N/A**

Site 4 of 4 in cluster Z

Relative: Lower

Actual: 1162 ft.

CHMIRS:

OES Control Number:	98-0090
Chemical Name:	SEWAGE
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	98-0090
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Road
Cleanup By :	Reporting Party
Containment :	Yes
What Happened :	MAIN TRUNK LINE LINE STOPPAGE CAUSED OVERFLOW.
Type :	SEWAGE
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	1/7/98
Evacuations :	0

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
AA158 **WSW** **> 1** **5526 ft.**	**RODNEY L CUMMINGS DC CHIROPRACTIC CORP** **26045 BOQUET CANYON RD.** **SAUGUS, CA 91350**	**HAZNET**	**S103647442** **N/A**

Site 1 of 9 in cluster AA

Relative:
Lower

Actual:
1163 ft.

HAZNET:

Gepaid:	CAL921064815
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.1875
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	RODNEY L CUMMINGS
Telephone:	(661) 254-6107
Mailing Address:	26045 BOUQUET CANYON RD SANTA CLARITA, CA 91350 - 2639
County	Los Angeles

Gepaid:	CAL921064815
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.2501
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	RODNEY L CUMMINGS
Telephone:	(661) 254-6107
Mailing Address:	26045 BOUQUET CANYON RD SANTA CLARITA, CA 91350 - 2639
County	Los Angeles

Gepaid:	CAL921064815
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.2418
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	RODNEY L CUMMINGS
Telephone:	(661) 254-6107
Mailing Address:	26045 BOUQUET CANYON RD SANTA CLARITA, CA 91350 - 2639
County	Los Angeles

Gepaid:	CAL921064815
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	0.125
Waste Category:	
Disposal Method:	Recycler
Contact:	RODNEY L CUMMINGS
Telephone:	(661) 254-6107
Mailing Address:	26045 BOUQUET CANYON RD SANTA CLARITA, CA 91350 - 2639
County	Los Angeles

RODNEY L CUMMINGS DC CHIROPRACTIC CORP (Continued) **S103647442**

Gepaid: CAL921064815
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .0625
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Not reported
Contact: RODNEY L CUMMINGS
Telephone: (661) 254-6107
Mailing Address: 26045 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 2639
County Los Angeles

Click this hyperlink while viewing on your computer to access
3 additional CA HAZNET record(s) in the EDR Site Report.

AB159
NNW
> 1
5527 ft.

Relative:
Higher

Actual:
1223 ft.

WORTMANN OIL CO
26954 N SECO CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S104538244**
N/A

Site 1 of 4 in cluster AB

HMS:
Facility Id: 009374-009181
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

AB160
NNW
> 1
5527 ft.

Relative:
Higher

Actual:
1223 ft.

WORTMANN OIL CO
26954 SECO CANYON RD
SAUGUS, CA 91321

LUST **S102064477**
Cortese **N/A**

Site 2 of 4 in cluster AB

State LUST:
Cross Street: GARZOTA
Qty Leaked: 0
Case Number R-09181
Reg Board: 4
Chemical: Hydrocarbons
Lead Agency: Local Agency
Local Agency : 19000
Case Type: Soil only
Status: Leak being confirmed
Abate Method: Other Means
Review Date: 6/19/97 0:00 Confirm Leak: 6/19/97 0:00
Workplan: Not reported Prelim Assess: Not reported
Pollution Char: Not reported Remed Plan: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: Not reported
Release Date: 06/19/1997
Cleanup Fund Id : Not reported
Discover Date : / /
Enforcement Dt : Not reported
Enf Type: Not reported

WORTMANN OIL CO (Continued) **S102064477**

Enter Date : 7/17/97 0:00
Funding: Not reported
Staff Initials: Not reported
How Discovered: Not reported
How Stopped: Not reported
Interim : Not reported
Leak Cause: Not reported
Leak Source: Tank
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Not Required to be Tested.
Priority: Not reported
Local Case # : 0
Beneficial: Not reported
Staff : UNK
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SANTA CLARA RIVER VA
Operator : JOHN WORTMAN
Oversight Prgm: LUST
Review Date : 8/15/97 0:00
Stop Date : 03/03/1997
Work Suspended :Not reported
Responsible PartyWORTMANN OIL CO
RP Address: 3044 FOOTHILL BLVD., LA CRESCENTA, CA 91214
Global Id: T0603704786
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 06/19/1997
Lead Agency: Local Agency
Local Agency: 19000
Substance: Hydrocarbons
Case Type: Soil
Status: Leak being confirmed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 8/15/97
Date Leak Record Entered: 7/17/97
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : Not reported
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: WORTMANN OIL CO

WORTMANN OIL CO (Continued) **S102064477**

RP Address:	3044 FOOTHILL BLVD., LA CRESCENTA, CA 91214
Significant Interim Remedial Action Taken:	Not reported
Program :	LUST
Lat / Long :	34 / -119
Local Agency Staff:	Not reported
Summary :	DEPTH TO GW. 25FT - 75FT BGS. MTBE OF 160PPM, 16PPM IN SOIL
Hydrologic Basin # :	SANTA CLARA RIVER VA
Beneficial Use :	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	0
Abatement Method Used at the Site:	OT
Operator :	JOHN WORTMAN
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	1557.068253
Assigned Name :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	/ /
How the Leak was Discovered:	Not reported
How the Leak was Stopped:	Not reported
Cause of Leak:	Not reported
Leak Source:	Tank
Date The Leak was Stopped:	3/3/97
Date Confirmation Leak Began:	6/19/97
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	Not reported
Enforcement Action Date:	Not reported
Date Leak First Reported:	06/19/1997
Enforcement Type:	Not reported
Global ID :	T0603704786
Cross Street: GARZOTA	

CORTESE:

Region:	CORTESE
Fac Address 2:	26954 SECO CANYON RD

AB161
NNW
> 1
5527 ft.

DRIVE-IN DAIRY
26954 N SECO CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **U003061939**
N/A

Site 3 of 4 in cluster AB

Relative:
Higher

Actual:
1223 ft.

HMS:

Facility Id:	005965-I06179		
Area:	7A		
Facility Type:	I00		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

AB162 **WORTMANN OIL CO** **UST** **U003776254**
NNW **26954 SECO CANYON RD** **N/A**
> 1 **SANTA CLARITA, CA 91350**
5527 ft.

Site 4 of 4 in cluster AB

Relative: Higher

State UST:
Facility ID: 009181
Region: STATE
Local Agency: 19000

Actual: 1223 ft.

AC163 **KMART ENTERPRISES** **HIST UST** **U001567865**
West **23222 VALENCIA BLVD** **N/A**
> 1 **VALENCIA, CA 91355**
5568 ft.

Site 1 of 4 in cluster AC

Relative: Lower

UST HIST:

Facility ID:	14416	Owner Name:	KMART CORPORATION
Total Tanks:	1	Region:	STATE
Owner Address:	P.O. BOX 3150 TROY, MI 48084		
Tank Used for:	WASTE		
Tank Num:	1	Container Num:	3018
Tank Capacity:	00000500	Year Installed:	1973
Type of Fuel:	WASTE OIL	Tank Construction:	3/16 inches
Leak Detection:	Pressure Test		
Contact Name:	Not reported	Telephone:	(805) 255-7087
Facility Type:	Other	Other Type:	AUTO REPAIR

Actual: 1149 ft.

AC164 **KMART #3018** **HAZNET** **S103644205**
West **23222 W VALENCIA BLVD** **N/A**
> 1 **VALENCIA, CA 91355**
5568 ft.

Site 2 of 4 in cluster AC

Relative: Lower

HAZNET:

Gepaid:	CAL000018645
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.2000
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Transfer Station
Contact:	K MART CORPORATION
Telephone:	(248) 637-6544
Mailing Address:	3100 W BIG BEAVER RD TROY, MI 48084 - 3136
County	Los Angeles

Gepaid:	CAL000018645
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.1200
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Transfer Station
Contact:	K MART CORPORATION
Telephone:	(248) 637-6544
Mailing Address:	3100 W BIG BEAVER RD TROY, MI 48084 - 3136

Actual: 1149 ft.

KMART #3018 (Continued) **S103644205**

County Los Angeles

Gepaid: CAL000018645
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.4400
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Contact: K MART CORPORATION
Telephone: (248) 637-6544
Mailing Address: 3100 W BIG BEAVER RD
TROY, MI 48084 - 3136
County Los Angeles

Gepaid: CAL000018645
TSD EPA ID: CAD093459485
Gen County: Los Angeles
Tsd County: Fresno
Tons: .0332
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Transfer Station
Contact: K MART CORPORATION
Telephone: (248) 637-6544
Mailing Address: 3100 W BIG BEAVER RD
TROY, MI 48084 - 3136
County Los Angeles

Gepaid: CAL000018645
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2400
Waste Category: Organic liquids (nonsolvents) with halogens
Disposal Method: Transfer Station
Contact: K MART CORPORATION
Telephone: (248) 637-6544
Mailing Address: 3100 W BIG BEAVER RD
TROY, MI 48084 - 3136
County Los Angeles

Click this hyperlink while viewing on your computer to access
1 additional CA HAZNET record(s) in the EDR Site Report.

AC165 **PENSKE AUTO CENTER** **LOS ANGELES CO. HMS** **S103317722**
West **23222 VALENCIA BLVD** **N/A**
> 1 **SANTA CLARITA, CA**
5568 ft.

Site 3 of 4 in cluster AC

Relative:
Lower

HMS:
Facility Id: 002104-025635
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

Actual:
1149 ft.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AC166 West > 1 5568 ft.	**PENSKE AUTO CENTER #3018 23222 WEST VALENCIA BLVD VALENCIA, CA 91355**	**HAZNET**	**S103981409 N/A**

Site 4 of 4 in cluster AC

Relative: Lower

Actual: 1149 ft.

HAZNET:

Gepaid:	CAL000124967
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.3600
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Transfer Station
Contact:	PENSKE AUTO CENTER INC
Telephone:	(810) 643-2987
Mailing Address:	3270 W BIG BEAVER RD STE 130 TROY, MI 48084 - 3163
County	Los Angeles

Gepaid:	CAL000124967
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.3753
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Contact:	PENSKE AUTO CENTER INC
Telephone:	(810) 643-2987
Mailing Address:	3270 W BIG BEAVER RD STE 130 TROY, MI 48084 - 3163
County	Los Angeles

Gepaid:	CAL000124967
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.6713
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Transfer Station
Contact:	PENSKE AUTO CENTER INC
Telephone:	(810) 643-2987
Mailing Address:	3270 W BIG BEAVER RD STE 130 TROY, MI 48084 - 3163
County	Los Angeles

Gepaid:	CAL000124967
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0959
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	PENSKE AUTO CENTER INC
Telephone:	(810) 643-2987
Mailing Address:	3270 W BIG BEAVER RD STE 130 TROY, MI 48084 - 3163
County	Los Angeles

PENSKE AUTO CENTER #3018 (Continued) **S103981409**

Gepaid: CAL000124967
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4960
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Contact: PENSKE AUTO CENTER INC
Telephone: (810) 643-2987
Mailing Address: 3270 W BIG BEAVER RD STE 130
TROY, MI 48084 - 3163
County Los Angeles

Click this hyperlink while viewing on your computer to access
9 additional CA HAZNET record(s) in the EDR Site Report.

AA167
WSW
> 1
5581 ft.

Relative:
Lower

Actual:
1165 ft.

P&M SERVICE STATIONS #987 **CA FID UST** **S101583043**
26015 BOUQUET CANYON RD B **LOS ANGELES CO. HMS** **N/A**
SANTA CLARITA, CA

Site 2 of 9 in cluster AA

FID:

Facility ID:	19002381	Regulate ID:	00006555
Reg By:	Active Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Active	Facility Tel:	(818) 000-0000
Mail To:	Not reported 12739 LAKEWOOD BLVD SANTA CLARITA, CA		
Contact:	Not reported	Contact Tel:	Not reported
DUNs No:	Not reported	NPDES No:	Not reported
Creation:	10/22/93	Modified:	00/00/00
EPA ID:	Not reported		
Comments:	Not reported		

HMS:

Facility Id:	009442-009249		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Permit		
Region:	Los Angeles County:		

Facility Id:	009442-030297		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AA168 **MOHAWK SERVICE STATION #04061** **HIST UST** **U001567709**
WSW **26015 BOUQUET CANYON RD** **EMI** **N/A**
> 1 **SAUGUS, CA 91350**
5581 ft.

Site 3 of 9 in cluster AA

Relative: Lower

Actual: 1165 ft.

UST HIST:

Facility ID:	6555	Owner Name:	GETTY REFINING & MARKETING COM
Total Tanks:	3	Region:	STATE
Owner Address:	P.O. BOX 1476 BAKERSFIELD, CA 93302		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00010000	Year Installed:	1966
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	TERI TOLEDO	Telephone:	(805) 253-9188
Facility Type:	Gas Station	Other Type:	Not reported

Facility ID:	6555	Owner Name:	GETTY REFINING & MARKETING COM
Total Tanks:	3	Region:	STATE
Owner Address:	P.O. BOX 1476 BAKERSFIELD, CA 93302		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	2
Tank Capacity:	00010000	Year Installed:	1966
Type of Fuel:	REGULAR	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	TERI TOLEDO	Telephone:	(805) 253-9188
Facility Type:	Gas Station	Other Type:	Not reported

Facility ID:	6555	Owner Name:	GETTY REFINING & MARKETING COM
Total Tanks:	3	Region:	STATE
Owner Address:	P.O. BOX 1476 BAKERSFIELD, CA 93302		
Tank Used for:	PRODUCT		
Tank Num:	3	Container Num:	3
Tank Capacity:	00010000	Year Installed:	1966
Type of Fuel:	PREMIUM	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	TERI TOLEDO	Telephone:	(805) 253-9188
Facility Type:	Gas Station	Other Type:	Not reported

EMISSIONS :

Facility ID :	58056
Air District Code :	SC
SIC Code :	4953
Total Priority Score :	Not reported
Health Risk Assessment :	Not reported
Non-cancer Chronic Haz Index :	Not reported
Non-cancer Acute Haz Index :	Not reported
Air Basin :	SC
Air District Name :	SOUTH COAST AQMD
Community Health Air Pollution Info System :	Not reported
Consolidated Emission Reporting Rule :	Not reported
County Code :	19
County ID :	19

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AA169	**P & M #987/TEXACO (FORMER)**	**LUST**	**S103891133**
WSW	**26015 BOUQUET CANYON RD**		**N/A**
> 1	**SANTA CLARITA, CA 91350**		
5581 ft.			

Site 4 of 9 in cluster AA

Relative: Lower

Actual: 1165 ft.

State LUST:

Cross Street:	MAGIC MOUNTAIN PARKWAY		
Qty Leaked:	0		
Case Number	I-09249		
Reg Board:	4		
Chemical:	Gasoline		
Lead Agency:	Regional Board		
Local Agency :	19000		
Case Type:	Soil only		
Status:	Post remedial action monitoring		
Abate Method:	Vapor Extraction		
Review Date:	10/24/96 0:00	Confirm Leak:	10/24/96 0:00
Workplan:	12/3/86 0:00	Prelim Assess:	12/3/86 0:00
Pollution Char:	6/24/87 0:00	Remed Plan:	6/24/87 0:00
Remed Action:	7/12/99 0:00		
Monitoring:	8/28/00 0:00		
Close Date:	Not reported		
Release Date:	03/20/1990		
Cleanup Fund Id :	Not reported		
Discover Date :	02/20/1990		
Enforcement Dt :	Not reported		
Enf Type:	DLSEL		
Enter Date :	4/5/90 0:00		
Funding:	Federal Funds		
Staff Initials:	Not reported		
How Discovered:	Tank Closure		
How Stopped:	Not reported		
Interim :	Yes		
Leak Cause:	UNK		
Leak Source:	UNK		
MTBE Date :	Not reported		
Max MTBE GW :	Not reported		
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	Not reported		
Staff :	JH		
GW Qualifier :	Not reported		
Max MTBE Soil :	29.6 Parts per Million		
Soil Qualifier :	Not reported		
Hydr Basin #:	SANTA CLARA RIVER VA		
Operator :	PENA, SAUL		
Oversight Prgm:	LUST		
Review Date :	9/11/00 0:00		
Stop Date :	02/20/1990		
Work Suspended :	Not reported		
Responsible Party	JOE LENTINI/JEFF APPEL		
RP Address:	P.O. BOX 6249		
Global Id:	T0603703363		
Org Name:	Not reported		
Contact Person:	Not reported		
MTBE Conc:	Not reported		
Mtbe Fuel:	Not reported		

P & M #987/TEXACO (FORMER) (Continued) **S103891133**

Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 03/20/1990
Lead Agency: Regional Board
Local Agency: 19000
Substance: Gasoline
Case Type: Soil
Status: Post remedial action monitoring
Region: 4
Staff: JH
Date Case Last Changed on Database: 9/11/00
Date Leak Record Entered: 4/5/90
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : 29.6
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: JOE LENTINI/JEFF APPEL
RP Address: P.O. BOX 6249
Significant Interim Remedial Action Taken: Yes
Program : LUST
Lat / Long : 34 / -118
Local Agency Staff: Not reported
Summary : CONTAMINATION @ FILL PIPE LINE. UNCERTAINTY IN TANK TIGHTNESS. JH INDICATED OWNER WAS CHARGED DUE TO TANK TIGHTNESS TEST.; 7/12/99 SITE ASSESSMENT RPT; 2/3/00 REMOVAL OF FIVE UST AND TEN FUEL DISPENSER
Hydrologic Basin # : SANTA CLARA RIVER VA
Beneficial Use : Not reported
Priority : Not reported
Cleanup Fund Id : Not reported
Suspended : Not reported
Local Case No : Not reported
Substance Quantity : 0
Abatement Method Used at the Site: VE
Operator : PENA, SAUL
Water System : Not reported
Well Name : Not reported
Approx. Dist To Production Well (ft) : 914.4199804
Assigned Name : Not reported
Source of Cleanup Funding: Federal Funds
Date the Leak was Discovered: 02/20/1990
How the Leak was Discovered: Tank Closure
How the Leak was Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Date The Leak was Stopped: 2/20/90
Date Confirmation Leak Began: 10/24/96

P & M #987/TEXACO (FORMER) (Continued) **S103891133**

Preliminary Site Assessment Workplan Submitted: 12/3/86
Preliminary Site Assessment Began: 12/3/86
Pollution Characterization Began: Not reported
Remediation Plan Submitted: 6/24/87
Remedial Action Underway: 7/12/99
Post Remedial Action Monitoring Began: 8/28/00
Date the Case was Closed: Not reported
Enforcement Action Date: Not reported
Date Leak First Reported: 03/20/1990
Enforcement Type: DLSEL
Global ID : T0603703363
Cross Street: MAGIC MOUNTAIN PARKWAY

AA170
WSW
> 1
5581 ft.

P & M #987/TEXACO (FORMER
26015 BOUQUET CNYN
SAUGUS, CA 91350

Cortese **S105026544**
N/A

Site 5 of 9 in cluster AA

Relative:
Lower

CORTESE:
Region: CORTESE
Fac Address 2: Not reported

Actual:
1165 ft.

AA171
WSW
> 1
5589 ft.

KIRCHNER & SON, INC.
26011 BOUQUET CANYON RD
SAUGUS, CA 91350

HIST UST **U001567705**
N/A

Site 6 of 9 in cluster AA

Relative:
Lower

UST HIST:

Facility ID:	4946	Owner Name:	KIRCHNER & SON, INC.
Total Tanks:	2	Region:	STATE
Owner Address:	26011 BOUQUET CYN RD. SAUGUS, CA 91350		
Tank Used for:	WASTE		
Tank Num:	1	Container Num:	1
Tank Capacity:	00000550	Year Installed:	1967
Type of Fuel:	WASTE OIL	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	Not reported	Telephone:	(805) 259-8770
Facility Type:	Other	Other Type:	DODGE DEALER

Actual:
1165 ft.

Facility ID:	4946	Owner Name:	KIRCHNER & SON, INC.
Total Tanks:	2	Region:	STATE
Owner Address:	26011 BOUQUET CYN RD. SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	2
Tank Capacity:	00001000	Year Installed:	Not reported
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	Not reported	Telephone:	(805) 259-8770
Facility Type:	Other	Other Type:	DODGE DEALER

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AA172 WSW > 1 5589 ft.	**VALENCIA DODGE 26011 BOQUET CANYON RD SAUGUS, CA 91350**	**RCRIS-SQG FINDS**	**1000207304 CAD982040339**

Site 7 of 9 in cluster AA

Relative: Lower

Actual: 1165 ft.

RCRIS:

Owner: TERRY YORK
(415) 555-1212
EPA ID: CAD982040339

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

AA173 WSW > 1 5589 ft.	**DANA MOTORS 26011 BOUQUET CANYON RD SANTA CLARITA, CA**	**CA FID UST**	**S101584779 N/A**

Site 8 of 9 in cluster AA

Relative: Lower

Actual: 1165 ft.

FID:

Facility ID:	19015490	Regulate ID:	00004946
Reg By:	Active Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Active	Facility Tel:	(818) 000-0000
Mail To:	Not reported 5221 SYLMAR AVE SANTA CLARITA, CA		
Contact:	Not reported	Contact Tel:	Not reported
DUNs No:	Not reported	NPDES No:	Not reported
Creation:	10/22/93	Modified:	00/00/00
EPA ID:	Not reported		
Comments:	Not reported		

AA174 WSW > 1 5589 ft.	**ALERT MOBILE REPAIR SERVICE, INC 26011 BOUQUET CYN RD SAUGUS, CA 91350**	**HAZNET**	**S103647410 N/A**

Site 9 of 9 in cluster AA

Relative: Lower

Actual: 1165 ft.

HAZNET:

Gepaid:	CAL000044834
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	2.0850
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	GARY DUBIN
Telephone:	(000) 000-0000
Mailing Address:	26011 BOUQUET CANYON RD SANTA CLARITA, CA 91350
County	Los Angeles

AD175
SW
> 1
5703 ft.

Relative:
Lower

Actual:
1176 ft.

GERMAN AUTO CENTER
23051 DRAYTON ST
SAUGUS, CA 91350

HAZNET **S104577098**
N/A

Site 1 of 8 in cluster AD

HAZNET:

Gepaid:	CAL000068583
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2293
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Contact:	HOLLATZ NELLY
Telephone:	(000) 000-0000
Mailing Address:	23051 DRAYTON ST SANTA CLARITA, CA 91350 - 2545
County	Los Angeles

Gepaid:	CAL000068583
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.1042
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	HOLLATZ NELLY
Telephone:	(000) 000-0000
Mailing Address:	23051 DRAYTON ST SANTA CLARITA, CA 91350 - 2545
County	Los Angeles

Gepaid:	CAL000068583
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.04
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	EMIL UZLER
Telephone:	(661) 259-3530
Mailing Address:	23051 DRAYTON ST SANTA CLARITA, CA 91350 - 2545
County	Not reported

AD176
SW
> 1
5703 ft.

Relative:
Lower

Actual:
1176 ft.

GERMAN AUTO CENTERS INC.
23051 DRAYTON AVE
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945144**
N/A

Site 2 of 8 in cluster AD

HMS:

Facility Id:	019951-028469		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

177 SW > 1 5708 ft. — **DIRSHNER DODGE**, **26011 BOUQUET CANYON RD A**, **SANTA CLARITA, CA** — **LOS ANGELES CO. HMS** — **S102064425** / **N/A**

Relative: Lower
Actual: 1168 ft.

HMS:
Facility Id: 006321-004080
Area: 7A
Facility Type: Not reported
Permit Number: 174 — Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

AD178 SW > 1 5762 ft. — **SAUGUS WWRP NPDES**, **26200 SPRINGBROOK AVENUE**, **SAUGUS, CA 91350** — **FINDS** — **1004441980** / **110000761015**

Site 3 of 8 in cluster AD

Relative: Lower
Actual: 1173 ft.

FINDS:
Other Pertinent Environmental Activity Identified at Site:
National Emissions Inventory (NEI)
National Emissions Trends (NET)
Permit Compliance System (PCS)

AD179 SW > 1 5762 ft. — **SAUGUS WWRP**, **26200 SPRINGBROOK AVE**, **SAUGUS, CA 91350** — **CA WDS** / **EMI** — **1001612767** / **N/A**

Site 4 of 8 in cluster AD

Relative: Lower
Actual: 1173 ft.

WDS:
Facility ID: 4 19I007153
Facility Contact: Paul Lemay — Facility Telephone: (661) 259-3804
SIC Code: Not reported — SIC Code 2: Not reported
Agency Name: LA CO SANITATION DISTRICTS
Agency Address: 1955 Workman Mill Rd.
Whittier 90607
Agency Contact: Not reported — Agency Phone: (562) 699-7411
Design Flow: Not reported — Baseline Flow: Not reported
Facility Type: Municipal/Domestic - Facility that treats sewage or a mixture of predominantly sewage and other waste from districts, municipalities, communities, hospitals, schools, and publicly or privately owned systems (excluding individual subsurface leaching systems disposing of less than 1,000 gallons per day).
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
Agency Type: County
Waste Type: Not reported
Threat to Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.
Reclamation: Not reported
POTW: Not reported

SAUGUS WWRP (Continued) **1001612767**

NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 4

Facility ID: Santa Clara River 190107021
Facility Contact Paul Lemay Facility Telephone (661) 259-3804
SIC Code: 4952 SIC Code 2: Not reported
Agency Name: LA CO SANITATION DISTRICTS
Agency Address: 1955 Workman Mill Rd.
Whittier 90607
Agency Contact: Not reported Agency Phone: (562) 699-7411
Design Flow: 6.5 Million Gal/Day Baseline Flow: 6.5 Million Gal/Day
Facility Type: Municipal/Domestic - Facility that treats sewage or a mixture of predominantly sewage and other waste from districts, municipalities, communities, hospitals, schools, and publicly or privately owned systems (excluding individual subsurface leaching systems disposing of less than 1,000 gallons per day).
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
Agency Type: County
Waste Type: Domestic Sewage combined with Industrial Waste - Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Threat to Water: Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to toxic substances.
Complexity: Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility (particularly those with toxicwastes) with numerous discharge points, leak detection systems or ground water monitoring wells.
Reclamation: Producer: Reclamation requirements that have been issued to a producer of reclaimed water that does not use the product.
POTW: Not reported
NPDES Number: CA0054313 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 4

Facility ID: Santa Clara River 190107083
Facility Contact Paul Lemay Facility Telephone (661) 259-3804
SIC Code: 4952 SIC Code 2: Not reported
Agency Name: LA CO SANITATION DISTRICTS
Agency Address: 1955 Workman Mill Rd.
Whittier 90607
Agency Contact: Not reported Agency Phone: (562) 699-7411
Design Flow: 5 Million Gal/Day Baseline Flow: 5 Million Gal/Day
Facility Type: Municipal/Domestic - Facility that treats sewage or a mixture of predominantly sewage and other waste from districts, municipalities, communities, hospitals, schools, and publicly or privately owned systems (excluding individual subsurface leaching systems disposing of less than 1,000 gallons per day).
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
Agency Type: County
Waste Type: Domestic Sewage combined with Industrial Waste - Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and

SAUGUS WWRP (Continued) **1001612767**

heavy metals) are included in this category.

Threat to Water: Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to toxic substances.

Complexity: Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility (particularly those with toxicwastes) with numerous discharge points, leak detection systems or ground water monitoring wells.

Reclamation: Producer: Reclamation requirements that have been issued to a producer of reclaimed water that does not use the product.

POTW: Not reported
NPDES Number: Not reported
Subregion: 4

EMISSIONS :

Facility ID :	1680
Air District Code :	SC
SIC Code :	4952
Total Priority Score :	Not reported
Health Risk Assessment :	Not reported
Non-cancer Chronic Haz Index :	Not reported
Non-cancer Acute Haz Index :	Not reported
Air Basin :	SC
Air District Name :	SOUTH COAST AQMD
Community Health Air Pollution Info System :	Not reported
Consolidated Emission Reporting Rule :	Not reported
County Code :	19
County ID :	19

AD180 **CNTY LA SANITATION DIST/SAUGUS WRP** **HAZNET** **S103647576**
SW **26200 SPRINGBOOK AVE** **N/A**
> 1 **SAUGUS, CA 91350, CA 91350**
5762 ft.

Site 5 of 8 in cluster AD

Relative: Lower

Actual: 1173 ft.

HAZNET:

Gepaid:	CAL000096581
TSD EPA ID:	CAL000113451
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2293
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Transfer Station
Contact:	LA CNTY SANITATION DIST OF LA
Telephone:	(562) 699-7411
Mailing Address:	PO BOX 4998
	WHITTIER, CA 90607 - 4998
County	Los Angeles

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AD181 SW > 1 5762 ft.	**LA CO SAN DIST SAUGUS WRP** **26200 SPRINGBROOK AVE** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S102064436** **N/A**

Site 6 of 8 in cluster AD

Relative: Lower

Actual: 1173 ft.

HMS:

Facility Id:	015503-005146		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

Facility Id:	015503-022692		
Area:	7A		
Facility Type:	I04		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

AD182 SW > 1 5762 ft.	**LA CO SAN DIS-SAUGUS WRP** **26200 SPRINGBROOK AVE** **SANTA CLARITA, CA 91350**	**UST**	**U003776074** **N/A**

Site 7 of 8 in cluster AD

Relative: Lower

Actual: 1173 ft.

State UST:

Facility ID:	005146
Region:	STATE
Local Agency:	19000

AE183 SW > 1 5929 ft.	**I GANDARA TRUCKING REPAIR** **25885 SAN FERNANDO RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S105053521** **N/A**

Site 1 of 2 in cluster AE

Relative: Lower

Actual: 1169 ft.

HMS:

Facility Id:	020245-036177		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AE184 SW > 1 5929 ft.	**LUNA'S TIRE SERVICE** **25885 SAN FERNANDO RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103945400** **N/A**

Site 2 of 2 in cluster AE

Relative: Lower

Actual: 1169 ft.

HMS:

Facility Id:	020245-028826		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AD185
SW
> 1
5931 ft.

Relative:
Lower

Actual:
1173 ft.

AUTO BODY SPECIALIST
23108 DRAYTON ST
SAUGUS, CA 91350

HAZNET **S103644063**
N/A

Site 8 of 8 in cluster AD

HAZNET:

Gepaid:	CAL000125340
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.3466
Waste Category:	Unspecified solvent mixture Waste
Disposal Method:	Recycler
Contact:	CONDRA DONALD
Telephone:	(661) 250-1046
Mailing Address:	23108 DRAYTON ST SAUGUS, CA 91350 - 2546
County	Los Angeles

Gepaid:	CAL000125340
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.1876
Waste Category:	Aqueous solution with 10% or more total organic residues
Disposal Method:	Recycler
Contact:	CONDRA DONALD
Telephone:	(661) 250-1046
Mailing Address:	23108 DRAYTON ST SAUGUS, CA 91350 - 2546
County	Los Angeles

Gepaid:	CAL000125340
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0500
Waste Category:	Other organic solids
Disposal Method:	Transfer Station
Contact:	CONDRA DONALD
Telephone:	(661) 250-1046
Mailing Address:	23108 DRAYTON ST SAUGUS, CA 91350 - 2546
County	Los Angeles

Gepaid:	CAL000125340
TSD EPA ID:	CAD008302903
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2710
Waste Category:	Paint sludge
Disposal Method:	Not reported
Contact:	CONDRA DONALD
Telephone:	(661) 250-1046
Mailing Address:	23108 DRAYTON ST SAUGUS, CA 91350 - 2546
County	Los Angeles

AUTO BODY SPECIALIST (Continued) **S103644063**

Gepaid: CAL000125340
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0625
Waste Category: Other organic solids
Disposal Method: Recycler
Contact: CONDRA DONALD
Telephone: (661) 250-1046
Mailing Address: 23108 DRAYTON ST
SAUGUS, CA 91350 - 2546
County Los Angeles

Click this hyperlink while viewing on your computer to access
13 additional CA HAZNET record(s) in the EDR Site Report.

AF186
SW
> 1
5964 ft.

HASA CHEMICALS INC — **HAZNET** — **S103644077**
23119 DRAYTON ST — **LOS ANGELES CO. HMS** — **N/A**
SAUGUS, CA 91350

Site 1 of 25 in cluster AF

Relative:
Lower

Actual:
1172 ft.

HAZNET:
Gepaid: CAD009656075
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.5004
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: HASA CHEMICALS INC
Telephone: (000) 000-0000
Mailing Address: 23119 DRAYTON ST
SANTA CLARITA, CA 91350 - 2547
County Los Angeles

Gepaid: CAD009656075
TSD EPA ID: CAD097030993
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)
Disposal Method: Disposal, Other
Contact: HASA CHEMICALS INC
Telephone: (000) 000-0000
Mailing Address: 23119 DRAYTON ST
SANTA CLARITA, CA 91350 - 2547
County Los Angeles

HASA CHEMICALS INC (Continued) **S103644077**

Gepaid: CAD009656075
TSD EPA ID: CAT080033681
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0075
Waste Category: Liquids with pH <UN-> 2
Disposal Method: Recycler
Contact: HASA CHEMICALS INC
Telephone: (000) 000-0000
Mailing Address: 23119 DRAYTON ST
SANTA CLARITA, CA 91350 - 2547
County Los Angeles

HMS:
Facility Id: 001947-I02024
Area: 7A
Facility Type: I09
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 001947-002024
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

AF187 **CHMIRS** **S100279092**
SW **23119 DRAYTON** **N/A**
> 1 **SAUGUS, CA 91350**
5964 ft.

Site 2 of 25 in cluster AF

Relative: Lower

Actual: 1172 ft.

CHMIRS:

OES Control Number:	239
Chemical Name:	crude
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	239
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	NO
Responding Agency Personel # Of Fatalities :	NO
Resp Agncy Personel # Of Decontaminated :	Not reported

(Continued) **S100279092**

Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	YES
Waterway :	Not reported
Spill Site :	Not reported
Cleanup By :	CLEANUP BY PLANT PERSONNEL UNDER SUPERVISION OF CO. HEALTH
Containment :	NO
What Happened :	EARTHQUAKE CAUSED THE TANK TO SPILT ON THE ACID AND THE CHLORINE LINE BROKE
Type :	CHEMICAL
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	01/17/94 0450
Evacuations :	NO
OES Control Number:	8803712
Chemical Name:	Not reported
Extent of Release:	Not reported
Property Use:	Manufacturing
Incident Date:	15-NOV-88
Date Completed:	15-NOV-88
Time Completed :	1430
Agency Id Number :	19110
Agency Incident Number :	0A-36
OES Incident Number :	8803712
Time Notified :	1307
Surrounding Area :	700
Estimated Temperature :	70
Property Management :	P
More Than Two Substances Involved? :	N
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	Not reported
Responding Agency Personel # Of Fatalities :	Not reported
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported

(Continued) **S100279092**

Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	F F ALFRED W LITTLE
Report Date :	15-NOV-88
Comments :	No
Facility Telephone Number :	213 267-2485
Waterway Involved :	Not reported
Waterway :	Not reported
Spill Site :	Not reported
Cleanup By :	Not reported
Containment :	Not reported
What Happened :	Not reported
Type :	Not reported
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	Not reported
Evacuations :	Not reported

AF188 **HASA, INC** **SSTS** **1005430417**
SW **23119 DRAYTON STREET** **N/A**
> 1 **SAUGUS, CA 91350**
5964 ft.

Site 3 of 25 in cluster AF

Relative:
Lower

Actual:
1172 ft.

SSTS:

Product:	ALGI-BAN
Status:	Active
Registration #:	010897CA 001
Report Year:	1996
Permit:	Registered
Product #:	01089700002
Product Type:	End-use blend, formulation, or concentrate
Product Class:	30
Product Use:	5
Market:	Marketed in the United States and exported out of the United States
Country:	Not reported
Region:	Not reported

Product:	POOLCHLOR
Status:	Active
Registration #:	010897CA 001
Report Year:	1996
Permit:	Registered
Product #:	01089700004
Product Type:	End-use blend, formulation, or concentrate
Product Class:	20
Product Use:	9
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

HASA, INC (Continued) **1005430417**

Product:	TABIT 100 CHLORINATING TABS
Status:	Active
Registration #:	010897CA 001
Report Year:	1996
Permit:	Registered
Product #:	01089700008
Product Type:	End-use blend, formulation, or concentrate
Product Class:	30
Product Use:	9
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

Product:	HASA SPA GARD
Status:	Active
Registration #:	010897CA 001
Report Year:	1996
Permit:	Registered
Product #:	01089700009
Product Type:	End-use blend, formulation, or concentrate
Product Class:	30
Product Use:	9
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

Product:	TABIT JUMBO 100
Status:	Active
Registration #:	010897CA 001
Report Year:	1996
Permit:	Registered
Product #:	01089700011
Product Type:	End-use blend, formulation, or concentrate
Product Class:	30
Product Use:	9
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

Product:	HASACIDE
Status:	Active
Registration #:	010897CA 001
Report Year:	1996
Permit:	Registered
Product #:	01089700013
Product Type:	End-use blend, formulation, or concentrate
Product Class:	20
Product Use:	5
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

HASA, INC (Continued) **1005430417**

Product:	TABIT CHLORINATING CARTRIDGE
Status:	Active
Registration #:	010897CA 001
Report Year:	1996
Permit:	Registered
Product #:	01089700017
Product Type:	End-use blend, formulation, or concentrate
Product Class:	30
Product Use:	9
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

Product:	BULK POOL CHLORIDE
Status:	Active
Registration #:	010897CA 001
Report Year:	1996
Permit:	Registered
Product #:	01089700022
Product Type:	End-use blend, formulation, or concentrate
Product Class:	30
Product Use:	9
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

Product:	HASA CHLOR
Status:	Active
Registration #:	010897CA 001
Report Year:	1996
Permit:	Registered
Product #:	01089700026
Product Type:	End-use blend, formulation, or concentrate
Product Class:	20
Product Use:	9
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

Product:	CHLORINATING GRANULES
Status:	Active
Registration #:	010897CA 001
Report Year:	1996
Permit:	Registered
Product #:	01089700031
Product Type:	End-use blend, formulation, or concentrate
Product Class:	30
Product Use:	9
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

HASA, INC (Continued) **1005430417**

Click this hyperlink while viewing on your computer to access
83 additional SSTS record(s) in the EDR Site Report.

AF189 **HASA CHEMICALS, INC.** **HIST UST** **U001567701**
SW **23119 DRAYTON ST** **N/A**
> 1 **SAUGUS, CA 91350**
5964 ft.

Site 4 of 25 in cluster AF

Relative:
Lower

Actual:
1172 ft.

UST HIST:

Facility ID:	50567	Owner Name:	HASA CHEMICALS, INC.
Total Tanks:	6	Region:	STATE
Owner Address:	23119 DRAYTON STREET SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00001000	Year Installed:	Not reported
Type of Fuel:	REGULAR	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	WAYNE RANDELL	Telephone:	(805) 259-5848
Facility Type:	Other	Other Type:	POOL PRODUCTS MANUFA

Facility ID:	50567	Owner Name:	HASA CHEMICALS, INC.
Total Tanks:	6	Region:	STATE
Owner Address:	23119 DRAYTON STREET SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	2
Tank Capacity:	00002000	Year Installed:	Not reported
Type of Fuel:	06	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	WAYNE RANDELL	Telephone:	(805) 259-5848
Facility Type:	Other	Other Type:	POOL PRODUCTS MANUFA

Facility ID:	50567	Owner Name:	HASA CHEMICALS, INC.
Total Tanks:	6	Region:	STATE
Owner Address:	23119 DRAYTON STREET SAUGUS, CA 91350		
Tank Used for:	WASTE		
Tank Num:	3	Container Num:	3
Tank Capacity:	00000000	Year Installed:	Not reported
Type of Fuel:	Not reported	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	WAYNE RANDELL	Telephone:	(805) 259-5848
Facility Type:	Other	Other Type:	POOL PRODUCTS MANUFA

Facility ID:	50567	Owner Name:	HASA CHEMICALS, INC.
Total Tanks:	6	Region:	STATE
Owner Address:	23119 DRAYTON STREET SAUGUS, CA 91350		
Tank Used for:	WASTE		
Tank Num:	4	Container Num:	4
Tank Capacity:	00000000	Year Installed:	Not reported
Type of Fuel:	Not reported	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	WAYNE RANDELL	Telephone:	(805) 259-5848
Facility Type:	Other	Other Type:	POOL PRODUCTS MANUFA

HASA CHEMICALS, INC. (Continued) **U001567701**

Facility ID:	50567	Owner Name:	HASA CHEMICALS, INC.
Total Tanks:	6	Region:	STATE
Owner Address:	23119 DRAYTON STREET SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	5	Container Num:	5
Tank Capacity:	00010000	Year Installed:	1984
Type of Fuel:	DIESEL	Tank Construction:	1/4 inches
Leak Detection:	Vapor Sniff Well		
Contact Name:	WAYNE RANDELL	Telephone:	(805) 259-5848
Facility Type:	Other	Other Type:	POOL PRODUCTS MANUFA

Facility ID:	50567	Owner Name:	HASA CHEMICALS, INC.
Total Tanks:	6	Region:	STATE
Owner Address:	23119 DRAYTON STREET SAUGUS, CA 91350		
Tank Used for:	WASTE		
Tank Num:	6	Container Num:	6
Tank Capacity:	00000000	Year Installed:	Not reported
Type of Fuel:	Not reported	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	WAYNE RANDELL	Telephone:	(805) 259-5848
Facility Type:	Other	Other Type:	POOL PRODUCTS MANUFA

AF190
SW
> 1
5964 ft.

Relative:
Lower

Actual:
1172 ft.

23119 DRAYTON ST. **ERNS** **88180705**
23119 DRAYTON ST. **N/A**
SANTA CLARITA, CA 91350

Site 5 of 25 in cluster AF

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

AF191
SW
> 1
5964 ft.

Relative:
Lower

Actual:
1172 ft.

HASA INCORPORATED **RCRIS-SQG** **1000141826**
23119 DRAYTON ST. **FINDS** **CAD009656075**
SAUGUS, CA 91350 **LUST**
Cortese
Site 6 of 25 in cluster AF **CERC-NFRAP**
CA WDS

CERCLIS-NFRAP Classification Data:

Site Incident Category:	Not reported	Federal Facility:	Not a Federal Facility
Non NPL Code:	NFRAP		
Ownership Status:	Unknown	NPL Status:	Not on the NPL

CERCLIS-NFRAP Assessment History:

Assessment:	DISCOVERY	Completed:	03/01/1985
Assessment:	PRELIMINARY ASSESSMENT	Completed:	08/01/1985
Assessment:	ARCHIVE SITE	Completed:	09/01/1986
Assessment:	SITE INSPECTION	Completed:	09/01/1986

HASA INCORPORATED (Continued) **1000141826**

RCRIS:
Owner: DON WILSON
(805) 259-5848
EPA ID: CAD009656075
Contact: MICHAEL BERTRAM
(805) 259-5848
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: Violations exist

Regulation Violated: 262.10-12.A
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 06/15/1994
Actual Date Achieved Compliance: 06/15/1999

There are 1 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Integrated Compliance Information System (ICIS)
National Compliance Database (NCDB)
Resource Conservation and Recovery Act Information system (RCRAINFO)
Toxic Chemical Release Inventory System (TRIS)

State LUST:
Cross Street: Not reported
Qty Leaked: 0
Case Number R-02024
Reg Board: 4
Chemical: 1
Lead Agency: Local Agency
Local Agency : 19000
Case Type: Soil only
Status: Leak being confirmed
Review Date: 9/5/84 0:00
Workplan: Not reported
Pollution Char: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: Not reported
Release Date: 09/05/1984
Cleanup Fund Id : Not reported
Discover Date : / /
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 8/12/87 0:00
Funding: Not reported
Staff Initials: Not reported
How Discovered: Not reported
How Stopped: Not reported
Interim : Not reported
Leak Cause: UNK
Leak Source: UNK
MTBE Date : Not reported

Confirm Leak: 9/5/84 0:00
Prelim Assess: Not reported
Remed Plan: Not reported

HASA INCORPORATED (Continued) **1000141826**

Max MTBE GW : Not reported
MTBE Tested: Not Required to be Tested.
Priority: Not reported
Local Case # : 0
Beneficial: Not reported
Staff : UNK
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SANTA CLARA RIVER VA
Operator : Not reported
Oversight Prgm: LUST
Review Date : 9/5/84 0:00
Stop Date : / /
Work Suspended :Not reported
Responsible PartyHASA CHEMICAL, INC
RP Address: 23119 DRAYTON STREET, SAUGUS, CA 91350
Global Id: T0603704581
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 09/05/1984
Lead Agency: Local Agency
Local Agency: 19000
Substance: 1
Case Type: Soil
Status: Leak being confirmed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 9/5/84
Date Leak Record Entered: 8/12/87
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : Not reported
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: HASA CHEMICAL, INC
RP Address: 23119 DRAYTON STREET, SAUGUS, CA 91350
Significant Interim Remedial Action Taken: Not reported
Program : LUST
Lat / Long : 34 / -119
Local Agency Staff: Not reported
Summary : OLD CASE #004047
Hydrologic Basin # : SANTA CLARA RIVER VA
Beneficial Use : Not reported
Priority : Not reported

HASA INCORPORATED (Continued) **1000141826**

Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	0
Abatement Method Used at the Site:	Not reported
Operator :	Not reported
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	2569.922017
Assigned Name :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	/ /
How the Leak was Discovered:	Not reported
How the Leak was Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	UNK
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	9/5/84
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	Not reported
Enforcement Action Date:	Not reported
Date Leak First Reported:	09/05/1984
Enforcement Type:	Not reported
Global ID :	T0603704581
Cross Street:	Not reported

CORTESE:

Region:	CORTESE
Fac Address 2:	23119 DRAYTON ST

WDS:

Facility ID:	4 19I013427		
Facility Contact	Not reported	Facility Telephone	0
SIC Code:	Not reported	SIC Code 2:	Not reported
Agency Name:	HASA INC		
Agency Address:	0		
Agency Contact:	Not reported	Agency Phone:	0
Design Flow:	Not reported	Baseline Flow:	Not reported
Facility Type:	Not reported		

Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

Agency Type: Not reported

Waste Type: Not reported

Threat to Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

HASA INCORPORATED (Continued) **1000141826**

Reclamation: Not reported
POTW: Not reported
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 4

AF192
SW
> 1
6017 ft.

Relative:
Lower

Actual:
1174 ft.

26000 SPRING BROOK AVE.
SAUGUS, CA 91350

CHMIRS **S105883028**
N/A

Site 7 of 25 in cluster AF

CHMIRS:

OES Control Number:	02-1370
Chemical Name:	Processed Water
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-1370
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Treatment/Sewage Facility
Cleanup By :	Responsible Party
Containment :	Yes
What Happened :	A tank overflowed due to mechanical failure of the pump.
Type :	Gal(s)
Other :	Not reported
Chemical 1 :	Not Reported

(Continued) **S105883028**

Chemical 2 : Not Reported
Chemical 3 : Not Reported
Date/Time : 3/12/2002 1100
Evacuations : 0

AF193
SW
> 1
6017 ft.

Relative:
Lower

Actual:
1174 ft.

26000 SPRINGBROOK AVE **ERNS** **2002602120**
26000 SPRINGBROOK AVE **N/A**
SAUGUS, CA 0

Site 8 of 25 in cluster AF

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

AF194
SW
> 1
6017 ft.

Relative:
Lower

Actual:
1174 ft.

26000 SPRINGBROOK **CHMIRS** **S103617362**
SAUGUS, CA 91350 **Cortese** **N/A**
CA WDS

Site 9 of 25 in cluster AF

CORTESE:
Region: CORTESE
Fac Address 2: Not reported

CHMIRS:
OES Control Number: 02-1109
Chemical Name: Processed Water
Extent of Release: Not reported
Property Use: Not reported
Incident Date: Not reported
Date Completed: Not reported
Time Completed : Not reported
Agency Id Number : Not reported
Agency Incident Number : Not reported
OES Incident Number : 02-1109
Time Notified : Not reported
Surrounding Area : Not reported
Estimated Temperature : Not reported
Property Management : Not reported
More Than Two Substances Involved? : Not reported
Special Studies 1 : Not reported
Special Studies 2 : Not reported
Special Studies 3 : Not reported
Special Studies 4 : Not reported
Special Studies 5 : Not reported
Special Studies 6 : Not reported
Responding Agency Personel # Of Injuries : 0
Responding Agency Personel # Of Fatalities : 0
Resp Agncy Personel # Of Decontaminated : Not reported
Others Number Of Decontaminated : Not reported
Others Number Of Injuries : Not reported
Others Number Of Fatalities : Not reported
Vehicle Make/year : Not reported
Vehicle License Number : Not reported
Vehicle State : Not reported
Vehicle Id Number : Not reported
CA/DOT/PUC/ICC Number : Not reported
Company Name : Not reported

(Continued) **S103617362**

Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Industrial Plant
Cleanup By :	Unknown
Containment :	Yes
What Happened :	A leak in a process hose caused the spill.
Type :	Gal(s)
Other :	water
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	2/25/2002 1500
Evacuations :	0

WDS:

Facility ID:	Santa Clara River 192000001		
Facility Contact	Paul M. Boren	Facility Telephone	(661) 259-2360
SIC Code:	2821	SIC Code 2:	Not reported
Agency Name:	KEYSOR-CENTURY CORP		
Agency Address:	0		
Agency Contact:	Not reported	Agency Phone:	0
Design Flow:	0.095 Million Gal/Day	Baseline Flow:	0.0484 Million Gal/Day

Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.

Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

Agency Type: Private

Waste Type: Stormwater Runoff - Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.

Threat to Water: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

Reclamation: No reclamation requirements associated with this facility.

POTW: The facility is not a POTW.

NPDES Number: CA0057126 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

Subregion: 4

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AF195		**CHMIRS**	**S105883121**
SW	**26000 SPRINGBOOK AVE**		**N/A**
> 1	**SAUGUS, CA 91350**		
6017 ft.			
	Site 10 of 25 in cluster AF		
Relative: Lower	CHMIRS:		
Actual: 1174 ft.	OES Control Number: 02-1267		
	Chemical Name: Waste Water		
	Extent of Release: Not reported		
	Property Use: Not reported		
	Incident Date: Not reported		
	Date Completed: Not reported		
	Time Completed : Not reported		
	Agency Id Number : Not reported		
	Agency Incident Number : Not reported		
	OES Incident Number : 02-1267		
	Time Notified : Not reported		
	Surrounding Area : Not reported		
	Estimated Temperature : Not reported		
	Property Management : Not reported		
	More Than Two Substances Involved? : Not reported		
	Special Studies 1 : Not reported		
	Special Studies 2 : Not reported		
	Special Studies 3 : Not reported		
	Special Studies 4 : Not reported		
	Special Studies 5 : Not reported		
	Special Studies 6 : Not reported		
	Responding Agency Personel # Of Injuries : 0		
	Responding Agency Personel # Of Fatalities : 0		
	Resp Agncy Personel # Of Decontaminated : Not reported		
	Others Number Of Decontaminated : Not reported		
	Others Number Of Injuries : Not reported		
	Others Number Of Fatalities : Not reported		
	Vehicle Make/year : Not reported		
	Vehicle License Number : Not reported		
	Vehicle State : Not reported		
	Vehicle Id Number : Not reported		
	CA/DOT/PUC/ICC Number : Not reported		
	Company Name : Not reported		
	Reporting Officer Name/ID : Not reported		
	Report Date : Not reported		
	Comments : Not reported		
	Facility Telephone Number : Not reported		
	Waterway Involved : No		
	Waterway : Not reported		
	Spill Site : Industrial Plant		
	Cleanup By : Reporting Party		
	Containment : Yes		
	What Happened : A tank was over filled.		
	Type : Gal(s)		
	Other : water		
	Chemical 1 : Not Reported		
	Chemical 2 : Not Reported		
	Chemical 3 : Not Reported		
	Date/Time : 3/5/2002 1630		
	Evacuations : 0		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AF196		**CHMIRS**	**S105883798**
SW	**26000 SPRING BROOK AV**		**N/A**
> 1	**SAUGUS, CA**		
6017 ft.			
	Site 11 of 25 in cluster AF		
Relative: Lower	CHMIRS:		
	OES Control Number:	02-2421	
Actual: 1174 ft.	Chemical Name:	Waste Water	
	Extent of Release:	Not reported	
	Property Use:	Not reported	
	Incident Date:	Not reported	
	Date Completed:	Not reported	
	Time Completed :	Not reported	
	Agency Id Number :	Not reported	
	Agency Incident Number :	Not reported	
	OES Incident Number :	02-2421	
	Time Notified :	Not reported	
	Surrounding Area :	Not reported	
	Estimated Temperature :	Not reported	
	Property Management :	Not reported	
	More Than Two Substances Involved? :	Not reported	
	Special Studies 1 :	Not reported	
	Special Studies 2 :	Not reported	
	Special Studies 3 :	Not reported	
	Special Studies 4 :	Not reported	
	Special Studies 5 :	Not reported	
	Special Studies 6 :	Not reported	
	Responding Agency Personel # Of Injuries :	0	
	Responding Agency Personel # Of Fatalities :	0	
	Resp Agncy Personel # Of Decontaminated :	Not reported	
	Others Number Of Decontaminated :	Not reported	
	Others Number Of Injuries :	Not reported	
	Others Number Of Fatalities :	Not reported	
	Vehicle Make/year :	Not reported	
	Vehicle License Number :	Not reported	
	Vehicle State :	Not reported	
	Vehicle Id Number :	Not reported	
	CA/DOT/PUC/ICC Number :	Not reported	
	Company Name :	Not reported	
	Reporting Officer Name/ID :	Not reported	
	Report Date :	Not reported	
	Comments :	Not reported	
	Facility Telephone Number :	Not reported	
	Waterway Involved :	No	
	Waterway :	Not reported	
	Spill Site :	Industrial Plant	
	Cleanup By :	Reporting Party	
	Containment :	Yes	
	What Happened :	Per caller, release was caused from a tank over flowing.	
	Type :	Gal(s)	
	Other :	Not reported	
	Chemical 1 :	Not Reported	
	Chemical 2 :	Not Reported	
	Chemical 3 :	Not Reported	
	Date/Time :	5/2/2002 1800	
	Evacuations :	0	

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AF197		**CHMIRS**	**S105671261**
SW	**26000 SPRINGBROOK AVE.**		**N/A**
> 1	**SAUGUS, CA 02581**		
6017 ft.			
	Site 12 of 25 in cluster AF		
Relative:			
Lower	CHMIRS:		
	OES Control Number:	01-5982	
Actual:	Chemical Name:	Water with less than 1 %% PVC resin	
1174 ft.	Extent of Release:	Not reported	
	Property Use:	Not reported	
	Incident Date:	Not reported	
	Date Completed:	Not reported	
	Time Completed :	Not reported	
	Agency Id Number :	Not reported	
	Agency Incident Number :	Not reported	
	OES Incident Number :	01-5982	
	Time Notified :	Not reported	
	Surrounding Area :	Not reported	
	Estimated Temperature :	Not reported	
	Property Management :	Not reported	
	More Than Two Substances Involved? :	Not reported	
	Special Studies 1 :	Not reported	
	Special Studies 2 :	Not reported	
	Special Studies 3 :	Not reported	
	Special Studies 4 :	Not reported	
	Special Studies 5 :	Not reported	
	Special Studies 6 :	Not reported	
	Responding Agency Personel # Of Injuries :	0	
	Responding Agency Personel # Of Fatalities :	0	
	Resp Agncy Personel # Of Decontaminated :	Not reported	
	Others Number Of Decontaminated :	Not reported	
	Others Number Of Injuries :	Not reported	
	Others Number Of Fatalities :	Not reported	
	Vehicle Make/year :	Not reported	
	Vehicle License Number :	Not reported	
	Vehicle State :	Not reported	
	Vehicle Id Number :	Not reported	
	CA/DOT/PUC/ICC Number :	Not reported	
	Company Name :	Not reported	
	Reporting Officer Name/ID :	Not reported	
	Report Date :	Not reported	
	Comments :	Not reported	
	Facility Telephone Number :	Not reported	
	Waterway Involved :	No	
	Waterway :	Not reported	
	Spill Site :	Industrial Plant	
	Cleanup By :	Contractor	
	Containment :	Yes	
	What Happened :	Release is from a "washdown", that went onto the property and flowed into the storm drain. This product is contained within the storm drain system, no waterway involvement. Material is not know to be hazardous to the RP.	
	Type :	OTHER	
	Other :	Non hazardous waste	
	Chemical 1 :	Not Reported	
	Chemical 2 :	Not Reported	
	Chemical 3 :	Not Reported	
	Date/Time :	10/18/01 830	

(Continued) **S105671261**

Evacuations :	0
OES Control Number:	02-1292
Chemical Name:	Processed water
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-1292
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Industrial Plant
Cleanup By :	Reporting Party
Containment :	Yes
What Happened :	Mechanical failure caused this release. RP advises they are notifying out of caution, do not believe it is a threat.
Type :	Gal(s)
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	3/6/2002 2300
Evacuations :	0
OES Control Number:	02-1531
Chemical Name:	Waste Water
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported

(Continued) **S105671261**

Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-1531
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Treatment/Sewage Facility
Cleanup By :	Responsible Party
Containment :	Yes
What Happened :	This waste water is processed, at the waste water stage, ready to be sent to a treatment plant. It was released due to a tank overflow. Clean up is complete.
Type :	Gal(s)
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	3/20/2002 1300
Evacuations :	0
OES Control Number:	02-3474
Chemical Name:	Vinyl Chloride
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-3474

(Continued) **S105671261**

Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Industrial Plant
Cleanup By :	N/A
Containment :	Yes
What Happened :	A release valve broke and discharged.
Type :	Lbs.
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	6/24/2002 0630
Evacuations :	0
OES Control Number:	02-3091
Chemical Name:	Processed Water
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-3091
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported

(Continued) **S105671261**

Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Industrial Plant
Cleanup By :	Responsible Party
Containment :	Yes
What Happened :	This processed water is a combination of water and polyvinylchloride. A tank was overfilled.
Type :	Gal(s)
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	6/5/2002 0200
Evacuations :	0

AF198
SW
> 1
6017 ft.

Relative:
Lower

Actual:
1174 ft.

KEYSOR CENTURY CORPORATION
26000 SPRINGBROOK AVE.
SAUGUS, CA 91350

Site 13 of 25 in cluster AF

CERCLIS **1000385455**
RCRIS-SQG **91350KYSRC26**
FINDS
HAZNET
TRIS
CA FID UST
LOS ANGELES CO. HMS

CERCLIS Classification Data:

Site Incident Category:	Not reported	Federal Facility:	Not a Federal Facility
Non NPL Status:	ESI Ongoing		
Ownership Status:	Unknown	NPL Status:	Not on the NPL
Contact:	Jere Johnson	Contact Tel:	(415) 972-3094
Contact Title:	Not reported		

CERCLIS Assessment History:

Assessment:	DISCOVERY	Completed:	11/01/1979
Assessment:	PRELIMINARY ASSESSMENT	Completed:	11/01/1984
Assessment:	PRELIMINARY ASSESSMENT	Completed:	11/23/1988
Assessment:	ARCHIVE SITE	Completed:	10/15/1990
Assessment:	SITE INSPECTION	Completed:	10/15/1990

CERCLIS Site Status:
NFRAP (No Futher Remedial Action Planned

KEYSOR CENTURY CORPORATION (Continued) **1000385455**

RCRIS:
Owner: NOT REQUIRED
(415) 555-1212
EPA ID: CAD009531591

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated:	262.10-12.A
Area of Violation:	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	01/09/1986
Actual Date Achieved Compliance:	Not reported

There are 1 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance

FINDS:
Other Pertinent Environmental Activity Identified at Site:
AIRS/AIRS Facility Subystem (AIRS/AFS)
Comperhensive Environmental Response, Compensation and Liability Information System (CERCLIS)
Integrated Compliance Information System (ICIS)
National Emissions Inventory (NEI)
National Emissions Trends (NET)
National Toxics Inventory (NTI)
Permit Compliance System (PCS)
Resource Conservation and Recovery Act Information system (RCRAINFO)
Toxic Chemical Release Inventory System (TRIS)

HAZNET:
Gepaid: CAD009531591
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0625
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Contact: KEYSOR-CENTURY CORPORATION
Telephone: (805) 259-2360
Mailing Address: PO BOX 924
SANTA CLARITA, CA 91380 - 9024
County Los Angeles

Gepaid: CAD009531591
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1042
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Contact: KEYSOR-CENTURY CORPORATION
Telephone: (805) 259-2360
Mailing Address: PO BOX 924
SANTA CLARITA, CA 91380 - 9024
County Los Angeles

KEYSOR CENTURY CORPORATION (Continued) **1000385455**

Gepaid: CAD009531591
TSD EPA ID: CAD097030993
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1750
Waste Category: Baghouse waste
Disposal Method: Disposal, Land Fill
Contact: KEYSOR-CENTURY CORPORATION
Telephone: (805) 259-2360
Mailing Address: PO BOX 924
SANTA CLARITA, CA 91380 - 9024
County Los Angeles

Gepaid: CAD009531591
TSD EPA ID: CAD982444481
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: .6672
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: KEYSOR-CENTURY CORPORATION
Telephone: (805) 259-2360
Mailing Address: PO BOX 924
SANTA CLARITA, CA 91380 - 9024
County Los Angeles

Gepaid: CAD009531591
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.6137
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: KEYSOR-CENTURY CORPORATION
Telephone: (805) 259-2360
Mailing Address: PO BOX 924
SANTA CLARITA, CA 91380 - 9024
County Los Angeles

Click this hyperlink while viewing on your computer to access
60 additional CA HAZNET record(s) in the EDR Site Report.

FID:

Facility ID:	19000029	Regulate ID:	00000479
Reg By:	Active Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Active	Facility Tel:	(818) 000-0000
Mail To:	Not reported 26000 SPRINGBROOK RD SANTA CLARITA, CA		
Contact:	Not reported	Contact Tel:	Not reported
DUNs No:	Not reported	NPDES No:	Not reported
Creation:	10/22/93	Modified:	00/00/00
EPA ID:	Not reported		
Comments:	Not reported		

HMS:
Facility Id: 004102-004248
Area: 7A

KEYSOR CENTURY CORPORATION (Continued) **1000385455**

Facility Type: T0
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

Facility Id: 004102-I04248
Area: 7A
Facility Type: I02
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

AF199 **CHMIRS** **S105883190**
SW **N/A**
> 1
6017 ft.

26000 SPRINGBROOK RD.
SAUGUS, CA

Site 14 of 25 in cluster AF

Relative:
Lower

Actual:
1174 ft.

CHMIRS:

OES Control Number:	02-1184
Chemical Name:	Vinyl Chloride
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-1184
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Industrial Plant

(Continued) **S105883190**

Cleanup By :	Unknown
Containment :	Yes
What Happened :	Per caller, a rupture disk popped causing the release.
Type :	Lbs.
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	3/2/2002 1430
Evacuations :	6

AF200
SW
> 1
6017 ft.

Relative:
Lower

Actual:
1174 ft.

26000 SPRINGBROOK AVE — **ERNS** **2002600471**
26000 SPRINGBROOK AVE — **N/A**
SAUGUS, CA 91350

Site 15 of 25 in cluster AF

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

AF201
SW
> 1
6017 ft.

Relative:
Lower

Actual:
1174 ft.

26000 SPRINGBROOK AVE — **ERNS** **2002608725**
26000 SPRINGBROOK AVE — **N/A**
SAUGUS, CA 91350

Site 16 of 25 in cluster AF

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

AF202
SW
> 1
6017 ft.

Relative:
Lower

Actual:
1174 ft.

26000 SPRINGBROOK AVE — **ERNS** **2002595266**
26000 SPRINGBROOK AVE — **N/A**
SAUGUS, CA 0

Site 17 of 25 in cluster AF

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

AF203
SW
> 1
6017 ft.

Relative:
Lower

Actual:
1174 ft.

26000 SPRINGBROOK AVE — **ERNS** **2002595850**
26000 SPRINGBROOK AVE — **N/A**
SAUGUS, CA 0

Site 18 of 25 in cluster AF

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

AF204
SW
> 1
6017 ft.

Relative:
Lower

Actual:
1174 ft.

26000 SPRINGBROOK RD.
SAUGUS, CA 91350

Site 19 of 25 in cluster AF

CHMIRS **S105883379**
N/A

CHMIRS:

OES Control Number:	02-1955
Chemical Name:	Waste Water
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-1955
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Industrial Plant
Cleanup By :	Reporting Party
Containment :	Yes
What Happened :	Tank overflowed after pump failure causing this release.
Type :	Gal(s)
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	4/9/2002 0400
Evacuations :	0

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AF205 SW > 1 6017 ft. Relative: Lower Actual: 1174 ft.	**26000 SPRINGBROOK AVE** **26000 SPRINGBROOK AVE** **SAUGUS, CA 0** **Site 20 of 25 in cluster AF** Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.	**ERNS**	**2002595964** **N/A**
AF206 SW > 1 6017 ft. Relative: Lower Actual: 1174 ft.	**26000 SPRINGBROOK AVE** **26000 SPRINGBROOK AVE** **SAUGUS, CA 91350** **Site 21 of 25 in cluster AF** Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.	**ERNS**	**2002597166** **N/A**
AF207 SW > 1 6017 ft. Relative: Lower Actual: 1174 ft.	**26000 SPRINGBROOK AVE** **26000 SPRINGBROOK AVE** **SAUGUS, CA 0** **Site 22 of 25 in cluster AF** Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.	**ERNS**	**2002599046** **N/A**
AF208 SW > 1 6017 ft. Relative: Lower Actual: 1174 ft.	**26000 SPRINGBROOK ROAD** **SAUGUS, CA 91350** **Site 23 of 25 in cluster AF**	**CHMIRS** **REF**	**S101480583** **N/A**

REF:

Facility ID	19280025
Dtsc Region Code :	3
Region Code Definition :	GLENDALE
County Code :	19
Site Name Under :	Not reported
Current Status Date :	08281995
Current Status Code :	REFRC
Current Status :	PROPERTY/SITE REFERRED TO RCRA
Lead Agency Code :	Not reported
Lead Agency :	N/A
Site Type Code :	Not reported
Site Type :	N/A
National Priorities List :	Not reported
Tier :	Not reported
Source Of Funding Code :	Not reported
Staff Member :	Not reported
Supervisor :	Not reported
Sic Code :	28
Sic Code Definition :	MANU - CHEMICALS & ALLIED PRODUCTS
Site Mitigatn & Brnflds Reuse Prog (SMBR) Code :	SA
SMBR Branch :	SO CAL - GLENDALE
Regional Water Quality Control Board :	LA
RWQCB Definition :	LOS ANGELES
Site Access Controlled :	Not reported

(Continued) **S101480583**

Listed In Haz Wst & Substncs Sites List (CORTESE):	Not reported
Date Hazard Ranked :	Not reported
GW Contamination Suspected :	Not reported
# Of Sources Contributing To Contamination :	0.00000
Lat/Long :	0.00000° 0.00000′ 0.00000″ / 0.00000° 0.00000′ 0.00000″
Direction Lat :	Not reported
Direction Long :	Not reported
Lat/long Method :	Not reported
Entity Lat/long Coordinates Refer To :	Not reported
State Assembly Distt Code :	Not reported
State Senate Distt Code :	Not reported
Identifying Code:	EPA
ID Value:	CAD009531591
Other ID Desc:	EPA IDENTIFICATION NUMBER
Identifying Code:	HWIS
ID Value:	CAD009531591
Other ID Desc:	HWIS IDENTIFICATION CODE
Alternate Name(s):	KEYSOR-CENTURY CORPORATION
	KEYSOR CHEMICAL
Address(es) :	PO BOX 308
	SAUGUS, CA 91350
Address(es) :	26000 SPRINGBROOK ROAD
	SAUGUS, CA 91350
Background Info :	Not reported
Facility Id :	19280025
AWP Activities Code :	1.00000
DTSC Site Activity Code :	DISC
Activity Code Def:	DISCOVERY
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	07211980
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	REFRC
Status Code Definition :	PROPERTY/SITE REFERRED TO RCRA
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19280025
AWP Activities Code :	2.00000
DTSC Site Activity Code :	DISC
Activity Code Def:	DISCOVERY
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	09261983
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	REFRC
Status Code Definition :	PROPERTY/SITE REFERRED TO RCRA
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported

(Continued) **S101480583**

Facility Id :	19280025
AWP Activities Code :	3.00000
DTSC Site Activity Code :	PA
Activity Code Def:	Not reported
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	05011984
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	REFRC
Status Code Definition :	PROPERTY/SITE REFERRED TO RCRA
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19280025
AWP Activities Code :	4.00000
DTSC Site Activity Code :	SS
Activity Code Def:	Not reported
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	11301987
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	REFRC
Status Code Definition :	PROPERTY/SITE REFERRED TO RCRA
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19280025
AWP Activities Code :	5.00000
DTSC Site Activity Code :	SS
Activity Code Def:	Not reported
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	11261990
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	REFRC
Status Code Definition :	PROPERTY/SITE REFERRED TO RCRA
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19280025
AWP Activities Code :	6.00000
DTSC Site Activity Code :	SS
Activity Code Def:	Not reported
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	02011995
Est # Of Person-years To Complete :	0.00000

(Continued) **S101480583**

Est. Size Of An Activity Code : Not reported
Site Status When Activity Commitment Made : REFRC
Status Code Definition : PROPERTY/SITE REFERRED TO RCRA
Cubic Yards Of Solids Removed At Completion : 0.00000
Gallons Of Liquid Removed Upon Completion : 0.00000
Cubic Yards Of Solids Treated Upon Completion : 0.00000
Actvty Deleted Via Commitmnt/Completns Screen : Not reported
Special Program Code: Not reported
Special Program : Not reported
Comments Date : 01011960
Comments : INSPECTION(LOCAL) CO ENGR. VIOS FOR IMPROPER DISP OF WW.
ON CORTESE LIST
FINAL STRATEGY SITE REFERRED: TO SCS
SUBMIT TO EPA
NFA FOR SITE MITIGATION OPERATIONS, THIS IS A RCRA FACILITY.
INSPECTION(LOCAL) CO ENGR. DISP OF ETHYLENE DICHLORIDE
CONTMN WW.
IWS, QUEX 12580, RETURNED.
WASTE-PVC, H20, & TR ORG. VOL--MORE
1000 GAL; 4 T/YR. DISP-ONSITE POND,
TO BKK, & SEWER.
ILLEGAL DISPOSAL OF WASTEWATER TO AN UN-
LINED POND FROM 60'S TO '73; REMOVING
THE POND & CONTAMINATED SOILS COMPLETED
IN 1978.
SCAQMD - HIGH LEVELS OF VCM DURING UN-
ANNOUNCED INSPECTION; CITIZEN'S COM-
PLAINT OF THE IMPROPER EMISSIONS & RE-
LEASE OF CARCINOGENS; FOLLOW-UP WITH IN-
SPECTION: NO VIOLATION FOUND.
WASTE QUAL: WASTEWATER 800,000 GAL/YR IN
1980 & 150,000 GAL/YR IN 1981-1983.
NPDES PERMIT 3/75 RENEWED 7/82 AFTER RE-
PLACEMENT OF LEAKING EQUIPMENT & AIR
MONITORING FOR AREA; IN 1977, GRANTED A
STATE LOAN; ADOPTION OF REVISED WATER
QUALITY OBJECTIVE DEVICES.
FINAL STRATEGY RECOM - G-WATER & AIR QUALITY EVALUATION
SOURCE ACT: STATE BOARD OF EQ/CO ENGR -
COPOLYMERIZATION OF VINYL CHLORIDE &
VINYL ACETATE MONOMER INTO VINYL RESIN;
PRODUCER OF PHONOGRAPH RECORDS;
YRS OF OPERATION: CO ENGR FILE - 1958 TO
PRESENT.
INCIDENT: 5/6/80 LARGE FIRE - THE TRANS-
FER BATCHING AREA; DESTROYED MONITOR
CONTROL ROOM FOR THE DRYER (LACE). 12/5/
77 FIRE INCINERATOR AREA - ELECTRICAL
SWITCHING GEARS.
ENFORCEMENT HISTORY: 4/78 SUSPENSION OF
PERMIT OF SURFACE DISCHARGE ORDINANCE;
1/63 COURT CASE / ILLEGAL DISCHARGE;
ADDITIONAL FACILITY REQUIREMENT: IMMEDI-
ATE CEASING OF WATER COURSE DISCHARGE
FROM PLANT; 4/63 FINED $150,000 FOR VIO-
LATION; 1/74 NOTICE OF VIOLATION (NOV) -

(Continued) **S101480583**

SURFACE DISCHARGE; 10/74 NOV - DIRECTED
TO CEASE DISCHARGE OF WASTE MATERIALS TO
POND; 11/76 NOV - DISCHARGE OF TOXIC
WASTEWATER.
PRELIM ASSESS DONE RCRA 3012
FACILITY DRIVE-BY SITE LARGE IN RAVINE. UNABLE TO ADQ
VIEW DUE TO GUARDED GATES.
HWMB, INCIDENT FILES. PAST PROBLEMS.
CORPORATE STATUS, CO ENVR HLTH.
AIR RESOURCES BOARD, DFG & SWMB.
TEAMSTERS LOCAL 208
INDUSTRIAL WASTE CONTROL
FACILITY IDENTIFIED WADE'S QUESTIONAIRE
LA CO. ENGINEERS, RWQCB
INSPECTION(LOCAL) CO ENGR. ERADICATING UNLINED WW POND.
REPORTED FOR PROP65
FACILITY IDENTIFIED ID FROM ERRIS
SITE SCREENING DONE REASSESSMENT 8/16/88 BY ECOLOGY AND EN-
VIROMENT RECOMMENDED HIGH PRIORITY SI
DUE TO THE HIGH POTENTIAL FOR GROUND
WATER CONTAMINATION. SI 10/15/90 RECOM-
MENDED NO FURTHER ACTION.
NO VISIBLE PROBLEM FOUND ON DRIVE BY
CONDUCTED 9/12/90.
SOME AREAS OF THE FLOOR ARE WET WITH
OOZING WATER OR SOME OTHER LIQUID.
DHS RECOMMENDS LOW PRIORITY PEA --
ACTIVE GENERATOR ON SITE.
SITE SCREENING DONE SITE IS A LANDFILL AND HAS SURFACE IM-
POUNDMENTS; FURTHER RESEARCH NEEDED

CHMIRS:

OES Control Number:	02-1636
Chemical Name:	processed water
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-1636
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported

(Continued) **S101480583**

Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Industrial Plant
Cleanup By :	Reporting Party
Containment :	Yes
What Happened :	Pump failed to start causing the release. Flowed onto the ground (dirt) within the facility.
Type :	Gal(s)
Other :	trace amounts of chemicals
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	3/25/2002 0500
Evacuations :	0

AF209
SW
> 1
6017 ft.

Relative:
Lower

Actual:
1174 ft.

26000 SPRINGBROOK AVE **ERNS** **2002596353**
26000 SPRINGBROOK AVE **N/A**
SAUGUS, CA 91350

Site 24 of 25 in cluster AF

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

AF210
SW
> 1
6017 ft.

Relative:
Lower

Actual:
1174 ft.

26000 SPRINGBROOK AVE **CHMIRS** **U001567703**
SAUGUS, CA 91350 **HIST UST** **N/A**
EMI

Site 25 of 25 in cluster AF

CHMIRS:

OES Control Number:	02-5479
Chemical Name:	Vinyl Chloride
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-5479
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported

(Continued) **U001567703**

Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	Yes
Waterway :	No
Spill Site :	Industrial Plant
Cleanup By :	Unknown
Containment :	Gasket on hatch of reactor developed a leak.
What Happened :	Not reported
Type :	Unknown
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	10/10/2002 0140
Evacuations :	0
OES Control Number:	02-5779
Chemical Name:	processed water
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-5779
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0

(Continued) **U001567703**

Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Industrial Plant
Cleanup By :	Reporting Party
Containment :	Yes
What Happened :	Unknown what caused the release. It released onto the ground. Most of it has been picked up and placed in a steel drum.
Type :	Gal(s)
Other :	water from manufacturing operation
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	10/24/2002 2300
Evacuations :	0
OES Control Number:	02-1146
Chemical Name:	Processed Water
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-1146
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported

(Continued) **U001567703**

Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Industrial Plant
Cleanup By :	Reporting Party
Containment :	Yes
What Happened :	A level probe in tank failed and the tank overflowed
Type :	Gal(s)
Other :	water
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	2/27/2002 1600
Evacuations :	0
OES Control Number:	02-3617
Chemical Name:	processed water
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-3617
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported

(Continued) **U001567703**

Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Industrial Plant
Cleanup By :	Reporting Party
Containment :	Yes
What Happened :	Tank over filled causing the release.
Type :	Gal(s)
Other :	has small amt of organic compounds in the water
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	7/2/2002 0100
Evacuations :	0
OES Control Number:	02-4470
Chemical Name:	vinyl chloride
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-4470
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Merchant/Business
Cleanup By :	N/A
Containment :	Yes

(Continued) **U001567703**

What Happened :	Leak from a gasket caused the release.
Type :	Lbs.
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	8/18/2002 0645
Evacuations :	0

UST HIST:

Facility ID:	479	Owner Name:	KEYSOR CENTURY CORPORATION
Total Tanks:	8	Region:	STATE
Owner Address:	26000 SPRINGBROOK ROAD SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00010000	Year Installed:	1974
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	Visual, Stock Inventor		
Contact Name:	Not reported	Telephone:	(805) 259-2360
Facility Type:	Other	Other Type:	MANUFACTURER

Facility ID:	479	Owner Name:	KEYSOR CENTURY CORPORATION
Total Tanks:	8	Region:	STATE
Owner Address:	26000 SPRINGBROOK ROAD SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	2
Tank Capacity:	00010000	Year Installed:	1974
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	Visual, Stock Inventor		
Contact Name:	Not reported	Telephone:	(805) 259-2360
Facility Type:	Other	Other Type:	MANUFACTURER

Facility ID:	479	Owner Name:	KEYSOR CENTURY CORPORATION
Total Tanks:	8	Region:	STATE
Owner Address:	26000 SPRINGBROOK ROAD SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	3	Container Num:	3
Tank Capacity:	00010000	Year Installed:	1974
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	Visual, Stock Inventor		
Contact Name:	Not reported	Telephone:	(805) 259-2360
Facility Type:	Other	Other Type:	MANUFACTURER

Facility ID:	479	Owner Name:	KEYSOR CENTURY CORPORATION
Total Tanks:	8	Region:	STATE
Owner Address:	26000 SPRINGBROOK ROAD SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	4	Container Num:	4
Tank Capacity:	00010000	Year Installed:	1974
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	Visual, Stock Inventor		
Contact Name:	Not reported	Telephone:	(805) 259-2360
Facility Type:	Other	Other Type:	MANUFACTURER

(Continued) **U001567703**

Facility ID:	479	Owner Name:	KEYSOR CENTURY CORPORATION
Total Tanks:	8	Region:	STATE
Owner Address:	26000 SPRINGBROOK ROAD SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	5	Container Num:	7
Tank Capacity:	00001000	Year Installed:	1974
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	Visual, Stock Inventor		
Contact Name:	Not reported	Telephone:	(805) 259-2360
Facility Type:	Other	Other Type:	MANUFACTURER

Facility ID:	479	Owner Name:	KEYSOR CENTURY CORPORATION
Total Tanks:	8	Region:	STATE
Owner Address:	26000 SPRINGBROOK ROAD SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	6	Container Num:	8
Tank Capacity:	00001000	Year Installed:	1972
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	Visual, Stock Inventor		
Contact Name:	Not reported	Telephone:	(805) 259-2360
Facility Type:	Other	Other Type:	MANUFACTURER

Facility ID:	479	Owner Name:	KEYSOR CENTURY CORPORATION
Total Tanks:	8	Region:	STATE
Owner Address:	26000 SPRINGBROOK ROAD SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	7	Container Num:	9
Tank Capacity:	00006000	Year Installed:	1974
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	Visual, Stock Inventor		
Contact Name:	Not reported	Telephone:	(805) 259-2360
Facility Type:	Other	Other Type:	MANUFACTURER

Facility ID:	479	Owner Name:	KEYSOR CENTURY CORPORATION
Total Tanks:	8	Region:	STATE
Owner Address:	26000 SPRINGBROOK ROAD SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	8	Container Num:	10
Tank Capacity:	00006000	Year Installed:	1974
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	Visual, Stock Inventor		
Contact Name:	Not reported	Telephone:	(805) 259-2360
Facility Type:	Other	Other Type:	MANUFACTURER

EMISSIONS :

Facility ID :	11142
Air District Code :	SC
SIC Code :	2821
Total Priority Score :	Not reported
Health Risk Assessment :	17
Non-cancer Chronic Haz Index :	0.06
Non-cancer Acute Haz Index :	0.54
Air Basin :	SC

(Continued) **U001567703**

Air District Name : SOUTH COAST AQMD
Community Health Air Pollution Info System : Y
Consolidated Emission Reporting Rule : B
County Code : 19
County ID : 19

AG211
SW
> 1
6160 ft.

HI TECH TRANSMISSION
25845 SAN FERNANDO RD
SAUGUS, CA 91350

RCRIS-SQG **1000594969**
FINDS **CAD983588567**

Site 1 of 9 in cluster AG

Relative:
Lower

Actual:
1169 ft.

RCRIS:
Owner: G&K MANAGEMENT CO INC
(415) 555-1212
EPA ID: CAD983588567

Contact: JONES MATTHEW
(805) 254-8060

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

AG212
SW
> 1
6160 ft.

PLAZA CLARITA
25845 SAN FERNANDO RD
SANTA CLARITA, CA

HAZNET **U002281903**
LOS ANGELES CO. HMS **N/A**

Site 2 of 9 in cluster AG

Relative:
Lower

Actual:
1169 ft.

HAZNET:
Gepaid: CAL000203251
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 0.05
Waste Category: Other organic solids
Disposal Method: Transfer Station
Contact: SHIRA TITEN / GNK MGT
Telephone: (310) 280-5087
Mailing Address: 5150 OVERLAND AVE
CULVER CITY, CA 90230
County Not reported

Gepaid: CAL000203251
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 18.76
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: SHIRA TITEN / GNK MGT
Telephone: (310) 280-5087
Mailing Address: 5150 OVERLAND AVE
CULVER CITY, CA 90230

PLAZA CLARITA (Continued) **U002281903**

County Not reported

HMS:

Facility Id: 008466-I12315
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Closed
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 008466-012315
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

AG213
SW
> 1
6173 ft.

RIDE WAY AUTO SERVICE
25843 SAN FERNANDO RD
SANTA CLARITA, CA 91350

HAZNET S103647177
LOS ANGELES CO. HMS N/A

Site 3 of 9 in cluster AG

Relative:
Lower

Actual:
1169 ft.

HAZNET:

Gepaid: CAL000163437
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 3.7530
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: NAJEB JAMILI
Telephone: (805) 222-7477
Mailing Address: 25843 SAN FERNANDO RD STE 35
SANTA CLARITA, CA 91350 - 2560
County Los Angeles

Gepaid: CAL000163437
TSD EPA ID: CAL000113451
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .7923
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Contact: NAJEB JAMILI
Telephone: (805) 222-7477
Mailing Address: 25843 SAN FERNANDO RD STE 35
SANTA CLARITA, CA 91350 - 2560
County Los Angeles

Gepaid: CAL000163437
TSD EPA ID: CAL000113451
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3336
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Contact: NAJEB JAMILI
Telephone: (805) 222-7477
Mailing Address: 25843 SAN FERNANDO RD STE 35

RIDE WAY AUTO SERVICE (Continued) **S103647177**

SANTA CLARITA, CA 91350 - 2560
County Los Angeles

Gepaid: CAL000163437
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.4587
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: NAJEB JAMILI
Telephone: (805) 222-7477
Mailing Address: 25843 SAN FERNANDO RD STE 35
SANTA CLARITA, CA 91350 - 2560
County Los Angeles

Gepaid: CAL000163437
TSD EPA ID: CAL000113451
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.8347
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Contact: NAJEB JAMILI
Telephone: (805) 222-7477
Mailing Address: 25843 SAN FERNANDO RD STE 35
SANTA CLARITA, CA 91350 - 2560
County Los Angeles

HMS:
Facility Id: 020241-028822
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

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214 SSE > 1 6221 ft. **WHITTAKER CORP/BERMITE DIV** **HAZNET** **S103642834**
22116 W SOLEDAD CYN RD **N/A**
SAUGUS, CA 91350

Relative: Higher

Actual: 1557 ft.

HAZNET:
Gepaid: CAD064573108
TSD EPA ID: CAT000646117
Gen County: Los Angeles
Tsd County: Kings
Tons: 39.6116
Waste Category: Contaminated soil from site clean-ups
Disposal Method: Disposal, Land Fill
Contact: WHITTAKER PORTA BELLA DEV INC
Telephone: (805) 526-5700
Mailing Address: 22116 SOLEDAD CANYON RD #W
SANTA CLARITA, CA 91350 - 2627
County Los Angeles

WHITTAKER CORP/BERMITE DIV (Continued) **S103642834**

Gepaid: CAD064573108
TSD EPA ID: CAT000646117
Gen County: Los Angeles
Tsd County: Kings
Tons: 1.0535
Waste Category: Contaminated soil from site clean-ups
Disposal Method: Transfer Station
Contact: WHITTAKER PORTA BELLA DEV INC
Telephone: (805) 526-5700
Mailing Address: 22116 SOLEDAD CANYON RD #W
SANTA CLARITA, CA 91350 - 2627
County Los Angeles

Gepaid: CAD064573108
TSD EPA ID: CAT080010101
Gen County: Los Angeles
Tsd County: San Diego
Tons: .0250
Waste Category: Other inorganic solid waste
Disposal Method: Treatment, Tank
Contact: WHITTAKER PORTA BELLA DEV INC
Telephone: (805) 526-5700
Mailing Address: 22116 SOLEDAD CANYON RD #W
SANTA CLARITA, CA 91350 - 2627
County Los Angeles

Gepaid: CAD064573108
TSD EPA ID: CAT000646117
Gen County: Los Angeles
Tsd County: Kings
Tons: .0000
Waste Category: Other organic solids
Disposal Method: Not reported
Contact: WHITTAKER PORTA BELLA DEV INC
Telephone: (805) 526-5700
Mailing Address: 22116 SOLEDAD CANYON RD #W
SANTA CLARITA, CA 91350 - 2627
County Los Angeles

Gepaid: CAD064573108
TSD EPA ID: CAT000646117
Gen County: Los Angeles
Tsd County: Kings
Tons: 8.4280
Waste Category: Other organic solids
Disposal Method: Disposal, Land Fill
Contact: WHITTAKER PORTA BELLA DEV INC
Telephone: (805) 526-5700
Mailing Address: 22116 SOLEDAD CANYON RD #W
SANTA CLARITA, CA 91350 - 2627
County Los Angeles

Click this hyperlink while viewing on your computer to access
3 additional CA HAZNET record(s) in the EDR Site Report.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AG215	**ACE AUTOMOTIVE**	**HAZNET**	**S104581261**
SW	**25835 SAN FERNANDO RD STE 29**		**N/A**
> 1	**SAUGUS, CA 91350**		
6224 ft.			

Site 4 of 9 in cluster AG

Relative: Lower

Actual: 1170 ft.

HAZNET:

Gepaid:	CAL000182020
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.2293
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	ROBERT KAUTZ
Telephone:	(805) 253-1851
Mailing Address:	25835 SAN FERNANDO RD STE 29 SAUGUS, CA 91350
County	Los Angeles

Gepaid:	CAL000182020
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2293
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	ROBERT KAUTZ
Telephone:	(805) 253-1851
Mailing Address:	25835 SAN FERNANDO RD STE 29 SAUGUS, CA 91350
County	Los Angeles

AG216	**ACE ATUOMOTIVE**	**LOS ANGELES CO. HMS**	**S104538155**
SW	**25835 SAN FERNANDO RD #29**		**N/A**
> 1	**SANTA CLARITA, CA**		
6227 ft.			

Site 5 of 9 in cluster AG

Relative: Lower

Actual: 1170 ft.

HMS:

Facility Id:	020240-028821		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AG217	**VALENCIA AUTOMOTIVE CENTER MD MORTAGE**	**RCRIS-SQG**	**1000207308**
SW	**25835 SAN FERNANDO RD**	**FINDS**	**CAD982524738**
> 1	**SAUGUS, CA 91350**	**HAZNET**	
6227 ft.			

Site 6 of 9 in cluster AG

Relative: Lower

Actual: 1170 ft.

VALENCIA AUTOMOTIVE CENTER MD MORTAGE (Continued) **1000207308**

RCRIS:
Owner: NOT REQUIRED
(415) 555-1212
EPA ID: CAD982524738

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAD982524738
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 11.9095
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 15910 VENTURA BLVD 1813
ENCINO, CA 91436
County Los Angeles

Gepaid: CAD982524738
TSD EPA ID: CAD089446710
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 5.8380
Waste Category: Unspecified oil-containing waste
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 15910 VENTURA BLVD 1813
ENCINO, CA 91436
County Los Angeles

Gepaid: CAD982524738
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.1050
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 15910 VENTURA BLVD 1813
ENCINO, CA 91436
County Los Angeles

VALENCIA AUTOMOTIVE CENTER MD MORTAGE (Continued) **1000207308**

Gepaid: CAD982524738
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 22.5180
Waste Category: Oil/water separation sludge
Disposal Method: Recycler
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 15910 VENTURA BLVD 1813
ENCINO, CA 91436
County Los Angeles

Gepaid: CAD982524738
TSD EPA ID: CAD980883177
Gen County: Los Angeles
Tsd County: Kern
Tons: 22.5180
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 15910 VENTURA BLVD 1813
ENCINO, CA 91436
County Los Angeles

Click this hyperlink while viewing on your computer to access
1 additional CA HAZNET record(s) in the EDR Site Report.

AG218 **LIONS TOWING AND MOTORS** **HAZNET** **S104583143**
SW **25835 SAN FERNANDO ROAD** **N/A**
> 1 **SANTA CLARITA, CA 91250**
6227 ft.

Site 7 of 9 in cluster AG

Relative: Lower

Actual: 1170 ft.

HAZNET:
Gepaid: CAL000209243
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.0834
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: SAEED MAHABADI
Telephone: (805) 253-2700
Mailing Address: PO BOX 802585
SANTA CLARITA, CA 91380 - 2585
County Los Angeles

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AG219 **SW** **> 1** **6227 ft.**	**INTERSTATE BATTERIES** **25835 SAN FERNANDO RD #24** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S104538154** **N/A**

Site 8 of 9 in cluster AG

Relative: Lower

Actual: 1170 ft.

HMS:

Facility Id:	020238-028819		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AG220 **SW** **> 1** **6280 ft.**	**AAMCO TRANSMISSION** **25825 SAN FERNANDO RD** **SAUGUS, CA 91350**	**HAZNET**	**S105088712** **N/A**

Site 9 of 9 in cluster AG

Relative: Lower

Actual: 1172 ft.

HAZNET:

Gepaid:	CAD982315129
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.3251
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	BEAULIEU FIN CORP.
Telephone:	(661) 259-3013
Mailing Address:	25825 SAN FERNANDO RD SANTA CLARITA, CA 91350
County	Los Angeles

Gepaid:	CAD982315129
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.07
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	MARK BEAULIEU PRESIDENT
Telephone:	(661) 259-3013
Mailing Address:	25825 SAN FERNANDO RD SANTA CLARITA, CA 91350
County	Not reported

AH221 **West** **> 1** **6301 ft.**	**VALENCIA GRILLE** **23320 VALENCIA BLVD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S105193936** **N/A**

Site 1 of 3 in cluster AH

Relative: Lower

Actual: 1142 ft.

HMS:

Facility Id:	018424-036836		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

AH222
West
> 1
6301 ft.

ZEKO'S RESTAURANT
23320 VALENCIA BLVD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103317723**
N/A

Site 2 of 3 in cluster AH

Relative:
Lower

Actual:
1142 ft.

HMS:

Facility Id:	018424-025796		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

223
NNW
> 1
6304 ft.

VALENCIA RAQUET CLUB HOME OWNERS ASSOC
27055 RIO BOSQUE
VALENCIA, CA 91354

HAZNET **S106086496**
N/A

Relative:
Higher

Actual:
1231 ft.

HAZNET:

Gepaid:	CAC002550211
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	99
Tons:	7.58
Waste Category:	Asbestos-containing waste
Disposal Method:	Not reported
Contact:	SANDY MOSS
Telephone:	(661) 297-0999
Mailing Address:	PO BOX 800997 SANTA CLARITA, CA 91380
County	Not reported

AI224
West
> 1
6323 ft.

HANDS ON HEALTHCARE
23504 CINEMA DR
VALENCIA, CA 91355

HAZNET **S103644596**
N/A

Site 1 of 2 in cluster AI

Relative:
Lower

Actual:
1150 ft.

HAZNET:

Gepaid:	CAL921995349
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.0625
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	DR J. VAN GRINSVEN
Telephone:	(805) 254-3223
Mailing Address:	23504 CINEMA DR VALENCIA, CA 91355 - 1723
County	Los Angeles

HANDS ON HEALTHCARE (Continued) **S103644596**

Gepaid:	CAL921995349
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.0625
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	DR J. VAN GRINSVEN
Telephone:	(805) 254-3223
Mailing Address:	23504 CINEMA DR
	VALENCIA, CA 91355 - 1723
County	Los Angeles

Gepaid:	CAL921995349
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.0583
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	DR J. VAN GRINSVEN
Telephone:	(805) 254-3223
Mailing Address:	23504 CINEMA DR
	VALENCIA, CA 91355 - 1723
County	Los Angeles

Gepaid:	CAL921995349
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.0625
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	DR J. VAN GRINSVEN
Telephone:	(805) 254-3223
Mailing Address:	23504 CINEMA DR
	VALENCIA, CA 91355 - 1723
County	Los Angeles

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225 **22520 BARBACOA DR.** **ERNS** **90181601**
North **22520 BARBACOA DR.** **N/A**
> 1 **SANTA CLARITA, CA 91350**
6353 ft.

Relative:
Higher

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:
1356 ft.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
226 NW > 1 6354 ft.	**48 HOUR T-SHIRTS 23113 CUERVO SAUGUS, CA 91350**	**HAZNET**	**S105089702 N/A**

Relative: Higher

Actual: 1250 ft.

HAZNET:

Gepaid:	CAL000073719
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.5421
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	DONNA BELTRAN
Telephone:	(000) 000-0000
Mailing Address:	23113 CUERVO SANTA CLARITA, CA 91354 - 2221
County	Los Angeles

AI227 West > 1 6371 ft.	**N & M RESTAURANT 23460 CINEMA DR A SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S102531991 N/A**

Site 2 of 2 in cluster AI

Relative: Lower

Actual: 1149 ft.

HMS:

Facility Id:	017598-024065		
Area:	7A		
Facility Type:	I02		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

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228 SW > 1 6456 ft.	**CORNER SAN FERNANDO RD. AND DRAYTON ST CORNER SAN FERNANDO RD. AND DRAYTON ST SANTA CLARITA, CA**	**ERNS**	**90168505 N/A**

Relative: Lower

Actual: 1160 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

AH229 West > 1 6498 ft.	**M.G. BARGAINS/SHORELINE U.S.A. 1139 E DOMINGUEZ ST E / F CARSON, CA**	**LOS ANGELES CO. HMS**	**S103489720 N/A**

Site 3 of 3 in cluster AH

Relative: Lower

Actual: 1140 ft.

HMS:

Facility Id:	008314-I08871		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		
Facility Id:	023965-033310		

M.G. BARGAINS/SHORELINE U.S.A. (Continued) **S103489720**

Area: 22
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

AJ230
West
> 1
6556 ft.

Relative:
Lower

Actual:
1139 ft.

SCOTT CHIROPRACTIC - UNIT R
23360 VALENCIA BLVD #R
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S102064184**
N/A

Site 1 of 7 in cluster AJ

HMS:
Facility Id: 008314-008871
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

AJ231
West
> 1
6556 ft.

Relative:
Lower

Actual:
1139 ft.

THE ENGLISH CLEANERS
23360 W VALENCIA BLVD
VALENCIA, CA 91355

RCRIS-SQG **1000904907**
FINDS **CA0000184796**
HAZNET
CLEANERS

Site 2 of 7 in cluster AJ

RCRIS:
Owner: JASTENDER GILL
(805) 287-1642
EPA ID: CA0000184796

Contact: JA GILL
(805) 287-1642

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

CA Cleaners:
Inactive Date: 6/30/1999
EPA Id: CA0000184796
Facility Address 2 Not reported
NAICS Code : Not reported
Facility Active : No
Mail Name : Not reported
Mailing Address: 23360 VALENCIA BLVD # W
VALENCIA, CA 91355
Owner Name : JASTENDER GILL
Mailing Address: 23360 W VALENCIA BLVD #J
VALENCIA, CA 91355
Owner Telephone 8052871642
Contact Name : JASTENDER GILL
Mailing Address: INACT 99VQ FINAL NOTICE - BATCH
4/11/00
VALENCIA, CA 91355

THE ENGLISH CLEANERS (Continued) **1000904907**

Contact Telephone: 8052871642
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 0

HAZNET:

Gepaid: CA0000184796
TSD EPA ID: CAD981397417
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4149
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: JASTENDER GILL
Telephone: (805) 287-1642
Mailing Address: 23360 VALENCIA BLVD # W
VALENCIA, CA 91355 - 1700
County Los Angeles

Gepaid: CA0000184796
TSD EPA ID: CAD981397417
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .5483
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: JASTENDER GILL
Telephone: (805) 287-1642
Mailing Address: 23360 VALENCIA BLVD # W
VALENCIA, CA 91355 - 1700
County Los Angeles

Gepaid: CA0000184796
TSD EPA ID: CAD981397417
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .5170
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: JASTENDER GILL
Telephone: (805) 287-1642
Mailing Address: 23360 VALENCIA BLVD # W
VALENCIA, CA 91355 - 1700
County Los Angeles

Gepaid: CA0000184796
TSD EPA ID: CAD981397417
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2001
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: JASTENDER GILL
Telephone: (805) 287-1642
Mailing Address: 23360 VALENCIA BLVD # W
VALENCIA, CA 91355 - 1700
County Los Angeles

THE ENGLISH CLEANERS (Continued) **1000904907**

Gepaid: CA0000184796
TSD EPA ID: CAD981397417
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0000
Waste Category:
Disposal Method: Recycler
Contact: JASTENDER GILL
Telephone: (805) 287-1642
Mailing Address: 23360 VALENCIA BLVD # W
VALENCIA, CA 91355 - 1700
County Los Angeles

Click this hyperlink while viewing on your computer to access
1 additional CA HAZNET record(s) in the EDR Site Report.

AJ232 **SCOTT CHIROPRACTIC** **HAZNET** **S103644400**
West **23360 VALENCIA BLVD #R** **N/A**
> 1 **VALENCIA, CA 91355**
6556 ft.

Site 3 of 7 in cluster AJ

Relative: Lower

Actual: 1139 ft.

HAZNET:
Gepaid: CAL000087550
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .1250
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: WIENER SCOTT
Telephone: (805) 253-0221
Mailing Address: 23360 VALENCIA BLVD STE R
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000087550
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .0625
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Not reported
Contact: WIENER SCOTT
Telephone: (805) 253-0221
Mailing Address: 23360 VALENCIA BLVD STE R
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000087550
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .1250
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: WIENER SCOTT
Telephone: (805) 253-0221
Mailing Address: 23360 VALENCIA BLVD STE R

SCOTT CHIROPRACTIC (Continued) — **S103644400**

VALENCIA, CA 91355
County: Los Angeles

AJ233
West
> 1
6556 ft.

GREAT WALL RESTAURANT
23360 W VALENCIA BLVD #H
SANTA CLARITA, CA

LOS ANGELES CO. HMS — **S105053496** / **N/A**

Site 4 of 7 in cluster AJ

Relative:
Lower

Actual:
1139 ft.

HMS:
Facility Id: 026568-036464
Area: 7A
Facility Type: I01
Permit Number: 174 — Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

234
SW
> 1
6566 ft.

HASA PRODUCTS CO INC
25950 SPRINGBROOK AVE
SANTA CLARITA, CA

LOS ANGELES CO. HMS — **U003060734** / **N/A**

Relative:
Lower

Actual:
1175 ft.

HMS:
Facility Id: 004572-I04747
Area: 7A
Facility Type: I00
Permit Number: 174 — Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

235
SE
> 1
6575 ft.

BOWMAN HIGH SCHOOL/WM S HART UNION HSD
21508 REDVIEW DR
SANTA CLARITA, CA 91350

HAZNET — **S102816201** / **N/A**

Relative:
Higher

Actual:
1317 ft.

HAZNET:
Gepaid: CAL000083996
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .0083
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: WM S HART UNION HS DISTRICT
Telephone: (805) 259-0033
Mailing Address: 21515 REDVIEW DR
SANTA CLARITA, CA 91350 - 2947
County: Los Angeles

Gepaid: CAL000083996
TSD EPA ID: CAD008364432
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0000
Waste Category: Laboratory waste chemicals
Disposal Method: Not reported
Contact: WM S HART UNION HS DISTRICT
Telephone: (805) 259-0033

BOWMAN HIGH SCHOOL/WM S HART UNION HSD (Continued) **S102816201**

Mailing Address: 21515 REDVIEW DR
SANTA CLARITA, CA 91350 - 2947
County Los Angeles

Gepaid: CAL000083996
TSD EPA ID: CAD008364432
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0400
Waste Category: Laboratory waste chemicals
Disposal Method: Recycler
Contact: WM S HART UNION HS DISTRICT
Telephone: (805) 259-0033
Mailing Address: 21515 REDVIEW DR
SANTA CLARITA, CA 91350 - 2947
County Los Angeles

Gepaid: CAL000083996
TSD EPA ID: CAD008364432
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0050
Waste Category: Laboratory waste chemicals
Disposal Method: Treatment, Tank
Contact: WM S HART UNION HS DISTRICT
Telephone: (805) 259-0033
Mailing Address: 21515 REDVIEW DR
SANTA CLARITA, CA 91350 - 2947
County Los Angeles

Gepaid: CAL000083996
TSD EPA ID: CAD008364432
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0175
Waste Category: Laboratory waste chemicals
Disposal Method: Treatment, Incineration
Contact: WM S HART UNION HS DISTRICT
Telephone: (805) 259-0033
Mailing Address: 21515 REDVIEW DR
SANTA CLARITA, CA 91350 - 2947
County Los Angeles

Click this hyperlink while viewing on your computer to access
6 additional CA HAZNET record(s) in the EDR Site Report.

AK236
WSW
> 1
6660 ft.

Relative:
Lower

Actual:
1163 ft.

TERRY YORKS VALENCIA HONDA **HAZNET** **S106093840**
23551 MAGIC MOUNTAIN PKWY **N/A**
VALENCIA, CA 91355

Site 1 of 2 in cluster AK

TERRY YORKS VALENCIA HONDA (Continued) **S106093840**

HAZNET:

Gepaid:	CAL000258828
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	Not reported
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Not reported
Contact:	DEREK HINDIGIAN/SVS MGR.
Telephone:	(661) 255-5551
Mailing Address:	23551 MAGIC MOUNTAIN PKWY VALENCIA, CA 91355
County	Not reported

Gepaid:	CAL000258828
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.20
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	DEREK HINDIGIAN/SVS MGR.
Telephone:	(661) 255-5551
Mailing Address:	23551 MAGIC MOUNTAIN PKWY VALENCIA, CA 91355
County	Not reported

AK237
WSW
> 1
6660 ft.

Relative:
Lower

Actual:
1163 ft.

VALENCIA HONDA **LOS ANGELES CO. HMS** **S105193736**
23551 W MAGIC MOUNTAIN PKWY **N/A**
SANTA CLARITA, CA

Site 2 of 2 in cluster AK

HMS:

Facility Id:	026669-036736		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

AJ238
West
> 1
6670 ft.

Relative:
Lower

Actual:
1138 ft.

SUTTERS MILL RESTAURANT **LOS ANGELES CO. HMS** **U003063077**
23380 W VALENCIA BLVD **N/A**
SANTA CLARITA, CA

Site 5 of 7 in cluster AJ

HMS:

Facility Id:	007275-I07614		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

AJ239
West
> 1
6775 ft.

Relative:
Lower

Actual:
1137 ft.

MIKE YUROSEK & SON, INC.
23511 VALENCIA BLVD
VALENCIA, CA 91350

HIST UST **U001567708**
N/A

Site 6 of 7 in cluster AJ

UST HIST:

Facility ID:	47390	Owner Name:	MIKE YUROSEK & SON, INC.
Total Tanks:	3	Region:	STATE
Owner Address:	6900 MOUNTAIN VIEW ROAD LAMONT, CA 93241		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00000550	Year Installed:	Not reported
Type of Fuel:	REGULAR	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	MIKE YUROSEK	Telephone:	(805) 259-1037
Facility Type:	Other	Other Type:	FARM

Facility ID:	47390	Owner Name:	MIKE YUROSEK & SON, INC.
Total Tanks:	3	Region:	STATE
Owner Address:	6900 MOUNTAIN VIEW ROAD LAMONT, CA 93241		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	2
Tank Capacity:	00001000	Year Installed:	Not reported
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	MIKE YUROSEK	Telephone:	(805) 259-1037
Facility Type:	Other	Other Type:	FARM

Facility ID:	47390	Owner Name:	MIKE YUROSEK & SON, INC.
Total Tanks:	3	Region:	STATE
Owner Address:	6900 MOUNTAIN VIEW ROAD LAMONT, CA 93241		
Tank Used for:	PRODUCT		
Tank Num:	3	Container Num:	3
Tank Capacity:	00001000	Year Installed:	Not reported
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	MIKE YUROSEK	Telephone:	(805) 259-1037
Facility Type:	Other	Other Type:	FARM

AJ240
West
> 1
6775 ft.

Relative:
Lower

Actual:
1137 ft.

NEWHALL LAND & FARMING CO
23511 W VALENCIA BLVD
VALENCIA, CA 91355

LUST **S102064194**
LOS ANGELES CO. HMS **N/A**

Site 7 of 7 in cluster AJ

State LUST:

Cross Street:	Not reported		
Qty Leaked:	0		
Case Number	I-14697		
Reg Board:	4		
Chemical:	Gasoline		
Lead Agency:	Local Agency		
Local Agency :	19000		
Case Type:	Soil only		
Status:	Case Closed		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported

NEWHALL LAND & FARMING CO (Continued) **S102064194**

Pollution Char: Not reported
Remed Plan: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: 1/10/90 0:00
Release Date: 01/10/1990
Cleanup Fund Id : Not reported
Discover Date : / /
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 1/22/90 0:00
Funding: Not reported
Staff Initials: Not reported
How Discovered: Not reported
How Stopped: Not reported
Interim : Not reported
Leak Cause: Not reported
Leak Source: Not reported
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Priority: Not reported
Local Case # : 0
Beneficial: Not reported
Staff : UNK
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SANTA CLARA RIVER VA
Operator : Not reported
Oversight Prgm: LUST
Review Date : 1/29/90 0:00
Stop Date : / /
Work Suspended :Not reported
Responsible PartyNEWHALL LAND & FARMING
RP Address: 23823 VALENCIA BOULEVARD, VALENCIA, 91355
Global Id: T0603704196
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 01/10/1990
Lead Agency: Local Agency
Local Agency: 19000
Substance: Gasoline
Case Type: Soil
Status: Case Closed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 1/29/90
Date Leak Record Entered: 1/22/90
Historical Max MTBE Date: Not reported

NEWHALL LAND & FARMING CO (Continued) **S102064194**

GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil :	Not reported
County:	Los Angeles
Organization :	Not reported
Regional Board:	4
Owner Contact: Not reported	
Responsible Party:	NEWHALL LAND & FARMING
RP Address:	23823 VALENCIA BOULEVARD, VALENCIA, 91355
Significant Interim Remedial Action Taken:	Not reported
Program :	LUST
Lat / Long :	34 / -119
Local Agency Staff:	Not reported
Summary :	Not reported
Hydrologic Basin # :	SANTA CLARA RIVER VA
Beneficial Use :	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	0
Abatement Method Used at the Site:	Not reported
Operator :	Not reported
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	285.5994251
Assigned Name :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	/ /
How the Leak was Discovered:	Not reported
How the Leak was Stopped:	Not reported
Cause of Leak:	Not reported
Leak Source:	Not reported
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	1/10/90
Enforcement Action Date:	Not reported
Date Leak First Reported:	01/10/1990
Enforcement Type:	Not reported
Global ID :	T0603704196
Cross Street: Not reported	

HMS:

Facility Id:	014174-014697		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	Removed		
Region:	Los Angeles County:		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AL241	**MIDAS MUFFLER**	**RCRIS-SQG**	**1000595948**
SW	**25745 SAN FERNANDO RD**	**FINDS**	**CAD983599069**
> 1	**SAUGUS, CA 91350**		
6903 ft.			

Site 1 of 3 in cluster AL

Relative: Lower

Actual: 1174 ft.

RCRIS:

Owner: GOLDRICH TRUST NO 1
(415) 555-1212
EPA ID: CAD983599069

Contact: SCOTT DAVIS
(805) 255-0855

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

AL242	**MYFRAN INC DBA MIDAS MUFFLER**	**HAZNET**	**S104574919**
SW	**25745 SAN FERNANDO RD**		**N/A**
> 1	**SAUGUS, CA 91351**		
6903 ft.			

Site 2 of 3 in cluster AL

Relative: Lower

Actual: 1174 ft.

HAZNET:

Gepaid: CAD983599069
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0500
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: MYFRAN INC
Telephone: (000) 000-0000
Mailing Address: 25745 SAN FERNANDO RD
SAUGUS, CA 91351
County Los Angeles

Gepaid: CAD983599069
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0417
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Treatment, Tank
Contact: MYFRAN INC
Telephone: (000) 000-0000
Mailing Address: 25745 SAN FERNANDO RD
SAUGUS, CA 91351
County Los Angeles

MYFRAN INC DBA MIDAS MUFFLER (Continued) **S104574919**

Gepaid: CAD983599069
TSD EPA ID: CAD093459485
Gen County: Los Angeles
Tsd County: Fresno
Tons: .0625
Waste Category: Organic liquids with metals Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
Disposal Method: Transfer Station
Contact: MYFRAN INC
Telephone: (000) 000-0000
Mailing Address: 25745 SAN FERNANDO RD
SAUGUS, CA 91351
County Los Angeles

Gepaid: CAD983599069
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.6104
Waste Category: Oil/water separation sludge
Disposal Method: Recycler
Contact: MYFRAN INC
Telephone: (000) 000-0000
Mailing Address: 25745 SAN FERNANDO RD
SAUGUS, CA 91351
County Los Angeles

Gepaid: CAD983599069
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2459
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: MYFRAN INC
Telephone: (000) 000-0000
Mailing Address: 25745 SAN FERNANDO RD
SAUGUS, CA 91351
County Los Angeles

Click this hyperlink while viewing on your computer to access
2 additional CA HAZNET record(s) in the EDR Site Report.

AL243 **MIDAS MUFFLER & BRAKE SHOP** **LOS ANGELES CO. HMS** **S103945377**
SW **25745 SAN FERNANDO RD** **N/A**
> 1 **SANTA CLARITA, CA**
6903 ft.

Site 3 of 3 in cluster AL

Relative:
Lower

HMS:
Facility Id: 020233-028814
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

Actual:
1174 ft.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AM244 West > 1 6910 ft.	**KISHO APANESE RESTAURANT** 23430 W VALENCIA BLVD SANTA CLARITA, CA	**LOS ANGELES CO. HMS**	**S102592972** N/A

Site 1 of 3 in cluster AM

Relative: Lower **Actual: 1141 ft.**

HMS:

Facility Id:	017717-024337		
Area:	7A		
Facility Type:	I02		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

AN245 SW > 1 6936 ft.	**FOOTHILL ELECTRIC MOTORS** 25852 SPRINGBROOK AVE SANTA CLARITA, CA	**LOS ANGELES CO. HMS**	**S103945399** N/A

Site 1 of 11 in cluster AN

Relative: Lower **Actual: 1179 ft.**

HMS:

Facility Id:	020341-028945		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AN246 SW > 1 6936 ft.	**BEE & BEE MACHINE SHOP** 25852 SPRINGBROOK AVE SANTA CLARITA, CA	**LOS ANGELES CO. HMS**	**U003059896** N/A

Site 2 of 11 in cluster AN

Relative: Lower **Actual: 1179 ft.**

HMS:

Facility Id:	003639-I03763		
Area:	7A		
Facility Type:	I00		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

AN247 SW > 1 6951 ft.	**25848 SPRINGBROOK RD** SANTA CLARITA, CA 91350	**CHMIRS**	**S100279183** N/A

Site 3 of 11 in cluster AN

Relative: Lower **Actual: 1179 ft.**

CHMIRS:

OES Control Number:	8904376
Chemical Name:	Not reported
Extent of Release:	Not reported
Property Use:	Industrial, Utility
Incident Date:	13-JAN-89
Date Completed:	13-JAN-89
Time Completed :	845
Agency Id Number :	19110
Agency Incident Number :	1-10
OES Incident Number :	8904376
Time Notified :	742

(Continued) **S100279183**

Surrounding Area :	700
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	N
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	0
Others Number Of Decontaminated :	0
Others Number Of Injuries :	0
Others Number Of Fatalities :	0
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	LYNN A. MOHR
Report Date :	13-JAN-89
Comments :	Not reported
Facility Telephone Number :	213 267-2485
Waterway Involved :	Not reported
Waterway :	Not reported
Spill Site :	Not reported
Cleanup By :	Not reported
Containment :	Not reported
What Happened :	Not reported
Type :	Not reported
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	Not reported
Evacuations :	Not reported

AM248 **VALENCIA CHEVRON AUTOSPA** **UST** **U003777480**
West **23440 VALENCIA BLVD** **N/A**
> 1 **VALENCIA, CA 91355**
6951 ft.

Site 2 of 3 in cluster AM

Relative:
Lower

State UST:

Facility ID:	022626
Region:	STATE
Local Agency:	19000

Actual:
1144 ft.

AN249
SW
> 1
6958 ft.

Relative:
Lower

Actual:
1179 ft.

LEONARD'S MOLDED PRODUCTS
25847 SPRINGBROOK AVE
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945396**
N/A

Site 4 of 11 in cluster AN

HMS:

Facility Id:	020338-028942		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AM250
West
> 1
6987 ft.

Relative:
Lower

Actual:
1142 ft.

WILLIAM S HART BASEBALL & SOFTBALL
23437 VALENCIA BLVD
VALENCIA, CA 91355

HAZNET **S106086318**
N/A

Site 3 of 3 in cluster AM

HAZNET:

Gepaid:	CAC002529575
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	San Bernardino
Tons:	0.30
Waste Category:	Other organic solids
Disposal Method:	Transfer Station
Contact:	PAUL SILVERI
Telephone:	(661) 287-5357
Mailing Address:	23437 VALENCIA BLVD VALENCIA, CA 91355
County	Not reported

Gepaid:	CAC002529575
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.83
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	PAUL SILVERI
Telephone:	(661) 287-5357
Mailing Address:	23437 VALENCIA BLVD VALENCIA, CA 91355
County	Not reported

AN251
SSW
> 1
6991 ft.

Relative:
Lower

Actual:
1179 ft.

FOOTHILL ELECTRIC MOTORS
25838 SPRINGBROOK AVE
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945392**
N/A

Site 5 of 11 in cluster AN

HMS:

Facility Id:	020337-028941		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
AO252 **NNW** **> 1** **6993 ft.** **Relative:** **Higher** **Actual:** **1278 ft.**	**MIKE'S ELECTRONIC (UNIT B)** **22577 W CHAPARRO DR** **SANTA CLARITA, CA** **Site 1 of 3 in cluster AO** HMS: Facility Id: 019889-028385 Area: 7A Facility Type: Not reported Permit Number: 174 — Permit Status: Not reported Facility Status: OPEN Region: Los Angeles County:	**LOS ANGELES CO. HMS**	**S105053490** **N/A**
AO253 **NNW** **> 1** **6993 ft.** **Relative:** **Higher** **Actual:** **1278 ft.**	**FIXING TIRES GAONA** **22577 W CHAPARRO DR** **SANTA CLARITA, CA** **Site 2 of 3 in cluster AO** HMS: Facility Id: 019889-028384 Area: 7A Facility Type: Not reported Permit Number: 174 — Permit Status: Not reported Facility Status: OPEN Region: Los Angeles County:	**LOS ANGELES CO. HMS**	**S105053489** **N/A**
AO254 **NNW** **> 1** **6993 ft.** **Relative:** **Higher** **Actual:** **1278 ft.**	**M&M CUSTOM SHEET METAL** **22577 W CHAPARRO DR** **SANTA CLARITA, CA** **Site 3 of 3 in cluster AO** HMS: Facility Id: 019889-028311 Area: 7A Facility Type: Not reported Permit Number: 174 — Permit Status: Not reported Facility Status: OPEN Region: Los Angeles County:	**LOS ANGELES CO. HMS**	**S105053491** **N/A**
AN255 **SSW** **> 1** **7006 ft.** **Relative:** **Lower** **Actual:** **1179 ft.**	**A & K FRAME ALIGNMENT** **25834 SPRINGBROOK AVE** **SANTA CLARITA, CA** **Site 6 of 11 in cluster AN** HMS: Facility Id: 020336-028940 Area: 7A Facility Type: Not reported Permit Number: 174 — Permit Status: Not reported Facility Status: OPEN Region: Los Angeles County:	**LOS ANGELES CO. HMS**	**S103945386** **N/A**

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
AN256 **SSW** **> 1** **7006 ft.**	**A & K BODY & FENDER** **25834 SPRINGBROOK AVE** **SAUGUS, CA 91350**	**RCRIS-SQG** **FINDS** **HAZNET**	**1000121178** **CAD982005233**

Site 7 of 11 in cluster AN

Relative:
Lower

Actual:
1179 ft.

RCRIS:

Owner: RICHIE KOCH
(415) 555-1212
EPA ID: CAD982005233

Contact: ENVIRONMENTAL MANAGER
(415) 555-1212

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid: CAD982005233
TSD EPA ID: CAD009452657
Gen County: Los Angeles
Tsd County: San Mateo
Tons: .0417
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Not reported
Contact: RICHARD J & CANDICE KOCH
Telephone: (000) 000-0000
Mailing Address: 25834 SPRINGBROOK AVE
SANTA CLARITA, CA 91350
County Los Angeles

Gepaid: CAD982005233
TSD EPA ID: CAD006452657
Gen County: Los Angeles
Tsd County: 0
Tons: .1668
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Not reported
Contact: RICHARD J & CANDICE KOCH
Telephone: (000) 000-0000
Mailing Address: 25834 SPRINGBROOK AVE
SANTA CLARITA, CA 91350
County Los Angeles

Gepaid: CAD982005233
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3042
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: RICHARD J & CANDICE KOCH
Telephone: (000) 000-0000
Mailing Address: 25834 SPRINGBROOK AVE
SANTA CLARITA, CA 91350
County Los Angeles

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AP259 East > 1 7042 ft.	**SANTA CLARA YARD** 21014 SOLEDAD CANYON RD CANYON COUNTRY, CA 91350	**HIST UST**	**U001567720** N/A

Site 3 of 4 in cluster AP

Relative: Higher

Actual: 1273 ft.

UST HIST:

Facility ID:	32673	Owner Name:	LOS ANGELES COUNTY FLOOD CONTR
Total Tanks:	2	Region:	STATE
Owner Address:	2250 ALCAZAR STREET LOS ANGELES, CA 93300		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00001000	Year Installed:	1972
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	Not reported	Telephone:	(818) 896-0594
Facility Type:	Other	Other Type:	MAINTENANCE SUB YARD

Facility ID:	32673	Owner Name:	LOS ANGELES COUNTY FLOOD CONTR
Total Tanks:	2	Region:	STATE
Owner Address:	2250 ALCAZAR STREET LOS ANGELES, CA 93300		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	2
Tank Capacity:	00001000	Year Installed:	1972
Type of Fuel:	REGULAR	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	Not reported	Telephone:	(818) 896-0594
Facility Type:	Other	Other Type:	MAINTENANCE SUB YARD

AP260 East > 1 7042 ft.	**LA CO DPW FLOOD SANTA CLARITA** 21014 W SOLEDAD CANYON RD SANTA CLARITA, CA	**LOS ANGELES CO. HMS**	**S102064043** N/A

Site 4 of 4 in cluster AP

Relative: Higher

Actual: 1273 ft.

HMS:

Facility Id:	010790-010750		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Removed
Facility Status:	Removed		
Region:	Los Angeles County:		

AN261 SSW > 1 7046 ft.	**MYERS PUMPING CO.** 25824 SPRINGBROOK AVE SANTA CLARITA, CA	**LOS ANGELES CO. HMS**	**S103945383** N/A

Site 8 of 11 in cluster AN

Relative: Lower

Actual: 1180 ft.

HMS:

Facility Id:	020335-028939		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

A & K BODY & FENDER (Continued) **1000121178**

Gepaid: CAD982005233
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.02
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: CANDICE KOCH
Telephone: --
Mailing Address: 25834 SPRINGBROOK AVE
SANTA CLARITA, CA 91350
County Not reported

Gepaid: CAD982005233
TSD EPA ID: CAD009452657
Gen County: Los Angeles
Tsd County: San Mateo
Tons: .4252
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Contact: RICHARD J & CANDICE KOCH
Telephone: (000) 000-0000
Mailing Address: 25834 SPRINGBROOK AVE
SANTA CLARITA, CA 91350
County Los Angeles

Click this hyperlink while viewing on your computer to access
4 additional CA HAZNET record(s) in the EDR Site Report.

AP257
East
> 1
7014 ft.

PROWLERS SPEED & CUSTOMS INC. **LOS ANGELES CO. HMS** **S103945054**
21021 SOLEDAD CANYON RD **N/A**
SANTA CLARITA, CA

Site 1 of 4 in cluster AP

Relative:
Higher

Actual:
1272 ft.

HMS:
Facility Id: 020321-028915
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

AP258
East
> 1
7018 ft.

CAMEL WORKS **LOS ANGELES CO. HMS** **U003061634**
21020 W SOLEDAD CANYON RD **N/A**
SANTA CLARITA, CA

Site 2 of 4 in cluster AP

Relative:
Higher

Actual:
1273 ft.

HMS:
Facility Id: 005600-I05804
Area: 7A
Facility Type: I00
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

AN262
SSW
> 1
7055 ft.

AUTO BODY SPECIALISTS
25823 SPRINGBROOK AVE
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945382**
N/A

Site 9 of 11 in cluster AN

Relative:
Lower

Actual:
1180 ft.

HMS:

Facility Id:	020334-028938		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AN263
SSW
> 1
7070 ft.

VIKING AUTO UPHOLSTERY
25819 SPRINGBROOK AVE
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945381**
N/A

Site 10 of 11 in cluster AN

Relative:
Lower

Actual:
1180 ft.

HMS:

Facility Id:	020333-028937		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

264
WSW
> 1
7071 ft.

26901 VAN GOGH LN
VALENCIA, CA 25819

CHMIRS **S105660752**
N/A

Relative:
Lower

Actual:
1160 ft.

CHMIRS:

OES Control Number:	99-3021
Chemical Name:	liquid with oily sheen
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	99-3021
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported

(Continued) **S105660752**

Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	Yes
Waterway :	storm drain
Spill Site :	Road Residence
Cleanup By :	Unknown
Containment :	No
What Happened :	liquid with oily smell comming from the ground and going down the drain
Type :	UNSPECIFIED
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	7/17/99 1915
Evacuations :	0

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265 SE > 1 7078 ft. **WILLIAM S. HART UNION SCHOOL DISTRICT** **NFA** **S100848272**
21469 REDVIEW DRIVE **N/A**
SANTA CLARITA, CA 91350

Relative: Higher

Actual: 1367 ft.

NFA:

Facility ID	19470010
Dtsc Region Code :	3
Region Code Definition :	GLENDALE
County Code :	19
Site Name Under :	WILLIAM S. HART UNION SCHOOL DISTRICT
Current Status Date :	11071994
Current Status Code :	NFA
Current Status :	NO FURTHER ACTION FOR DTSC
Lead Agency Code :	Not reported
Lead Agency :	N/A
Site Type Code :	Not reported
Site Type :	N/A
National Priorities List :	Not reported
Tier :	Not reported
Source Of Funding Code :	Not reported
Staff Member :	JABRAHAM
Supervisor :	Not reported
Sic Code :	47
Sic Code Definition :	TRANSPORTATION SERVICES
Site Mitigatn & Brnflds Reuse Prog (SMBR) Code :	SA
SMBR Branch :	SO CAL - GLENDALE
Regional Water Quality Control Board :	LA
RWQCB Definition :	LOS ANGELES
Site Access Controlled :	Not reported
Listed In Haz Wst & Substncs Sites List (CORTESE):	Not reported
Date Hazard Ranked :	Not reported
GW Contamination Suspected :	Not reported

WILLIAM S. HART UNION SCHOOL DISTRICT (Continued) **S100848272**

# Of Sources Contributing To Contamination :	0.00000
Lat/Long :	0.00000° 0.00000′ 0.00000″ / 0.00000° 0.00000′ 0.00000″
Direction Lat :	Not reported
Direction Long :	Not reported
Lat/long Method :	Not reported
Entity Lat/long Coordinates Refer To :	Not reported
State Assembly Distt Code :	Not reported
State Senate Distt Code :	Not reported
Identifying Code:	Not reported
ID Value:	Not reported
Other ID Desc:	Not reported
Alternate Name(s):	WILLIAM S. HART UNION SCHOOL DISTRICT
Address(es) :	21469 REDVIEW DRIVE SANTA CLARITA, CA 91350
Background Info :	Not reported
Facility Id :	19470010
AWP Activities Code :	1.00000
DTSC Site Activity Code :	SS
Activity Code Def:	Not reported
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	05111994
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19470010
AWP Activities Code :	2.00000
DTSC Site Activity Code :	SS
Activity Code Def:	Not reported
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	11071994
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Special Program Code:	Not reported
Special Program :	Not reported
Comments Date :	05111994
Comments :	On May 9, 1994, the Department received a Nonemergency Hazardous Substance Release Report. The report indicates that a release of hydraulic fluid into the soil occurred at the school district's transportation service building. It was occurred at the underground hydraulic hoilst in the service garage. Approximately 30 cubic yards of impacted

WILLIAM S. HART UNION SCHOOL DISTRICT (Continued) **S100848272**

soil was excavated and disposed off-site. Detectable levels of TPH and Toluene are still present in the site's soil.
The Department recommends a PEA due to the evidence of onsite contamination.
The Department conducted a site screening. Staff completed a screening evaluation of the PEA report submitted to the Department. California Health and Safety Code, Section 25317 (Petroleum Exclusion) is applicable to this site.
Based on the H&SC, Section 25317 and the information provided in the PEA report, the site does not pose a threat to public health and/or the environment. Therefore, the Department concurs with the PEA recommendation that "No Further Action" is warranted at the site.

AN266
SSW
> 1
7095 ft.

C. HANSEN DESIGN
25813 SPRINGBROOK AVE
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945380**
N/A

Site 11 of 11 in cluster AN

Relative:
Lower

Actual:
1181 ft.

HMS:

Facility Id:	020332-028936		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AQ267
WSW
> 1
7101 ft.

FRONTIER AUTO SALES
23621 CREEKSIDE RD
VALENCIA, CA 91355

RCRIS-SQG **1000322334**
FINDS **CAD982039794**
HAZNET
LUST
Cortese
LOS ANGELES CO. HMS

Site 1 of 2 in cluster AQ

Relative:
Lower

Actual:
1155 ft.

RCRIS:

Owner:	NOT REQUIRED (415) 555-1212
EPA ID:	CAD982039794
Contact:	Not reported
Classification:	Small Quantity Generator
TSDF Activities:	Not reported

Violation Status: Violations exist

Regulation Violated:	262.10-12.A
Area of Violation:	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	04/13/1992
Actual Date Achieved Compliance:	04/13/1997

There are 1 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance

FRONTIER AUTO SALES (Continued) **1000322334**

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

State LUST:

Cross Street:	VALENCIA BLVD		
Qty Leaked:	0		
Case Number	I-06676		
Reg Board:	4		
Chemical:	Hydrocarbons		
Lead Agency:	Regional Board		
Local Agency :	19000		
Case Type:	Other ground water affected		
Status:	Case Closed		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	7/16/96 0:00		
Release Date:	07/07/1993		
Cleanup Fund Id :	Not reported		
Discover Date :	04/27/1993		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	1/3/95 0:00		
Funding:	Not reported		
Staff Initials:	Not reported		
How Discovered:	Tank Closure		
How Stopped:	Not reported		
Interim :	No		
Leak Cause:	UNK		
Leak Source:	Tank		
MTBE Date :	Not reported		
Max MTBE GW :	Not reported		
MTBE Tested:	Not Required to be Tested.		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	Not reported		
Staff :	UNK		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	SANTA CLARA RIVER VA		
Operator :	SCOTT JACKSON		
Oversight Prgm:	LUST		
Review Date :	7/16/96 0:00		
Stop Date :	/ /		
Work Suspended :	Not reported		
Responsible Party	BREECH, ER JR.		
RP Address:	2120 WILSHIRE BLVD, #400, SANTA MONICA CA 90403		
Global Id:	T0603703248		
Org Name:	Not reported		
Contact Person:	Not reported		
MTBE Conc:	Not reported		
Mtbe Fuel:	Not reported		
Water System Name:	Not reported		

FRONTIER AUTO SALES (Continued) **1000322334**

Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 07/07/1993
Lead Agency: Regional Board
Local Agency: 19000
Substance: Hydrocarbons
Case Type: Groundwater
Status: Case Closed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 7/16/96
Date Leak Record Entered: 1/3/95
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : Not reported
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: BREECH, ER JR.
RP Address: 2120 WILSHIRE BLVD, #400, SANTA MONICA CA 90403
Significant Interim Remedial Action Taken: No
Program : LUST
Lat / Long : 34 / -119
Local Agency Staff: Not reported
Summary : Not reported
Hydrologic Basin # : SANTA CLARA RIVER VA
Beneficial Use : Not reported
Priority : Not reported
Cleanup Fund Id : Not reported
Suspended : Not reported
Local Case No : Not reported
Substance Quantity : 0
Abatement Method Used at the Site: Not reported
Operator : SCOTT JACKSON
Water System : Not reported
Well Name : Not reported
Approx. Dist To Production Well (ft) : 425.9043448
Assigned Name : Not reported
Source of Cleanup Funding: Not reported
Date the Leak was Discovered: 04/27/1993
How the Leak was Discovered: Tank Closure
How the Leak was Stopped: Not reported
Cause of Leak: UNK
Leak Source: Tank
Date The Leak was Stopped: Not reported
Date Confirmation Leak Began: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported

FRONTIER AUTO SALES (Continued) **1000322334**

Post Remedial Action Monitoring Began: Not reported
Date the Case was Closed: 7/16/96
Enforcement Action Date: Not reported
Date Leak First Reported: 07/07/1993
Enforcement Type: Not reported
Global ID : T0603703248
Cross Street: VALENCIA BLVD

HAZNET:
Gepaid: CAD982039794
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 7.5060
Waste Category: Oil/water separation sludge
Disposal Method: Recycler
Contact: FRONTIER AUTO SALES
Telephone: (000) 000-0000
Mailing Address: 23621 CREEKSIDE RD
VALENCIA, CA 91355 - 1704
County Los Angeles

Gepaid: CAD982039794
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.0008
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Contact: FRONTIER AUTO SALES
Telephone: (000) 000-0000
Mailing Address: 23621 CREEKSIDE RD
VALENCIA, CA 91355 - 1704
County Los Angeles

Gepaid: CAD982039794
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 15.2412
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: FRONTIER AUTO SALES
Telephone: (000) 000-0000
Mailing Address: 23621 CREEKSIDE RD
VALENCIA, CA 91355 - 1704
County Los Angeles

Gepaid: CAD982039794
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2085
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: FRONTIER AUTO SALES
Telephone: (000) 000-0000
Mailing Address: 23621 CREEKSIDE RD
VALENCIA, CA 91355 - 1704

FRONTIER AUTO SALES (Continued) **1000322334**

County Los Angeles

Gepaid: CAD982039794
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: FRONTIER AUTO SALES
Telephone: (000) 000-0000
Mailing Address: 23621 CREEKSIDE RD
VALENCIA, CA 91355 - 1704
County Los Angeles

Click this hyperlink while viewing on your computer to access 19 additional CA HAZNET record(s) in the EDR Site Report.

CORTESE:
Region: CORTESE
Fac Address 2: 23621 CREEKSIDE BLVD

HMS:
Facility Id: 006456-I06676
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 006456-006676
Area: 7A
Facility Type: T1
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

268
NW
> 1
7119 ft.

ADVANCED PREPRESS SERVICES **HAZNET** **S103948821**
27127 COLEBROOK PL **N/A**
VALENCIA, CA 91354

Relative:
Higher

Actual:
1303 ft.

HAZNET:
Gepaid: CAL000195086
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .0250
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: ADVANCED PREPRESS SERVICES
Telephone: (000) 000-0000
Mailing Address: 27127 COLEBROOK PL
VALENCIA, CA 91354
County Los Angeles

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AR269 **WSW** **> 1** **7152 ft.** **Relative: Lower** **Actual: 1157 ft.**	**SEE I-10092** **23747 W MAGIC MOUNTAIN PKWY** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S102064218** **N/A**

Site 1 of 6 in cluster AR

HMS:

Facility Id:	008955-000146		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Removed
Facility Status:	Removed		
Region:	Los Angeles County:		

AS270 **SSW** **> 1** **7154 ft.** **Relative: Lower** **Actual: 1181 ft.**	**RICHIE'S HYDRAULICS** **25799 SPRINGBROOK AVE** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103945379** **N/A**

Site 1 of 5 in cluster AS

HMS:

Facility Id:	020331-028935		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AR271 **WSW** **> 1** **7168 ft.** **Relative: Lower** **Actual: 1157 ft.**	**LACO SHERIFF'S DEPT/STA CLARITA VALL STA** **23740 W MAGIC MOUNTAIN PKWY** **VALENCIA, CA 91355**	**HAZNET**	**S103974087** **N/A**

Site 2 of 6 in cluster AR

HAZNET:

Gepaid:	CAL000079827
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.8340
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	LA CNTY SHERIFFS DEPT
Telephone:	(213) 526-5541
Mailing Address:	4700 RAMONA BLVD MONTEREY PARK, CA 91754 - 2169
County	Los Angeles

Gepaid:	CAL000079827
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.4586
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	LA CNTY SHERIFFS DEPT
Telephone:	(213) 526-5541
Mailing Address:	4700 RAMONA BLVD MONTEREY PARK, CA 91754 - 2169
County	Los Angeles

LACO SHERIFF'S DEPT/STA CLARITA VALL STA (Continued) **S103974087**

Gepaid: CAL000079827
TSD EPA ID: CAD088504881
Gen County: Los Angeles
Tsd County: Orange
Tons: .1250
Waste Category: Other inorganic solid waste
Disposal Method: Transfer Station
Contact: LA CNTY SHERIFFS DEPT
Telephone: (213) 526-5541
Mailing Address: 4700 RAMONA BLVD
MONTEREY PARK, CA 91754 - 2169
County Los Angeles

Gepaid: CAL000079827
TSD EPA ID: CAD088504881
Gen County: Los Angeles
Tsd County: Orange
Tons: .1250
Waste Category: Other inorganic solid waste
Disposal Method: Not reported
Contact: LA CNTY SHERIFFS DEPT
Telephone: (213) 526-5541
Mailing Address: 4700 RAMONA BLVD
MONTEREY PARK, CA 91754 - 2169
County Los Angeles

Gepaid: CAL000079827
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: LA CNTY SHERIFFS DEPT
Telephone: (213) 526-5541
Mailing Address: 4700 RAMONA BLVD
MONTEREY PARK, CA 91754 - 2169
County Los Angeles

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15 additional CA HAZNET record(s) in the EDR Site Report.

AR272 **LA CO SHERIFF SANTA CLARITA** **LOS ANGELES CO. HMS** **S102064217**
WSW **23740 MAGIC MOUNTAIN PKWY** **N/A**
> 1 **SANTA CLARITA, CA**
7168 ft.

Site 3 of 6 in cluster AR

Relative:
Lower

Actual:
1157 ft.

HMS:
Facility Id: 010214-010092
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 010214-030684
Area: 7A
Facility Type: Not reported

LA CO SHERIFF SANTA CLARITA (Continued) **S102064217**

Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

AR273
WSW
> 1
7168 ft.

LA CO SHERIFF STATION
23740 MAGIC MOUNTAIN
VALENCIA, CA 91322

Cortese **S103065628**
N/A

Site 4 of 6 in cluster AR

Relative:
Lower

Actual:
1157 ft.

CORTESE:
Region: CORTESE
Fac Address 2: Not reported

AR274
WSW
> 1
7168 ft.

LOS ANGELES SHERRIFF'S STATION
23740 MAGIC MOUNTAIN PKY
VALENCIA, CA 91355

CA FID UST **S101584749**
N/A

Site 5 of 6 in cluster AR

Relative:
Lower

Actual:
1157 ft.

FID:
Facility ID: 19015194 Regulate ID: CAC000587
Reg By: Active Underground Storage Tank Location
Cortese Code: Not reported SIC Code: Not reported
Status: Active Facility Tel: (805) 255-1121
Mail To: Not reported
211 W TEMPLE ST
VALENCIA, CA 91355
Contact: Not reported Contact Tel: Not reported
DUNs No: Not reported NPDES No: Not reported
Creation: 10/22/93 Modified: 00/00/00
EPA ID: Not reported
Comments: Not reported

AR275
WSW
> 1
7168 ft.

LA CO SHERIFF STATION
23740 MAGIC MOUNTAIN PKWY
SANTA CLARITA, CA 91355

LUST **S100927086**
N/A

Site 6 of 6 in cluster AR

Relative:
Lower

Actual:
1157 ft.

State LUST:
Cross Street: VALENCIA BLVD
Qty Leaked: 0
Case Number R-10092
Reg Board: 4
Chemical: Gasoline
Lead Agency: Regional Board
Local Agency : 19000
Case Type: Other ground water affected
Status: Remediation Plan
Abate Method: Remove Free Product - remove floating product from water table, Vent Soil - bore holes in soil to allow volatilization of contaminants
Review Date: 3/16/92 0:00 Confirm Leak: 3/16/92 0:00
Workplan: 3/16/92 0:00 Prelim Assess: 3/16/92 0:00
Pollution Char: 9/19/03 0:00 Remed Plan: 9/19/03 0:00
Remed Action: 8/18/03 0:00
Monitoring: Not reported
Close Date: Not reported

LA CO SHERIFF STATION (Continued) **S100927086**

Release Date: 03/16/1992
Cleanup Fund Id : Not reported
Discover Date : 03/03/1992
Enforcement Dt : Not reported
Enf Type: SEL
Enter Date : 2/28/97 0:00
Funding: Not reported
Staff Initials: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Interim : Yes
Leak Cause: Structure Failure
Leak Source: Tank
MTBE Date : 3/22/00 0:00
Max MTBE GW : 49000 Parts per Billion
MTBE Tested: MTBE Detected. Site tested for MTBE & MTBE detected
Priority: Not reported
Local Case # : 0
Beneficial: Not reported
Staff : JH
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SANTA CLARA RIVER VA
Operator : Not reported
Oversight Prgm: LUST
Review Date : 4/26/02 0:00
Stop Date : 03/03/1992
Work Suspended :Not reported
Responsible PartyBRUCE KRAGEN
RP Address: 1060 N EASTERN AVE.
Global Id: T0603704904
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 03/16/1992
Lead Agency: Regional Board
Local Agency: 19000
Substance: Gasoline
Case Type: Groundwater
Status: Remediation Plan
Region: 4
Staff: JH
Date Case Last Changed on Database: 4/26/02
Date Leak Record Entered: 2/28/97
Historical Max MTBE Date: 3/22/00
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: 49000
Hist Max MTBE Conc in Soil : Not reported

LA CO SHERIFF STATION (Continued) **S100927086**

County:	Los Angeles
Organization :	Not reported
Regional Board:	4
Owner Contact: Not reported	
Responsible Party:	BRUCE KRAGEN
RP Address:	1060 N EASTERN AVE.
Significant Interim Remedial Action Taken:	Yes
Program :	LUST
Lat / Long :	34 / -119
Local Agency Staff:	Not reported
Summary :	GROUNDWATER SAMPLE RESULTS: BTEX 6,300/11,000/780/4,500 PPB; ; 8/30/00 2ND PROGRESS RPT & VE REMEDIATION; 12/11/00 3RD QTR PROGRESS RPT & VE REMED.; 2/20/01 4TH QTR GW MON RPT 2000
Hydrologic Basin # :	SANTA CLARA RIVER VA
Beneficial Use :	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	0
Abatement Method Used at the Site:	VSFP
Operator :	Not reported
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	406.8602794
Assigned Name :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	03/03/1992
How the Leak was Discovered:	Tank Closure
How the Leak was Stopped:	Not reported
Cause of Leak:	Structure Failure
Leak Source:	Tank
Date The Leak was Stopped:	3/3/92
Date Confirmation Leak Began:	3/16/92
Preliminary Site Assessment Workplan Submitted:	3/16/92
Preliminary Site Assessment Began:	3/16/92
Pollution Characterization Began:	1/10/02
Remediation Plan Submitted:	9/19/03
Remedial Action Underway:	8/18/03
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	Not reported
Enforcement Action Date:	Not reported
Date Leak First Reported:	03/16/1992
Enforcement Type:	SEL
Global ID :	T0603704904
Cross Street: VALENCIA BLVD	

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AT276 **WSW** **> 1** **7202 ft.** **Relative: Lower** **Actual: 1136 ft.**	**BUNNY LUV CARROTS** **23500 W VALENCIA BLVD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**U003058288** **N/A**

Site 1 of 9 in cluster AT

HMS:

Facility Id:	001900-I01975		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AT277 **WSW** **> 1** **7202 ft.** **Relative: Lower** **Actual: 1136 ft.**	**EXPRESS SERVICE CTR** **23500 VALENCIA BLVD** **VALENCIA, CA 91355**	**HAZNET**	**S105090401** **N/A**

Site 2 of 9 in cluster AT

HAZNET:

Gepaid:	CAL000143742
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.14
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	GEORGE MILLER
Telephone:	--
Mailing Address:	23500 VALENCIA BLVD VALENCIA, CA 91355
County	Not reported

Gepaid:	CAL000143742
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.6888
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	RANDY CRESSALL/DAVE WILKE
Telephone:	(000) 000-0000
Mailing Address:	23500 VALENCIA BLVD VALENCIA, CA 91355
County	Los Angeles

AT278 **WSW** **> 1** **7202 ft.** **Relative: Lower** **Actual: 1136 ft.**	**OILSTOP INC** **23500 VALENCIA BLVD** **SANTA CLARITA, CA 91355**	**HAZNET**	**S105724064** **N/A**

Site 3 of 9 in cluster AT

OILSTOP INC (Continued) **S105724064**

HAZNET:

Gepaid:	CAL000202988
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	99
Tons:	0.12
Waste Category:	Other organic solids
Disposal Method:	Recycler
Contact:	RUSS LOYD
Telephone:	(707) 585-3436
Mailing Address:	6111 REDWOOD DR ROHNERT PARK, CA 94928
County	Not reported

Gepaid:	CAL000202988
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.12
Waste Category:	Other organic solids
Disposal Method:	Transfer Station
Contact:	RUSS LOYD
Telephone:	(707) 585-3436
Mailing Address:	6111 REDWOOD DR ROHNERT PARK, CA 94928
County	Not reported

Gepaid:	CAL000202988
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	6.53
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Contact:	RUSS LOYD
Telephone:	(707) 585-3436
Mailing Address:	6111 REDWOOD DR ROHNERT PARK, CA 94928
County	Not reported

Gepaid:	CAL000202988
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	6.08
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Contact:	RUSS LOYD
Telephone:	(707) 585-3436
Mailing Address:	6111 REDWOOD DR ROHNERT PARK, CA 94928
County	Not reported

OILSTOP INC (Continued) **S105724064**

Gepaid: CAL000202988
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.8
Waste Category: Other organic solids
Disposal Method: Transfer Station
Contact: RUSS LOYD
Telephone: (707) 585-3436
Mailing Address: 6111 REDWOOD DR
ROHNERT PARK, CA 94928
County Not reported

AQ279 **SATURN OF SANTA CLARITA** **RCRIS-SQG** **1001217396**
WSW **23645 CREEKSIDE RD** **FINDS** **CAR000033555**
> 1 **SANTA CLARITA, CA 91355** **HAZNET**
7204 ft.

Site 2 of 2 in cluster AQ

Relative:
Lower

Actual:
1152 ft.

RCRIS:
Owner: H F BOECKMANN
(818) 787-3800
EPA ID: CAR000033555

Contact: CHARLES MCCORD
(818) 787-3800

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAL000188104
TSD EPA ID: CAD981696420
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3336
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 23645 CREEKSIDE RD
SANTA CLARITA, CA 91355
County Los Angeles

Gepaid: CAR000033555
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1167
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: H F BOECKMANN II
Telephone: (818) 787-3800
Mailing Address: 23645 CREEKSIDE RD

SATURN OF SANTA CLARITA (Continued) **1001217396**

VALENCIA, CA 91355 - 1704
County Los Angeles

Gepaid: CAR000033555
TSD EPA ID: CAD982413262
Gen County: Los Angeles
Tsd County: 1
Tons: .5838
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Not reported
Contact: H F BOECKMANN II
Telephone: (818) 787-3800
Mailing Address: 23645 CREEKSIDE RD
VALENCIA, CA 91355 - 1704
County Los Angeles

Gepaid: CAR000033555
TSD EPA ID: CAD981696420
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 5.2333
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: H F BOECKMANN II
Telephone: (818) 787-3800
Mailing Address: 23645 CREEKSIDE RD
VALENCIA, CA 91355 - 1704
County Los Angeles

Gepaid: CAR000033555
TSD EPA ID: CAD093459485
Gen County: Los Angeles
Tsd County: Fresno
Tons: .0417
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Transfer Station
Contact: H F BOECKMANN II
Telephone: (818) 787-3800
Mailing Address: 23645 CREEKSIDE RD
VALENCIA, CA 91355 - 1704
County Los Angeles

Click this hyperlink while viewing on your computer to access
5 additional CA HAZNET record(s) in the EDR Site Report.

AT280 **VALENCIA COMPANY** **LOS ANGELES CO. HMS** **S105053498**
WSW **23510 VALENCIA BLVD** **N/A**
> 1 **SANTA CLARITA, CA**
7246 ft.

Site 4 of 9 in cluster AT

Relative:
Lower

Actual:
1137 ft.

HMS:
Facility Id: 016898-022627
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
AT281 **WSW** **> 1** **7246 ft.**	**BIG O TIRES** **23510 VALENCIA BLVD** **VALENCIA, CA 91355**	**RCRIS-SQG** **FINDS** **HAZNET**	**1004675723** **CAR000076380**

Site 5 of 9 in cluster AT

Relative:
Lower

Actual:
1137 ft.

RCRIS:

Owner: RANDY CRESSAL
(818) 288-1234
EPA ID: CAR000076380

Contact: ART GAYTON
(661) 288-1234

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid: CAR000076380
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.54
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: ALLEN LEATHERS MANAGER
Telephone: (661) 288-1234
Mailing Address: 23510 VALENCIA BLVD
VALENCIA, CA 91355
County Not reported

Gepaid: CAR000076380
TSD EPA ID: CAT000613893
Gen County: 0
Tsd County: Los Angeles
Tons: .4334
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 23510 VALENCIA BLVD
VALENCIA, CA 91355
County 0

AT282 **WSW** **> 1** **7246 ft.**	**STEVE'S EXPRESS AUTOMOTIVE** **23510 VALENCIA BLVD** **VALENCIA, CA 91355**	**HAZNET**	**S103644615** **N/A**

Site 6 of 9 in cluster AT

Relative:
Lower

Actual:
1137 ft.

STEVE'S EXPRESS AUTOMOTIVE (Continued) **S103644615**

HAZNET:

Gepaid:	CAL000152520
TSD EPA ID:	CAL000113451
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2502
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Transfer Station
Contact:	STEPHEN MURRAY
Telephone:	(805) 259-5600
Mailing Address:	23510 VALENCIA BLVD VALENCIA, CA 91355 - 1761
County	Los Angeles

AT283
WSW
> 1
7246 ft.

Relative:
Lower

Actual:
1137 ft.

FRYE FAMILY PARTNERSHIP **LOS ANGELES CO. HMS** **S102064193**
23510 VALENCIA BLVD **N/A**
SANTA CLARITA, CA

Site 7 of 9 in cluster AT

HMS:

Facility Id:	016898-024939		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

AT284
WSW
> 1
7246 ft.

Relative:
Lower

Actual:
1137 ft.

CHOOSE THE RIGHT III LLC DBA BIG O TIRES **HAZNET** **S105092539**
23510 VALENCIA BLVD UNIT A **N/A**
VALENCIA, CA 91355

Site 8 of 9 in cluster AT

HAZNET:

Gepaid:	CAL000211949
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0834
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	CHOOSE THE RIGHT III LLC
Telephone:	(661) 288-1234
Mailing Address:	23510 VALENCIA BLVD UNIT A VALENCIA, CA 91355
County	Los Angeles

AS285 SSW > 1 7260 ft. | **BLUE BARREL DISPOSAL CO**
25772 SPRINGBROOK AVE
SAUGUS, CA 91350

HAZNET **U001567689**
CA WDS **N/A**
HIST UST

Site 2 of 5 in cluster AS

Relative: Lower

Actual: 1183 ft.

HAZNET:

Gepaid:	CAD049339146
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.4386
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	WESTERN WASTE INDUSTRIES
Telephone:	(310) 222-8700
Mailing Address:	PO BOX 221540 NEWHALL, CA 91322
County	Los Angeles

WDS:

Facility ID:	4 19I000557		
Facility Contact	Karl Mccarthy	Facility Telephone	(661) 259-2408
SIC Code:	4212	SIC Code 2:	Not reported
Agency Name:	WESTERN WASTE MANAGEMENT		
Agency Address:	0		
Agency Contact:	Not reported	Agency Phone:	0
Design Flow:	Not reported	Baseline Flow:	Not reported

Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)

Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

Agency Type: Private

Waste Type: Stormwater Runoff - Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.

Threat to Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

Reclamation: No reclamation requirements associated with this facility.

POTW: The POTW Does not have an approved pretreatment program. Some POTWs may have local pretreatment programs that have not been approved by the regional board and/or EPA.

NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

Subregion: 4

UST HIST:

Facility ID:	397	Owner Name:	BLUE BARREL DISPOSAL CO.
Total Tanks:	3	Region:	STATE
Owner Address:	25772 SPRINGBROOK RD. SAUGUS, CA 91350		
Tank Used for:	PRODUCT		

BLUE BARREL DISPOSAL CO (Continued) **U001567689**

Tank Num:	1	Container Num:	#1-LEFT DI
Tank Capacity:	00005000	Year Installed:	1964
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	NAZARETH A. CHOBANIAN	Telephone:	(818) 367-5828
Facility Type:	Other	Other Type:	REFUSE REMOVAL
Facility ID:	397	Owner Name:	BLUE BARREL DISPOSAL CO.
Total Tanks:	3	Region:	STATE
Owner Address:	25772 SPRINGBROOK RD. SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	#2-RIGHT D
Tank Capacity:	00005000	Year Installed:	Not reported
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	NAZARETH A. CHOBANIAN	Telephone:	(818) 367-5828
Facility Type:	Other	Other Type:	REFUSE REMOVAL
Facility ID:	397	Owner Name:	BLUE BARREL DISPOSAL CO.
Total Tanks:	3	Region:	STATE
Owner Address:	25772 SPRINGBROOK RD. SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	3	Container Num:	#3-UNLEADE
Tank Capacity:	00005000	Year Installed:	Not reported
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	NAZARETH A. CHOBANIAN	Telephone:	(818) 367-5828
Facility Type:	Other	Other Type:	REFUSE REMOVAL

AS286
SSW
> 1
7260 ft.

BLUE BARREL DISPOSAL CO
25772 SPRINGBROOK AVE
SANTA CLARITA, CA 91350

UST **U003776133**
N/A

Site 3 of 5 in cluster AS

Relative:
Lower

Actual:
1183 ft.

State UST:

Facility ID:	006180
Region:	STATE
Local Agency:	19000

AS287
SSW
> 1
7260 ft.

WESTERN WASTE INDUSTRIAL
25772 SPRINGBROOK RD
SAUGUS, CA 91350

RCRIS-SQG **1000195441**
FINDS **CAD049339146**

Site 4 of 5 in cluster AS

Relative:
Lower

Actual:
1183 ft.

WESTERN WASTE INDUSTRIAL (Continued) **1000195441**

RCRIS:
Owner: WESTERN WASTE INDUSTRIES
(310) 328-0900
EPA ID: CAD049339146

Contact: JOHN MAYS
(310) 328-0900

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

AS288 **EXXON USA #7-4944** **HAZNET** **U002280441**
SSW **18308 E COLIMA RD** **LOS ANGELES CO. HMS** **N/A**
> 1 **SAUGUS, CA 91350**
7261 ft.

Site 5 of 5 in cluster AS

Relative:
Lower

Actual:
1183 ft.

HAZNET:
Gepaid: CAL000110403
TSD EPA ID: CAD982444481
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: .2107
Waste Category: Other organic solids
Disposal Method: Recycler
Contact: WESTERN WASTE INDUSTRIES
Telephone: (310) 328-0900
Mailing Address: P.O. BOX 2880
TORRANCE, CA 90509
County Los Angeles

Gepaid: CAL000110403
TSD EPA ID: CAD982444481
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: .4214
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: WESTERN WASTE INDUSTRIES
Telephone: (310) 328-0900
Mailing Address: P.O. BOX 2880
TORRANCE, CA 90509
County Los Angeles

Gepaid: CAL000110403
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0834
Waste Category: Tank bottom waste
Disposal Method: Recycler
Contact: WESTERN WASTE INDUSTRIES
Telephone: (310) 328-0900
Mailing Address: P.O. BOX 2880

EXXON USA #7-4944 (Continued) **U002280441**

TORRANCE, CA 90509
County Los Angeles

Gepaid: CAL000110403
TSD EPA ID: CAT000646117
Gen County: Los Angeles
Tsd County: Kings
Tons: 1.6856
Waste Category: Other organic solids
Disposal Method: Disposal, Land Fill
Contact: WESTERN WASTE INDUSTRIES
Telephone: (310) 328-0900
Mailing Address: P.O. BOX 2880
TORRANCE, CA 90509
County Los Angeles

Gepaid: CAL000110403
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 4.1700
Waste Category: Unspecified oil-containing waste
Disposal Method: Not reported
Contact: WESTERN WASTE INDUSTRIES
Telephone: (310) 328-0900
Mailing Address: P.O. BOX 2880
TORRANCE, CA 90509
County Los Angeles

Click this hyperlink while viewing on your computer to access
9 additional CA HAZNET record(s) in the EDR Site Report.

HMS:
Facility Id: 005966-I06180
Area: 7A
Facility Type: I02
Permit Number: 174 Permit Status: Closed
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 005966-006180
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 005861-006075
Area: 6
Facility Type: I01
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AT289 **WSW** **> 1** **7283 ft.**	**VALENCIA AUTO SERVICE** **23520 VALENCIA BLVD,#J** **VALENCIA, CA 91355**	**HAZNET**	**S103993945** **N/A**

Site 9 of 9 in cluster AT

Relative: Lower

Actual: 1138 ft.

HAZNET:

Gepaid:	CAL000157817
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.1459
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	VALENCIA AUTO SERVICE
Telephone:	(000) 000-0000
Mailing Address:	23520 VALENCIA BLVD STE J VALENCIA, CA 91355
County	Los Angeles

Gepaid:	CAL000157817
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.3042
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	VALENCIA AUTO SERVICE
Telephone:	(000) 000-0000
Mailing Address:	23520 VALENCIA BLVD STE J VALENCIA, CA 91355
County	Los Angeles

AU290 **East** **> 1** **7338 ft.**	**NATIONAL TECHNICAL SYSTEM** **20988 GOLDEN TRIANGLE RD** **SANTA CLARITA, CA 91350**	**HAZNET** **LOS ANGELES CO. HMS**	**S100940614** **N/A**

Site 1 of 2 in cluster AU

Relative: Higher

Actual: 1275 ft.

HAZNET:

Gepaid:	CAL000034177
TSD EPA ID:	CAD097030993
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2293
Waste Category:	Liquids with pH <UN-> 2 with metals
Disposal Method:	Recycler
Contact:	JACK LIN
Telephone:	(818) 591-0776
Mailing Address:	20988 W GOLDEN TRIANGLE RD STE W SANTA CLARITA, CA 91350 - 2678
County	Los Angeles

NATIONAL TECHNICAL SYSTEM (Continued) **S100940614**

Gepaid: CAL000034177
TSD EPA ID: CAD097030993
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
Disposal Method: Recycler
Contact: JACK LIN
Telephone: (818) 591-0776
Mailing Address: 20988 W GOLDEN TRIANGLE RD STE W
SANTA CLARITA, CA 91350 - 2678
County Los Angeles

Gepaid: CAL000034177
TSD EPA ID: CAD982444481
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 6.7424
Waste Category: Unspecified oil-containing waste
Disposal Method: Transfer Station
Contact: JACK LIN
Telephone: (818) 591-0776
Mailing Address: 20988 W GOLDEN TRIANGLE RD STE W
SANTA CLARITA, CA 91350 - 2678
County Los Angeles

Gepaid: CAL000034177
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 12.9478
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: JACK LIN
Telephone: (818) 591-0776
Mailing Address: 20988 W GOLDEN TRIANGLE RD STE W
SANTA CLARITA, CA 91350 - 2678
County Los Angeles

Gepaid: CAL000034177
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 10.4250
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: JACK LIN
Telephone: (818) 591-0776
Mailing Address: 20988 W GOLDEN TRIANGLE RD STE W
SANTA CLARITA, CA 91350 - 2678
County Los Angeles

Click this hyperlink while viewing on your computer to access 40 additional CA HAZNET record(s) in the EDR Site Report.

HMS:
Facility Id: 003909-I04053

NATIONAL TECHNICAL SYSTEM (Continued) **S100940614**

Area: 7A
Facility Type: I09
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

AU291
East
> 1
7338 ft.

Relative:
Higher

Actual:
1275 ft.

20988 GOLDEN TRIANGLE
CANYON COUNTRY, CA 91350

CHMIRS **S100222833**
N/A

Site 2 of 2 in cluster AU

CHMIRS:

OES Control Number:	9991739
Chemical Name:	Not reported
Extent of Release:	Not reported
Property Use:	Industrial, Utility
Incident Date:	19-APR-88
Date Completed:	19-APR-88
Time Completed :	1140
Agency Id Number :	19110
Agency Incident Number :	76-22
OES Incident Number :	9991739
Time Notified :	933
Surrounding Area :	600
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	N
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	Not reported
Responding Agency Personel # Of Fatalities :	Not reported
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	L MOHR
Report Date :	19-APR-88
Comments :	No
Facility Telephone Number :	213 267-2485
Waterway Involved :	Not reported
Waterway :	Not reported
Spill Site :	Not reported
Cleanup By :	Not reported
Containment :	Not reported
What Happened :	Not reported
Type :	Not reported
Other :	Not reported
Chemical 1 :	Not Reported

(Continued) **S100222833**

Chemical 2 : Not Reported
Chemical 3 : Not Reported
Date/Time : Not reported
Evacuations : Not reported

AV292
East
> 1
7407 ft.

Relative:
Higher

Actual:
1270 ft.

RENT A BIN
20830 SANTA CLARA ST
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945040**
N/A

Site 1 of 4 in cluster AV

HMS:
Facility Id: 020254-028835
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

AV293
East
> 1
7408 ft.

Relative:
Higher

Actual:
1270 ft.

20833 SANTA CLARA ST
SANTA CLARITA, CA 25815

CHMIRS **S103945041**
LOS ANGELES CO. HMS **N/A**
CA WDS

Site 2 of 4 in cluster AV

CHMIRS:
OES Control Number: 00-3573
Chemical Name: Diesel fuel
Extent of Release: Not reported
Property Use: Not reported
Incident Date: Not reported
Date Completed: Not reported
Time Completed : Not reported
Agency Id Number : Not reported
Agency Incident Number : Not reported
OES Incident Number : 00-3573
Time Notified : Not reported
Surrounding Area : Not reported
Estimated Temperature : Not reported
Property Management : Not reported
More Than Two Substances Involved? : Not reported
Special Studies 1 : Not reported
Special Studies 2 : Not reported
Special Studies 3 : Not reported
Special Studies 4 : Not reported
Special Studies 5 : Not reported
Special Studies 6 : Not reported
Responding Agency Personel # Of Injuries : 1
Responding Agency Personel # Of Fatalities : 0
Resp Agncy Personel # Of Decontaminated : Not reported
Others Number Of Decontaminated : Not reported
Others Number Of Injuries : Not reported
Others Number Of Fatalities : Not reported
Vehicle Make/year : Not reported
Vehicle License Number : Not reported
Vehicle State : Not reported
Vehicle Id Number : Not reported
CA/DOT/PUC/ICC Number : Not reported

(Continued) **S103945041**

Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	Yes
Waterway :	storm drain / Santa Clarita River
Spill Site :	Industrial Plant
Cleanup By :	Fire Dept.
Containment :	Yes
What Happened :	Commercial structure fire. Fire run off which may have been contaminated with diesel, entered the storm drain which leads to the Santa Clarita River.
Type :	PETROLEUM
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	8/9/00 1446
Evacuations :	0

WDS:

Facility ID:	4 19I017444		
Facility Contact	Anthony Royalty	Facility Telephone	(562) 948-3888
SIC Code:	Not reported	SIC Code 2:	Not reported
Agency Name:	QUALITY PAPER FIBERS INC		
Agency Address:	0		
Agency Contact:	Not reported	Agency Phone:	0
Design Flow:	Not reported	Baseline Flow:	Not reported

Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)

Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

Agency Type: Private

Waste Type: Stormwater Runoff - Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.

Threat to Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

Reclamation: No reclamation requirements associated with this facility.

POTW: The POTW Does not have an approved pretreatment program. Some POTWs may have local pretreatment programs that have not been approved by the regional board and/or EPA.

NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

Subregion: 4

HMS:

Facility Id: 020255-028837

Area: 7A

(Continued) **S103945041**

Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

---

294 WSW > 1 7445 ft. **BA A FRESH MEXICAN GRILL** **LOS ANGELES CO. HMS** **S102064206**
23630 W VALENCIA BLVD F **N/A**
SANTA CLARITA, CA

Relative: Lower
Actual: 1148 ft.

HMS:
Facility Id: 016903-022636
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

AW295 East > 1 7466 ft. **VP MFG. INC.** **LOS ANGELES CO. HMS** **S103945036**
20732 SOLEDAD ST A **N/A**
SANTA CLARITA, CA

Site 1 of 13 in cluster AW

Relative: Higher
Actual: 1273 ft.

HMS:
Facility Id: 020305-028893
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

AW296 East > 1 7485 ft. **SENSORTECH SYSTEMS INC** **HAZNET** **S103987389**
26810-I OAK AVE **N/A**
SANTA CLARITA, CA 91351

Site 2 of 13 in cluster AW

Relative: Higher
Actual: 1273 ft.

HAZNET:
Gepaid: CAC001361840
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1876
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Contact: SENSORTECH SYSTEMS INC
Telephone: (805) 252-1103
Mailing Address: 26810-I OAK AVE
SANTA CLARITA, CA 91351
County Los Angeles

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AW297 East > 1 7485 ft. Relative: Higher Actual: 1273 ft.	**NATIONAL METAL STAMPINGS INC** **26796 OAK AVENUE** **CANYON COUNTRY, CA 91351**	**RCRIS-SQG** **FINDS**	**1000260515** **CAD981652225**

Site 3 of 13 in cluster AW

RCRIS:

Owner: BILL & JEAN BLOOMER
(415) 555-1212
EPA ID: CAD981652225

Contact: ENVIRONMENTAL MANAGER
(805) 251-5141

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

AW298 East > 1 7485 ft. Relative: Higher Actual: 1273 ft.	**VIP AUTO REPAIR** **26794 OAK AVE** **SANTA CLARITA, CA 91351**	**HAZNET**	**S104581660** **N/A**

Site 4 of 13 in cluster AW

HAZNET:

Gepaid: CAL000189794
TSD EPA ID: CAD981696420
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.4586
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: FRED GARZA
Telephone: (000) 000-0000
Mailing Address: 26794 OAK AVE
SANTA CLARITA, CA 91351
County Los Angeles

Gepaid: CAL000189794
TSD EPA ID: CAD981696420
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: FRED GARZA
Telephone: (000) 000-0000
Mailing Address: 26794 OAK AVE
SANTA CLARITA, CA 91351
County Los Angeles

AW299
East
> 1
7485 ft.

HONEST OHN'S EVO'S ETC
26792 OAK AVE
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S102064465**
N/A

Site 5 of 13 in cluster AW

Relative:
Higher

Actual:
1274 ft.

HMS:

Facility Id:	016641-022157		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AW300
East
> 1
7485 ft.

HOBBY SHOP
26790 OAK AVE
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945462**
N/A

Site 6 of 13 in cluster AW

Relative:
Higher

Actual:
1274 ft.

HMS:

Facility Id:	020070-028611		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AW301
East
> 1
7485 ft.

G W FRANZ GRINDING
26818 OAK AVE UNIT I
CANYON COUNTRY, CA 91351

HAZNET **S105722635**
N/A

Site 7 of 13 in cluster AW

Relative:
Higher

Actual:
1273 ft.

HAZNET:

Gepaid:	CAL000058773
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Alameda
Tons:	0.56
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	--
Telephone:	--
Mailing Address:	26818 OAK AVE STE I CANYON COUNTRY, CA 91351
County	Not reported

AW302
East
> 1
7485 ft.

AV BREAK SUPPLY
26818 OAK AVE E
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945465**
N/A

Site 8 of 13 in cluster AW

Relative:
Higher

Actual:
1273 ft.

HMS:

Facility Id:	020073-028614		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		

AV BREAK SUPPLY (Continued) **S103945465**

Region: Los Angeles County:

AX303
East
> 1
7486 ft.

Relative:
Higher

Actual:
1274 ft.

WINNERS CIRCLE AUTO PATRS **LOS ANGELES CO. HMS** **S103945461**
26786 OAK AVE **N/A**
SANTA CLARITA, CA

Site 1 of 14 in cluster AX

HMS:
Facility Id: 020069-028610
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

AX304
East
> 1
7487 ft.

Relative:
Higher

Actual:
1274 ft.

VON CO TOOL **RCRIS-SQG** **1000685940**
26778 OAK AVE **FINDS** **CAD983629056**
CANYON COUNTRY, CA 91351 **HAZNET**

Site 2 of 14 in cluster AX

RCRIS:
Owner: JON PATTERSON
(805) 251-5300
EPA ID: CAD983629056

Contact: JON PATTERSON
(805) 251-5300

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAD983629056
TSD EPA ID: CAT000613976
Gen County: Los Angeles
Tsd County: Orange
Tons: .0458
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)
Disposal Method: Transfer Station
Contact: JON PATTERSON
Telephone: (805) 251-5300
Mailing Address: 26778 OAK AVE
CANYON COUNTRY, CA 91351 - 2409
County Los Angeles

VON CO TOOL (Continued) **1000685940**

Gepaid: CAD983629056
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Orange
Tons: 0.08
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)
Disposal Method: Transfer Station
Contact: --
Telephone: --
Mailing Address: 26778 OAK AVE
CANYON COUNTRY, CA 91351 - 2409
County Not reported

Gepaid: CAD983629056
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.2293
Waste Category: Oil/water separation sludge
Disposal Method: Transfer Station
Contact: JON PATTERSON
Telephone: (805) 251-5300
Mailing Address: 26778 OAK AVE
CANYON COUNTRY, CA 91351 - 2409
County Los Angeles

AX305 **CANYON COUNTRY INDUSTRIAL PARK** **HAZNET** **S104571518**
East **26776 OAK AVE** **N/A**
> 1 **CANYON COUNTRY, CA 91351**
7488 ft.

Site 3 of 14 in cluster AX

Relative: Higher

Actual: 1274 ft.

HAZNET:
Gepaid: CAC002180625
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.5637
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: JOE WANG
Telephone: (000) 000-0000
Mailing Address: PO BOX 7016
THOUSAND OAKS, CA 91359
County Los Angeles

AX306 **PACIFIC EXPO** **RCRIS-SQG** **1000598101**
East **26776 OAK AVE** **FINDS** **CAD983621434**
> 1 **CANYON COUNTRY, CA 91351**
7488 ft.

Site 4 of 14 in cluster AX

Relative: Higher

Actual: 1274 ft.

PACIFIC EXPO (Continued) **1000598101**

RCRIS:
Owner: PACIFIC EXPORT CORP
(805) 250-1226
EPA ID: CAD983621434
Contact: GEORGE BAKER
(805) 250-1226
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

AX307
East
> 1
7489 ft.

MARANATHA CHEVROLET
26770 OAK AVE
CANYON COUNTRY, CA 91351

RCRIS-SQG **1000596099**
FINDS **CAD983600628**
HAZNET

Site 5 of 14 in cluster AX

Relative:
Higher

Actual:
1274 ft.

RCRIS:
Owner: JERRY SHUMARD
(415) 555-1212
EPA ID: CAD983600628
Contact: SHUMAD JERRY
(805) 251-5600
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAD983600628
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .7545
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: JERRY SHUMARD
Telephone: (000) 000-0000
Mailing Address: 26776 OAK AVE
CANYON COUNTRY, CA 91351
County Los Angeles

MARANATHA CHEVROLET (Continued) **1000596099**

Gepaid: CAD983600628
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.22
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: JERRY SHUMARD
Telephone: --
Mailing Address: 26776 OAK AVE
CANYON COUNTRY, CA 91351
County Not reported

Gepaid: CAD983600628
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.64
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: JERRY SHUMARD
Telephone: --
Mailing Address: 26776 OAK AVE
CANYON COUNTRY, CA 91351
County Not reported

Gepaid: CAD983600628
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: JERRY SHUMARD
Telephone: (000) 000-0000
Mailing Address: 26776 OAK AVE
CANYON COUNTRY, CA 91351
County Los Angeles

Gepaid: CAD983600628
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.62
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: JERRY SHUMARD
Telephone: --
Mailing Address: 26776 OAK AVE
CANYON COUNTRY, CA 91351
County Not reported

AX308
East
> 1
7489 ft.

Relative:
Higher

Actual:
1274 ft.

MARANATHA CHEVROLET SERVICE
26770 OAK AVE
SANTA CLARITA, CA

HAZNET **S103945460**
LOS ANGELES CO. HMS **N/A**

Site 6 of 14 in cluster AX

HAZNET:

Gepaid:	CAL000225312
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.83
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	RICK MCNEIL
Telephone:	(661) 251-5600
Mailing Address:	26770 OAK AVE CANYON COUNTRY, CA 91351
County	Not reported

HMS:

Facility Id:	020068-028605		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AX309
East
> 1
7491 ft.

Relative:
Higher

Actual:
1274 ft.

MICHAEL'S SHUTTER MFG.
26752 OAK AVE A
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945456**
N/A

Site 7 of 14 in cluster AX

HMS:

Facility Id:	020061-028600		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AX310
East
> 1
7491 ft.

Relative:
Higher

Actual:
1274 ft.

CHEMEX EXTERMINATORS
26752 OAK AVE B
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945457**
N/A

Site 8 of 14 in cluster AX

HMS:

Facility Id:	020062-028601		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AX311
East
> 1
7491 ft.

Relative:
Higher

Actual:
1274 ft.

OAK COLOR
26752 OAK AVE STE E
CANYON COUNTRY, CA 91351

HAZNET **S103648041**
N/A

Site 9 of 14 in cluster AX

HAZNET:

Gepaid:	CAL000117717
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.0550
Waste Category:	Metal sludge - Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
Disposal Method:	Recycler
Contact:	MICHAEL O'CONNOR
Telephone:	(805) 251-8038
Mailing Address:	26752 OAK AVE STE E CANYON COUNTRY, CA 91351 - 6618
County	Los Angeles

Gepaid:	CAL000117717
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.0420
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	MICHAEL O'CONNOR
Telephone:	(805) 251-8038
Mailing Address:	26752 OAK AVE STE E CANYON COUNTRY, CA 91351 - 6618
County	Los Angeles

AX312
East
> 1
7491 ft.

Relative:
Higher

Actual:
1274 ft.

PATROL SECURITY
26752 OAK AVE C
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945458**
N/A

Site 10 of 14 in cluster AX

HMS:

Facility Id:	020063-028602		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AX313
East
> 1
7491 ft.

Relative:
Higher

Actual:
1274 ft.

EMCO ELECTRICAL
26752 OAK AVE STE H
CANYON COUNTRY, CA 91351

HAZNET **S105092734**
N/A

Site 11 of 14 in cluster AX

EMCO ELECTRICAL (Continued) **S105092734**

HAZNET:

Gepaid:	CAL000213071
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Orange
Tons:	0.01
Waste Category:	Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method:	Transfer Station
Contact:	JIM COFFEY
Telephone:	(661) 252-1227
Mailing Address:	26752 OAK AVE STE H CANYON COUNTRY, CA 91351 - 6618
County	Not reported

Gepaid:	CAL000213071
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Orange
Tons:	0.01
Waste Category:	Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method:	Transfer Station
Contact:	JIM COFFEY
Telephone:	(661) 252-1227
Mailing Address:	26752 OAK AVE STE H CANYON COUNTRY, CA 91351 - 6618
County	Not reported

Gepaid:	CAL000213071
TSD EPA ID:	CAT000613976
Gen County:	Los Angeles
Tsd County:	Orange
Tons:	.0208
Waste Category:	Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method:	Transfer Station
Contact:	JIM COFFEY
Telephone:	(000) 000-0000
Mailing Address:	26752 OAK AVE STE H CANYON COUNTRY, CA 91351 - 6618
County	Los Angeles

AX314 **PACIFIC AIR LOGISTICS** **LOS ANGELES CO. HMS** **U003063469**
East **26763 OAK AVE** **N/A**
> 1 **SANTA CLARITA, CA**
7492 ft.

Site 12 of 14 in cluster AX

Relative:
Higher

Actual:
1274 ft.

HMS:

Facility Id:	007714-I08146		
Area:	7A		
Facility Type:	I02		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
AW315 **East** **> 1** **7492 ft.**	**METAL WORKS** **26846 OAK AVENUE #K** **CANYON COUNTRY, CA 91351**	**HAZNET**	**S103648105** **N/A**

Site 9 of 13 in cluster AW

Relative: Higher

Actual: 1273 ft.

HAZNET:

Gepaid:	CAL000055158
TSD EPA ID:	CAD008302903
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2085
Waste Category:	Paint sludge
Disposal Method:	Recycler
Contact:	BOB DALE
Telephone:	(805) 251-8975
Mailing Address:	26846 OAK AVE #K CANYON COUNTRY, CA 91351
County	Los Angeles

Gepaid:	CAL000055158
TSD EPA ID:	CAD008302903
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2168
Waste Category:	Paint sludge
Disposal Method:	Recycler
Contact:	BOB DALE
Telephone:	(805) 251-8975
Mailing Address:	26846 OAK AVE #K CANYON COUNTRY, CA 91351
County	Los Angeles

AW316 **East** **> 1** **7492 ft.**	**GLAZER CUSTOM METAL WORKS** **26846 OAK AVE STE R** **SANTA CLARITA, CA 91351**	**HAZNET**	**S105724865** **N/A**

Site 10 of 13 in cluster AW

Relative: Higher

Actual: 1273 ft.

HAZNET:

Gepaid:	CAL000217322
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.04
Waste Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	Transfer Station
Contact:	HAROLD GLAZER/OWNER
Telephone:	(661) 250-0559
Mailing Address:	26846 OAK AVE STE R SANTA CLARITA, CA 91351
County	Not reported

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
AX317 **East** **> 1** **7496 ft.**	**VAL PAK PRODUCTS** **26751 OAK AVE** **CANYON COUNTRY, CA 91351**	**HAZNET**	**S106091149** **N/A**

Site 13 of 14 in cluster AX

Relative:
Higher

Actual:
1274 ft.

HAZNET:

Gepaid:	CAL000142680
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	5.00
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	BEN SOKAKIAN, OWNER
Telephone:	(661) 252-0115
Mailing Address:	26751 OAK AVE CANYON COUNTRY, CA 91351 - 2410
County	Not reported

AX318 **East** **> 1** **7496 ft.**	**VAL-PAK PRODUCTS** **26751 OAK AVE.** **CANYON COUNTRY, CA 91351**	**SSTS**	**1004439683** **N/A**

Site 14 of 14 in cluster AX

Relative:
Higher

Actual:
1274 ft.

SSTS:

Product:	ALGI-CONTROL
Status:	Active
Registration #:	058291CA 001
Report Year:	Not reported
Permit:	Registered
Product #:	00683600047010897
Product Type:	End-use blend, formulation, or concentrate
Product Class:	Algicide
Product Use:	All other products
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

Product:	HASACIDE
Status:	Active
Registration #:	058291CA 001
Report Year:	1990
Permit:	Registered
Product #:	01089700013
Product Type:	End-use blend, formulation, or concentrate
Product Class:	Algicide
Product Use:	All other products
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

VAL-PAK PRODUCTS (Continued) **1004439683**

Product:	ALGI-CONTROL
Status:	Active
Registration #:	058291CA 001
Report Year:	1990
Permit:	Registered
Product #:	00683600047
Product Type:	End-use blend, formulation, or concentrate
Product Class:	Algicide
Product Use:	All other products
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

Product:	ALGI-CONTROL
Status:	Active
Registration #:	058291CA 001
Report Year:	1997
Permit:	Registered
Product #:	00683600047010897
Product Type:	End-use blend, formulation, or concentrate
Product Class:	20
Product Use:	5
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

Product:	ALGI - CONTROL
Status:	Active
Registration #:	058291CA 001
Report Year:	1996
Permit:	Registered
Product #:	00683600047010897
Product Type:	End-use blend, formulation, or concentrate
Product Class:	20
Product Use:	5
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

Product:	ALGI-CONTROL (-10897)
Status:	Not reported
Registration #:	058291CA001
Report Year:	2001
Permit:	Registered
Product #:	00683600047
Product Type:	End-use blend, formulation, or concentrate
Product Class:	Algicide
Product Use:	All other products
Market:	Marketed in the United States
Country:	JAPAN
Region:	09

VAL-PAK PRODUCTS (Continued) **1004439683**

Product:	ALGI-CONTROL
Status:	Not reported
Registration #:	058291CA 001
Report Year:	2000
Permit:	Registered
Product #:	00683600047
Product Type:	End-use blend, formulation, or concentrate
Product Class:	Algicide
Product Use:	All other products
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

Product:	ALGI-CONTROL
Status:	Not reported
Registration #:	058291CA 001
Report Year:	1999
Permit:	Registered
Product #:	00683600047010897
Product Type:	End-use blend, formulation, or concentrate
Product Class:	Algicide
Product Use:	All other products
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

Product:	HASACIDE
Status:	Active
Registration #:	058291CA 001
Report Year:	1991
Permit:	Registered
Product #:	01089700013
Product Type:	End-use blend, formulation, or concentrate
Product Class:	Algicide
Product Use:	All other products
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

Product:	ALGI CONTROL
Status:	Active
Registration #:	058291CA 001
Report Year:	1991
Permit:	Registered
Product #:	00683600047
Product Type:	End-use blend, formulation, or concentrate
Product Class:	Algicide
Product Use:	All other products
Market:	Marketed in the United States
Country:	Not reported
Region:	Not reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AY319 East > 1 7498 ft.	**BOHAN'S AUTOMOTIVE** 26741 OAK AVE SANTA CLARITA, CA	**LOS ANGELES CO. HMS**	**S103945455** N/A

Site 1 of 7 in cluster AY

Relative: Higher

Actual: 1274 ft.

HMS:

Facility Id:	020054-028585		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

AY320 East > 1 7498 ft.	**BOHANS AUTOMOTOVIE** 26741 OAK ST SANTA CLARITA, CA 91351	**HAZNET**	**S104583059** N/A

Site 2 of 7 in cluster AY

Relative: Higher

Actual: 1274 ft.

HAZNET:

Gepaid:	CAL000208720
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.6255
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	KENNETH MC KERNAN
Telephone:	(662) 251-4288
Mailing Address:	26741 OAK ST SANTA CLARITA, CA 91351
County	Los Angeles

Gepaid:	CAL000208720
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.72
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	KENNETH MC KERNAN/OWNER
Telephone:	(510) 540-1994
Mailing Address:	26741 OAK ST SANTA CLARITA, CA 91351
County	Not reported

Gepaid:	CAL000208720
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.5636
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	KENNETH MC KERNAN
Telephone:	(662) 251-4288
Mailing Address:	26741 OAK ST SANTA CLARITA, CA 91351
County	Los Angeles

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
AW321 **East** **> 1** **7500 ft.** **Relative:** **Higher** **Actual:** **1273 ft.**	**RESTORATIONS PLUS** **26846 OAK AVENUE UNIT "R"** **CANYON COUNTRY, CA 91351**	**HAZNET**	**S103984166** **N/A**

Site 11 of 13 in cluster AW

HAZNET:

Gepaid:	CAL000045245
TSD EPA ID:	CAD980887418
Gen County:	Los Angeles
Tsd County:	1
Tons:	10.8420
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	NEWARK ANTHONY C
Telephone:	(000) 000-0000
Mailing Address:	26846 OAK AVE STE R CANYON COUNTRY, CA 91351 - 2401
County	Los Angeles

AW322 **East** **> 1** **7500 ft.** **Relative:** **Higher** **Actual:** **1273 ft.**	**STUDIO CITY SPORTS CARS** **26846 OAK AVE BLDG 5** **CANYON COUNTRY, CA 91351**	**RCRIS-SQG** **FINDS**	**1000595472** **CAD983594094**

Site 12 of 13 in cluster AW

RCRIS:

Owner:	JOHN MATTINGLY (415) 555-1212
EPA ID:	CAD983594094
Contact:	DARIN SHAUER (805) 298-3887
Classification:	Small Quantity Generator
TSDF Activities:	Not reported
Violation Status:	No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

Resource Conservation and Recovery Act Information system (RCRAINFO)

AV323 **East** **> 1** **7501 ft.** **Relative:** **Higher** **Actual:** **1272 ft.**	**D K TRUCKING** **20811 SANTA CLARA ST** **CANYON COUNTRY, CA 91351**	**RCRIS-SQG** **FINDS** **HAZNET**	**1000595471** **CAD983594086**

Site 3 of 4 in cluster AV

D K TRUCKING (Continued) **1000595471**

RCRIS:
Owner: C JILL NIXON
(415) 555-1212
EPA ID: CAD983594086

Contact: C NIXON
(805) 252-3700

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAD983594086
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.6680
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: C JILL NIXON
Telephone: (415) 555-1212
Mailing Address: 20811 SANTA CLARA
CANYON COUNTRY, CA 91351
County Los Angeles

AV324 **D & K TRUCKING INC** **HAZNET** **S104577396**
East **20811 SANTA CLARA ST** **N/A**
> 1 **CANYON COUNTRY, CA 91351**
7501 ft.

Site 4 of 4 in cluster AV

Relative:
Higher

Actual:
1272 ft.

HAZNET:
Gepaid: CAL000081456
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0625
Waste Category: Organic liquids with metals Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
Disposal Method: Transfer Station
Contact: D & K TRUCKING INC
Telephone: (000) 000-0000
Mailing Address: 20811 SANTA CLARA ST
CANYON COUNTRY, CA 91351
County Los Angeles

AY325
East
> 1
7506 ft.

Relative:
Higher

Actual:
1275 ft.

MORRIS PRECISION PRODUCTS, INC.
26732 OAK AVE
CANYON COUNTRY, CA 91351

HAZNET **S102814076**
N/A

Site 3 of 7 in cluster AY

HAZNET:

Gepaid:	CAL000059926
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.6880
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	MORRIS NORMAN
Telephone:	(000) 000-0000
Mailing Address:	26732 OAK AVE CANYON COUNTRY, CA 91351
County	Los Angeles

Gepaid:	CAL000059926
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.7506
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	MORRIS NORMAN
Telephone:	(000) 000-0000
Mailing Address:	26732 OAK AVE CANYON COUNTRY, CA 91351
County	Los Angeles

Gepaid:	CAL000059926
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.8131
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	MORRIS NORMAN
Telephone:	(000) 000-0000
Mailing Address:	26732 OAK AVE CANYON COUNTRY, CA 91351
County	Los Angeles

Gepaid:	CAL000059926
TSD EPA ID:	CAT000613976
Gen County:	Los Angeles
Tsd County:	Orange
Tons:	.0667
Waste Category:	Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)
Disposal Method:	Transfer Station
Contact:	MORRIS NORMAN
Telephone:	(000) 000-0000
Mailing Address:	26732 OAK AVE CANYON COUNTRY, CA 91351
County	Los Angeles

MORRIS PRECISION PRODUCTS, INC. (Continued) **S102814076**

Gepaid: CAL000059926
TSD EPA ID: CAD980883177
Gen County: Los Angeles
Tsd County: Kern
Tons: 1.5429
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: MORRIS NORMAN
Telephone: (000) 000-0000
Mailing Address: 26732 OAK AVE
CANYON COUNTRY, CA 91351
County Los Angeles

Click this hyperlink while viewing on your computer to access
5 additional CA HAZNET record(s) in the EDR Site Report.

AY326
East
> 1
7512 ft.

Relative:
Higher

Actual:
1275 ft.

PREMIER AUTO BODY & FRAME **HAZNET** **S100942731**
26723 OAK AVENUE **N/A**
CANYON COUNTRY, CA 91351

Site 4 of 7 in cluster AY

HAZNET:
Gepaid: CAL000005147
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Contact: FRANK PINTO
Telephone: (805) 298-0198
Mailing Address: 26723 OAK AVE
CANYON COUNTRY, CA 91351
County Los Angeles

Gepaid: CAL000005147
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Contact: FRANK PINTO
Telephone: (805) 298-0198
Mailing Address: 26723 OAK AVE
CANYON COUNTRY, CA 91351
County Los Angeles

Gepaid: CAL000005147
TSD EPA ID: CAD097030993
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1000
Waste Category: Other organic solids
Disposal Method: Disposal, Other
Contact: FRANK PINTO
Telephone: (805) 298-0198
Mailing Address: 26723 OAK AVE

PREMIER AUTO BODY & FRAME (Continued) **S100942731**

CANYON COUNTRY, CA 91351
County Los Angeles

Gepaid: CAL000005147
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Contact: FRANK PINTO
Telephone: (805) 298-0198
Mailing Address: 26723 OAK AVE
CANYON COUNTRY, CA 91351
County Los Angeles

Gepaid: CAL000005147
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .9172
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Contact: FRANK PINTO
Telephone: (805) 298-0198
Mailing Address: 26723 OAK AVE
CANYON COUNTRY, CA 91351
County Los Angeles

Click this hyperlink while viewing on your computer to access
17 additional CA HAZNET record(s) in the EDR Site Report.

AY327
East
> 1
7512 ft.

Relative:
Higher

Actual:
1275 ft.

PREMIER AUTO BODY **LOS ANGELES CO. HMS** **U003063603**
26723 OAK AVE **N/A**
SANTA CLARITA, CA

Site 5 of 7 in cluster AY

HMS:
Facility Id: 007868-I08329
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

AY328
East
> 1
7512 ft.

Relative:
Higher

Actual:
1275 ft.

AUTO CENTER **LOS ANGELES CO. HMS** **S104537772**
26723 OAK AVE **N/A**
SANTA CLARITA, CA

Site 6 of 7 in cluster AY

HMS:
Facility Id: 007868-008329
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AW329	**G W FRANZ GRINDING**	**RCRIS-SQG**	**1000819973**
East	**26818 OAK AVE UNIT L**	**FINDS**	**CAD983659921**
> 1	**CANYON COUNTRY, CA 91351**	**HAZNET**	
7512 ft.			

Site 13 of 13 in cluster AW

Relative: Higher

Actual: 1273 ft.

RCRIS:

Owner: GEORGE FRANZ
(805) 252-0836
EPA ID: CAD983659921

Contact: GEORGE FRANZ
(805) 252-0836

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid: CAD983659921
TSD EPA ID: CAT000613976
Gen County: Los Angeles
Tsd County: Orange
Tons: .2502
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: GEORGE FRANZ
Telephone: (000) 000-0000
Mailing Address: 26818 OAK AVE UNIT L
CANYON COUNTRY, CA 91351
County Los Angeles

Gepaid: CAD983659921
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Orange
Tons: 0.65
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: --
Telephone: --
Mailing Address: 26818 OAK AVE UNIT L
CANYON COUNTRY, CA 91351
County Not reported

Gepaid: CAD983659921
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.0433
Waste Category: Oil/water separation sludge
Disposal Method: Recycler
Contact: GEORGE FRANZ
Telephone: (000) 000-0000
Mailing Address: 26818 OAK AVE UNIT L
CANYON COUNTRY, CA 91351
County Los Angeles

G W FRANZ GRINDING (Continued) **1000819973**

Gepaid: CAD983659921
TSD EPA ID: CAD982444481
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 0.2293
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: GEORGE FRANZ
Telephone: (000) 000-0000
Mailing Address: 26818 OAK AVE UNIT L
CANYON COUNTRY, CA 91351
County Los Angeles

Gepaid: CAD983659921
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Orange
Tons: 0.16
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: --
Telephone: --
Mailing Address: 26818 OAK AVE UNIT L
CANYON COUNTRY, CA 91351
County Not reported

AY330
East
> 1
7554 ft.

Relative:
Higher

Actual:
1275 ft.

HONDA OUTPOST
26724 OAK AVE UNIT C
CANYON COUNTRY, CA 91351

RCRIS-SQG 1000596599
FINDS CAD983605734

Site 7 of 7 in cluster AY

RCRIS:
Owner: JEFFREY D MILLER
(805) 252-5553
EPA ID: CAD983605734

Contact: JEFF MILLER
(805) 298-8874

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

AZ331
ESE
> 1
7575 ft.

Relative:
Higher

Actual:
1344 ft.

HART UNION HIGH SCHOOL DISTRICT
21429 REDVIEW DR
SANTA CLARITA, CA 91350

HAZNET S100863745
N/A

Site 1 of 5 in cluster AZ

HART UNION HIGH SCHOOL DISTRICT (Continued) **S100863745**

HAZNET:

Gepaid:	CAL000072887
TSD EPA ID:	CAD050806850
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2376
Waste Category:	Detergent and soap
Disposal Method:	Transfer Station
Contact:	Not reported
Telephone:	(000) 000-0000
Mailing Address:	21429 REDVIEW DR SANTA CLARITA, CA 91350
County	Los Angeles

Gepaid:	CAL000072887
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	32.4759
Waste Category:	Oil/water separation sludge
Disposal Method:	Transfer Station
Contact:	Not reported
Telephone:	(000) 000-0000
Mailing Address:	21429 REDVIEW DR SANTA CLARITA, CA 91350
County	Los Angeles

Gepaid:	CAL000072887
TSD EPA ID:	CAD050806850
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0965
Waste Category:	Laboratory waste chemicals
Disposal Method:	Transfer Station
Contact:	Not reported
Telephone:	(000) 000-0000
Mailing Address:	21429 REDVIEW DR SANTA CLARITA, CA 91350
County	Los Angeles

Gepaid:	CAL000072887
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.3710
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	Not reported
Telephone:	(000) 000-0000
Mailing Address:	21429 REDVIEW DR SANTA CLARITA, CA 91350
County	Los Angeles

HART UNION HIGH SCHOOL DISTRICT (Continued) **S100863745**

Gepaid: CAL000072887
TSD EPA ID: CAD050806850
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3127
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 21429 REDVIEW DR
SANTA CLARITA, CA 91350
County Los Angeles

Click this hyperlink while viewing on your computer to access 36 additional CA HAZNET record(s) in the EDR Site Report.

AZ332
ESE
> 1
7575 ft.

WM HART UHSD - TRANSPORT DEPT **UST** **U003776224**
21429 REDVIEW DR **N/A**
SANTA CLARITA, CA 91350

Site 2 of 5 in cluster AZ

Relative:
Higher

Actual:
1344 ft.

State UST:
Facility ID: 008705
Region: STATE
Local Agency: 19000

AZ333
ESE
> 1
7575 ft.

WM S HART UNIFIED SCHOOL DIST **RCRIS-SQG** **1000820110**
21429 REDVIEW DR **FINDS** **CAD983661349**
SANTA CLARITA, CA 91350

Site 3 of 5 in cluster AZ

Relative:
Higher

Actual:
1344 ft.

RCRIS:
Owner: WM S HART UNIFIED HIGH SCHOOL DIST
(805) 259-0096
EPA ID: CAD983661349

Contact: GARY SMITH
(805) 259-0096

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
AZ334	**TRANS**	**CA WDS**	**S106103336**
ESE	**21429 CENTRE POINTE PARKWAY**		**N/A**
> 1	**SANTA CLARITA, CA 91350**		
7575 ft.			

Site 4 of 5 in cluster AZ

Relative: Higher

Actual: 1344 ft.

WDS:

Facility ID:	4 19I018054		
Facility Contact	SMITH, GARY	Facility Telephone	(661) 289-0033
SIC Code:	Not reported	SIC Code 2:	Not reported
Agency Name:	WM S HART UNION HIGH SCH DIST		
Agency Address:	21515 CENTRE POINTE PARKWAY SANTA CLARITA 91350 - 2948		
Agency Contact:	SMITH, GARY	Agency Phone:	(661) 259-0033
Design Flow:	Not reported	Baseline Flow:	Not reported

Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.

Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

Agency Type: County

Waste Type: Not reported

Threat to Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

Reclamation: Not reported

POTW: Not reported

NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

Subregion: 4

AZ335	**WS HART UNION HIGH SCH DT**	**LOS ANGELES CO. HMS**	**U003063880**
ESE	**21429 REDVIEW DR**		**N/A**
> 1	**SANTA CLARITA, CA**		
7575 ft.			

Site 5 of 5 in cluster AZ

Relative: Higher

Actual: 1344 ft.

HMS:

Facility Id:	008184-I08705		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Permit		
Region:	Los Angeles County:		

336
NW
> 1
7600 ft.

MATCHED VAN TRAILER
23444 WESTFORD PL
SANTA CLARITA, CA

LOS ANGELES CO. HMS

S103945158
N/A

Relative:
Higher

Actual:
1339 ft.

HMS:

Facility Id:	020353-028965		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

BA337
East
> 1
7701 ft.

SANTA CLARITA WATER CO
21110 W GOLDEN TRIANGLE RD
SANTA CLARITA, CA 91350

HAZNET
LOS ANGELES CO. HMS

S102064053
N/A

Site 1 of 3 in cluster BA

Relative:
Higher

Actual:
1277 ft.

HAZNET:

Gepaid:	CAL000180921
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.7297
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	SANTA CLARITA WATER CO
Telephone:	(805) 255-8223
Mailing Address:	PO BOX 903 SANTA CLARITA, CA 91380
County	Los Angeles

Gepaid:	CAL000180921
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2875
Waste Category:	Paint sludge
Disposal Method:	Recycler
Contact:	SANTA CLARITA WATER CO
Telephone:	(805) 255-8223
Mailing Address:	PO BOX 903 SANTA CLARITA, CA 91380
County	Los Angeles

Gepaid:	CAL000180921
TSD EPA ID:	CAD982444481
Gen County:	Los Angeles
Tsd County:	San Bernardino
Tons:	.1500
Waste Category:	Other organic solids
Disposal Method:	Transfer Station
Contact:	SANTA CLARITA WATER CO
Telephone:	(805) 255-8223
Mailing Address:	PO BOX 903 SANTA CLARITA, CA 91380
County	Los Angeles

SANTA CLARITA WATER CO (Continued) **S102064053**

Gepaid: CAL000180921
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2085
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: SANTA CLARITA WATER CO
Telephone: (805) 255-8223
Mailing Address: PO BOX 903
SANTA CLARITA, CA 91380
County Los Angeles

Gepaid: CAC000766536
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1459
Waste Category: Tank bottom waste
Disposal Method: Recycler
Contact: SANTA CLARITA WATER CO
Telephone: (805) 255-8223
Mailing Address: PO BOX 903
SANTA CLARITA, CA 91380
County Los Angeles

HMS:
Facility Id: 012852-013067
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 015539-017013
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

BA338 **SANTA CLARITA WATER COMPANY** **HAZNET** **S106085013**
East **21110 GOLDEN TRIANGLE** **N/A**
> 1 **SAUGUS, CA 91350**
7701 ft.

Site 2 of 3 in cluster BA

Relative: Higher

Actual: 1277 ft.

HAZNET:
Gepaid: CAC002334665
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.09
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Recycler
Contact: STEVE MCALPINE/CA HAZARD SRVCS
Telephone: (714) 434-9995
Mailing Address: 21110 GOLDEN TRIANGLE
SAUGUS, CA 91350

SANTA CLARITA WATER COMPANY (Continued) — **S106085013**

County: Not reported

BA339
East
> 1
7701 ft.

SANTA CLARITA WATER CO
21110 GOLDEN TRIANGLE RD
SANTA CLARITA, CA 91350

UST — **U003777086**, **N/A**

Site 3 of 3 in cluster BA

Relative: Higher

Actual: 1277 ft.

State UST:
Facility ID: 013067
Region: STATE
Local Agency: 19000

340
NNE
> 1
7727 ft.

WM S HART USD SAUGUS HS
21900 W CENTURION WY
SAUGUS, CA 91350

RCRIS-SQG, **FINDS**, **HAZNET** — **1000374912**, **CAD981624059**

Relative: Higher

Actual: 1284 ft.

RCRIS:
Owner: NOT REQUIRED
(415) 555-1212
EPA ID: CAD981624059
Contact: Not reported
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAD981624059
TSD EPA ID: CAD008364432
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: WM. S. HART UNION HS DISTRICT
Telephone: (805) 259-0033
Mailing Address: 21515 REDVIEW DR
SANTA CLARITA, CA 91350 - 2947
County: Los Angeles

Gepaid: CAD981624059
TSD EPA ID: CAD008364432
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0575
Waste Category: Laboratory waste chemicals
Disposal Method: Disposal, Land Fill
Contact: WM. S. HART UNION HS DISTRICT
Telephone: (805) 259-0033
Mailing Address: 21515 REDVIEW DR
SANTA CLARITA, CA 91350 - 2947
County: Los Angeles

WM S HART USD SAUGUS HS (Continued) **1000374912**

Gepaid: CAD981624059
TSD EPA ID: CAD008364432
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0000
Waste Category: Unspecified aqueous solution
Disposal Method: Not reported
Contact: WM. S. HART UNION HS DISTRICT
Telephone: (805) 259-0033
Mailing Address: 21515 REDVIEW DR
SANTA CLARITA, CA 91350 - 2947
County Los Angeles

Gepaid: CAD981624059
TSD EPA ID: CAD008364432
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0100
Waste Category: Laboratory waste chemicals
Disposal Method: Treatment, Tank
Contact: WM. S. HART UNION HS DISTRICT
Telephone: (805) 259-0033
Mailing Address: 21515 REDVIEW DR
SANTA CLARITA, CA 91350 - 2947
County Los Angeles

Gepaid: CAD981624059
TSD EPA ID: CAD008364432
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2085
Waste Category: Laboratory waste chemicals
Disposal Method: Recycler
Contact: WM. S. HART UNION HS DISTRICT
Telephone: (805) 259-0033
Mailing Address: 21515 REDVIEW DR
SANTA CLARITA, CA 91350 - 2947
County Los Angeles

Click this hyperlink while viewing on your computer to access
20 additional CA HAZNET record(s) in the EDR Site Report.

BB341 **MIKE FENNEL AUTO BODY** **FINDS 1006825770**
SSW **25655 SPRINGBROOK AV** **EMI 110013848159**
> 1 **SAUGUS, CA 91350**
7755 ft.

Site 1 of 14 in cluster BB

Relative:
Lower

FINDS:
Other Pertinent Environmental Activity Identified at Site:
National Emissions Inventory (NEI)

Actual:
1185 ft.

EMISSIONS :

Facility ID :	59027
Air District Code :	SC
SIC Code :	7538
Total Priority Score :	Not reported
Health Risk Assessment :	Not reported
Non-cancer Chronic Haz Index :	Not reported
Non-cancer Acute Haz Index :	Not reported

MIKE FENNEL AUTO BODY (Continued) **1006825770**

Air Basin :	SC
Air District Name :	SOUTH COAST AQMD
Community Health Air Pollution Info System :	Not reported
Consolidated Emission Reporting Rule :	Not reported
County Code :	19
County ID :	19

BB342
SSW
> 1
7763 ft.

Relative:
Lower

Actual:
1185 ft.

THATCHER GLASS **LUST** **S105033717**
25655 SPRINGBROOK AVE **Cortese** **N/A**
SAUGUS, CA 91350

Site 2 of 14 in cluster BB

State LUST:

Cross Street:	SAN FERNANDO ROAD		
Qty Leaked:	0		
Case Number	I-01814		
Reg Board:	4		
Chemical:	Diesel		
Lead Agency:	Regional Board		
Local Agency :	19000		
Case Type:	Soil only		
Status:	Case Closed		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	8/27/96 0:00		
Release Date:	02/09/1990		
Cleanup Fund Id :	Not reported		
Discover Date :	01/05/1990		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	3/26/90 0:00		
Funding:	Not reported		
Staff Initials:	Not reported		
How Discovered:	Tank Closure		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	UNK		
Leak Source:	Tank		
MTBE Date :	Not reported		
Max MTBE GW :	Not reported		
MTBE Tested:	Not Required to be Tested.		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	Not reported		
Staff :	UNK		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	SANTA CLARA RIVER VA		
Operator :	SULLIVAN, MARK		
Oversight Prgm:	LUST		
Review Date :	8/27/96 0:00		
Stop Date :	01/05/1990		
Work Suspended :	Not reported		
Responsible Party	THATCHER GLASS		

THATCHER GLASS (Continued) **S105033717**

RP Address: 25655 SPRINGBROOK AVE., SAUGUS, 91350 L
Global Id: T0603702802
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 02/09/1990
Lead Agency: Regional Board
Local Agency: 19000
Substance: Diesel
Case Type: Soil
Status: Case Closed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 8/27/96
Date Leak Record Entered: 3/26/90
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : Not reported
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: THATCHER GLASS
RP Address: 25655 SPRINGBROOK AVE., SAUGUS, 91350 L
Significant Interim Remedial Action Taken: Not reported
Program : LUST
Lat / Long : 34 / -119
Local Agency Staff: Not reported
Summary : Not reported
Hydrologic Basin # : SANTA CLARA RIVER VA
Beneficial Use : Not reported
Priority : Not reported
Cleanup Fund Id : Not reported
Suspended : Not reported
Local Case No : Not reported
Substance Quantity : 0
Abatement Method Used at the Site: Not reported
Operator : SULLIVAN, MARK
Water System : Not reported
Well Name : Not reported
Approx. Dist To Production Well (ft) : 2667.324713
Assigned Name : Not reported
Source of Cleanup Funding: Not reported
Date the Leak was Discovered: 01/05/1990
How the Leak was Discovered: Tank Closure
How the Leak was Stopped: Not reported
Cause of Leak: UNK
Leak Source: Tank

THATCHER GLASS (Continued) **S105033717**

Date The Leak was Stopped: 1/5/90
Date Confirmation Leak Began: Not reported
Preliminary Site Assessment Workplan Submitted: 2/9/90
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Date the Case was Closed: 8/27/96
Enforcement Action Date: Not reported
Date Leak First Reported: 02/09/1990
Enforcement Type: Not reported
Global ID : T0603702802
Cross Street: SAN FERNANDO ROAD

CORTESE:
Region: CORTESE
Fac Address 2: 25655 SPRINGBROOK AVE

BB343 **REXHALL INDUSTRIES INC** **RCRIS-SQG** **1000239155**
SSW **25655 SPRINGBROOK AVE SLD I** **HAZNET** **CAD982478935**
> 1 **SAUGUS, CA 91350**
7763 ft.

Site 3 of 14 in cluster BB

Relative: Lower

Actual: 1185 ft.

RCRIS:
Owner: W J REX AND C HALL
(415) 555-1212
EPA ID: CAD982478935

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

HAZNET:
Gepaid: CAD982478935
TSD EPA ID: CAD000088252
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0500
Waste Category: Other organic solids
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 25655 SPRINGBROOK AVE SLD I
SAUGUS, CA 91350
County Los Angeles

Gepaid: CAD982478935
TSD EPA ID: CAD000088252
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Adhesives
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 25655 SPRINGBROOK AVE SLD I

REXHALL INDUSTRIES INC (Continued) **1000239155**

SAUGUS, CA 91350
County Los Angeles

Gepaid: CAD982478935
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0540
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 25655 SPRINGBROOK AVE SLD I
SAUGUS, CA 91350
County Los Angeles

Gepaid: CAD982478935
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0540
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 25655 SPRINGBROOK AVE SLD I
SAUGUS, CA 91350
County Los Angeles

Gepaid: CAD982478935
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.05
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Not reported
Contact: DEACT 5/13/96 CO MOVED -PH
Telephone: (805) 726-0565
Mailing Address: 25655 SPRINGBROOK AVE SLD I
SAUGUS, CA 91350
County Not reported

Click this hyperlink while viewing on your computer to access
3 additional CA HAZNET record(s) in the EDR Site Report.

BB344 **TMC PROPERTIES LLC** **HAZNET** **S103991524**
SSW **25655 SPRINGBROOK AVE** **N/A**
> 1 **LOS ANGELES, CA 91350**
7763 ft.

Site 4 of 14 in cluster BB

Relative:
Lower

Actual:
1185 ft.

HAZNET:
Gepaid: CAD044398956
TSD EPA ID: UTC093012201
Gen County: Los Angeles
Tsd County: 99
Tons: 19
Waste Category:
Disposal Method: Disposal, Land Fill
Contact: DART INDUSTRIES INC

TMC PROPERTIES LLC (Continued) **S103991524**

Telephone: (805) 259-4400
Mailing Address: 25655 SPRINGBROOK AVE
LOS ANGELES, CA 91350
County Los Angeles

Gepaid: CAD044398956
TSD EPA ID: CAT000646117
Gen County: Los Angeles
Tsd County: Kings
Tons: 1.2642
Waste Category: Other empty containers 30 gallons or more
Disposal Method: Disposal, Land Fill
Contact: DART INDUSTRIES INC
Telephone: (805) 259-4400
Mailing Address: 25655 SPRINGBROOK AVE
LOS ANGELES, CA 91350
County Los Angeles

Gepaid: CAD044398956
TSD EPA ID: CAT000646117
Gen County: Los Angeles
Tsd County: Kings
Tons: .2107
Waste Category: Other organic solids
Disposal Method: Disposal, Land Fill
Contact: DART INDUSTRIES INC
Telephone: (805) 259-4400
Mailing Address: 25655 SPRINGBROOK AVE
LOS ANGELES, CA 91350
County Los Angeles

Gepaid: CAD044398956
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .8340
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)
Disposal Method: Recycler
Contact: DART INDUSTRIES INC
Telephone: (805) 259-4400
Mailing Address: 25655 SPRINGBROOK AVE
LOS ANGELES, CA 91350
County Los Angeles

Gepaid: CAD044398956
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4169
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Recycler
Contact: DART INDUSTRIES INC
Telephone: (805) 259-4400
Mailing Address: 25655 SPRINGBROOK AVE
LOS ANGELES, CA 91350
County Los Angeles

Click this hyperlink while viewing on your computer to access
6 additional CA HAZNET record(s) in the EDR Site Report.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BB345 SSW > 1 7763 ft.	**STANFORD PERSONAL CARE MFG 25655 SPRINGBROOK AVE NO 6 SAUGUS, CA 91350**	**HAZNET**	**S103989198 N/A**

Site 5 of 14 in cluster BB

Relative: Lower

Actual: 1185 ft.

HAZNET:

Gepaid: CAP601252336
TSD EPA ID: CAD008302903
Gen County: 0
Tsd County: Los Angeles
Tons: 2.2935
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Not reported
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 00000
County 0

Gepaid: CAP601252336
TSD EPA ID: CAD008302903
Gen County: 0
Tsd County: Los Angeles
Tons: 1.8348
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 00000
County 0

Gepaid: CAP601252336
TSD EPA ID: CAD008302903
Gen County: 0
Tsd County: Los Angeles
Tons: 1.1467
Waste Category: Waste oil and mixed oil
Disposal Method: Not reported
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 00000
County 0

Gepaid: CAP601252336
TSD EPA ID: CAD008302903
Gen County: 0
Tsd County: Los Angeles
Tons: .4587
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Not reported
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 00000
County 0

BB346
SSW
> 1
7763 ft.

THATCHER GLASS MANUFACTUR
25655 SPRINGBROOK
SAUGUS, CA 91350

HAZNET **S103976177**
Cortese **N/A**

Site 6 of 14 in cluster BB

Relative:
Lower

Actual:
1185 ft.

HAZNET:

Gepaid:	CAC000982424
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	2.0850
Waste Category:	Unspecified solvent mixture Waste
Disposal Method:	Recycler
Contact:	MARATHON INDUSTRIES INC
Telephone:	(000) 000-0000
Mailing Address:	25655 SPRINGBROOK AVE SAUGUS, CA 91350
County	Los Angeles

Gepaid:	CAC000982424
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.2510
Waste Category:	Aqueous solution with 10% or more total organic residues
Disposal Method:	Recycler
Contact:	MARATHON INDUSTRIES INC
Telephone:	(000) 000-0000
Mailing Address:	25655 SPRINGBROOK AVE SAUGUS, CA 91350
County	Los Angeles

CORTESE:

Region:	CORTESE
Fac Address 2:	Not reported

BB347
SSW
> 1
7763 ft.

THATCHER GLASS CORPORATION
25655 SPRINGBROOK AVE
SAUGUS, CA 91350

HIST UST **U001567728**
N/A

Site 7 of 14 in cluster BB

Relative:
Lower

Actual:
1185 ft.

UST HIST:

Facility ID:	17165	Owner Name:	THATCHER GLASS CORPORATION
Total Tanks:	3	Region:	STATE
Owner Address:	P.O. BOX 1505 ELMIRA, NY 14902		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	OTK111
Tank Capacity:	00030000	Year Installed:	Not reported
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	Not reported	Telephone:	(805) 259-4400
Facility Type:	Other	Other Type:	MFG. GLASS CONTAINER

Facility ID:	17165	Owner Name:	THATCHER GLASS CORPORATION
Total Tanks:	3	Region:	STATE
Owner Address:	P.O. BOX 1505 ELMIRA, NY 14902		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	OTK112

THATCHER GLASS CORPORATION (Continued) **U001567728**

Tank Capacity:	00030000	Year Installed:	Not reported
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	Not reported	Telephone:	(805) 259-4400
Facility Type:	Other	Other Type:	MFG. GLASS CONTAINER
Facility ID:	17165	Owner Name:	THATCHER GLASS CORPORATION
Total Tanks:	3	Region:	STATE
Owner Address:	P.O. BOX 1505 ELMIRA, NY 14902		
Tank Used for:	PRODUCT		
Tank Num:	3	Container Num:	GTK113
Tank Capacity:	00005000	Year Installed:	Not reported
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	Not reported	Telephone:	(805) 259-4400
Facility Type:	Other	Other Type:	MFG. GLASS CONTAINER

BB348 **THATCHER GLASS MANUFACTURING COMPANY** **VCP** **S100714325**
SSW **25655 SPRINGBROOK AVENUE** **N/A**
> 1 **SAUGUS, CA 91350**
7763 ft.

Site 8 of 14 in cluster BB

Relative:
Lower

Actual:
1185 ft.

VCP:

Facility ID	19320186
Dtsc Region Code :	3
Region Code Definition :	GLENDALE
County Code :	19
Site Name Under :	Not reported
Current Status Date :	01252002
Current Status Code :	NFA
Current Status :	NO FURTHER ACTION FOR DTSC
Lead Agency Code :	DTSC
Lead Agency :	DEPT OF TOXIC SUBSTANCES CONTROL
Site Type Code :	VCP
Site Type :	VOLUNTARY CLEANUP PROGRAM
National Priorities List :	Not reported
Tier :	Not reported
Source Of Funding Code :	Not reported
Staff Member :	MISKAROU
Supervisor :	Not reported
Sic Code :	32
Sic Code Definition :	MANU - STONE, CLAY & GLASS PRODUCTS
Site Mitigatn & Brnflds Reuse Prog (SMBR) Code :	SA
SMBR Branch :	SO CAL - GLENDALE
Regional Water Quality Control Board :	Not reported
RWQCB Definition :	Not reported
Site Access Controlled :	C
Listed In Haz Wst & Substncs Sites List (CORTESE):	Not reported
Date Hazard Ranked :	Not reported
GW Contamination Suspected :	Not reported
# Of Sources Contributing To Contamination :	0.00000
Lat/Long :	0.00000° 0.00000′ 0.00000″ / 0.00000° 0.00000′ 0.00000″
Direction Lat :	Not reported
Direction Long :	Not reported
Lat/long Method :	Not reported
Entity Lat/long Coordinates Refer To :	Not reported
State Assembly Distt Code :	Not reported

THATCHER GLASS MANUFACTURING COMPANY (Continued) **S100714325**

State Senate Distt Code :	Not reported
Identifying Code:	EPA
ID Value:	CAD044398956
Other ID Desc:	EPA IDENTIFICATION NUMBER
Identifying Code:	HWIS
ID Value:	CAD044398956
Other ID Desc:	HWIS IDENTIFICATION CODE
Identifying Code:	CSTAR
ID Value:	300157
Other ID Desc:	CALSTARS CODE
Alternate Name(s):	THATCHER GLASS MANUFACTURING COMPANY
Alternate Name(s):	DART INDUSTRIES INC
Address(es) :	25655 SPRINGBROOK AVENUE SAUGUS, CA 91350
Background Info :	Not reported
Facility Id :	19320186
AWP Activities Code :	1.00000
DTSC Site Activity Code :	DISC
Activity Code Def:	DISCOVERY
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	10101982
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19320186
AWP Activities Code :	2.00000
DTSC Site Activity Code :	DISC
Activity Code Def:	DISCOVERY
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	09291983
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19320186
AWP Activities Code :	3.00000
DTSC Site Activity Code :	PA
Activity Code Def:	Not reported
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	05011984
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported

THATCHER GLASS MANUFACTURING COMPANY (Continued) **S100714325**

Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19320186
AWP Activities Code :	4.00000
DTSC Site Activity Code :	SS
Activity Code Def:	Not reported
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	12011987
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19320186
AWP Activities Code :	6.00000
DTSC Site Activity Code :	ORDER
Activity Code Def:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Activity Id :	VCA
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	09041997
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19320186
AWP Activities Code :	7.00000
DTSC Site Activity Code :	PEA
Activity Code Def:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Activity Id :	PEAE
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	01252002
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Special Program Code:	R3012
Special Program :	RCRA 3012

THATCHER GLASS MANUFACTURING COMPANY (Continued) **S100714325**

Comments Date : 01011985
Comments : This is the date the site was first listed AWP pursuant to Section 25356.
ON CORTESE LIST
DHS received EPA Federal Investigation Team's Screening Site Inspection - EPA recommends Listing Site Inspection (03/15/90). Site is a RCRA lead.
FINAL STRATEGY SITE REFERRED: TO SCS
DTSC reviewed and approved PEA equivalent Report. Based on the data submitted, DTSC determined that No Further Action is necessary with respect to investigation and remediation of hazardous substances in the soil at the Site.
INSPECTION(STATE) CO ENGR. UNSATISFACTORY RAINWATER DIVRSN
WARN AGAIN OF OIL/WATER COOLANT RELIEASE
DTSC amended the VCA to include the expansion of the scope of work.
INSPECTION(STATE) CO ENGR. NEW COOLING TOWER INSTALLED.
RETURN TO UWE CR. NOTIFIED OF VIO.
DTSC and RP signed a VCA Amendment to continue work after Chapter 6.8.
INSPECTION(STATE) CO ENGR. APPROVAL FOR DISCH OF WALT BRIN TO SEWER.
ENFORCEMENT(OTHER) CO ENGR. VIO OF IW. EFFLUENT,BORON CONTN
INSPECTION(STATE) CO ENGR. WHITE LIQ DISCH.
INSPECTION(STATE) CO ENGR. STORAGE OF SLUDGE ON SITE.
INSPECTION(STATE) CO ENGR. EFFLUENT RELEASE-EXCESS BORON.
RELEASE OF SOLUABLE OIL,WATER.
INSPECTION(STATE) CO ENGR. SOLUBLE OIL DISCH.
INSPECTION(STATE) CO ENGR. 3 WASTE-DISCH TO GROUND.
OWNER: UNTIL 1982 THATCHER GLASS CORP - SUBSIDIARY OF DART INDUSTRIES
FAC TYPE: T/C WITH M SULLIVAN, ENVR, (805)259-4400, 5/4/84 - 1 RECIRCULATION POND FOR OIL, 2 PONDS FOR WATER CONTAINING CR, SLUDEGE POND, BAGHOUSE.
PERMIT: 7/12/54 SPECIAL COND'N #1229.
3/12/79 NPDES, PERMIT, ORDER NO. 79-51.
HAZ WASTE - RELATED PROBLEM - 1)DISCH OF COOLING WATER & REGENERATION SALT RINES TO GROUND & DRY WELLS. 2) DISCH OF SOLUBLE OILS (20 BBL/M) FROM 1957-65 ON SITE SMALL QUANTITY DISCHARGE THROUGHOUT THE 1970'S. 3) DISCH OF CAUSTIC RINSE WATER (1500 LB/M IN 1957). 4) PROBLEM WITH PCB SINCE 1980.
SOURCE ACTIV: USE SAND, SADA ASH, LIME STONE FOR GLASS MFG PROD BOTTLES
YR OF OPER: 1956 TO PRESENT
ENF HISTORY: 1980 ONGOING INVEST BY CO SANIT FOR PCBS FROM COMPRESSOR BLOWDOWN WASTEWATER. NOT RESOLVED YET. ABOUT 10 INSP, 3 VIOS, 5 INCIDENTS FORM 5/5/84 TO 12/15/84.
SUBMIT TO EPA
PRELIM ASSESS DONE RCRA 3012
Records Search: Site is a BEP RCRA lead site.

THATCHER GLASS MANUFACTURING COMPANY (Continued) **S100714325**

FACILITY DRIVE-BY VAST COMPLEX W/METAL BLDGS ADJ TO RR
TRACKS. UNABLE TO ADQ VIEW.
INSPECTION(STATE) CO ENGR. VIO. IWD CAUSTIC.
DTSC received the signed Amendment to the VCA.
Not reported
INSPECTION(STATE) CO ENGR. USE HYDRATED LIME TO NEUTRALIZ
EXHAUST GASES OF SMOG ARESTOR. HAULED TO
CITY DUMP AFTER DRYING-I T/M.
ENFORCEMENT(OTHER) CO ENGR. SOLID WASTE DISP SUMMARY. SPRED
OIL WASTES ON PROPERTY.
ENFORCEMENT(OTHER) CO ENGR. NOV-DISCH OF WASTE TO RIVER.
EPA Region IX conducted Site Inspection Prioritization. The
decision reached was 'Further Assessment Needed Under CERCLA
Lower Priority Expanded Site Investigation.'
INSPECTION(STATE) CO ENGR. IDENTIFIES LIQ IW. CR CONTMN.
INSPECTION(STATE) CO ENGR. 2 DISP SUMPS.
Draft Preliminary Assessment submitted to USEPA>
INSPECTION(STATE) CO ENGR. NO LONGER USE OF CR. SUMP #1-
DRY-3000LB/M TO CITY DUMP.
DTSC completed the review of the supplemental information for
the PEA Equivalent Report. Based on the provided information
DTSC could not concur with no further action recommendations
for the site and issued review comments regarding the
supplemental information.
DTSC received a revised PEA with supplemental data addressing
groundwater issues.
INSPECTION(STATE) CO ENGR. PCBS RELEASE-COMPRESSOR BLOWDOW
Draft Preliminary Assessment submitted to USEPA.
ENFORCEMENT(OTHER) LAFCD. RECOM NO DISCH G-WATER WELLS
INSPECTION(STATE) CO ENGR. CONTSRUCTION OF DRAINAGE CONNCT
TO LA PLACERITA CREEK.
INSPECTION(STATE) CO ENGR. PHOSPHATE INHIBITOR USED FOR
COMPRESSOR COOLING WATER.
ENFORCEMENT(OTHER) RWQCB. NOTYFY COMPLI W. REG/ FILE #52-93
PERMIT #1229.
INSPECTION(STATE) CO ENGR. SEWER DICH. CAUSTIC RINSE WATER
FROM BOTTLE WASHING COOLING TOWER.
DTSC and Thatcher Glass signed a Voluntary Cleanup Agreement
providing for DTSC review of a Preliminary Endangerment
Assessment (equivalent).
INSPECTION(STATE) CO ENGR. CAUSTIC WASTEWATER DISCH TO UN-
LINED FENCED SUMP.
DTSC received draft response to DTSC comments.
INSPECTION(STATE) CO NEGR. OVERFLOW OF CEMENT RESERVOIR-
OILY DISCH.
FACILITY IDENTIFIED ID FROM ERRIS
INSPECTION(STATE) CO ENGR. WATER CONTINUING TO BE REMOVED
BY PUMPING SERVICE.
INSPECTION(STATE) CO ENGR. SOLUTN PROPOSD FOR LEAKS.
FACILITY IDENTIFIED ID FROM DWR DISCHARGE MAPS.
INSPECTION(STATE) CO ENGR. OBSERVED EFFLUENT RELEASE-ON
SPRING RD. CAUSED BY A BROKEN RECIRCULTN
PUMP.
DTSC completed the review of the draft response and provided
comments to the RP. The RP will finalize response.
Not reported

THATCHER GLASS MANUFACTURING COMPANY (Continued) **S100714325**

INSPECTION(STATE) CO ENGR. DICH OF REGENERATION BRINES TO
GROUND FORM EMS WATER SOFTNER.
DTSC received draft response to DTSC comments.
Not reported
REPORTED FOR PROP65
SITE SCREENING DONE SITE ON EXPENDITURE PLAN LIST
DTSC sent letters to the RP with Amendment to the existing
VCA to facilitate the continued work at the site because
of Chapter 6.8.
INSPECTION(STATE) CO ENGR. BOTTLE WASHING OPER NOT USED
IN PAST 2 YREAS.
DTSC completed the review of Risk Screening Evaluation ratio
of the PEA and provided comments to the RP.
Not reported
DTSC sent letters to the RP with Amendment to the existing
VCA to facilitate the continued work at the site because
of Chapter 6.8.
Not reported
INSPECTION(STATE) CO ENGR. SLUDGE GENERATION FROM SMOG
ARRESTER-1000LB/M. STOREGA OF OIL SILICN
WASTE FORM GRAVITY INTECEPTER.

BB349
SSW
> 1
7763 ft.

Relative:
Lower

Actual:
1185 ft.

25655 SPRINGBROOK **ERNS** **8862774**
25655 SPRINGBROOK **N/A**
SAUGUS, CA

Site 9 of 14 in cluster BB

Click this hyperlink while viewing on your computer to access
additional ERNS detail in the EDR Site Report.

BB350
SSW
> 1
7763 ft.

Relative:
Lower

Actual:
1185 ft.

MARATHON INDUSTRIES INC **HAZNET** **S104578473**
25655 SPRINGBROOK AVE **N/A**
SANTA CLARITA, CA 91360

Site 10 of 14 in cluster BB

HAZNET:

Gepaid:	CAL000123235
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0000
Waste Category:	
Disposal Method:	Treatment, Incineration
Contact:	MARATHON INDUSTRIES INC
Telephone:	(805) 286-1520
Mailing Address:	PO BOX 800279
	SANTA CLARITA, CA 91380 - 2520
County	Los Angeles

MARATHON INDUSTRIES INC (Continued) **S104578473**

Gepaid:	CAL000123235
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.7800
Waste Category:	Other organic solids
Disposal Method:	Treatment, Incineration
Contact:	MARATHON INDUSTRIES INC
Telephone:	(805) 286-1520
Mailing Address:	PO BOX 800279
	SANTA CLARITA, CA 91380 - 2520
County	Los Angeles

Gepaid:	CAL000123235
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2000
Waste Category:	Other organic solids
Disposal Method:	Not reported
Contact:	MARATHON INDUSTRIES INC
Telephone:	(805) 286-1520
Mailing Address:	PO BOX 800279
	SANTA CLARITA, CA 91380 - 2520
County	Los Angeles

Gepaid:	CAL000123235
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.3336
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Contact:	MARATHON INDUSTRIES INC
Telephone:	(805) 286-1520
Mailing Address:	PO BOX 800279
	SANTA CLARITA, CA 91380 - 2520
County	Los Angeles

Gepaid:	CAL000123235
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2250
Waste Category:	***
Disposal Method:	Treatment, Incineration
Contact:	MARATHON INDUSTRIES INC
Telephone:	(805) 286-1520
Mailing Address:	PO BOX 800279
	SANTA CLARITA, CA 91380 - 2520
County	Los Angeles

Click this hyperlink while viewing on your computer to access 25 additional CA HAZNET record(s) in the EDR Site Report.

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
BB351 **SSW** **> 1** **7763 ft.**	**MIKE FENNEL ENT** **25655 SPRINGBROOK AVE** **SAUGUS, CA 91350**	**HAZNET**	**S103977633** **N/A**

Site 11 of 14 in cluster BB

Relative:
Lower

Actual:
1185 ft.

HAZNET:

Gepaid:	CAL000036711
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0542
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	MIKE FENNEL
Telephone:	(805) 254-5606
Mailing Address:	25655 SPRINGBROOK AVE STE 9 SANTA CLARITA, CA 91350
County	Los Angeles

Gepaid:	CAL000036711
TSD EPA ID:	CAD008302903
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2293
Waste Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	Recycler
Contact:	MIKE FENNEL
Telephone:	(805) 254-5606
Mailing Address:	25655 SPRINGBROOK AVE STE 9 SANTA CLARITA, CA 91350
County	Los Angeles

Gepaid:	CAL000036711
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.1876
Waste Category:	Unspecified solvent mixture Waste
Disposal Method:	Recycler
Contact:	MIKE FENNEL
Telephone:	(805) 254-5606
Mailing Address:	25655 SPRINGBROOK AVE STE 9 SANTA CLARITA, CA 91350
County	Los Angeles

Gepaid:	CAL000036711
TSD EPA ID:	CAD008302903
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.7214
Waste Category:	Paint sludge
Disposal Method:	Recycler
Contact:	MIKE FENNEL
Telephone:	(805) 254-5606
Mailing Address:	25655 SPRINGBROOK AVE STE 9 SANTA CLARITA, CA 91350
County	Los Angeles

MIKE FENNEL ENT (Continued) **S103977633**

Gepaid: CAL000036711
TSD EPA ID: CAD008302903
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Paint sludge
Disposal Method: Recycler
Contact: MIKE FENNEL
Telephone: (805) 254-5606
Mailing Address: 25655 SPRINGBROOK AVE STE 9
SANTA CLARITA, CA 91350
County Los Angeles

Click this hyperlink while viewing on your computer to access
3 additional CA HAZNET record(s) in the EDR Site Report.

BB352 **REXHALL INDUSTRIES INCORPORATED** **CERCLIS** **1000396628**
SSW **25655 SPRINGBROOK AVE. BLDG. 1** **RCRIS-SQG** **CAD044398956**
> 1 **SAUGUS, CA 91350** **FINDS**
7763 ft.

Site 12 of 14 in cluster BB

Relative: Lower

Actual: 1185 ft.

CERCLIS Classification Data:
Site Incident Categor Not reported — Federal Facility: Not a Federal Facility
Non NPL Status: Other Cleanup Activity: State-Lead Cleanup
Ownership Status: Private — NPL Status: Not on the NPL
Contact: Betsy Curnow — Contact Tel: (415) 972-3093
Contact Title: Not reported
Contact: Jere Johnson — Contact Tel: (415) 972-3094
Contact Title: Not reported

CERCLIS Assessment History:

Assessment:	DISCOVERY	Completed:	08/01/1980
Assessment:	PRELIMINARY ASSESSMENT	Completed:	05/01/1985
Assessment:	PRELIMINARY ASSESSMENT	Completed:	12/29/1988
Assessment:	SITE INSPECTION	Completed:	03/30/1990

CERCLIS Site Status:
Low

CERCLIS Alias Name(s):
DART INDUSTRIES INC

RCRIS:
Owner: DART INDUSTRIES INC
(805) 259-4400
EPA ID: CAD044398956

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: 262.10-12.A
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 06/20/1985
Actual Date Achieved Compliance: 07/10/1986

Regulation Violated: 262.10-12.A
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 05/18/1984
Actual Date Achieved Compliance: 07/10/1986

REXHALL INDUSTRIES INCORPORATED (Continued) **1000396628**

There are 2 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Comperhensive Environmental Response, Compensation and Liability Information System (CERCLIS)
National Compliance Database (NCDB)
Resource Conservation and Recovery Act Information system (RCRAINFO)
Toxic Chemical Release Inventory System (TRIS)

BB353
SSW
> 1
7763 ft.

RAINBOW COSMETIC LAB UNIT #8
25655 SPRINGBROOK AVE #16
SANTA CLARITA, CA

LOS ANGELES CO. HMS **U003058140**
N/A

Site 13 of 14 in cluster BB

Relative:
Lower

Actual:
1185 ft.

HMS:
Facility Id: 001739-I08464
Area: 7A
Facility Type: I02
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

BB354
SSW
> 1
7763 ft.

RUSS KALVINS HAIR CARE
25655 SPRINGBROOK AVE #16
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S104538409**
N/A

Site 14 of 14 in cluster BB

Relative:
Lower

Actual:
1185 ft.

HMS:
Facility Id: 001739-I08847
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

BC355
WSW
> 1
7785 ft.

APPLEBEE'S GRILL AND BAR
23626 W VALENCIA BLVD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S102064203**
N/A

Site 1 of 9 in cluster BC

Relative:
Lower

Actual:
1151 ft.

HMS:
Facility Id: 016827-022485
Area: 7A
Facility Type: I02
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
BC356 **WSW** **> 1** **7808 ft.** **Relative:** **Lower** **Actual:** **1151 ft.**	**COAL MINER** **23630 W VALENCIA BLVD #H** **SANTA CLARITA, CA** **Site 2 of 9 in cluster BC** HMS: Facility Id: 016877-034849 Area: 7A Facility Type: Not reported Permit Number: 174 — Permit Status: Not reported Facility Status: OPEN Region: Los Angeles County:	**LOS ANGELES CO. HMS**	**S104828054** **N/A**
BC357 **WSW** **> 1** **7808 ft.** **Relative:** **Lower** **Actual:** **1151 ft.**	**SUSHI AI INC** **23630 W VALENCIA BLVD #H** **SANTA CLARITA, CA** **Site 3 of 9 in cluster BC** HMS: Facility Id: 016877-037834 Area: 7A Facility Type: I01 Permit Number: 174 — Permit Status: Permit Facility Status: Permit Region: Los Angeles County:	**LOS ANGELES CO. HMS**	**S105570345** **N/A**
BC358 **WSW** **> 1** **7808 ft.** **Relative:** **Lower** **Actual:** **1151 ft.**	**LOUISE'S TRATTORIA** **23630 W VALENCIA BLVD #H** **SANTA CLARITA, CA** **Site 4 of 9 in cluster BC** HMS: Facility Id: 016877-022592 Area: 7A Facility Type: I01 Permit Number: 174 — Permit Status: Closed Facility Status: Closed Region: Los Angeles County:	**LOS ANGELES CO. HMS**	**S102064205** **N/A**
359 **ESE** **> 1** **7818 ft.** **Relative:** **Higher** **Actual:** **1329 ft.**	**INSPECTORS PAINT & BODY** **26516 GOLDEN VALLEY RD 310** **SANTA CLARITA, CA** HMS: Facility Id: 008871-I16496 Area: 7A Facility Type: I01 Permit Number: 174 — Permit Status: Closed Facility Status: Closed Region: Los Angeles County:	**LOS ANGELES CO. HMS**	**U003064484** **N/A**

360 NNW > 1 7824 ft. — **WM S HART USD ARROYO SECO JUNIOR HS**, **27171 N VISTA DELGADO DR**, **VALENCIA, CA 91355** — **RCRIS-SQG, FINDS, HAZNET** — **1000374908, CAD981623812**

Relative: Higher

Actual: 1243 ft.

RCRIS:
Owner: NOT REQUIRED
(415) 555-1212
EPA ID: CAD981623812
Contact: Not reported
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAD981623812
TSD EPA ID: CAT000613976
Gen County: Los Angeles
Tsd County: Orange
Tons: .0625
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Transfer Station
Contact: WM. S. HART UNION HS DISTRICT
Telephone: (805) 259-0033
Mailing Address: 21515 REDVIEW DR
SANTA CLARITA, CA 91350 - 2947
County Los Angeles

Gepaid: CAD981623812
TSD EPA ID: AZR000005454
Gen County: Los Angeles
Tsd County: 99
Tons: 2.3053
Waste Category: Polychlorinated biphenyls and material containing PCB's
Disposal Method: Recycler
Contact: WM. S. HART UNION HS DISTRICT
Telephone: (805) 259-0033
Mailing Address: 21515 REDVIEW DR
SANTA CLARITA, CA 91350 - 2947
County Los Angeles

Gepaid: CAD981623812
TSD EPA ID: CAD008364432
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0500
Waste Category: Unspecified oil-containing waste
Disposal Method: Disposal, Land Fill
Contact: WM. S. HART UNION HS DISTRICT
Telephone: (805) 259-0033
Mailing Address: 21515 REDVIEW DR
SANTA CLARITA, CA 91350 - 2947
County Los Angeles

WM S HART USD ARROYO SECO JUNIOR HS (Continued) **1000374908**

Gepaid:	CAD981623812
TSD EPA ID:	CAD008364432
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0500
Waste Category:	Other organic solids
Disposal Method:	Disposal, Land Fill
Contact:	WM. S. HART UNION HS DISTRICT
Telephone:	(805) 259-0033
Mailing Address:	21515 REDVIEW DR SANTA CLARITA, CA 91350 - 2947
County	Los Angeles

Gepaid:	CAD981623812
TSD EPA ID:	CAD008364432
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0100
Waste Category:	Laboratory waste chemicals
Disposal Method:	Treatment, Tank
Contact:	WM. S. HART UNION HS DISTRICT
Telephone:	(805) 259-0033
Mailing Address:	21515 REDVIEW DR SANTA CLARITA, CA 91350 - 2947
County	Los Angeles

Click this hyperlink while viewing on your computer to access 12 additional CA HAZNET record(s) in the EDR Site Report.

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361 WNW > 1 7847 ft. **BRIDGEPORT ELEMENTARY SCHOOL**
GRANDVIEW DRIVE/NEWHALL RANCH ROAD
SANTA CLARITA, CA 91350

SCH S104384573
N/A

Relative: Lower

Actual: 1144 ft.

SCH:

Facility ID	19010001
Dtsc Region Code :	3
Region Code Definition :	GLENDALE
County Code :	19
Site Name Under :	BRIDGEPORT ELEMENTARY SCHOOL
Current Status Date :	06222000
Current Status Code :	NFA
Current Status :	NO FURTHER ACTION FOR DTSC
Lead Agency Code :	DTSC
Lead Agency :	DEPT OF TOXIC SUBSTANCES CONTROL
Site Type Code :	PSCHL
Site Type :	PROPOSED SCHOOL SITE PROPERTY
National Priorities List :	Not reported
Tier :	Not reported
Source Of Funding Code :	Not reported
Staff Member :	KCHIANG
Supervisor :	Not reported
Sic Code :	01
Sic Code Definition :	AGRICULTURAL PRODUCTION - CROPS
Site Mitigatn & Brnflds Reuse Prog (SMBR) Code :	SE
SMBR Branch :	SCHOOL EVALUATION
Regional Water Quality Control Board :	Not reported
RWQCB Definition :	Not reported
Site Access Controlled :	Not reported

BRIDGEPORT ELEMENTARY SCHOOL (Continued) **S104384573**

Listed In Haz Wst & Substncs Sites List (CORTESE):	Not reported
Date Hazard Ranked :	Not reported
GW Contamination Suspected :	Not reported
# Of Sources Contributing To Contamination :	0.00000
Lat/Long :	0.00000° 0.00000′ 0.00000″ / 0.00000° 0.00000′ 0.00000″
Direction Lat :	Not reported
Direction Long :	Not reported
Lat/long Method :	Not reported
Entity Lat/long Coordinates Refer To :	Not reported
State Assembly Distt Code :	36
State Senate Distt Code :	17
Identifying Code:	CSTAR
ID Value:	304012-11 CDE
Other ID Desc:	CALSTARS CODE
Identifying Code:	CSTAR
ID Value:	304014-11 VCA
Other ID Desc:	CALSTARS CODE
Alternate Name(s):	SAUGUS UNION SCHOOL DISTRICT
Alternate Name(s):	BRIDGEPORT ELEMENTARY SCHOOL
Address(es) :	GRANDVIEW DRIVE/NEWHALL RANCH ROAD SANTA CLARITA, CA 91350
Background Info :	The Site consists of approximately seven acres located at the
Background Info :	southeastern intersection of Grandview Drive and Newhall Ranch
Background Info :	Road, adjacent to and north of the Santa Clara River. The Site
Background Info :	consists of vacant graded land. The land adjacent to the Site
Background Info :	is residential to the north, east and west, with a riverbed to
Background Info :	the south. The Site has been used for agricultural purposes
Background Info :	since the 1920s. An unregulated landfill was reportedly present
Background Info :	on the southwest portion of the Site from about 1950 to 1966.
Background Info :	The landfill was believed to be used for household wastes. Oil
Background Info :	wells have been in operation approximately 300 feet to the north
Background Info :	northwest and approximately 60 feet south of the Site.
Facility Id :	19010001
AWP Activities Code :	1.00000
DTSC Site Activity Code :	ORDER
Activity Code Def:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Activity Id :	VCA
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	01242000
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deltd Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19010001
AWP Activities Code :	2.00000
DTSC Site Activity Code :	PEA
Activity Code Def:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Activity Id :	VCA
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	06222000
Est # Of Person-years To Complete :	0.00000

BRIDGEPORT ELEMENTARY SCHOOL (Continued) **S104384573**

Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deltd Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19010001
AWP Activities Code :	3.00000
DTSC Site Activity Code :	PHSE1
Activity Code Def:	PHASE 1 - CALMORTGAGE AND SCHOOL SITE PROPERTIES
AWP Activity Id :	PSCHL
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	01192000
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deltd Via Commitmnt/Completns Screen :	Not reported
Special Program Code:	Not reported
Special Program :	Not reported
Comments Date :	01192000

Comments :
Phase 1 - Pursuant to an agreement between the Department of Toxi Substances Control (DTSC) and the California Department of Education, DTSC's Site Mitigation Program completed a review of a Phase 1 Environmental Assessment and has determined that a Preliminary Endangerment Assessment is required. The PEA will be Conducted under DTSC's oversight pursuant to agreements between DTSC and the pertinent school district. Any subsequent cleanup Activities (if needed) after the PEA would be conducted pursuant to agreements between DTSC and the School District.
DTSC entered into a Voluntary Cleanup Agreement (Docket Number HSA-A 99/00-057) with the Saugus Union School District to provide oversight for a Preliminary Endangerment Assessment for the proposed Bridgeport Elementary School site.
DTSC approved the Preliminary Endangerment Assessment (PEA). Based on the information presented in the PEA, neither an actual or a potential release of hazardous material, nor the presence of naturally occurring hazardous material indicated at the site pose a threat to human health or the environment under any land use. Therefore, DTSC concurred that no further environmental investigation or cleanup was required at this site, and approved the PEA.

362
East
> 1
7880 ft.

SOLEDAD CANYON/REUTHER
SANTA CLARITA, CA

CHMIRS **S100278980**
N/A

Relative:
Higher

Actual:
1277 ft.

CHMIRS:

OES Control Number:	8802950
Chemical Name:	Not reported
Extent of Release:	Not reported
Property Use:	County/City Road
Incident Date:	19-SEP-88

(Continued) **S100278980**

Date Completed:	19-SEP-88
Time Completed :	1258
Agency Id Number :	19110
Agency Incident Number :	0A-27
OES Incident Number :	8802950
Time Notified :	1058
Surrounding Area :	500
Estimated Temperature :	80
Property Management :	K
More Than Two Substances Involved? :	N
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	Not reported
Responding Agency Personel # Of Fatalities :	Not reported
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	CAPT. LYNN MOHR(HM-76)
Report Date :	19-SEP-88
Comments :	Yes
Facility Telephone Number :	213 267-2485
Waterway Involved :	Not reported
Waterway :	Not reported
Spill Site :	Not reported
Cleanup By :	Not reported
Containment :	Not reported
What Happened :	Not reported
Type :	Not reported
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	Not reported
Evacuations :	Not reported

BC363 **SATURN OF SANTA CLARITA** **LOS ANGELES CO. HMS** **S102229765**
WSW **23647 VALENCIA BLVD** **N/A**
> 1 **SANTA CLARITA, CA**
7937 ft.

Site 5 of 9 in cluster BC

Relative:
Lower

Actual:
1152 ft.

HMS:

Facility Id:	017413-023660		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

BC364
WSW
> 1
7951 ft.

Relative:
Lower

Actual:
1152 ft.

VINCE WIESE CHEVROLET, INC.
23649 VALENCIA BLVD
VALENCIA, CA 91355

HIST UST — **U001567879**
N/A

Site 6 of 9 in cluster BC

UST HIST:

Facility ID:	34156	Owner Name:	VINCE WIESE CHEVROLET, INC.
Total Tanks:	1	Region:	STATE
Owner Address:	23649 VALENCIA BLVD. VALENCIA, CA 91355		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00003000	Year Installed:	Not reported
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	Visual, Stock Inventor		
Contact Name:	Not reported	Telephone:	(805) 259-2820
Facility Type:	Other	Other Type:	AUTO DEALERSHIP

BC365
WSW
> 1
7951 ft.

Relative:
Lower

Actual:
1152 ft.

TERRY YORK CHEVROLET INC
23649 VALENCIA BLVD
SANTA CLARITA, CA

LOS ANGELES CO. HMS — **S104538554**
N/A

Site 7 of 9 in cluster BC

HMS:

Facility Id:	003480-003599		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

BC366
WSW
> 1
7951 ft.

Relative:
Lower

Actual:
1152 ft.

SCOTT IRVIN CHEVROLET
23649 VALENCIA BLVD
VALENCIA, CA 91355

RCRIS-SQG — **1000421401**
FINDS — **CAD982058893**
LUST
Cortese
CA FID UST
LOS ANGELES CO. HMS
HIST UST

Site 8 of 9 in cluster BC

RCRIS:

Owner: SCOTT IRVIN
(415) 555-1212
EPA ID: CAD982058893

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

State LUST:

Cross Street:	CREEKSIDE
Qty Leaked:	0
Case Number	I-03599
Reg Board:	4

SCOTT IRVIN CHEVROLET (Continued) **1000421401**

Chemical: Waste Oil
Lead Agency: Local Agency
Local Agency : 19000
Case Type: Soil only
Status: Case Closed
Review Date: Not reported
Workplan: 11/4/91 0:00
Pollution Char: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: 4/3/95 0:00
Release Date: 11/04/1991
Cleanup Fund Id : Not reported
Discover Date : 08/20/1991
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 12/20/91 0:00
Funding: Not reported
Staff Initials: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Interim : Not reported
Leak Cause: UNK
Leak Source: UNK
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Not Required to be Tested.
Priority: Not reported
Local Case # : 0
Beneficial: Not reported
Staff : UNK
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SANTA CLARA RIVER VA
Operator : IRWIN, SCOTT
Oversight Prgm: LUST
Review Date : 11/22/91 0:00
Stop Date : 08/20/1991
Work Suspended :Not reported
Responsible PartySCOTT IRWINE CHEVROLET
RP Address: Not reported
Global Id: T0603702927
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

Confirm Leak: Not reported
Prelim Assess: 11/4/91 0:00
Remed Plan: Not reported

LUST Region 4:
Report Date: 11/04/1991
Lead Agency: Local Agency
Local Agency: 19000
Substance: Waste Oil

SCOTT IRVIN CHEVROLET (Continued) **1000421401**

Case Type: Soil
Status: Case Closed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 11/22/91
Date Leak Record Entered: 12/20/91
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : Not reported
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: SCOTT IRWINE CHEVROLET
RP Address: Not reported
Significant Interim Remedial Action Taken: Not reported
Program : LUST
Lat / Long : 34 / -119
Local Agency Staff: Not reported
Summary : OLD CASE #123191-07
Hydrologic Basin # : SANTA CLARA RIVER VA
Beneficial Use : Not reported
Priority : Not reported
Cleanup Fund Id : Not reported
Suspended : Not reported
Local Case No : Not reported
Substance Quantity : 0
Abatement Method Used at the Site: Not reported
Operator : IRWIN, SCOTT
Water System : Not reported
Well Name : Not reported
Approx. Dist To Production Well (ft) : 560.7318465
Assigned Name : Not reported
Source of Cleanup Funding: Not reported
Date the Leak was Discovered: 08/20/1991
How the Leak was Discovered: Tank Closure
How the Leak was Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Date The Leak was Stopped: 8/20/91
Date Confirmation Leak Began: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 11/4/91
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Date the Case was Closed: 4/3/95
Enforcement Action Date: Not reported
Date Leak First Reported: 11/04/1991
Enforcement Type: Not reported
Global ID : T0603702927
Cross Street: CREEKSIDE

CORTESE:
Region: CORTESE

SCOTT IRVIN CHEVROLET (Continued) **1000421401**

Fac Address 2: 23649 VALENCIA BLVD W

FID:

Facility ID:	19003351	Regulate ID:	00034156
Reg By:	Active Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Active	Facility Tel:	(805) 259-2820
Mail To:	Not reported 23649 W VALENCIA BLVD VALENCIA, CA 91355		
Contact:	Not reported	Contact Tel:	Not reported
DUNs No:	Not reported	NPDES No:	Not reported
Creation:	10/22/93	Modified:	00/00/00
EPA ID:	Not reported		
Comments:	Not reported		

HMS:

Facility Id:	003480-I03599		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

UST HIST:

Facility ID:	64322	Owner Name:	SCOTT IRVIN CHEVROLET
Total Tanks:	2	Region:	STATE
Owner Address:	23649 VALENCIA BLVD. VALENCIA, CA 91355		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00003000	Year Installed:	Not reported
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	SCOTT IRVIN	Telephone:	(805) 259-2820
Facility Type:	Other	Other Type:	FRANCHISED AUTO DEAL

Facility ID:	64322	Owner Name:	SCOTT IRVIN CHEVROLET
Total Tanks:	2	Region:	STATE
Owner Address:	23649 VALENCIA BLVD. VALENCIA, CA 91355		
Tank Used for:	WASTE		
Tank Num:	2	Container Num:	2
Tank Capacity:	00001000	Year Installed:	Not reported
Type of Fuel:	WASTE OIL	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	SCOTT IRVIN	Telephone:	(805) 259-2820
Facility Type:	Other	Other Type:	FRANCHISED AUTO DEAL

BC367
WSW
> 1
7951 ft.

POWER CHEVROLET VALENCIA
23649 VALENCIA BLVD
VALENCIA, CA 91355

HAZNET S103644728
LOS ANGELES CO. HMS N/A

Site 9 of 9 in cluster BC

Relative:
Lower

Actual:
1152 ft.

POWER CHEVROLET VALENCIA (Continued) **S103644728**

HAZNET:

Gepaid:	CAD982058893
TSD EPA ID:	CAD982444481
Gen County:	Los Angeles
Tsd County:	San Bernardino
Tons:	1.1010
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Transfer Station
Contact:	TERRY YORK CHEVROLET
Telephone:	(805) 259-2820
Mailing Address:	23649 VALENCIA BLVD VALENCIA, CA 91355 - 1705
County	Los Angeles

Gepaid:	CAD982058893
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2293
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	TERRY YORK CHEVROLET
Telephone:	(805) 259-2820
Mailing Address:	23649 VALENCIA BLVD VALENCIA, CA 91355 - 1705
County	Los Angeles

Gepaid:	CAD982058893
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.45
Waste Category:	Oil/water separation sludge
Disposal Method:	Transfer Station
Contact:	MCADAM LEROY
Telephone:	(805) 259-2820
Mailing Address:	23649 VALENCIA BLVD VALENCIA, CA 91355 - 1705
County	Not reported

Gepaid:	CAD982058893
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.04
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Not reported
Contact:	MCADAM LEROY
Telephone:	(805) 259-2820
Mailing Address:	23649 VALENCIA BLVD VALENCIA, CA 91355 - 1705
County	Not reported

POWER CHEVROLET VALENCIA (Continued) **S103644728**

Gepaid: CAD982058893
TSD EPA ID: CAD982444481
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: .2919
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Transfer Station
Contact: TERRY YORK CHEVROLET
Telephone: (805) 259-2820
Mailing Address: 23649 VALENCIA BLVD
VALENCIA, CA 91355 - 1705
County Los Angeles

Click this hyperlink while viewing on your computer to access
4 additional CA HAZNET record(s) in the EDR Site Report.

HMS:
Facility Id: 003480-020607
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

BD368 **INSPECTOR'S PAINT & BODY** **HAZNET** **S103647889**
ESE **26516 GOLDEN VALLEY RD #209** **N/A**
> 1 **CANYON COUNTRY, CA 91350**
7980 ft.

Site 1 of 14 in cluster BD

Relative: Higher

Actual: 1342 ft.

HAZNET:
Gepaid: CAL000044888
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .5086
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Contact: INDERBITZIN TONY
Telephone: (000) 000-0000
Mailing Address: 26516 GOLDEN VALLEY RD #310
SANTA-CLARITA, CA 91350
County Los Angeles

Gepaid: CAL000044888
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .5003
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Contact: INDERBITZIN TONY
Telephone: (000) 000-0000
Mailing Address: 26516 GOLDEN VALLEY RD #310
SANTA-CLARITA, CA 91350
County Los Angeles

INSPECTOR'S PAINT & BODY (Continued) **S103647889**

Gepaid: CAL000044888
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0667
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Contact: INDERBITZIN TONY
Telephone: (000) 000-0000
Mailing Address: 26516 GOLDEN VALLEY RD #310
SANTA-CLARITA, CA 91350
County Los Angeles

Gepaid: CAL000044888
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.4503
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Contact: INDERBITZIN TONY
Telephone: (000) 000-0000
Mailing Address: 26516 GOLDEN VALLEY RD #310
SANTA-CLARITA, CA 91350
County Los Angeles

Gepaid: CAL000044888
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3127
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Contact: INDERBITZIN TONY
Telephone: (000) 000-0000
Mailing Address: 26516 GOLDEN VALLEY RD #310
SANTA-CLARITA, CA 91350
County Los Angeles

BE369 **SO PACIFIC MILLING CO** **LOS ANGELES CO. HMS** **U003059732**
East **20735 W SANTA CLARA ST** **N/A**
> 1 **SANTA CLARITA, CA**
7985 ft.

Site 1 of 10 in cluster BE

Relative:
Higher

HMS:
Facility Id: 003454-I03573
Actual: Area: 7A
1279 ft. Facility Type: I00
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BE370 East > 1 7985 ft.	**INDUSTRIAL ASPHALT CO** **20735 W SANTA CLARA ST** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**U003059733** **N/A**

Site 2 of 10 in cluster BE

Relative: Higher

Actual: 1279 ft.

HMS:

Facility Id:	003454-I04283		
Area:	7A		
Facility Type:	I00		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

BD371 ESE > 1 7994 ft.	**CLASSIC UPHOLSTERY** **26524 GOLDEN VALLEY RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103945437** **N/A**

Site 2 of 14 in cluster BD

Relative: Higher

Actual: 1342 ft.

HMS:

Facility Id:	019974-028500		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

BD372 ESE > 1 8000 ft.	**1X ANESCO MANUFACTURING PARTNERSHIP** **26502 GOLDEN VALLEY ROAD,#107** **SANTA CLARITA, CA 91350**	**HAZNET**	**S103647875** **N/A**

Site 3 of 14 in cluster BD

Relative: Higher

Actual: 1346 ft.

HAZNET:

Gepaid:	CAC000557696
TSD EPA ID:	CAD980883177
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.4378
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	ANESCO MFG PARTNERSHIP
Telephone:	(000) 000-0000
Mailing Address:	26502 GOLDEN VALLEY ROAD, STE SANTA CLARITA, CA 91350
County	Los Angeles

BD373 ESE > 1 8000 ft.	**KAR BODY & PAINT INC** **26502 GOLDEN VALLEY** **CANYON COUNTRY, CA 91351**	**HAZNET**	**S103973038** **N/A**

Site 4 of 14 in cluster BD

Relative: Higher

Actual: 1346 ft.

KAR BODY & PAINT INC (Continued) **S103973038**

HAZNET:

Gepaid:	CAL000178646
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0540
Waste Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	Transfer Station
Contact:	KAR BODY & PAINT INC
Telephone:	(805) 298-1046
Mailing Address:	26502 GOLDEN VALLEY RD SANTA CLARITA, CA 91350 - 2943
County	Los Angeles

Gepaid:	CAL000178646
TSD EPA ID:	CAD008302903
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2919
Waste Category:	Paint sludge
Disposal Method:	Recycler
Contact:	KAR BODY & PAINT INC
Telephone:	(805) 298-1046
Mailing Address:	26502 GOLDEN VALLEY RD SANTA CLARITA, CA 91350 - 2943
County	Los Angeles

Gepaid:	CAL000178646
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0180
Waste Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	Transfer Station
Contact:	KAR BODY & PAINT INC
Telephone:	(805) 298-1046
Mailing Address:	26502 GOLDEN VALLEY RD SANTA CLARITA, CA 91350 - 2943
County	Los Angeles

BD374 **PS INC** **HAZNET** **S103972794**
ESE **26502 GOLDEN VALLEY RD #105** **N/A**
> 1 **SAUGUS, CA 91350**
8000 ft.

Site 5 of 14 in cluster BD

Relative: Higher

Actual: 1346 ft.

HAZNET:

Gepaid:	CAC001356056
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2293
Waste Category:	Waste oil and mixed oil
Disposal Method:	Not reported
Contact:	PAUL SHAPIRO PRESIDENT
Telephone:	(805) 251-4241
Mailing Address:	26502 GOLDEN VALLEY RD #105 SAUGUS, CA 91350
County	Los Angeles

PS INC (Continued) **S103972794**

Gepaid: CAC001356056
TSD EPA ID: CAD008302903
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: PAUL SHAPIRO PRESIDENT
Telephone: (805) 251-4241
Mailing Address: 26502 GOLDEN VALLEY RD #105
SAUGUS, CA 91350
County Los Angeles

BD375 **SAUGUS TRANS YARD** **CA WDS** **S106103345**
ESE **26501 RUETHER AVE** **N/A**
> 1 **SANTA CLARITA, CA 91350**
8006 ft.

Site 6 of 14 in cluster BD

Relative: Higher

Actual: 1346 ft.

WDS:
Facility ID: 4 19I018145
Facility Contact Frank Gascich Facility Telephone (661) 297-8827
SIC Code: Not reported SIC Code 2: Not reported
Agency Name: SAUGUS UNION SCH DIST
Agency Address: 24930 Avenue Stanford
Valencia 91355 - 1272
Agency Contact: PIERE, HAROLD Agency Phone: (661) 294-7500
Design Flow: Not reported Baseline Flow: Not reported
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
Agency Type: ?
Waste Type: Not reported
Threat to Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.
Reclamation: Not reported
POTW: Not reported
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 4

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BD376 **ESE** **> 1** **8006 ft.**	**SAUGUS UNION SD TRANSPORTATION** **26501 GOLDEN VALLEY RD** **SANTA CLARITA, CA 91350**	**UST**	**U003777448** **N/A**

Site 7 of 14 in cluster BD

Relative: Higher

Actual: 1346 ft.

State UST:

Facility ID:	022108
Region:	STATE
Local Agency:	19000

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BD377 **ESE** **> 1** **8006 ft.**	**SAUGUS USD/TRANSPORTATION** **26501 GOLDEN VALLEY ROAD** **CANYON COUNTRY, CA 91351**	**HAZNET**	**S105090153** **N/A**

Site 8 of 14 in cluster BD

Relative: Higher

Actual: 1346 ft.

HAZNET:

Gepaid:	CAL000125215
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.9174
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	SAUGUS USD
Telephone:	(805) 297-8827
Mailing Address:	24930 AVENUE STANFORD VALENCIA, CA 91355 - 1272
County	Los Angeles

Gepaid:	CAL000125215
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0375
Waste Category:	Off-specification, aged, or surplus organics
Disposal Method:	Recycler
Contact:	SAUGUS USD
Telephone:	(805) 297-8827
Mailing Address:	24930 AVENUE STANFORD VALENCIA, CA 91355 - 1272
County	Los Angeles

Gepaid:	CAL000125215
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0625
Waste Category:	Unspecified solvent mixture Waste
Disposal Method:	Recycler
Contact:	SAUGUS USD
Telephone:	(805) 297-8827
Mailing Address:	24930 AVENUE STANFORD VALENCIA, CA 91355 - 1272
County	Los Angeles

SAUGUS USD/TRANSPORTATION (Continued) **S105090153**

Gepaid: CAL000125215
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 10.0080
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: SAUGUS USD
Telephone: (805) 297-8827
Mailing Address: 24930 AVENUE STANFORD
VALENCIA, CA 91355 - 1272
County Los Angeles

Gepaid: CAL000125215
TSD EPA ID: CAD097030993
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0875
Waste Category: Liquids with pH <UN-> 2
Disposal Method: Recycler
Contact: SAUGUS USD
Telephone: (805) 297-8827
Mailing Address: 24930 AVENUE STANFORD
VALENCIA, CA 91355 - 1272
County Los Angeles

Click this hyperlink while viewing on your computer to access
22 additional CA HAZNET record(s) in the EDR Site Report.

BD378
ESE
> 1
8006 ft.

SAUGUS UNION SD TRANSPORTATION **HAZNET** **S102685272**
26501 GOLDEN VALLEY RD **LOS ANGELES CO. HMS** **N/A**
SANTA CLARITA, CA

Relative:
Higher

Actual:
1346 ft.

Site 9 of 14 in cluster BD

HAZNET:
Gepaid: CAL000225971
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.33
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: JOSE RUIZ
Telephone: (661) 297-8600
Mailing Address: 26501 GOLDEN VALLEY RD
SAUGUS, CA 91350
County Not reported

Gepaid: CAL000225971
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.83
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: JOSE RUIZ
Telephone: (661) 297-8600
Mailing Address: 26501 GOLDEN VALLEY RD

SAUGUS UNION SD TRANSPORTATION (Continued) **S102685272**

SAUGUS, CA 91350
County Not reported

HMS:
Facility Id: 016620-022108
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 016620-036312
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

BD379
ESE
> 1
8006 ft.

Relative:
Higher

Actual:
1342 ft.

BABY YOUR CAR **LOS ANGELES CO. HMS** **S103945438**
26529 GOLDEN VALLEY RD **N/A**
SANTA CLARITA, CA

Site 10 of 14 in cluster BD

HMS:
Facility Id: 019979-028501
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

BD380
ESE
> 1
8034 ft.

Relative:
Higher

Actual:
1343 ft.

UNIVERSAL ENGINE **HAZNET** **S103647896**
26536 GOLDEN VALLEY RD, #616 **N/A**
SANTA CLARITA, CA 91351

Site 11 of 14 in cluster BD

HAZNET:
Gepaid: CAL000110336
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4586
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: ARMOND ASLANIAN
Telephone: (000) 000-0000
Mailing Address: 26536 GOLDEN VALLEY RD, #616
SANTA CLARITA, CA 91351
County Los Angeles

UNIVERSAL ENGINE (Continued) **S103647896**

Gepaid: CAL000110336
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: ARMOND ASLANIAN
Telephone: (000) 000-0000
Mailing Address: 26536 GOLDEN VALLEY RD, #616
SANTA CLARITA, CA 91351
County Los Angeles

Gepaid: CAL000110336
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .5837
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: ARMOND ASLANIAN
Telephone: (000) 000-0000
Mailing Address: 26536 GOLDEN VALLEY RD, #616
SANTA CLARITA, CA 91351
County Los Angeles

Gepaid: CAL000110336
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4587
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: ARMOND ASLANIAN
Telephone: (000) 000-0000
Mailing Address: 26536 GOLDEN VALLEY RD, #616
SANTA CLARITA, CA 91351
County Los Angeles

Gepaid: CAL000110336
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2085
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: ARMOND ASLANIAN
Telephone: (000) 000-0000
Mailing Address: 26536 GOLDEN VALLEY RD, #616
SANTA CLARITA, CA 91351
County Los Angeles

BE381
East
> 1
8038 ft.

Relative:
Higher

Actual:
1279 ft.

POINTS WEST TRUCKING INC
20727 SANTA CLARA ST
SANTA CLARITA, CA

HAZNET **S104160053**
LOS ANGELES CO. HMS **N/A**

Site 3 of 10 in cluster BE

HAZNET:

Gepaid:	CAL000236241
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.27
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	SHEILA MITOSKA
Telephone:	(661) 252-3306
Mailing Address:	20727 SANTA CLARA ST CANYON COUNTRY, CA 91351
County	Not reported

HMS:

Facility Id:	011261-011280		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

BE382
East
> 1
8038 ft.

Relative:
Higher

Actual:
1279 ft.

POINTS WEST
20727 SANTA CLARA ST
CANYON COUNTRY, CA 91351

RCRIS-SQG **1000595470**
FINDS **CAD983594078**
HAZNET
CA FID UST

Site 4 of 10 in cluster BE

RCRIS:

Owner:	POINTS WEST TRUCKING INC (415) 555-1212
EPA ID:	CAD983594078
Contact:	JIMMIE BARTLETT (805) 252-3306
Classification:	Small Quantity Generator
TSDF Activities:	Not reported
Violation Status:	No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid:	CAC001088992
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	2.7105
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	ZOLTAN BERECZ/PRESIDENT
Telephone:	(800) 342-3602
Mailing Address:	20727 SANTA CLARA ST CANYON COUNTRY, CA 91351 - 2424

POINTS WEST (Continued) **1000595470**

County Los Angeles

FID:

Facility ID:	19034716	Regulate ID:	00006603
Reg By:	Active Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Active	Facility Tel:	(818) 000-0000
Mail To:	Not reported 20727 SANTA CLARA ST SANTA CLARITA, CA		
Contact:	Not reported	Contact Tel:	Not reported
DUNs No:	Not reported	NPDES No:	Not reported
Creation:	10/22/93	Modified:	00/00/00
EPA ID:	Not reported		
Comments:	Not reported		

BE383 **POINTS WEST TRUCKING, INC.** **HIST UST** **U001567752**
East **20727 SANTA CLARA ST** **N/A**
> 1 **CANYON COUNTRY, CA 91351**
8038 ft.

Site 5 of 10 in cluster BE

Relative: Higher

Actual: 1279 ft.

UST HIST:

Facility ID:	6603	Owner Name:	POINTS WEST TRUCKING, INC.
Total Tanks:	1	Region:	STATE
Owner Address:	20727 SANTA CLARA ST. CANYON COUNTRY, CA 91351		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00010000	Year Installed:	Not reported
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	ZOLTAN BERECZ	Telephone:	(805) 252-3306
Facility Type:	Other	Other Type:	TRUCKING COMPANY

BD384 **MATO PLASTICS** **HAZNET** **S102825380**
ESE **26541 GOLDEN VALLEY RD** **LOS ANGELES CO. HMS** **N/A**
> 1 **SAUGUS, CA 91350**
8048 ft.

Site 12 of 14 in cluster BD

Relative: Higher

Actual: 1343 ft.

HAZNET:

Gepaid:	CAL000177650
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.9174
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	MANFRED TOLL
Telephone:	(000) 000-0000
Mailing Address:	26541 GOLDEN VALLEY RD UNIT A SANTA CLARITA, CA 91350
County	Los Angeles

HMS:

Facility Id:	019983-028505
Area:	7A
Facility Type:	Not reported

MATO PLASTICS (Continued) **S102825380**

Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

BF385
ESE
> 1
8081 ft.

ELEC-TROL INC
26477 N GOLDEN VALLEY RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **1000165981**
N/A

Site 1 of 2 in cluster BF

Relative:
Higher

Actual:
1354 ft.

HMS:
Facility Id: 007711-I08142
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

BF386
ESE
> 1
8081 ft.

GALAXY BEARING CO
26477 GOLDEN VALLEY RD
SANTA CLARITA, CA 91350

HAZNET **S100281071**
N/A

Site 2 of 2 in cluster BF

Relative:
Higher

Actual:
1354 ft.

HAZNET:
Gepaid: CAC001090240
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.5228
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: J.L. SAINI
Telephone: (661) 250-9090
Mailing Address: 26477 GOLDEN VALLEY RD
SANTA CLARITA, CA 91350
County Los Angeles

BG387
East
> 1
8085 ft.

SCV AUTO SPECIALIST
26921 RUETHER UNIT A
SANTA CLARITA, CA 91351

HAZNET **S103648154**
N/A

Site 1 of 17 in cluster BG

Relative:
Higher

Actual:
1282 ft.

HAZNET:
Gepaid: CAL000077272
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3753
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: MOORSE JERRY
Telephone: (000) 000-0000
Mailing Address: 20733 SOLEDAD CYN RD
CANYON COUNTRY, CA 91357 - 6508
County Los Angeles

SCV AUTO SPECIALIST (Continued) **S103648154**

Gepaid: CAL000077272
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.4177
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: MOORSE JERRY
Telephone: (000) 000-0000
Mailing Address: 20733 SOLEDAD CYN RD
CANYON COUNTRY, CA 91357 - 6508
County Los Angeles

Gepaid: CAL000077272
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.2510
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: MOORSE JERRY
Telephone: (000) 000-0000
Mailing Address: 20733 SOLEDAD CYN RD
CANYON COUNTRY, CA 91357 - 6508
County Los Angeles

Gepaid: CAL000077272
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4587
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: MOORSE JERRY
Telephone: (000) 000-0000
Mailing Address: 20733 SOLEDAD CYN RD
CANYON COUNTRY, CA 91357 - 6508
County Los Angeles

Gepaid: CAL000077272
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .5421
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: MOORSE JERRY
Telephone: (000) 000-0000
Mailing Address: 20733 SOLEDAD CYN RD
CANYON COUNTRY, CA 91357 - 6508
County Los Angeles

Click this hyperlink while viewing on your computer to access
6 additional CA HAZNET record(s) in the EDR Site Report.

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
BG388 **East** **> 1** **8100 ft.**	**PREMIER PRINTING COMPANY** **26951 RUETHER AVE STE G** **SANTA CLARITA, CA 91351**	**HAZNET**	**S104583456** **N/A**

Site 2 of 17 in cluster BG

Relative:
Higher

Actual:
1282 ft.

HAZNET:

Gepaid:	CAL912343463
TSD EPA ID:	CAD108040858
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0750
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Not reported
Contact:	KIRK PEELER
Telephone:	(661) 251-7913
Mailing Address:	26951 RUETHER AVE STE G SANTA CLARITA, CA 91351
County	Los Angeles

Gepaid:	CAL912343463
TSD EPA ID:	CAD000088252
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0825
Waste Category:	Unspecified solvent mixture Waste
Disposal Method:	Transfer Station
Contact:	KIRK PEELER
Telephone:	(661) 251-7913
Mailing Address:	26951 RUETHER AVE STE G SANTA CLARITA, CA 91351
County	Los Angeles

Gepaid:	CAL912343463
TSD EPA ID:	CAD108040858
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0792
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	KIRK PEELER
Telephone:	(661) 251-7913
Mailing Address:	26951 RUETHER AVE STE G SANTA CLARITA, CA 91351
County	Los Angeles

Gepaid:	CAL912343463
TSD EPA ID:	TND000772186
Gen County:	Los Angeles
Tsd County:	0
Tons:	0.0225
Waste Category:	Other organic solids
Disposal Method:	Disposal, Other
Contact:	KIRK PEELER
Telephone:	(661) 251-7913
Mailing Address:	26951 RUETHER AVE STE G SANTA CLARITA, CA 91351
County	Los Angeles

PREMIER PRINTING COMPANY (Continued) **S104583456**

Gepaid: CAL912343463
TSD EPA ID: CAD108040858
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1876
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: KIRK PEELER
Telephone: (661) 251-7913
Mailing Address: 26951 RUETHER AVE STE G
SANTA CLARITA, CA 91351
County Los Angeles

Click this hyperlink while viewing on your computer to access
1 additional CA HAZNET record(s) in the EDR Site Report.

BG389 **IU- ITSU ACADEMY** **HAZNET** **S103945494**
East **26911 RUETHER AVE G** **LOS ANGELES CO. HMS** **N/A**
> 1 **SANTA CLARITA, CA 91351**
8101 ft.

Site 3 of 17 in cluster BG

Relative: Higher

Actual: 1282 ft.

HAZNET:
Gepaid: CAL000142996
TSD EPA ID: CAD982321879
Gen County: Los Angeles
Tsd County: Stanislaus
Tons: 0.0125
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Not reported
Contact: PETE GARCIA
Telephone: (000) 000-0000
Mailing Address: 27385 CROSSGLADE AVE
CANYON COUNTRY, CA 91351
County Los Angeles

HMS:
Facility Id: 020167-028726
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

BG390 **AUTOMOTIVE FITNESS CENTER INC.** **HAZNET** **S105092361**
East **26911 RUETHER AVE STE S** **N/A**
> 1 **SANTA CLARITA, CA 91351**
8101 ft.

Site 4 of 17 in cluster BG

Relative: Higher

Actual: 1282 ft.

AUTOMOTIVE FITNESS CENTER INC. (Continued) **S105092361**

HAZNET:
Gepaid: CAL000208840
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 9.1740
Waste Category: Oil/water separation sludge
Disposal Method: Recycler
Contact: JIM OLSEN
Telephone: (661) 251-8589
Mailing Address: 26911 RUETHER AVE STE S
SANTA CLARITA, CA 91351
County Los Angeles

BG391 **A & S EXCHANGE** **HAZNET** **S105093086**
East **26911 RUETHER AVE UNIT D** **N/A**
> 1 **CANYON COUNTRY, CA 91351**
8101 ft.

Site 5 of 17 in cluster BG

Relative: Higher

Actual: 1282 ft.

HAZNET:
Gepaid: CAL000216303
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0708
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: RAUL RAMOS
Telephone: (661) 252-7514
Mailing Address: 26911 RUETHER AVE UNIT D
CANYON COUNTRY, CA 91351
County Los Angeles

BG392 **ROTO- ET OF AMERICA CO INC** **HAZNET** **S105085906**
East **26943 RUETHER AVE UNIT S** **N/A**
> 1 **SANTA CLARITA, CA 91351**
8104 ft.

Site 6 of 17 in cluster BG

Relative: Higher

Actual: 1282 ft.

HAZNET:
Gepaid: CAC002269689
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: ROTO-JET OF AM CO INC
Telephone: (000) 000-0000
Mailing Address: 26943 RUETHER AVE UNIT S
SANTA CLARITA, CA 91351
County Los Angeles

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BG393 East > 1 8104 ft.	**POINT AUTO SERVICE 26921 RUETHER AVE #A CANYON COUNTRY, CA 91351**	**HAZNET**	**S103982144 N/A**

Site 7 of 17 in cluster BG

Relative: Higher

Actual: 1282 ft.

HAZNET:

Gepaid:	CAL000147770
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2293
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	SEHMI SAMMY
Telephone:	(000) 000-0000
Mailing Address:	26921 RUETHER AVE #A CANYON COUNTRY, CA 91351
County	Los Angeles

Gepaid:	CAL000147770
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.2293
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	SEHMI SAMMY
Telephone:	(000) 000-0000
Mailing Address:	26921 RUETHER AVE #A CANYON COUNTRY, CA 91351
County	Los Angeles

Gepaid:	CAL000147770
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.45
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	HARDIP SEHMI
Telephone:	(661) 299-4027
Mailing Address:	26921 RUETHER AVE #A CANYON COUNTRY, CA 91351
County	Not reported

Gepaid:	CAL000147770
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2710
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	SEHMI SAMMY
Telephone:	(000) 000-0000
Mailing Address:	26921 RUETHER AVE #A CANYON COUNTRY, CA 91351
County	Los Angeles

POINT AUTO SERVICE (Continued) **S103982144**

Gepaid: CAL000147770
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.20
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: HARDIP SEHMI
Telephone: (661) 299-4027
Mailing Address: 26921 RUETHER AVE #A
CANYON COUNTRY, CA 91351
County Not reported

BG394 **ERRYS TOWING SERVICE INC** **HAZNET** **S105090167**
East **26921-B RUETHER AVE** **N/A**
> 1 **SANTA CLARITA, CA 91351**
8104 ft.

Site 8 of 17 in cluster BG

Relative: Higher

Actual: 1282 ft.

HAZNET:
Gepaid: CAL000125880
TSD EPA ID: CAD028409019
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2000
Waste Category: Other organic solids
Disposal Method: Transfer Station
Contact: JERRY MORSE
Telephone: (805) 252-8869
Mailing Address: 26921 RUETHER AVE STE B
CANYON COUNTRY, CA 91351 - 6509
County Los Angeles

BG395 **MOFIELD PRODUCTIONS** **LOS ANGELES CO. HMS** **S103945492**
East **26911 RUETHER AVE E** **N/A**
> 1 **SANTA CLARITA, CA**
8105 ft.

Site 9 of 17 in cluster BG

Relative: Higher

Actual: 1282 ft.

HMS:
Facility Id: 020160-028724
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

BG396 **SANTA CLARITA VALLEY TOYOTA SPECALISTS** **HAZNET** **S102817022**
East **26911 RUETHER AVE** **N/A**
> 1 **CANYON COUNTRY, CA 91351**
8105 ft.

Site 10 of 17 in cluster BG

Relative: Higher

Actual: 1282 ft.

SANTA CLARITA VALLEY TOYOTA SPECALISTS (Continued) **S102817022**

HAZNET:

Gepaid:	CAL000092195
TSD EPA ID:	CAL000113451
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.4386
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Transfer Station
Contact:	KEVIN FERGUSON
Telephone:	(805) 251-2091
Mailing Address:	26911 RUETHER AVE STE A CANYON COUNTRY, CA 91351 - 6520
County	Los Angeles

Gepaid:	CAL000092195
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.6680
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	KEVIN FERGUSON
Telephone:	(805) 251-2091
Mailing Address:	26911 RUETHER AVE STE A CANYON COUNTRY, CA 91351 - 6520
County	Los Angeles

Gepaid:	CAL000092195
TSD EPA ID:	CAL000113451
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.6680
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Transfer Station
Contact:	KEVIN FERGUSON
Telephone:	(805) 251-2091
Mailing Address:	26911 RUETHER AVE STE A CANYON COUNTRY, CA 91351 - 6520
County	Los Angeles

Gepaid:	CAL000092195
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.0425
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	KEVIN FERGUSON
Telephone:	(805) 251-2091
Mailing Address:	26911 RUETHER AVE STE A CANYON COUNTRY, CA 91351 - 6520
County	Los Angeles

SANTA CLARITA VALLEY TOYOTA SPECALISTS (Continued) **S102817022**

Gepaid: CAL000092195
TSD EPA ID: CAL000113451
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .7713
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Contact: KEVIN FERGUSON
Telephone: (805) 251-2091
Mailing Address: 26911 RUETHER AVE STE A
CANYON COUNTRY, CA 91351 - 6520
County Los Angeles

BG397
East
> 1
8105 ft.

ANDY GUMP INC
26954 RUETHER AVE
CANYON COUNTRY, CA 91351

HAZNET **S103648174**
LOS ANGELES CO. HMS **N/A**

Site 11 of 17 in cluster BG

Relative:
Higher

Actual:
1282 ft.

HAZNET:
Gepaid: CAL000026603
TSD EPA ID: CAL000113451
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2085
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Contact: ANDY GUMP INC
Telephone: (000) 000-0000
Mailing Address: 26954 RUETHER AVE
CANYON COUNTRY, CA 91351
County Los Angeles

Gepaid: CAL000026603
TSD EPA ID: CAL000113451
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2085
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Contact: ANDY GUMP INC
Telephone: (000) 000-0000
Mailing Address: 26954 RUETHER AVE
CANYON COUNTRY, CA 91351
County Los Angeles

Gepaid: CAL000026603
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: ANDY GUMP INC
Telephone: (000) 000-0000
Mailing Address: 26954 RUETHER AVE
CANYON COUNTRY, CA 91351
County Los Angeles

ANDY GUMP INC (Continued) **S103648174**

HMS:

Facility Id:	008047-I08549		
Area:	7A		
Facility Type:	I05		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

BH398
WSW
> 1
8107 ft.

VALENCIA DODGE/TERRY YORK
23820 W CREEKSIDE RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S102064223**
N/A

Site 1 of 5 in cluster BH

Relative:
Lower

Actual:
1142 ft.

HMS:

Facility Id:	008068-014148		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Removed
Facility Status:	REMV		
Region:	Los Angeles County:		

Facility Id:	008068-I08575		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

BH399
WSW
> 1
8107 ft.

VALENCIA DODGE YUGO
23820 CREEKSIDE RD
VALENCIA, CA 91355

HAZNET **S100877320**
N/A

Site 2 of 5 in cluster BH

Relative:
Lower

Actual:
1142 ft.

HAZNET:

Gepaid:	CAL000019827
TSD EPA ID:	CAD980883177
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.3127
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	YORK TERRY
Telephone:	(000) 000-0000
Mailing Address:	23820 CREEKSIDE RD VALENCIA, CA 91355
County	Los Angeles

Gepaid:	CAL000019827
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	4.3159
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	YORK TERRY
Telephone:	(000) 000-0000

VALENCIA DODGE YUGO (Continued) **S100877320**

Mailing Address: 23820 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000019827
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2085
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: YORK TERRY
Telephone: (000) 000-0000
Mailing Address: 23820 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000019827
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 3.2315
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Contact: YORK TERRY
Telephone: (000) 000-0000
Mailing Address: 23820 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000019827
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.9390
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Contact: YORK TERRY
Telephone: (000) 000-0000
Mailing Address: 23820 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

Click this hyperlink while viewing on your computer to access
8 additional CA HAZNET record(s) in the EDR Site Report.

BH400 **VALENCIA DODGE ISUZU** **RCRIS-SQG** **1000905165**
WSW **23820 CREEKSIDE RD** **FINDS** **CA0000361386**
> 1 **VALENCIA, CA 91355** **HAZNET**
8107 ft. **LUST**
Site 3 of 5 in cluster BH **Cortese**

Relative:
Lower

Actual:
1142 ft.

VALENCIA DODGE ISUZU (Continued) **1000905165**

RCRIS:

Owner: VALENCIA DODGE ISUZU
(805) 287-4170
EPA ID: CA0000361386

Contact: BILL FENNER
(805) 287-4170

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

State LUST:

Cross Street:	MCBEAN PKWY		
Qty Leaked:	0		
Case Number	R-14148		
Reg Board:	4		
Chemical:	1		
Lead Agency:	Local Agency		
Local Agency :	19000		
Case Type:	Soil only		
Status:	Leak being confirmed		
Review Date:	7/16/96 0:00	Confirm Leak:	7/16/96 0:00
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	Not reported		
Release Date:	07/16/1996		
Cleanup Fund Id :	Not reported		
Discover Date :	/ /		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	3/24/97 0:00		
Funding:	Not reported		
Staff Initials:	Not reported		
How Discovered:	Not reported		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	Not reported		
Leak Source:	Not reported		
MTBE Date :	Not reported		
Max MTBE GW :	Not reported		
MTBE Tested:	Not Required to be Tested.		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	Not reported		
Staff :	UNK		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	SANTA CLARA RIVER VA		
Operator :	Not reported		
Oversight Prgm:	LUST		

VALENCIA DODGE ISUZU (Continued) **1000905165**

Review Date : 7/16/96 0:00
Stop Date : / /
Work Suspended :Not reported
Responsible PartyVALENCIA DODGE
RP Address: 23820 W CREEKSIDE RD, VALENCIA CA 91355
Global Id: T0603705220
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 07/16/1996
Lead Agency: Local Agency
Local Agency: 19000
Substance: 1
Case Type: Soil
Status: Leak being confirmed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 7/16/96
Date Leak Record Entered: 3/24/97
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : Not reported
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: VALENCIA DODGE
RP Address: 23820 W CREEKSIDE RD, VALENCIA CA 91355
Significant Interim Remedial Action Taken: Not reported
Program : LUST
Lat / Long : 34 / -119
Local Agency Staff: Not reported
Summary : Not reported
Hydrologic Basin # : SANTA CLARA RIVER VA
Beneficial Use : Not reported
Priority : Not reported
Cleanup Fund Id : Not reported
Suspended : Not reported
Local Case No : Not reported
Substance Quantity : 0
Abatement Method Used at the Site: Not reported
Operator : Not reported
Water System : Not reported
Well Name : Not reported
Approx. Dist To Production Well (ft) : 1187.621227
Assigned Name : Not reported
Source of Cleanup Funding: Not reported
Date the Leak was Discovered: / /

VALENCIA DODGE ISUZU (Continued) **1000905165**

How the Leak was Discovered:	Not reported
How the Leak was Stopped:	Not reported
Cause of Leak:	Not reported
Leak Source:	Not reported
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	7/16/96
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	Not reported
Enforcement Action Date:	Not reported
Date Leak First Reported:	07/16/1996
Enforcement Type:	Not reported
Global ID :	T0603705220
Cross Street:	MCBEAN PKWY

HAZNET:

Gepaid:	CA0000361386
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.66
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Recycler
Contact:	SCOTT JONES
Telephone:	(661) 259-8770
Mailing Address:	23820 CREEKSIDE RD VALENCIA, CA 91355 - 1719
County	Not reported

CORTESE:

Region:	CORTESE
Fac Address 2:	23820 CREEKSIDE RD W

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401 WSW > 1 8107 ft. **PARKWAY HUMMER** **LOS ANGELES CO. HMS** **S105512316**
24075 W MAGIC MOUNTAIN PKWY **N/A**
SANTA CLARITA, CA

Relative: Lower
Actual: 1149 ft.

HMS:

Facility Id:	026885-037516		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

402 NNW > 1 8109 ft. — **SANTA CLARITA ELEM SCHOOL/SAUGUS USD**, **27177 SECO CANYON RD**, **SAUGUS, CA 91350** — **HAZNET** — **S102803362**, **N/A**

Relative: Higher

Actual: 1253 ft.

HAZNET:

Gepaid: CAC001328256
TSD EPA ID: CAD028409019
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4500
Waste Category: Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
Disposal Method: Transfer Station
Contact: SAUGUS UNION SD
Telephone: (661) 263-5934
Mailing Address: 24930 AVE STANFORD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAC001328256
TSD EPA ID: CAD009007626
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.6856
Waste Category: Asbestos-containing waste
Disposal Method: Disposal, Land Fill
Contact: SAUGUS UNION SD
Telephone: (661) 263-5934
Mailing Address: 24930 AVE STANFORD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAC001328256
TSD EPA ID: CAD009007626
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2000
Waste Category:
Disposal Method: Not reported
Contact: SAUGUS UNION SD
Telephone: (661) 263-5934
Mailing Address: 24930 AVE STANFORD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAC001038808
TSD EPA ID: CAD067786749
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.5284
Waste Category: Asbestos-containing waste
Disposal Method: Disposal, Land Fill
Contact: SAUGUS UNION SCHOOL DISTRICT
Telephone: (000) 000-0000
Mailing Address: 24930 AVENUE STANFORD
VALENCIA, CA 91355
County Los Angeles

BG403
East
> 1
8109 ft.

Relative:
Higher

Actual:
1282 ft.

VIDAC
26883 RUETHER AVE
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945487**
N/A

Site 12 of 17 in cluster BG

HMS:

Facility Id:	020155-028710		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

BG404
East
> 1
8114 ft.

Relative:
Higher

Actual:
1282 ft.

SANTA CLARITA COLLISION CENTER
26867 RUETHER AVE
CANYON COUNTRY, CA 91351

HAZNET **S100930816**
N/A

Site 13 of 17 in cluster BG

HAZNET:

Gepaid:	CAD981403462
TSD EPA ID:	CAD008302903
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.7714
Waste Category:	Paint sludge
Disposal Method:	Recycler
Contact:	ALANE DUFRENE-PRES
Telephone:	(805) 252-2277
Mailing Address:	26867 RUETHER AVE CANYON COUNTRY, CA 91351 - 2414
County	Los Angeles

Gepaid:	CAD981403462
TSD EPA ID:	CAD008302903
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.1259
Waste Category:	Paint sludge
Disposal Method:	Recycler
Contact:	ALANE DUFRENE-PRES
Telephone:	(805) 252-2277
Mailing Address:	26867 RUETHER AVE CANYON COUNTRY, CA 91351 - 2414
County	Los Angeles

Gepaid:	CAD981403462
TSD EPA ID:	CAD008302903
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.4587
Waste Category:	Paint sludge
Disposal Method:	Recycler
Contact:	ALANE DUFRENE-PRES
Telephone:	(805) 252-2277
Mailing Address:	26867 RUETHER AVE CANYON COUNTRY, CA 91351 - 2414
County	Los Angeles

SANTA CLARITA COLLISION CENTER (Continued) **S100930816**

Gepaid: CAD981403462
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.8922
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Contact: ALANE DUFRENE-PRES
Telephone: (805) 252-2277
Mailing Address: 26867 RUETHER AVE
CANYON COUNTRY, CA 91351 - 2414
County Los Angeles

Gepaid: CAD981403462
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.2085
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: ALANE DUFRENE-PRES
Telephone: (805) 252-2277
Mailing Address: 26867 RUETHER AVE
CANYON COUNTRY, CA 91351 - 2414
County Los Angeles

Click this hyperlink while viewing on your computer to access
6 additional CA HAZNET record(s) in the EDR Site Report.

BG405 **PRIDE COLLISION CENTERS INC.** **LOS ANGELES CO. HMS** **S105696720**
East **26867 N RUETHER AVE** **N/A**
> 1 **SANTA CLARITA, CA**
8114 ft.

Site 14 of 17 in cluster BG

Relative:
Higher

Actual:
1282 ft.

HMS:
Facility Id: 003354-033074
Area: 7A
Facility Type: I05
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

BG406 **PRIDE COLLISION CENTER** **LOS ANGELES CO. HMS** **S105696718**
East **26867 N RUETHER AVE** **N/A**
> 1 **SANTA CLARITA, CA**
8114 ft.

Site 15 of 17 in cluster BG

Relative:
Higher

Actual:
1282 ft.

HMS:
Facility Id: 003354-035533
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
BG407 **East** **> 1** **8114 ft.**	**SANTA CLARITA COLLISION CENTER** **26867 N RUETHER AVE** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S105696719** **N/A**

Site 16 of 17 in cluster BG

Relative: Higher

Actual: 1282 ft.

HMS:

Facility Id:	003354-I03470		
Area:	7A		
Facility Type:	I05		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

BI408 **East** **> 1** **8123 ft.**	**SCORE INDUSTRIES** **26841 RUETHER AVE E** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103945479** **N/A**

Site 1 of 5 in cluster BI

Relative: Higher

Actual: 1281 ft.

HMS:

Facility Id:	020147-028708		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

BJ409 **East** **> 1** **8127 ft.**	**VP MANUFACTURING INC** **20732 SOLEDAD ST** **SANTA CLARITA, CA 91351**	**HAZNET**	**S103640949** **N/A**

Site 1 of 2 in cluster BJ

Relative: Higher

Actual: 1283 ft.

HAZNET:

Gepaid:	CAL000179066
TSD EPA ID:	CAT080033681
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0050
Waste Category:	Liquids with pH <UN-> 2
Disposal Method:	Recycler
Contact:	VP MANUFACTURING INC
Telephone:	(805) 298-2632
Mailing Address:	20732 SOLEDAD ST CANYON COUNTRY, CA 91351 - 2420
County	Los Angeles

Gepaid:	CAL000179066
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0750
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Contact:	VP MANUFACTURING INC
Telephone:	(805) 298-2632
Mailing Address:	20732 SOLEDAD ST CANYON COUNTRY, CA 91351 - 2420
County	Los Angeles

VP MANUFACTURING INC (Continued) **S103640949**

Gepaid: CAL000179066
TSD EPA ID: CAT080033681
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0065
Waste Category: Other organic solids
Disposal Method: Disposal, Land Fill
Contact: VP MANUFACTURING INC
Telephone: (805) 298-2632
Mailing Address: 20732 SOLEDAD ST
CANYON COUNTRY, CA 91351 - 2420
County Los Angeles

Gepaid: CAL000179066
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0500
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Recycler
Contact: VP MANUFACTURING INC
Telephone: (805) 298-2632
Mailing Address: 20732 SOLEDAD ST
CANYON COUNTRY, CA 91351 - 2420
County Los Angeles

Gepaid: CAL000179066
TSD EPA ID: CAD000088252
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1000
Waste Category: Unspecified oil-containing waste
Disposal Method: Transfer Station
Contact: VP MANUFACTURING INC
Telephone: (805) 298-2632
Mailing Address: 20732 SOLEDAD ST
CANYON COUNTRY, CA 91351 - 2420
County Los Angeles

BI410 **VELS AUTOMOTIVE/ADVANCED AUTOMOTIVE** **HAZNET** **S104579344**
East **26831 RUETHER #K** **N/A**
> 1 **SANTA CLARITA, CA 91351**
8127 ft.

Site 2 of 5 in cluster BI

Relative: Higher

Actual: 1281 ft.

HAZNET:
Gepaid: CAL000146206
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .6879
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: DAN VELS
Telephone: (000) 000-0000
Mailing Address: 26831 RUETHER #K
SANTA CLARITA, CA 91351
County Los Angeles

VELS AUTOMOTIVE/ADVANCED AUTOMOTIVE (Continued) **S104579344**

Gepaid: CAL000146206
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.9172
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: DAN VELS
Telephone: (000) 000-0000
Mailing Address: 26831 RUETHER #K
SANTA CLARITA, CA 91351
County Los Angeles

Gepaid: CAL000146206
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: DAN VELS
Telephone: (000) 000-0000
Mailing Address: 26831 RUETHER #K
SANTA CLARITA, CA 91351
County Los Angeles

Gepaid: CAL000146206
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4586
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Not reported
Contact: DAN VELS
Telephone: (000) 000-0000
Mailing Address: 26831 RUETHER #K
SANTA CLARITA, CA 91351
County Los Angeles

BD411
ESE
> 1
8130 ft.

FORBES METAL STAMPING CO.
26555 GOLDEN VALLEY RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945442**
N/A

Site 13 of 14 in cluster BD

Relative:
Higher

Actual:
1344 ft.

HMS:
Facility Id: 019984-028506
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
BK412 **ESE** **> 1** **8131 ft.**	**INLAND PACIFIC MTR** **26502 GOLDEN VALLEY RD 104** **SAUGUS, CA 91350**	**RCRIS-SQG** **FINDS**	**1000596273** **CAD983602384**

Site 1 of 3 in cluster BK

Relative:
Higher

Actual:
1325 ft.

RCRIS:
Owner: ARB ENTERPRISES
(805) 298-1046
EPA ID: CAD983602384
Contact: CARMELO HENSON
(805) 298-8633
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

BK413 **ESE** **> 1** **8131 ft.**	**ADROS CUSTOM WOOD FINISHING** **26524 GOLDEN VALLEY** **CANYON COUNTRY, CA 91351**	**RCRIS-SQG** **FINDS**	**1000472923** **CAD982435539**

Site 2 of 3 in cluster BK

Relative:
Higher

Actual:
1325 ft.

RCRIS:
Owner: A R B ENTERPRISES
(415) 555-1212
EPA ID: CAD982435539
Contact: ENVIRONMENTAL MANAGER
(805) 252-1870
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

BK414 **ESE** **> 1** **8131 ft.**	**BENS TEK** **26536 GOLDEN VALLEY RD 606** **SANTA CLARITA, CA 91350**	**RCRIS-SQG** **FINDS** **HAZNET** **LOS ANGELES CO. HMS**	**1000376046** **CAD982507139**

Site 3 of 3 in cluster BK

Relative:
Higher

Actual:
1325 ft.

BENS TEK (Continued) **1000376046**

RCRIS:
Owner: GOULDMANS PAUL M
(415) 555-1212
EPA ID: CAD982507139

Contact: ENVIRONMENTAL MANAGER
(805) 255-9521

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAD982507139
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: PAUL GLOUDEMANS
Telephone: (000) 000-0000
Mailing Address: 26536 GOLDEN VALLEY RD STE 606
SANTA CLARITA, CA 91350 - 2661
County Los Angeles

Gepaid: CAD982507139
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: PAUL GLOUDEMANS
Telephone: (000) 000-0000
Mailing Address: 26536 GOLDEN VALLEY RD STE 606
SANTA CLARITA, CA 91350 - 2661
County Los Angeles

Gepaid: CAD982507139
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: PAUL GLOUDEMANS
Telephone: (000) 000-0000
Mailing Address: 26536 GOLDEN VALLEY RD STE 606
SANTA CLARITA, CA 91350 - 2661
County Los Angeles

BENS TEK (Continued) **1000376046**

Gepaid: CAD982507139
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Unspecified aqueous solution
Disposal Method: Treatment, Incineration
Contact: PAUL GLOUDEMANS
Telephone: (000) 000-0000
Mailing Address: 26536 GOLDEN VALLEY RD STE 606
SANTA CLARITA, CA 91350 - 2661
County Los Angeles

Gepaid: CAD982507139
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4586
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: PAUL GLOUDEMANS
Telephone: (000) 000-0000
Mailing Address: 26536 GOLDEN VALLEY RD STE 606
SANTA CLARITA, CA 91350 - 2661
County Los Angeles

Click this hyperlink while viewing on your computer to access
3 additional CA HAZNET record(s) in the EDR Site Report.

HMS:
Facility Id: 019981-028503
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

BI415 **S C RADIATOR & BODY PARTS** **HAZNET** **S103985800**
East **26821 RUETHER UNIT D** **N/A**
> 1 **SANTA CLARITA VALLEY, CA 91351**
8132 ft.

Site 3 of 5 in cluster BI

Relative: Higher

Actual: 1281 ft.

HAZNET:
Gepaid: CAL000104987
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: GREG ASLANYAM
Telephone: (805) 252-3457
Mailing Address: 26821 RUETHER UNIT D
SANTA CLARITA VALLEY, CA 91351
County Los Angeles

S C RADIATOR & BODY PARTS (Continued) **S103985800**

Gepaid: CAL000104987
TSD EPA ID: CAD981696420
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .6463
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: GREG ASLANYAM
Telephone: (805) 252-3457
Mailing Address: 26821 RUETHER UNIT D
SANTA CLARITA VALLEY, CA 91351
County Los Angeles

Gepaid: CAL000104987
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.2293
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: GREG ASLANYAM
Telephone: (805) 252-3457
Mailing Address: 26821 RUETHER UNIT D
SANTA CLARITA VALLEY, CA 91351
County Los Angeles

BI416 **AMERICAN GRAFFITII** **HAZNET** **S105092175**
East **26821 RUETHER AVE UNIT I** **N/A**
> 1 **CANYON COUNTRY, CA 91351**
8132 ft.

Site 4 of 5 in cluster BI

Relative: Higher

Actual: 1281 ft.

HAZNET:
Gepaid: CAL000205441
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Orange
Tons: 0.30
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: SONNY GREENBACK/MGR
Telephone: (661) 298-8890
Mailing Address: 26821 RUETHER AVE UNIT I
CANYON COUNTRY, CA 91351
County Not reported

Gepaid: CAL000205441
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Orange
Tons: 0.22
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: SONNY GREENBACK/MGR
Telephone: (661) 298-8890
Mailing Address: 26821 RUETHER AVE UNIT I
CANYON COUNTRY, CA 91351
County Not reported

AMERICAN GRAFFITII (Continued) **S105092175**

Gepaid: CAL000205441
TSD EPA ID: CAT000613976
Gen County: Los Angeles
Tsd County: Orange
Tons: .0667
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: AMER GRAFFITII
Telephone: (661) 298-8890
Mailing Address: 26821 RUETHER AVE UNIT I
CANYON COUNTRY, CA 91351
County Los Angeles

BE417 **NATIONAL READY MIX** **RCRIS-SQG** **1004675967**
East **27050 RUETHER AVE** **FINDS** **CAR000079327**
> 1 **SANTA CLARITA, CA 91351** **HAZNET**
8138 ft.

Site 6 of 10 in cluster BE

Relative: Higher

Actual: 1280 ft.

RCRIS:
Owner: NATIONAL READY MIX
(661) 252-8181
EPA ID: CAR000079327

Contact: HORACE GREEN
(818) 768-0050

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAR000079327
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.60
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: GLEN MCDANIAL
Telephone: (661) 252-8181
Mailing Address: 15821 VENTURA BLVD STE 475
ENCINO, CA 91436
County Not reported

Gepaid: CAR000079327
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.16
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: GLEN MCDANIAL
Telephone: (661) 252-8181
Mailing Address: 15821 VENTURA BLVD STE 475

NATIONAL READY MIX (Continued) **1004675967**

ENCINO, CA 91436
County Not reported

Gepaid: CAR000079327
TSD EPA ID: CAT000613893
Gen County: 0
Tsd County: Los Angeles
Tons: .4170
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 27050 RUETHER AVE
SANTA CLARITA, CA 91351
County 0

BE418
East
> 1
8138 ft.

Relative:
Higher

Actual:
1280 ft.

NATIONAL READY MIXED CONC **HAZNET** **S104160049**
27050 RUETHER AVE **Cortese** **N/A**
SANTA CLARITA, CA 91380 **LOS ANGELES CO. HMS**

Site 7 of 10 in cluster BE

HAZNET:
Gepaid: CAL000212363
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.22
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: DAVID R. HUMPHREY/ENVIR. COORD
Telephone: (818) 768-0050
Mailing Address: 15821 VENTURA BLVD STE 475
ENCINO, CA 91436
County Not reported

Gepaid: CAL000212363
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.07
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Recycler
Contact: DAVID R. HUMPHREY/ENVIR. COORD
Telephone: (818) 768-0050
Mailing Address: 15821 VENTURA BLVD STE 475
ENCINO, CA 91436
County Not reported

Gepaid: CAC000937432
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3000
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Recycler
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: P. O. BOX 800026
SANTA CLARITA, CA 91380

NATIONAL READY MIXED CONC (Continued) **S104160049**

County Los Angeles

Gepaid: CAC001187696
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.0633
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Recycler
Contact: A C WARNACK
Telephone: (000) 000-0000
Mailing Address: P O BOX 800026
SANTA CLARITA, CA 91380
County Los Angeles

Gepaid: CAC001187696
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.6680
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: A C WARNACK
Telephone: (000) 000-0000
Mailing Address: P O BOX 800026
SANTA CLARITA, CA 91380
County Los Angeles

CORTESE:
Region: CORTESE
Fac Address 2: Not reported

HMS:
Facility Id: 005319-024283
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

Facility Id: 005319-I05519
Area: 7A
Facility Type: I05
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 009050-005519
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number

BE419 **NATIONAL READY MIXED CONCRETE** **HIST UST** **U001567712**
East **27050 RUETHER AVE** **N/A**
> 1 **CANYON COUNTRY, CA 91350**
8138 ft.

Site 8 of 10 in cluster BE

Relative: Higher

Actual: 1280 ft.

UST HIST:

Facility ID:	16974	Owner Name:	RNMCO DBA NOTIONAL READY MIXED
Total Tanks:	3	Region:	STATE
Owner Address:	27050 RUETHER AV SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00006500	Year Installed:	Not reported
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	CHARLES J KENNEDY,GEN MGR	Telephone:	(805) 252-8181
Facility Type:	Other	Other Type:	READY MIX CONCRETE

Facility ID:	16974	Owner Name:	RNMCO DBA NOTIONAL READY MIXED
Total Tanks:	3	Region:	STATE
Owner Address:	27050 RUETHER AV SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	2
Tank Capacity:	00007500	Year Installed:	Not reported
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	CHARLES J KENNEDY,GEN MGR	Telephone:	(805) 252-8181
Facility Type:	Other	Other Type:	READY MIX CONCRETE

Facility ID:	16974	Owner Name:	RNMCO DBA NOTIONAL READY MIXED
Total Tanks:	3	Region:	STATE
Owner Address:	27050 RUETHER AV SAUGUS, CA 91350		
Tank Used for:	PRODUCT		
Tank Num:	3	Container Num:	3
Tank Capacity:	00001000	Year Installed:	Not reported
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	CHARLES J KENNEDY,GEN MGR	Telephone:	(805) 252-8181
Facility Type:	Other	Other Type:	READY MIX CONCRETE

BE420 **NATIONAL READY MIXED CONCRETE** **LUST** **S101618509**
East **27050 RUETHER AVE** **CA FID UST** **N/A**
> 1 **SANTA CLARITA, CA** **CA WDS**
8138 ft.

Site 9 of 10 in cluster BE

Relative: Higher

Actual: 1280 ft.

State LUST:

Cross Street:	SANTA CLARA
Qty Leaked:	0
Case Number	R-05519
Reg Board:	4
Chemical:	Gasoline
Lead Agency:	Regional Board
Local Agency :	19000
Case Type:	Soil only
Status:	Case Closed
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site

NATIONAL READY MIXED CONCRETE (Continued) **S101618509**

Review Date: 6/19/96 0:00
Workplan: 10/2/96 0:00
Pollution Char: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: 6/26/97 0:00
Release Date: 09/25/1996
Cleanup Fund Id : Not reported
Discover Date : 06/19/1996
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 3/28/97 0:00
Funding: Not reported
Staff Initials: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Interim : Yes
Leak Cause: UNK
Leak Source: Piping
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Priority: Not reported
Local Case # : 0
Beneficial: Not reported
Staff : UNK
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SANTA CLARA RIVER VA
Operator : GREEN, ROGER
Oversight Prgm: LUST
Review Date : 6/6/97 0:00
Stop Date : / /
Work Suspended :Not reported
Responsible PartyNATIONAL READY MIXED
RP Address: 27050 RUETHER AVE., SANTA CLARITA CA 91380
Global Id: T0603704681
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

Confirm Leak: 6/19/96 0:00
Prelim Assess: 10/2/96 0:00
Remed Plan: Not reported

LUST Region 4:
Report Date: 09/25/1996
Lead Agency: Regional Board
Local Agency: 19000
Substance: Gasoline
Case Type: Soil
Status: Case Closed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 6/6/97

NATIONAL READY MIXED CONCRETE (Continued) **S101618509**

Date Leak Record Entered:	3/28/97
Historical Max MTBE Date:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil :	Not reported
County:	Los Angeles
Organization :	Not reported
Regional Board:	4
Owner Contact: Not reported	
Responsible Party:	NATIONAL READY MIXED
RP Address:	27050 RUETHER AVE., SANTA CLARITA CA 91380
Significant Interim Remedial Action Taken:	Yes
Program :	LUST
Lat / Long :	34 / -118
Local Agency Staff:	Not reported
Summary :	Not reported
Hydrologic Basin # :	SANTA CLARA RIVER VA
Beneficial Use :	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	0
Abatement Method Used at the Site:	Excavate and Dispose
Operator :	GREEN, ROGER
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	613.9029421
Assigned Name :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	06/19/1996
How the Leak was Discovered:	Tank Closure
How the Leak was Stopped:	Not reported
Cause of Leak:	UNK
Leak Source:	Piping
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	6/19/96
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	10/2/96
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	6/26/97
Enforcement Action Date:	Not reported
Date Leak First Reported:	09/25/1996
Enforcement Type:	Not reported
Global ID :	T0603704681
Cross Street: SANTA CLARA	

NATIONAL READY MIXED CONCRETE (Continued) **S101618509**

FID:

Facility ID:	19054776	Regulate ID:	00016974
Reg By:	Active Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Active	Facility Tel:	(818) 000-0000
Mail To:	Not reported P O BOX SANTA CLARITA, CA		
Contact:	Not reported	Contact Tel:	Not reported
DUNs No:	Not reported	NPDES No:	Not reported
Creation:	10/22/93	Modified:	00/00/00
EPA ID:	Not reported		
Comments:	Not reported		

WDS:

Facility ID:	4 19I002719		
Facility Contact	Not reported	Facility Telephone	0
SIC Code:	Not reported	SIC Code 2:	Not reported
Agency Name:	NATIONAL READY MIXED CONCRETE		
Agency Address:	0		
Agency Contact:	Not reported	Agency Phone:	0
Design Flow:	Not reported	Baseline Flow:	Not reported
Facility Type:	Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)		
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.		
Agency Type:	Private		
Waste Type:	Not reported		
Threat to Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.		
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.		
Reclamation:	Not reported		
POTW:	Not reported		
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board		
Subregion:	4		

BE421
East
> 1
8138 ft.

NATIONAL READY MIX CONCRETE CO
27050 RUETHER AVE
CANYON COUNTRY, CA 91350

HIST UST **U001567711**
N/A

Site 10 of 10 in cluster BE

Relative:
Higher

Actual:
1280 ft.

UST HIST:

Facility ID:	63436	Owner Name:	RNMCO
Total Tanks:	2	Region:	STATE
Owner Address:	27050 RUETHER AVENUE SAUGUS, CA 91350		
Tank Used for:	WASTE		
Tank Num:	1	Container Num:	4
Tank Capacity:	00002800	Year Installed:	1982
Type of Fuel:	Not reported	Tank Construction:	8 inches

NATIONAL READY MIX CONCRETE CO (Continued) **U001567711**

Leak Detection:	None		
Contact Name:	CHARLES J. KENNEDY, GEN. MGR.	Telephone:	(805) 252-8181
Facility Type:	Other	Other Type:	READY MIX CONCRETE
Facility ID:	63436	Owner Name:	RNMCO
Total Tanks:	2	Region:	STATE
Owner Address:	27050 RUETHER AVENUE SAUGUS, CA 91350		
Tank Used for:	WASTE		
Tank Num:	2	Container Num:	5
Tank Capacity:	00000000	Year Installed:	1982
Type of Fuel:	Not reported	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	CHARLES J. KENNEDY, GEN. MGR.	Telephone:	(805) 252-8181
Facility Type:	Other	Other Type:	READY MIX CONCRETE

BJ422
East
> 1
8139 ft.

Relative:
Higher

Actual:
1283 ft.

AMERICAN UNITED INC **HAZNET** **S104572896**
20730 SOLEDAD ST **N/A**
SANTA CLARITA, CA 91351

Site 2 of 2 in cluster BJ

HAZNET:

Gepaid:	CAC002228521
TSD EPA ID:	CAT080022148
Gen County:	Los Angeles
Tsd County:	San Bernardino
Tons:	0.1668
Waste Category:	Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)
Disposal Method:	Transfer Station
Contact:	AMERICAN UNITED INC
Telephone:	(805) 297-2979
Mailing Address:	20730 SOLEDAD ST SANTA CLARITA, CA 91351
County	Los Angeles

BG423
East
> 1
8141 ft.

Relative:
Higher

Actual:
1283 ft.

SOUTHWEST INDUSTRIES **RCRIS-SQG** **1000594650**
26911 RUETHER AVE STE S **FINDS** **CAD983585027**
SANTA CLARITA, CA 91351

Site 17 of 17 in cluster BG

RCRIS:

Owner:	LABELLA RICHARD AND WOODWARD (805) 251-5451
EPA ID:	CAD983585027
Contact:	RICHARD LABELLA (805) 251-5451
Classification:	Small Quantity Generator
TSDF Activities:	Not reported

SOUTHWEST INDUSTRIES (Continued) **1000594650**

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

BI424
East
> 1
8159 ft.

Relative: Higher

Actual: 1282 ft.

RUSSELL DUNN AUTOMOTIVE
26821 RUETHER UNIT G
CANYON COUNTRY, CA 91351

RCRIS-SQG **1000596839**
FINDS **CAD983608225**

Site 5 of 5 in cluster BI

RCRIS:
Owner: P AND E PROPERTIES
EPA ID: CAD983608225
Contact: RUSSELL DUNN
(805) 252-8646
Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

BD425
ESE
> 1
8190 ft.

Relative: Higher

Actual: 1344 ft.

VAL-AERO INDUSTRIES INC.
26559 GOLDEN VALLEY RD
SANTA CLARITA, CA 91350

HAZNET **S103945443**
LOS ANGELES CO. HMS **N/A**

Site 14 of 14 in cluster BD

HAZNET:
Gepaid: CAL000213068
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.91
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: RALPH SMITH
Telephone: (661) 252-1047
Mailing Address: 26559 RUETHER AVE
SANTA CLARITA, CA 91350 - 2622
County Not reported

Gepaid: CAL000213068
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Orange
Tons: 0.19
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: RALPH SMITH
Telephone: (661) 252-1047
Mailing Address: 26559 RUETHER AVE
SANTA CLARITA, CA 91350 - 2622

VAL-AERO INDUSTRIES INC. (Continued) **S103945443**

County Not reported

Gepaid: CAL000213068
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.08
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: RALPH SMITH
Telephone: (661) 252-1047
Mailing Address: 26559 RUETHER AVE
SANTA CLARITA, CA 91350 - 2622
County Not reported

Gepaid: CAL000213068
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Orange
Tons: 0.44
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: RALPH SMITH
Telephone: (661) 252-1047
Mailing Address: 26559 RUETHER AVE
SANTA CLARITA, CA 91350 - 2622
County Not reported

Gepaid: CAL000213068
TSD EPA ID: CAT000613976
Gen County: Los Angeles
Tsd County: Orange
Tons: .0667
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: VAL-AERO INDUSTRIES INC
Telephone: (000) 000-0000
Mailing Address: 26559 GOLDEN VALLEY RD
SANTA CLARITA, CA 91350
County Los Angeles

HMS:
Facility Id: 019985-028507
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

BL426 **WAREHOUSE** **HIST UST** **U001567734**
East **21030 GOLDEN TRIANGLE RD** **N/A**
> 1 **SAUGUS, CA 91350**
8220 ft.

Site 1 of 6 in cluster BL

Relative:
Higher

UST HIST:
Facility ID: 7943 Owner Name: SANTA CARITA WATER COMPANY
Total Tanks: 4 Region: STATE
Owner Address: 22722 W. SOLEDAD CANYON ROAD
SAUGUS, CA 91350
Tank Used for: PRODUCT

Actual:
1281 ft.

WAREHOUSE (Continued) **U001567734**

Tank Num: 1 Container Num: 2
Tank Capacity: 00000500 Year Installed: 1975
Type of Fuel: DIESEL Tank Construction: Not Reported
Leak Detection: Pressure Test
Contact Name: ROBERT MCDOUGASL Telephone: (805) 259-2737
Facility Type: Other Other Type: WAREHOUSE

Facility ID: 7943 Owner Name: SANTA CARITA WATER COMPANY
Total Tanks: 4 Region: STATE
Owner Address: 22722 W. SOLEDAD CANYON ROAD
SAUGUS, CA 91350
Tank Used for: PRODUCT
Tank Num: 2 Container Num: 3
Tank Capacity: 00004000 Year Installed: 1975
Type of Fuel: UNLEADED Tank Construction: Not Reported
Leak Detection: Pressure Test
Contact Name: ROBERT MCDOUGASL Telephone: (805) 259-2737
Facility Type: Other Other Type: WAREHOUSE

Facility ID: 7943 Owner Name: SANTA CARITA WATER COMPANY
Total Tanks: 4 Region: STATE
Owner Address: 22722 W. SOLEDAD CANYON ROAD
SAUGUS, CA 91350
Tank Used for: PRODUCT
Tank Num: 3 Container Num: 4
Tank Capacity: 00004000 Year Installed: 1975
Type of Fuel: UNLEADED Tank Construction: Not Reported
Leak Detection: Pressure Test
Contact Name: ROBERT MCDOUGASL Telephone: (805) 259-2737
Facility Type: Other Other Type: WAREHOUSE

Facility ID: 7943 Owner Name: SANTA CARITA WATER COMPANY
Total Tanks: 4 Region: STATE
Owner Address: 22722 W. SOLEDAD CANYON ROAD
SAUGUS, CA 91350
Tank Used for: PRODUCT
Tank Num: 4 Container Num: 1
Tank Capacity: 00004000 Year Installed: 1975
Type of Fuel: UNLEADED Tank Construction: Not Reported
Leak Detection: Pressure Test
Contact Name: ROBERT MCDOUGASL Telephone: (805) 259-2737
Facility Type: Other Other Type: WAREHOUSE

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427 ESE > 1 8224 ft. **OHN PAUL MICHAEL SYSTEMS** **LOS ANGELES CO. HMS** **U003064004**
26455 GOLDEN VALLEY RD **N/A**
SANTA CLARITA, CA

Relative: Higher
Actual: 1373 ft.

HMS:
Facility Id: 008329-I08889
Area: 7A
Facility Type: I09
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BH428 WSW > 1 8238 ft.	**THE TRANSMISSION MAN 24309 CREEKSIDE RD UNIT 105 VALENCIA, CA 91355**	**RCRIS-SQG FINDS HAZNET**	**1000595668 CAD983596206**

Site 4 of 5 in cluster BH

Relative: Lower

Actual: 1145 ft.

RCRIS:

Owner: NHCA AUTOMOTIVE TECH INCORPORATED
(415) 555-1212
EPA ID: CAD983596206

Contact: WILLIAM PELTOLA
(805) 254-2222

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid: CAD983596206
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.1259
Waste Category: Oil/water separation sludge
Disposal Method: Recycler
Contact: CANH AUTOMOTIVE TECH INC
Telephone: (000) 000-0000
Mailing Address: 24309 CREEKSIDE RD STE 105
SANTA CLARITA, CA 91355 - 1730
County Los Angeles

Gepaid: CAD983596206
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .9174
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: CANH AUTOMOTIVE TECH INC
Telephone: (000) 000-0000
Mailing Address: 24309 CREEKSIDE RD STE 105
SANTA CLARITA, CA 91355 - 1730
County Los Angeles

Gepaid: CAD983596206
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.9599
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: CANH AUTOMOTIVE TECH INC
Telephone: (000) 000-0000
Mailing Address: 24309 CREEKSIDE RD STE 105
SANTA CLARITA, CA 91355 - 1730
County Los Angeles

THE TRANSMISSION MAN (Continued) **1000595668**

Gepaid: CAD983596206
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .6255
Waste Category: Unspecified oil-containing waste
Disposal Method: Not reported
Contact: CANH AUTOMOTIVE TECH INC
Telephone: (000) 000-0000
Mailing Address: 24309 CREEKSIDE RD STE 105
SANTA CLARITA, CA 91355 - 1730
County Los Angeles

BH429
WSW
> 1
8238 ft.

Relative:
Lower

Actual:
1145 ft.

ANDYS AUTOMOTIVE
24309 CREEKSIDE RD 112
VALENCIA, CA 91355

RCRIS-SQG **1000596616**
FINDS **CAD983605908**

Site 5 of 5 in cluster BH

RCRIS:
Owner: VALENCIA MOTOR CENTER
(818) 705-3232
EPA ID: CAD983605908

Contact: ANDREAS MPARMPERIS
(805) 254-2870

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

BM430
SSW
> 1
8241 ft.

Relative:
Lower

Actual:
1184 ft.

VIP AUTO CARE
25835 SAN FERNANDO RD UNIT 29
SAUGUS, CA 91350

RCRIS-SQG **1000595067**
FINDS **CAD983589573**
HAZNET

Site 1 of 2 in cluster BM

RCRIS:
Owner: G&K MANAGEMENT CO INC
(415) 555-1212
EPA ID: CAD983589573

Contact: GARZA FRED
(805) 254-0632

Classification: Small Quantity Generator
TSDF Activities: Not reported

VIP AUTO CARE (Continued) **1000595067**

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid:	CAD983589573
TSD EPA ID:	CAD981696420
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.4586
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	G&K MANAGEMENT CO INC
Telephone:	(000) 000-0000
Mailing Address:	25835 SAN FERNANDO RD. #29 SANTA CLARITA, CA 91350
County	Los Angeles

Gepaid:	CAD983589573
TSD EPA ID:	CAD981585420
Gen County:	Los Angeles
Tsd County:	0
Tons:	.2085
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	G&K MANAGEMENT CO INC
Telephone:	(000) 000-0000
Mailing Address:	25835 SAN FERNANDO RD. #29 SANTA CLARITA, CA 91350
County	Los Angeles

Gepaid:	CAD983589573
TSD EPA ID:	CAD981696420
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2293
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	G&K MANAGEMENT CO INC
Telephone:	(000) 000-0000
Mailing Address:	25835 SAN FERNANDO RD. #29 SANTA CLARITA, CA 91350
County	Los Angeles

BM431 **EXCLUSIVELY BRITISH** **RCRIS-SQG** **1000595671**
SSW **25835 SAN FERNANDO ROAD 25** **FINDS** **CAD983596230**
> 1 **SAUGUS, CA 91350**
8241 ft.

Site 2 of 2 in cluster BM

Relative:
Lower

Actual:
1184 ft.

EXCLUSIVELY BRITISH (Continued) **1000595671**

RCRIS:
Owner: GTK MANAGEMENT CO INC
(415) 555-1212
EPA ID: CAD983596230
Contact: OSCAR UNDERWOOD
(805) 259-9289
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

BL432 **DPW FMD SANTA CLARITA REFERRAL** **LOS ANGELES CO. HMS** **S102064041**
East **21014 GOLDEN TRIANGLE RD** **N/A**
> 1 **SANTA CLARITA, CA**
8281 ft.

Site 2 of 6 in cluster BL

Relative: Higher

Actual: 1283 ft.

HMS:
Facility Id: 017324-023454
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

BL433 **LA CO DPW FLOOD DIST** **LOS ANGELES CO. HMS** **S105053483**
East **21014 GOLDEN TRIANGLE RD** **N/A**
> 1 **SANTA CLARITA, CA**
8281 ft.

Site 3 of 6 in cluster BL

Relative: Higher

Actual: 1283 ft.

HMS:
Facility Id: 014208-014735
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

BN434 **COCOS RESTAURANT #0849** **LOS ANGELES CO. HMS** **S103317727**
WSW **23710 W VALENCIA BLVD** **N/A**
> 1 **SANTA CLARITA, CA**
8312 ft.

Site 1 of 3 in cluster BN

Relative: Lower

Actual: 1152 ft.

HMS:
Facility Id: 001405-I01477
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BN435 **WSW** **> 1** **8312 ft.**	**RESTAURANT ENTERPRISES GROUP** **23710 W VALENCIA BLVD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S102064214** **N/A**

Site 2 of 3 in cluster BN

Relative: Lower

Actual: 1152 ft.

HMS:

Facility Id:	001405-001477		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

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436 **WSW** **> 1** **8355 ft.**	**23743 VALENCIA-VALENCIA LIBRARY** **SANTA CLARITA, CA 91355**	**CHMIRS**	**S100219683** **N/A**

Relative: Lower

Actual: 1150 ft.

CHMIRS:

OES Control Number:	9010208
Chemical Name:	Not reported
Extent of Release:	Not reported
Property Use:	Educational
Incident Date:	06-APR-90
Date Completed:	06-APR-90
Time Completed :	1355
Agency Id Number :	19110
Agency Incident Number :	A-31
OES Incident Number :	9010208
Time Notified :	1134
Surrounding Area :	200
Estimated Temperature :	65
Property Management :	C
More Than Two Substances Involved? :	N
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	2
Others Number Of Decontaminated :	0
Others Number Of Injuries :	10
Others Number Of Fatalities :	0
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	MARTIN SCOTT 081235
Report Date :	06-APR-90
Comments :	No
Facility Telephone Number :	213 267-2401
Waterway Involved :	Not reported
Waterway :	Not reported
Spill Site :	Not reported
Cleanup By :	Not reported

(Continued) **S100219683**

Containment :	Not reported
What Happened :	Not reported
Type :	Not reported
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	Not reported
Evacuations :	Not reported

BO437
East
> 1
8369 ft.

Relative:
Higher

Actual:
1286 ft.

DISCOUNT TIRE CENTERS
20737 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351

RCRIS-SQG **1000857869**
FINDS **CAD983673195**

Site 1 of 7 in cluster BO

RCRIS:

Owner:	DISCOUNT TIRE CENTERS (805) 252-0823
EPA ID:	CAD983673195
Contact:	SAM KECKLER (805) 252-0823
Classification:	Small Quantity Generator
TSDF Activities:	Not reported
Violation Status:	No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

BP438
WSW
> 1
8371 ft.

Relative:
Lower

Actual:
1147 ft.

PAPALINOS MARKET AND DELI
24135 W MAGIC MOUNTAIN PKWY
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S102064264**
N/A

Site 1 of 4 in cluster BP

HMS:

Facility Id:	016754-022362		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

BL439
East
> 1
8385 ft.

Relative:
Higher

Actual:
1285 ft.

NATIONAL TECHNICAL SYSTEMS
20988 GOLDEN TRIANGLE ROAD
SAUGUS, CA 91350

NFE **S105954468**
N/A

Site 4 of 6 in cluster BL

NFE:

Facility ID	19890018
Dtsc Region Code :	3
Region Code Definition :	GLENDALE
County Code :	19
Site Name Under :	Not reported

NATIONAL TECHNICAL SYSTEMS (Continued) **S105954468**

Current Status Date : 06302003
Current Status Code : RR
Current Status : REMOVAL ACTION REQUIRED-USED FOR NON-AWP SITES
Lead Agency Code : EPA
Lead Agency : ENVIRONMENTAL PROTECTION AGENCY
Site Type Code : PASI
Site Type : FOR PA/SI SITES ONLY
National Priorities List : N
Tier : Not reported
Source Of Funding Code : Not reported
Staff Member : SCUTTS
Supervisor : Not reported
Sic Code : 89
Sic Code Definition : MISCELLANEOUS SERVICES
Site Mitigatn & Brnflds Reuse Prog (SMBR) Code : SA
SMBR Branch : SO CAL - GLENDALE
Regional Water Quality Control Board : LA
RWQCB Definition : LOS ANGELES
Site Access Controlled : Not reported
Listed In Haz Wst & Substncs Sites List (CORTESE): Not reported
Date Hazard Ranked : Not reported
GW Contamination Suspected : Not reported
Of Sources Contributing To Contamination : 0.00000
Lat/Long : 0.00000° 0.00000′ 0.00000″ / 0.00000° 0.00000′ 0.00000″
Direction Lat : Not reported
Direction Long : Not reported
Lat/long Method : Not reported
Entity Lat/long Coordinates Refer To : Not reported
State Assembly Distt Code : 38
State Senate Distt Code : 17
Identifying Code: Not reported
ID Value: Not reported
Other ID Desc: Not reported
Alternate Name(s): NATIONAL TECHNICAL SYSTEMS
Address(es) : 20988 GOLDEN TRIANGLE ROAD
SAUGUS, CA 91350
Background Info : Commercial use of the Site began in 1957, when the Marquardt
Background Info : Company began construction of a Research Test Laboratory to
Background Info : study the conditions and problems associated with hypersonic
Background Info : speeds. National Technical Systems, the present owner, took
Background Info : over the Site in the early 1960's and uses the Site for simulated
Background Info : and induced testing services for the aerospace, defense, and
Background Info : automotive industries. The Site has had regulatory involvement
Background Info : the Los Angeles County Department of Public Works, the Los
Background Info : Angeles County Fire Department, and the County of Los Angeles
Background Info : Department of health Services. In 1989 or 1990, a release of 800
Background Info : gallons of jet fuel to the ground occured. Also, an unknown
Background Info : quantity of waste oil and/or solvent had been dumped onto the
Background Info : ground. A site mitigation program was implemented in 1990, and a
Background Info : subsequent site assessment in 1991 showed non-detects for
Background Info : petroleum and BTEX. However, there were no analyses for
Background Info : perchlorate.
Background Info : Not reported
Background Info : NTS was cited in 1990 and agian in 1999 for storage of on-site
Background Info : hazardous waste (waste oil, kerosene, magnesium salt, magnesium
Background Info : chips, jet fuels, hydrazine, cooling tower waste) for more that

NATIONAL TECHNICAL SYSTEMS (Continued) **S105954468**

Background Info : the applicable accumulation period. NTS was also cited in 1999
Background Info : for a leaking 55-gallon drum in the hazardous waste storage area.
Background Info : Not reported
Background Info : Laboratory results for the PA with limited sampling performed by
Background Info : DTSC show elevated levels of perchlorate in four different
Background Info : locations.
Background Info : Not reported
Background Info : The groundwater pathway is of concern because the aquifers are
Background Info : interconnected.

Facility Id :	19890018
AWP Activities Code :	1.00000
DTSC Site Activity Code :	PEA
Activity Code Def:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Activity Id :	PEAE
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	06302003
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	RR
Status Code Definition :	REMOVAL ACTION REQUIRED-USED FOR NON-AWP SITES
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	
Special Program Code:	Not reported
Special Program :	Not reported
Comments Date :	06302003
Comments :	Preliminary Assessment with limited sampling for Federal EPA.

BL440
East
> 1
8385 ft.

NATIONAL TECHNICAL SYSTEMS **LOS ANGELES CO. HMS** **S105053482**
20988 GOLDEN TRIANGLE RD **N/A**
SANTA CLARITA, CA

Site 5 of 6 in cluster BL

Relative:
Higher

Actual:
1285 ft.

HMS:

Facility Id:	003909-004053		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	Removed		
Region:	Los Angeles County:		

BQ441
NNE
> 1
8386 ft.

JIM DANDY CLEANERS **CLEANERS** **S106245294**
27600 BOUQUET CYN RD **N/A**
SAUGUS, CA

Site 1 of 13 in cluster BQ

Relative:
Higher

Actual:
1276 ft.

CA Cleaners:

Inactive Date:	Not reported
EPA Id:	CAD982439366
Facility Address 2	Not reported
NAICS Code :	81232
Facility Active :	Yes
Mail Name :	Not reported
Mailing Address:	27600 BOUQUET CANYON RD

JIM DANDY CLEANERS (Continued) **S106245294**

SANTA CLARITA, CA 91350
Owner Name : YONG CHUN KIM
Mailing Address: 10540 BALBOA BLVD #216
GRANADA HILLS, CA 91344
Owner Telephone 8183601281
Contact Name : YONG C. KIM, OWNER
Mailing Address: 27600 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Contact Telephone 6612960397
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

BQ442 **JIM DANDY CLEANERS** **CLEANERS** **S106245295**
NNE **27600 BOUQUET CYN RD** **N/A**
> 1 **SAUGUS, CA**
8386 ft.

Site 2 of 13 in cluster BQ

Relative: Higher

Actual: 1276 ft.

CA Cleaners:
Inactive Date: Not reported
EPA Id: CAD982439366
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : Yes
Mail Name : Not reported
Mailing Address: 27600 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Owner Name : YONG CHUN KIM
Mailing Address: 10540 BALBOA BLVD #216
GRANADA HILLS, CA 91344
Owner Telephone 8183601281
Contact Name : YONG C. KIM, OWNER
Mailing Address: 27600 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Contact Telephone 6612960397
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

BQ443 **JIM DANDY CLEANERS** **CLEANERS** **S106245766**
NNE **27600 BOUQUET CANYON RD** **N/A**
> 1 **SAUGUS, CA**
8386 ft.

Site 3 of 13 in cluster BQ

Relative: Higher

Actual: 1276 ft.

CA Cleaners:
Inactive Date: 6/1/1996
EPA Id: CAL000029375
Facility Address 2 Not reported
NAICS Code : Not reported
Facility Active : No
Mail Name : Not reported
Mailing Address: PO BOX 2601
CALIFORNIA CITY, CA 93505
Owner Name : SCHULZ ROBERT & GISEL
Mailing Address: 27600 BOUQUET CANYON RD
SAUGUS, CA 93505

JIM DANDY CLEANERS (Continued) **S106245766**

Owner Telephone 8052960397
Contact Name : CANX VQ96 _____AH
Mailing Address: 27600 BOUQUET CANYON RD
SAUGUS, CA 93505
Contact Telephone 8052960397
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

BQ444 **JIM DANDY CLEANERS** **CLEANERS** **S106245296**
NNE **27600 BOUGUET CYN RD** **N/A**
> 1 **SAUGUS, CA**
8386 ft.

Site 4 of 13 in cluster BQ

Relative: Higher

Actual: 1276 ft.

CA Cleaners:
Inactive Date: Not reported
EPA Id: CAD982439366
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : Yes
Mail Name : Not reported
Mailing Address: 27600 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Owner Name : YONG CHUN KIM
Mailing Address: 10540 BALBOA BLVD #216
GRANADA HILLS, CA 91344
Owner Telephone 8183601281
Contact Name : YONG C. KIM, OWNER
Mailing Address: 27600 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Contact Telephone 6612960397
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

BQ445 **JIM DANDY CLEANERS** **CLEANERS** **S106245293**
NNE **27600 BOUGUET CYN RD** **N/A**
> 1 **SAUGUS, CA**
8386 ft.

Site 5 of 13 in cluster BQ

Relative: Higher

Actual: 1276 ft.

CA Cleaners:
Inactive Date: Not reported
EPA Id: CAD982439366
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : Yes
Mail Name : Not reported
Mailing Address: 27600 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Owner Name : YONG CHUN KIM
Mailing Address: 10540 BALBOA BLVD #216
GRANADA HILLS, CA 91344
Owner Telephone 8183601281
Contact Name : YONG C. KIM, OWNER
Mailing Address: 27600 BOUQUET CANYON RD
SANTA CLARITA, CA 91350

JIM DANDY CLEANERS (Continued) **S106245293**

Contact Telephone 6612960397
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

BQ446
NNE
> 1
8386 ft.

JIM DANDY CLEANERS
27600 BOUQUET CYN RD
SAUGUS, CA

CLEANERS **S106245767**
N/A

Site 6 of 13 in cluster BQ

Relative:
Higher

Actual:
1276 ft.

CA Cleaners:
Inactive Date: 6/30/1996
EPA Id: CAL000031260
Facility Address 2 Not reported
NAICS Code : Not reported
Facility Active : No
Mail Name : Not reported
Mailing Address: 27600 BOUQUET CYN RD
SAUGUS, CA 91350
Owner Name : SCHULZ BOB
Mailing Address: --
--, 99 --
Owner Telephone 0000000000
Contact Name : --
Mailing Address: --
--, 99 --
Contact Telephone -:
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

BO447
East
> 1
8391 ft.

SCV AUTO SPECIALIST
20733 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351

HAZNET **S105092984**
N/A

Site 2 of 7 in cluster BO

Relative:
Higher

Actual:
1286 ft.

HAZNET:
Gepaid: CAL000215030
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.74
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: MIKE LICITRA/OWNER
Telephone: (661) 251-7134
Mailing Address: 20733 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351
County Not reported

SCV AUTO SPECIALIST (Continued) **S105092984**

Gepaid: CAL000215030
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.7
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: MIKE LICITRA/OWNER
Telephone: (661) 251-7134
Mailing Address: 20733 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351
County Not reported

Gepaid: CAL000215030
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .7923
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: MARY LICITRA
Telephone: (661) 251-7134
Mailing Address: 20733 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351
County Los Angeles

Gepaid: CAL000215030
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4170
Waste Category: Unspecified aqueous solution
Disposal Method: Not reported
Contact: MARY LICITRA
Telephone: (661) 251-7134
Mailing Address: 20733 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351
County Los Angeles

448
ESE
> 1
8388 ft.

KENNCO PLUMBING INC
26575 RUETHER AVE
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S105696714**
N/A

Relative:
Higher

Actual:
1342 ft.

HMS:
Facility Id: 027071-038020
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: Permit
Region: Los Angeles County:

BQ449
NNE
> 1
8398 ft.

LA RUMBA
27600 N BOUQUET CANYON RD #100
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S105421917**
N/A

Site 7 of 13 in cluster BQ

Relative:
Higher

Actual:
1277 ft.

HMS:

Facility Id:	016648-037047		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

BQ450
NNE
> 1
8398 ft.

CAFE BOUQUET
27600 N BOUQUET CANYON RD #100
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S102064508**
N/A

Site 8 of 13 in cluster BQ

Relative:
Higher

Actual:
1277 ft.

HMS:

Facility Id:	016648-022168		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

BQ451
NNE
> 1
8398 ft.

BONGIOVANNI CHIROPRACTIC
27600 BOUQUET CANYON RD,
SAUGUS, CA 91350

HAZNET **S100930965**
N/A

Site 9 of 13 in cluster BQ

Relative:
Higher

Actual:
1277 ft.

HAZNET:

Gepaid:	CAL000087549
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.1876
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	MATTHEW BONGIOVANNI
Telephone:	(805) 296-2131
Mailing Address:	27600 BOUQUET CANYON RD, SAUGUS, CA 91350
County	Los Angeles

Gepaid:	CAL000087549
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.1876
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	MATTHEW BONGIOVANNI
Telephone:	(805) 296-2131
Mailing Address:	27600 BOUQUET CANYON RD, SAUGUS, CA 91350
County	Los Angeles

BONGIOVANNI CHIROPRACTIC (Continued) **S100930965**

Gepaid: CAL000087549
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .1250
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: MATTHEW BONGIOVANNI
Telephone: (805) 296-2131
Mailing Address: 27600 BOUQUET CANYON RD,
SAUGUS, CA 91350
County Los Angeles

Gepaid: CAL000087549
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .0625
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Not reported
Contact: MATTHEW BONGIOVANNI
Telephone: (805) 296-2131
Mailing Address: 27600 BOUQUET CANYON RD,
SAUGUS, CA 91350
County Los Angeles

Gepaid: CAL000087549
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: 0.0583
Waste Category:
Disposal Method: Recycler
Contact: MATTHEW BONGIOVANNI
Telephone: (805) 296-2131
Mailing Address: 27600 BOUQUET CANYON RD,
SAUGUS, CA 91350
County Los Angeles

Click this hyperlink while viewing on your computer to access
2 additional CA HAZNET record(s) in the EDR Site Report.

BQ452
NNE
> 1
8398 ft.

IM DANDY CLEANERS
27600 BOUGUET CYN RD
SAUGUS, CA 91350

HAZNET **S104574793**
N/A

Site 10 of 13 in cluster BQ

Relative:
Higher

Actual:
1277 ft.

HAZNET:
Gepaid: CAD982439366
TSD EPA ID: CAD981397417
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4252
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: YONG CHUN KIM
Telephone: (818) 780-5314
Mailing Address: 27600 BOUQUET CANYON RD

IM DANDY CLEANERS (Continued) **S104574793**

SANTA CLARITA, CA 91350 - 3711
County Los Angeles

Gepaid: CAD982439366
TSD EPA ID: CAD981397417
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3733
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: YONG CHUN KIM
Telephone: (818) 780-5314
Mailing Address: 27600 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 3711
County Los Angeles

Gepaid: CAD982439366
TSD EPA ID: OHD980587364
Gen County: Los Angeles
Tsd County: 99
Tons: .0990
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: YONG CHUN KIM
Telephone: (818) 780-5314
Mailing Address: 27600 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 3711
County Los Angeles

Gepaid: CAD982439366
TSD EPA ID: CAD981397417
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .8632
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: YONG CHUN KIM
Telephone: (818) 780-5314
Mailing Address: 27600 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 3711
County Los Angeles

Gepaid: CAD982439366
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 0.09
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: ***
Contact: YONG C. KIM, OWNER
Telephone: (661) 296-0397
Mailing Address: 27600 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 3711
County Not reported

Click this hyperlink while viewing on your computer to access
6 additional CA HAZNET record(s) in the EDR Site Report.

BQ453
NNE
> 1
8398 ft.

Relative:
Higher

Actual:
1277 ft.

JIM DANDY
27600 BOUGUET CYN RD
SAUGUS, CA 91350

RCRIS-SQG **1000593317**
FINDS **CAD982439366**
LOS ANGELES CO. HMS

Site 11 of 13 in cluster BQ

RCRIS:
Owner: YONG CHUN KIM
(805) 296-0397
EPA ID: CAD982439366

Contact: KIM YONG CHUN
(805) 296-0397

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HMS:
Facility Id: 008360-I08925
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

Facility Id: 008360-021195
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

BL454
East
> 1
8418 ft.

Relative:
Higher

Actual:
1286 ft.

NATIONAL TECHNICAL SYSTEMS
20979 GOLDEN TRIANGLE ROAD
SAUGUS, CA

CERCLIS **1006812599**
FINDS **CAN000905979**

Site 6 of 6 in cluster BL

CERCLIS Classification Data:
Site Incident Category: Not reported
Federal Facility: Not a Federal Facility
Non NPL Status: SI Ongoing
Ownership Status: Not reported
NPL Status: Not on the NPL
Contact: Betsy Curnow
Contact Tel: (415) 972-3093
Contact Title: Not reported
Contact: Jere Johnson
Contact Tel: (415) 972-3094
Contact Title: Not reported
CERCLIS Assessment History:
Assessment: DISCOVERY
Completed: 09/05/2002
Assessment: PRELIMINARY ASSESSMENT
Completed: 06/30/2003
CERCLIS Site Status:
High
CERCLIS Alias Name(s):
NTS

NATIONAL TECHNICAL SYSTEMS (Continued) **1006812599**

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Comperhensive Environmental Response, Compensation and Liability Information System (CERCLIS)

BQ455
NNE
> 1
8421 ft.

Relative:
Higher

Actual:
1277 ft.

MAIN STREET VIDIO **HAZNET** **S103976029**
27611 BOUQUET CYN RD **N/A**
SANTA CLARITA, CA 91350

Site 12 of 13 in cluster BQ

HAZNET:

Gepaid:	CAL000126273
TSD EPA ID:	CAT000613976
Gen County:	Los Angeles
Tsd County:	Orange
Tons:	.0416
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Transfer Station
Contact:	MAIN STREET VIDIO
Telephone:	(805) 297-7767
Mailing Address:	27611 BOUQUET CANYON RD SANTA CLARITA, CA 91350 - 1793
County	Los Angeles

BR456
East
> 1
8425 ft.

Relative:
Higher

Actual:
1282 ft.

ACRYLLIC CUSTOMS COLLISION & BODY INC **HAZNET** **S100943078**
20665 SANTA CLARA **N/A**
CANYON COUNTRY, CA 91351

Site 1 of 3 in cluster BR

HAZNET:

Gepaid:	CAD982005787
TSD EPA ID:	CAD008302903
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2293
Waste Category:	Paint sludge
Disposal Method:	Recycler
Contact:	CORPORATION
Telephone:	(000) 000-0000
Mailing Address:	20665 SANTA CLARA ST CANYON COUNTRY, CA 91351
County	Los Angeles

Gepaid:	CAD982005787
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0720
Waste Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	Transfer Station
Contact:	CORPORATION
Telephone:	(000) 000-0000
Mailing Address:	20665 SANTA CLARA ST CANYON COUNTRY, CA 91351
County	Los Angeles

ACRYLLIC CUSTOMS COLLISION & BODY INC (Continued) **S100943078**

Gepaid:	CAD982005787
TSD EPA ID:	CAD008302903
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.0713
Waste Category:	Paint sludge
Disposal Method:	Recycler
Contact:	CORPORATION
Telephone:	(000) 000-0000
Mailing Address:	20665 SANTA CLARA ST CANYON COUNTRY, CA 91351
County	Los Angeles

Gepaid:	CAD982005787
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.08
Waste Category:	Unspecified solvent mixture Waste
Disposal Method:	Recycler
Contact:	MICHAEL POLYAK
Telephone:	--
Mailing Address:	20665 SANTA CLARA ST CANYON COUNTRY, CA 91351
County	Not reported

Gepaid:	CAD982005787
TSD EPA ID:	CAD008302903
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2293
Waste Category:	Paint sludge
Disposal Method:	Recycler
Contact:	CORPORATION
Telephone:	(000) 000-0000
Mailing Address:	20665 SANTA CLARA ST CANYON COUNTRY, CA 91351
County	Los Angeles

Click this hyperlink while viewing on your computer to access
4 additional CA HAZNET record(s) in the EDR Site Report.

BR457
East
> 1
8425 ft.

R C ACRYLICS
20665 SANTA CLARA
CANYON COUNTRY, CA 91351

Site 2 of 3 in cluster BR

Relative:
Higher

Actual:
1282 ft.

RCRIS-SQG **1000101292**
FINDS **CAD982005787**

R C ACRYLICS (Continued) **1000101292**

RCRIS:
Owner: RICHARD MOAT
(415) 555-1212
EPA ID: CAD982005787
Contact: ENVIRONMENTAL MANAGER
(805) 251-5401
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

BR458
East
> 1
8425 ft.

Relative:
Higher

Actual:
1282 ft.

ROBERT SAUMERS **LOS ANGELES CO. HMS** **S102063999**
20665 W SANTA CLARA ST **N/A**
SANTA CLARITA, CA

Site 3 of 3 in cluster BR

HMS:
Facility Id: 013213-013521
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: Removed
Region: Los Angeles County:

459
North
> 1
8441 ft.

Relative:
Higher

Actual:
1525 ft.

HANK PAGE TRUCKING **RCRIS-SQG** **1000266963**
27511 N CATALA AVE **FINDS** **CAD981424005**
SAUGUS, CA 91350

RCRIS:
Owner: HANK PAGE TRUCKING
(415) 555-1212
EPA ID: CAD981424005
Contact: ENVIRONMENTAL MANAGER
(415) 555-1212
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
BO460 **East** **> 1** **8442 ft.**	**FRONTIER AUTO SERVICE** **20723 SOLEDAD CANYON RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103945035** **N/A**

Site 3 of 7 in cluster BO

Relative: Higher

Actual: 1287 ft.

HMS:

Facility Id:	020318-028912		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

BO461 **East** **> 1** **8442 ft.**	**IMPORT AUTO CARE** **20723 SOLEDAD CANYON RD** **CANYON COUNTRY, CA 91351**	**RCRIS-SQG** **FINDS**	**1000596098** **CAD983600610**

Site 4 of 7 in cluster BO

Relative: Higher

Actual: 1287 ft.

RCRIS:

Owner:	BERJ PROODIAN (805) 298-1440
EPA ID:	CAD983600610
Contact:	CLAUDE GROSSET (805) 298-1440
Classification:	Small Quantity Generator
TSDF Activities:	Not reported
Violation Status:	No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

Resource Conservation and Recovery Act Information system (RCRAINFO)

BP462 **WSW** **> 1** **8475 ft.**	**S & S AUTO GROUP** **24159 W MAGIC MOUNTAIN PKWY #B** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103945192** **N/A**

Site 2 of 4 in cluster BP

Relative: Lower

Actual: 1146 ft.

HMS:

Facility Id:	020037-028568		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BP463 WSW > 1 8475 ft.	**AMERICAN PIPE & CONSTR CO** **24159 MAGIC MOUNTAIN PKWY** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**U003059239** **N/A**

Site 3 of 4 in cluster BP

Relative: Lower

Actual: 1146 ft.

HMS:

Facility Id:	002931-I03032		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

BP464 WSW > 1 8475 ft.	**LIONS TOWING/LIONS MOTORS** **24159 MAGIC MOUNTAIN PKWY #A** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103945191** **N/A**

Site 4 of 4 in cluster BP

Relative: Lower

Actual: 1146 ft.

HMS:

Facility Id:	020036-028567		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

BN465 WSW > 1 8482 ft.	**MICHAEL D GOODLEY DDS INC** **23734 WEST VALENCIA BLVD** **VALENCIA, CA 91355**	**HAZNET**	**S103977368** **N/A**

Site 3 of 3 in cluster BN

Relative: Lower

Actual: 1152 ft.

HAZNET:

Gepaid:	CAL000160412
TSD EPA ID:	CAD108040858
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0208
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	MICHAEL D GOODLEY
Telephone:	(000) 000-0000
Mailing Address:	23734 VALENCIA BLVD STE 305
	VALENCIA, CA 91355 - 2100
County	Los Angeles

BS466 West > 1 8532 ft.	**AUTONATION VALENCIA HONDA** **23901 W CREEKSIDE RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S105193589** **N/A**

Site 1 of 17 in cluster BS

Relative: Lower

Actual: 1143 ft.

HMS:

Facility Id:	003255-036550		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		

AUTONATION VALENCIA HONDA (Continued) **S105193589**

Region: Los Angeles County:

BS467
West
> 1
8532 ft.

Relative:
Lower

Actual:
1143 ft.

TERRY YORKS VALENCIA HONDA
23901 CREEKSIDE ROAD
VALENCIA, CA 91355

HAZNET **S103990603**
N/A

Site 2 of 17 in cluster BS

HAZNET:

Gepaid: CAL000104639
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1876
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Contact: TERRY YORKS
Telephone: (805) 255-5551
Mailing Address: 23901 CREEKSIDE ROAD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000104639
TSD EPA ID: CAL000161743
Gen County: Los Angeles
Tsd County: Santa Clara
Tons: .3127
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Recycler
Contact: TERRY YORKS
Telephone: (805) 255-5551
Mailing Address: 23901 CREEKSIDE ROAD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000104639
TSD EPA ID: CAT080033681
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1000
Waste Category: Unspecified oil-containing waste
Disposal Method: Disposal, Land Fill
Contact: TERRY YORKS
Telephone: (805) 255-5551
Mailing Address: 23901 CREEKSIDE ROAD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000104639
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.225
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Contact: TERRY YORKS
Telephone: (805) 255-5551
Mailing Address: 23901 CREEKSIDE ROAD
VALENCIA, CA 91355
County Los Angeles

TERRY YORKS VALENCIA HONDA (Continued) **S103990603**

Gepaid: CAL000104639
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.125
Waste Category: Other organic solids
Disposal Method: Recycler
Contact: TERRY YORKS
Telephone: (805) 255-5551
Mailing Address: 23901 CREEKSIDE ROAD
VALENCIA, CA 91355
County Los Angeles

Click this hyperlink while viewing on your computer to access
4 additional CA HAZNET record(s) in the EDR Site Report.

BS468
West
> 1
8532 ft.

Relative:
Lower

Actual:
1143 ft.

23901 CREEKSIDE RD
VALENCIA, CA 25819

HAZNET **S103644927**
CHMIRS **N/A**

Site 3 of 17 in cluster BS

HAZNET:

Gepaid: CAD982475659
TSD EPA ID: CAT080011059
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.0850
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: TERRY YORK'S VALENCIA HONDA
Telephone: (805) 255-5551
Mailing Address: 23901 CREEKSIDE RD
VALENCIA, CA 91355 - 1703
County Los Angeles

Gepaid: CAD982475659
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.2309
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: TERRY YORK'S VALENCIA HONDA
Telephone: (805) 255-5551
Mailing Address: 23901 CREEKSIDE RD
VALENCIA, CA 91355 - 1703
County Los Angeles

Gepaid: CAD982475659
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 3.9615
Waste Category: Oil/water separation sludge
Disposal Method: Recycler
Contact: TERRY YORK'S VALENCIA HONDA
Telephone: (805) 255-5551
Mailing Address: 23901 CREEKSIDE RD

(Continued) **S103644927**

VALENCIA, CA 91355 - 1703
County Los Angeles

Gepaid: CAD982475659
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .5629
Waste Category: Unspecified aqueous solution
Disposal Method: Not reported
Contact: TERRY YORK'S VALENCIA HONDA
Telephone: (805) 255-5551
Mailing Address: 23901 CREEKSIDE RD
VALENCIA, CA 91355 - 1703
County Los Angeles

Gepaid: CAD982475659
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1250
Waste Category: Other organic solids
Disposal Method: Treatment, Incineration
Contact: TERRY YORK'S VALENCIA HONDA
Telephone: (805) 255-5551
Mailing Address: 23901 CREEKSIDE RD
VALENCIA, CA 91355 - 1703
County Los Angeles

Click this hyperlink while viewing on your computer to access
13 additional CA HAZNET record(s) in the EDR Site Report.

CHMIRS:

OES Control Number:	99-4265
Chemical Name:	Hydraulic Fluid
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	99-4265
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported

(Continued) **S103644927**

Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Merchant/Business
Cleanup By :	Unknown
Containment :	Yes
What Happened :	RP was doing sub-surface investigation, evidence that in the past hydraulic fluid had been released into the ground. Additional investigation will be performed to determine the extend of the release. .
Type :	PETROLEUM
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	10/7/99 1400
Evacuations :	0

BS469 **TERRY YORK HONDA** **LA Co. Site Mitigation** **S105254733**
West **23901 CREEKSIDE RD** **N/A**
> 1 **SCV, CA 91355**
8532 ft.

Site 4 of 17 in cluster BS

Relative:
Lower

Site Mitigation Log:

Case Number:	01S512
Abatement Date:	11/04/03
Thomas Guide Page Numbers:	4550G3

Actual:
1143 ft.

BS470 **VALENCIA HONDA** **LOS ANGELES CO. HMS** **U002278980**
West **23901 W CREEKSIDE RD** **N/A**
> 1 **SANTA CLARITA, CA**
8532 ft.

Site 5 of 17 in cluster BS

Relative:
Lower

HMS:

Facility Id:	003255-I03369		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

Actual:
1143 ft.

Facility Id:	003255-021684		
Area:	7A		
Facility Type:	T1		
Permit Number:	174	Permit Status:	Removed
Facility Status:	Removed		

VALENCIA HONDA (Continued) **U002278980**

Region: Los Angeles County:

BS471
West
> 1
8532 ft.

Relative:
Lower

Actual:
1143 ft.

VALENCIA MOTORS GROUP
23901 CREEKSIDE RD
VALENCIA, CA 91355

RCRIS-SQG **1000207307**
FINDS **CAD982475659**
HAZNET

Site 6 of 17 in cluster BS

RCRIS:
Owner: HODGE TOM
(415) 555-1212
EPA ID: CAD982475659

Contact: ENVIRONMENTAL MANAGER
(805) 255-5551

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAL000015874
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3544
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: VALENCIA MOTORS GROUP
Telephone: (805) 255-5551
Mailing Address: 23901 CREEKSIDE RD
VALENCIA, CA 91355 - 1703
County Los Angeles

BS472
West
> 1
8532 ft.

Relative:
Lower

Actual:
1143 ft.

TERRY YORK'S VALENCIA HONDA
23901 W CREEKSIDE RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S102064231**
N/A

Site 7 of 17 in cluster BS

HMS:
Facility Id: 003255-023266
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
BT473 **SE** **> 1** **8551 ft.**	**BOCCHI LABORATORIES INC** **26421 GOLDEN VALLEY RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S102064449** **N/A**

Site 1 of 11 in cluster BT

Relative: Higher

Actual: 1382 ft.

HMS:

Facility Id:	008033-020233		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

BT474 **SE** **> 1** **8551 ft.**	**VALENCIA LABORATORY** **26421 GOLDEN VALLEY RD** **SANTA CLARITA, CA**	**HAZNET** **LOS ANGELES CO. HMS**	**U003063750** **N/A**

Site 2 of 11 in cluster BT

Relative: Higher

Actual: 1382 ft.

HAZNET:

Gepaid:	CAL000174919
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.28
Waste Category:	Unspecified aqueous solution
Disposal Method:	Transfer Station
Contact:	R ESPEJO/REGULATORY AFFAIRS
Telephone:	(909) 598-1951
Mailing Address:	20465 E WALNUT DR N WALNUT, CA 91789 - 2918
County	Not reported

Gepaid:	CAL000174919
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.02
Waste Category:	Laboratory waste chemicals
Disposal Method:	Transfer Station
Contact:	R ESPEJO/REGULATORY AFFAIRS
Telephone:	(909) 598-1951
Mailing Address:	20465 E WALNUT DR N WALNUT, CA 91789 - 2918
County	Not reported

HMS:

Facility Id:	008033-I08532		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BT475 SE > 1 8551 ft.	**STAR LABORATORIES INC 26421 N GOLDEN VALLEY RD SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S102064450 N/A**

Site 3 of 11 in cluster BT

Relative: Higher

Actual: 1382 ft.

HMS:

Facility Id:	009155-008532		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

BO476 East > 1 8552 ft.	**IFFY LUBE #680 20703 SOLEDAD CANYON RD CANYON COUNTRY, CA 91351**	**HAZNET AST**	**S104581761 N/A**

Site 5 of 7 in cluster BO

Relative: Higher

Actual: 1288 ft.

HAZNET:

Gepaid:	CAL000190089
TSD EPA ID:	CAD981696420
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0
Waste Category:	
Disposal Method:	Transfer Station
Contact:	MIZAR LLC
Telephone:	(000) 000-0000
Mailing Address:	20703 SOLEDAD CANYON RD CANYON COUNTRY, CA 91351
County	Los Angeles

Gepaid:	CAL000190089
TSD EPA ID:	CAD981696420
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.834
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Not reported
Contact:	MIZAR LLC
Telephone:	(000) 000-0000
Mailing Address:	20703 SOLEDAD CANYON RD CANYON COUNTRY, CA 91351
County	Los Angeles

Gepaid:	CAL000190089
TSD EPA ID:	CAD981696420
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	6.4925
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	MIZAR LLC
Telephone:	(000) 000-0000
Mailing Address:	20703 SOLEDAD CANYON RD CANYON COUNTRY, CA 91351
County	Los Angeles

IFFY LUBE #680 (Continued) **S104581761**

Gepaid: CAL000190089
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.58
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: JUAN PEREZ DM
Telephone: (661) 222-9367
Mailing Address: 20703 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351
County Not reported

Gepaid: CAL000190089
TSD EPA ID: CAD981696420
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 10.1121
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: MIZAR LLC
Telephone: (000) 000-0000
Mailing Address: 20703 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351
County Los Angeles

AST:
Owner: JIFFY LUBE
Total Gallons: 1400

BO477 **CANYON COUNTRY LUBRICATION** **HAZNET** **S103640931**
East **20703 SOLEDAD CANYON ROAD** **N/A**
> 1 **CANYON COUNTRY, CA 91351**
8552 ft.

Site 6 of 7 in cluster BO

Relative: Higher

Actual: 1288 ft.

HAZNET:
Gepaid: CAL000031064
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .5628
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: REYNOLDS BYRON
Telephone: (000) 000-0000
Mailing Address: 20703 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351 - 2440
County Los Angeles

Gepaid: CAL000031064
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.9606
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: REYNOLDS BYRON
Telephone: (000) 000-0000
Mailing Address: 20703 SOLEDAD CANYON RD

CANYON COUNTRY LUBRICATION (Continued) **S103640931**

CANYON COUNTRY, CA 91351 - 2440
County Los Angeles

Gepaid: CAL000031064
TSD EPA ID: CAT080011059
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: REYNOLDS BYRON
Telephone: (000) 000-0000
Mailing Address: 20703 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351 - 2440
County Los Angeles

Gepaid: CAL000031064
TSD EPA ID: CAD981696420
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.9382
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: REYNOLDS BYRON
Telephone: (000) 000-0000
Mailing Address: 20703 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351 - 2440
County Los Angeles

BO478 **IFFY LUBE** **LOS ANGELES CO. HMS** **S105696673**
East **20703 W SOLEDAD CANYON RD** **N/A**
> 1 **SANTA CLARITA, CA**
8552 ft.

Site 7 of 7 in cluster BO

Relative:
Higher

Actual:
1288 ft.

HMS:
Facility Id: 009295-009096
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

Facility Id: 009295-028911
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
BU479 **NNW** **> 1** **8558 ft.** **Relative:** **Higher** **Actual:** **1265 ft.**	**ROLL OFF SERVICE INC.** **27258 SECO CANYON RD** **SANTA CLARITA, CA** **Site 1 of 4 in cluster BU** HMS: Facility Id: 020266-028847 Area: 7A Facility Type: Not reported Permit Number: 174 — Permit Status: Not reported Facility Status: OPEN Region: Los Angeles County:	**LOS ANGELES CO. HMS**	**S103945517** **N/A**
BU480 **NNW** **> 1** **8558 ft.** **Relative:** **Higher** **Actual:** **1265 ft.**	**CIRCLE K** **27258 SECO CANYON RD** **SANTA CLARITA, CA** **Site 2 of 4 in cluster BU** HMS: Facility Id: 020267-028848 Area: 7A Facility Type: Not reported Permit Number: 174 — Permit Status: Not reported Facility Status: OPEN Region: Los Angeles County:	**LOS ANGELES CO. HMS**	**S103945518** **N/A**
BQ481 **NNE** **> 1** **8567 ft.** **Relative:** **Higher** **Actual:** **1283 ft.**	**ALBERTSONS #6360** **27631 N BOUQUET CANYON RD** **SANTA CLARITA, CA** **Site 13 of 13 in cluster BQ** HMS: Facility Id: 007471-I07851 Area: 7A Facility Type: I01 Permit Number: 174 — Permit Status: Closed Facility Status: Permit Region: Los Angeles County:	**LOS ANGELES CO. HMS**	**S104536200** **N/A**
BT482 **SE** **> 1** **8621 ft.** **Relative:** **Higher** **Actual:** **1382 ft.**	**26417 GOLDEN VALLEY RD** **26417 GOLDEN VALLEY RD** **SANTA CLARITA, CA 91350** **Site 4 of 11 in cluster BT** Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.	**ERNS**	**91241955** **N/A**

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
BS483 **West** **> 1** **8639 ft.**	**MAGIC FORD** **23920 CREEKSIDE RD** **VALENCIA, CA 91355**	**RCRIS-SQG** **FINDS** **HAZNET** **CHMIRS** **EMI**	**1000246429** **CAD981637408**

Site 8 of 17 in cluster BS

Relative:
Lower

Actual:
1142 ft.

RCRIS:

Owner: MAGIC FORD LINCOLN MERCURY
(415) 555-1212
EPA ID: CAD981637408

Contact: ENVIRONMENTAL MANAGER
(415) 555-1212

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
National Emissions Trends (NET)
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid: CAD981637408
TSD EPA ID: CAD093459485
Gen County: Los Angeles
Tsd County: Fresno
Tons: .0583
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)
Disposal Method: Transfer Station
Contact: AUTO NATION
Telephone: (805) 255-6600
Mailing Address: 23920 CREEKSIDE RD
VALENCIA, CA 91355 - 1701
County Los Angeles

Gepaid: CAD981637408
TSD EPA ID: CAD982444481
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: .1075
Waste Category: Empty containers less than 30 gallons
Disposal Method: Recycler
Contact: AUTO NATION
Telephone: (805) 255-6600
Mailing Address: 23920 CREEKSIDE RD
VALENCIA, CA 91355 - 1701
County Los Angeles

Gepaid: CAD981637408
TSD EPA ID: CAT000646117
Gen County: Los Angeles
Tsd County: Kings
Tons: 2.5284
Waste Category: Empty containers less than 30 gallons
Disposal Method: Disposal, Land Fill
Contact: AUTO NATION
Telephone: (805) 255-6600
Mailing Address: 23920 CREEKSIDE RD
VALENCIA, CA 91355 - 1701

MAGIC FORD (Continued) **1000246429**

County Los Angeles

Gepaid: CAD981637408
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 17.6180
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: AUTO NATION
Telephone: (805) 255-6600
Mailing Address: 23920 CREEKSIDE RD
VALENCIA, CA 91355 - 1701
County Los Angeles

Gepaid: CAD981637408
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.9607
Waste Category: Unspecified aqueous solution
Disposal Method: Not reported
Contact: AUTO NATION
Telephone: (805) 255-6600
Mailing Address: 23920 CREEKSIDE RD
VALENCIA, CA 91355 - 1701
County Los Angeles

Click this hyperlink while viewing on your computer to access 54 additional CA HAZNET record(s) in the EDR Site Report.

CHMIRS:

OES Control Number:	01-5643
Chemical Name:	hydrolic fluid
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	01-5643
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported

MAGIC FORD (Continued) **1000246429**

Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Merchant/Business
Cleanup By :	Contractor
Containment :	Yes
What Happened :	Historic Spill: Contaminated soil sample. Per the caller the spill has been there for several years.
Type :	PETROLEUM
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	10/5/01 1200
Evacuations :	0

EMISSIONS :

Facility ID :	65386
Air District Code :	SC
SIC Code :	5511
Total Priority Score :	Not reported
Health Risk Assessment :	Not reported
Non-cancer Chronic Haz Index :	Not reported
Non-cancer Acute Haz Index :	Not reported
Air Basin :	SC
Air District Name :	SOUTH COAST AQMD
Community Health Air Pollution Info System :	Not reported
Consolidated Emission Reporting Rule :	Not reported
County Code :	19
County ID :	19

BS484 **MAGIC FORD** **LOS ANGELES CO. HMS** **S104536569**
West **23920 W CREEKSIDE RD** **N/A**
> 1 **SANTA CLARITA, CA**
8639 ft.

Site 9 of 17 in cluster BS

Relative:
Lower

HMS:

Facility Id:	007500-I07884		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

Actual:
1142 ft.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BS485 West > 1 8639 ft.	**MAGIC FORD LINCOLN/MERCURY** **23920 W CREEKSIDE RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S104536570** **N/A**

Site 10 of 17 in cluster BS

Relative: Lower **Actual: 1142 ft.**

HMS:
Facility Id: 007500-007884
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BS486 West > 1 8650 ft.	**VALENCIA AMC EEP** **23923 W CREEKSIDE RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S102064240** **N/A**

Site 11 of 17 in cluster BS

Relative: Lower **Actual: 1142 ft.**

HMS:
Facility Id: 007904-013172
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BS487 West > 1 8650 ft.	**VALENCIA CHRYSLER EEP EAGLE** **23923 W CREEKSIDE RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S102064241** **N/A**

Site 12 of 17 in cluster BS

Relative: Lower **Actual: 1142 ft.**

HMS:
Facility Id: 007904-020329
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BS488 West > 1 8650 ft.	**VALENCIA AMC JEEP** **23923 CREEKSIDE RD** **VALENCIA, CA 91355**	**UST**	**U003777095** **N/A**

Site 13 of 17 in cluster BS

Relative: Lower **Actual: 1142 ft.**

State UST:
Facility ID: 013172
Region: STATE
Local Agency: 19000

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
BS489 **West** **> 1** **8650 ft.**	**VALENCIA JEEP EAGLE** **23923 CREEKSIDE RD** **VALENCIA, CA 91355**	**RCRIS-SQG** **FINDS** **HAZNET**	**1000207305** **CAD982371999**

Site 14 of 17 in cluster BS

Relative:
Lower

Actual:
1142 ft.

RCRIS:

Owner: VALENCIA JEEP EAGLE
(805) 287-4170
EPA ID: CAD982371999

Contact: BILL FENNER
(805) 287-4170

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid: CAD982371999
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 3.8864
Waste Category: Oil/water separation sludge
Disposal Method: Not reported
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 23923 CREEKSIDE RD
VALENCIA, CA 91355 - 1703
County Los Angeles

Gepaid: CAD982371999
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3336
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 23923 CREEKSIDE RD
VALENCIA, CA 91355 - 1703
County Los Angeles

Gepaid: CAD982371999
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 4.6912
Waste Category: Oil/water separation sludge
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 23923 CREEKSIDE RD
VALENCIA, CA 91355 - 1703
County Los Angeles

VALENCIA JEEP EAGLE (Continued) **1000207305**

Gepaid:	CAD982371999
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0000
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Not reported
Contact:	Not reported
Telephone:	(000) 000-0000
Mailing Address:	23923 CREEKSIDE RD VALENCIA, CA 91355 - 1703
County	Los Angeles

Gepaid:	CAD982371999
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.8965
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Contact:	Not reported
Telephone:	(000) 000-0000
Mailing Address:	23923 CREEKSIDE RD VALENCIA, CA 91355 - 1703
County	Los Angeles

Click this hyperlink while viewing on your computer to access
7 additional CA HAZNET record(s) in the EDR Site Report.

BS490 **CHMIRS** **S105659601**
West **23923 CREEKSIDE RD** **N/A**
> 1 **VALENCIA, CA**
8650 ft.

Site 15 of 17 in cluster BS

Relative:
Lower

Actual:
1142 ft.

CHMIRS:

OES Control Number:	99-4267
Chemical Name:	Hydraulic Fluid
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	99-4267
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0

(Continued) **S105659601**

Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Merchant/Business
Cleanup By :	Unknown
Containment :	Yes
What Happened :	RP was doing sub-surface investigation, evidence that in the past, hydraulic fluid had been released into the ground. Additional investigation will be performed to determine the extent of release.
Type :	PETROLEUM
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	10/7/99 1400
Evacuations :	0

BS491 **TERRY YORK CHRYSLER** **LA Co. Site Mitigation** **S105254734**
West **23923 CREEKSIDE RD** **N/A**
> 1 **SCV, CA 91355**
8650 ft.

Site 16 of 17 in cluster BS

Relative:
Lower

Site Mitigation Log:

Case Number:	01S513
Abatement Date:	11/04/03
Thomas Guide Page Numbers:	4550G3

Actual:
1142 ft.

BS492 **VALENCIA EEP EAGLE** **LOS ANGELES CO. HMS** **U003063628**
West **23923 W CREEKSIDE RD** **N/A**
> 1 **SANTA CLARITA, CA**
8650 ft.

Site 17 of 17 in cluster BS

Relative:
Lower

HMS:

Facility Id:	007904-I08371		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

Actual:
1142 ft.

BV493
NNE
> 1
8655 ft.

Relative:
Higher

Actual:
1288 ft.

ONE HR MARTINIZING
27645 BOUQUET CYN RD
SAUGUS, CA 91350

RCRIS-SQG **1000118274**
HAZNET **CAD981637135**

Site 1 of 5 in cluster BV

RCRIS:
Owner: TOM JONES
(415) 555-1212
EPA ID: CAD981637135

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

HAZNET:
Gepaid: CAD981637135
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1400
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 27645 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 1793
County Los Angeles

Gepaid: CAD981637135
TSD EPA ID: CAT000613992
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0700
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 27645 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 1793
County Los Angeles

Gepaid: CAD981637135
TSD EPA ID: CAT000613992
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3700
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Not reported
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 27645 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 1793
County Los Angeles

ONE HR MARTINIZING (Continued) **1000118274**

Gepaid: CAD981637135
TSD EPA ID: CAT000613992
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0700
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Not reported
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 27645 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 1793
County Los Angeles

Gepaid: CAD981637135
TSD EPA ID: CAT000613992
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2100
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 27645 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 1793
County Los Angeles

Click this hyperlink while viewing on your computer to access
1 additional CA HAZNET record(s) in the EDR Site Report.

BV494
NNE
> 1
8655 ft.

Relative:
Higher

Actual:
1288 ft.

BOUQUET CLEANERS
27645 BOUQUET CANYON RD
SCV, CA 91350

LA Co. Site Mitigation **S104493044**
N/A

Site 2 of 5 in cluster BV

Site Mitigation Log:
Case Number: 99S458
Abatement Date: 01/20/00
Thomas Guide Page Numbers: 4461B6

BV495
NNE
> 1
8655 ft.

Relative:
Higher

Actual:
1288 ft.

BOUQUET CLEANERS
27645 BOUQUET CANYON RD
SAUGUS, CA 91350

RCRIS-SQG **1000350739**
FINDS **CAD981635238**
CLEANERS

Site 3 of 5 in cluster BV

BOUQUET CLEANERS (Continued) **1000350739**

RCRIS:
Owner: HARRY BICAKCI
(805) 297-3856
EPA ID: CAD981635238

Contact: NANCY HINDENBURG
(559) 224-7705

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

CA Cleaners:
Inactive Date: 11/19/2001
EPA Id: CAD981635238
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : No
Mail Name : HARUTYUN BICAKCI OWNER
Mailing Address: 27645 BOUQUET CANYON RD
SAUGUS, CA 91350
Owner Name : HARUTYUN A. BICAKCI
Mailing Address: 27645 BOUQUET CANYON RD
SAUGUS, CA 91390
Owner Telephone 6612973856
Contact Name : 21615 CANYON HEIGHTS CIRCLE
Mailing Address: INACT PER N.HINDENBURG,MB 11-20-01
SAUGUS, CA 91390
Contact Telephone 6612631035
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

Inactive Date: 11/19/2001
EPA Id: CAD981635238
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : No
Mail Name : HARUTYUN BICAKCI OWNER
Mailing Address: 27645 BOUQUET CANYON RD
SAUGUS, CA 91350
Owner Name : HARUTYUN A. BICAKCI
Mailing Address: 27645 BOUQUET CANYON RD
SAUGUS, CA 91390
Owner Telephone 6612973856
Contact Name : 21615 CANYON HEIGHTS CIRCLE
Mailing Address: INACT PER N.HINDENBURG,MB 11-20-01
SAUGUS, CA 91390
Contact Telephone 6612631035
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

BOUQUET CLEANERS (Continued) **1000350739**

Inactive Date: 11/19/2001
EPA Id: CAD981635238
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : No
Mail Name : HARUTYUN BICAKCI OWNER
Mailing Address: 27645 BOUQUET CANYON RD
SAUGUS, CA 91350
Owner Name : HARUTYUN A. BICAKCI
Mailing Address: 27645 BOUQUET CANYON RD
SAUGUS, CA 91390
Owner Telephone 6612973856
Contact Name : 21615 CANYON HEIGHTS CIRCLE
Mailing Address: INACT PER N.HINDENBURG,MB 11-20-01
SAUGUS, CA 91390
Contact Telephone 6612631035
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

Inactive Date: 11/19/2001
EPA Id: CAD981635238
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : No
Mail Name : HARUTYUN BICAKCI OWNER
Mailing Address: 27645 BOUQUET CANYON RD
SAUGUS, CA 91350
Owner Name : HARUTYUN A. BICAKCI
Mailing Address: 27645 BOUQUET CANYON RD
SAUGUS, CA 91390
Owner Telephone 6612973856
Contact Name : 21615 CANYON HEIGHTS CIRCLE
Mailing Address: INACT PER N.HINDENBURG,MB 11-20-01
SAUGUS, CA 91390
Contact Telephone 6612631035
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

BV496 **BOUQUET ONE HOUR MARTINIZING** **HAZNET** **S103953092**
NNE **27645 BOUQUET CANYON RD** **N/A**
> 1 **SAUGUS, CA 91350**
8655 ft.

Site 4 of 5 in cluster BV

Relative: Higher

Actual: 1288 ft.

HAZNET:
Gepaid: CAD981635238
TSD EPA ID: AZD009015389
Gen County: Los Angeles
Tsd County: 99
Tons: .1117
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 529 E SHIELDS AVE
FRESNO, CA 93704

BOUQUET ONE HOUR MARTINIZING (Continued) **S103953092**

County Los Angeles

Gepaid: CAD981635238
TSD EPA ID: CAD981397417
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3566
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 529 E SHIELDS AVE
FRESNO, CA 93704
County Los Angeles

Gepaid: CAD981635238
TSD EPA ID: CAD981397417
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.4101
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 529 E SHIELDS AVE
FRESNO, CA 93704
County Los Angeles

Gepaid: CAD981635238
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.1
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Transfer Station
Contact: NANCY HINDENBURG/OFF MGR
Telephone: (661) 297-3856
Mailing Address: 27645 BOUQUET CANYON RD
SAUGUS, CA 91350
County Not reported

Gepaid: CAD981635238
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.53
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: NANCY HINDENBURG/OFF MGR
Telephone: (661) 297-3856
Mailing Address: 27645 BOUQUET CANYON RD
SAUGUS, CA 91350
County Not reported

Click this hyperlink while viewing on your computer to access
11 additional CA HAZNET record(s) in the EDR Site Report.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number

BW497
WSW
> 1
8659 ft.

SANTA CLARITA SHERIFF
23747 VALENCIA BLVD
VALENCIA, CA 90063

HIST UST **U001562372**
N/A

Site 1 of 4 in cluster BW

Relative:
Lower

Actual:
1151 ft.

UST HIST:

Facility ID:	20838	Owner Name:	LOS ANGELES COUNTY MECHANICAL
Total Tanks:	2	Region:	STATE
Owner Address:	1100 NO. EASTERN AVENUE LOS ANGELES, CA 90063		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	#01
Tank Capacity:	00004000	Year Installed:	Not reported
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	Not reported		
Contact Name:	L.A. COUNTY MECHANICAL DEPT.	Telephone:	(213) 267-2242
Facility Type:	Other	Other Type:	SHERIFF

Facility ID:	20838	Owner Name:	LOS ANGELES COUNTY MECHANICAL
Total Tanks:	2	Region:	STATE
Owner Address:	1100 NO. EASTERN AVENUE LOS ANGELES, CA 90063		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	#02
Tank Capacity:	00004000	Year Installed:	Not reported
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	L.A. COUNTY MECHANICAL DEPT.	Telephone:	(213) 267-2242
Facility Type:	Other	Other Type:	SHERIFF

BW498
WSW
> 1
8659 ft.

NEWHALL-VALENCIA CIVIC CT
23747 W VALENCIA BLVD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **U003056599**
N/A

Site 2 of 4 in cluster BW

Relative:
Lower

Actual:
1151 ft.

HMS:

Facility Id:	000145-I00146		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

BX499
WSW
> 1
8663 ft.

MIMIS CAFE
24201 W MAGIC MOUNTAIN PKWY
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103317739**
N/A

Site 1 of 2 in cluster BX

Relative:
Lower

Actual:
1145 ft.

HMS:

Facility Id:	008299-025410		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BX500 WSW > 1 8663 ft.	**TONY ROMAS 24201 W MAGIC MOUNTAIN PKWY SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**U003063979 N/A**

Site 2 of 2 in cluster BX

Relative: Lower

Actual: 1145 ft.

HMS:

Facility Id:	008299-I08855		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

BV501 NNE > 1 8669 ft.	**1 HOUR PHOTO EXPRESS 27647 BOUQUET CANYON RD SAUGUS, CA 91350**	**HAZNET**	**S102815478 N/A**

Site 5 of 5 in cluster BV

Relative: Higher

Actual: 1288 ft.

HAZNET:

Gepaid:	CAL000077569
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.0070
Waste Category:	Other inorganic solid waste
Disposal Method:	Recycler
Contact:	1 HOUR PHOTO EXPRESS
Telephone:	(000) 000-0000
Mailing Address:	27647 BOUQUET CANYON RD SAUGUS, CA 91350
County	Los Angeles

Gepaid:	CAL000077569
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.0495
Waste Category:	Metal sludge - Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
Disposal Method:	Recycler
Contact:	1 HOUR PHOTO EXPRESS
Telephone:	(000) 000-0000
Mailing Address:	27647 BOUQUET CANYON RD SAUGUS, CA 91350
County	Los Angeles

BT502 SE > 1 8685 ft.	**HI-SHEAR TECHNOLOGY CORP 26413 N GOLDEN VALLEY RD SAUGUS, CA 91350**	**CERCLIS RCRIS-SQG FINDS**	**1000381482 CAD981158561**

Site 5 of 11 in cluster BT

Relative: Higher

Actual: 1384 ft.

HI-SHEAR TECHNOLOGY CORP (Continued) **1000381482**

CERCLIS Classification Data:
Site Incident Category: Not reported
Non NPL Status: PA Ongoing
Ownership Status: Not reported
Contact: Betsy Curnow
Contact Title: Not reported
Contact: Jere Johnson
Contact Title: Not reported
Site Description: Part of the Santa Clarita Study Area

Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Contact Tel: (415) 972-3093
Contact Tel: (415) 972-3094

CERCLIS Assessment History:
Assessment: DISCOVERY
Completed: 09/05/2002

CERCLIS Site Status:
Not reported

CERCLIS Alias Name(s):
HI-SHEAR

RCRIS:
Owner: NOT REQUIRED
(415) 555-1212
EPA ID: CAD981158561

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Comperhensive Environmental Response, Compensation and Liability Information System (CERCLIS)
Resource Conservation and Recovery Act Information system (RCRAINFO)

---

503 North > 1 8704 ft. **CHRIS AND PATTY FRENCH**
22438 GUADILAMAR
SAUGUS, CA 91350

HAZNET **S103643269**
N/A

Relative: Higher

Actual: 1377 ft.

HAZNET:
Gepaid: CAC001263448
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2085
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: CHRIS OR PATTY FRENCH
Telephone: (000) 000-0000
Mailing Address: 22438 GUADILAMAR
SAUGUS, CA 91350
County Los Angeles

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
BT504 **SE** **> 1** **8716 ft.**	**BLUE CROSS LABORATORIES INC** **26411 N GOLDEN VALLEY RD** **SAUGUS, CA 91350**	**RCRIS-SQG** **FINDS** **HAZNET** **LOS ANGELES CO. HMS**	**1000196321** **CAD982521122**

Site 6 of 11 in cluster BT

Relative: Higher

Actual: 1384 ft.

RCRIS:

Owner: BLUE CROSS LABORATORIES
(415) 555-1212
EPA ID: CAD982521122

Contact: ENVIRONMENTAL MANAGER
(805) 255-0955

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
National Compliance Database (NCDB)

HAZNET:

Gepaid: CAD982521122
TSD EPA ID: CAT080033681
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4170
Waste Category: Alkaline solution without metals (pH > 12.5)
Disposal Method: Recycler
Contact: DARRELL MAHLER
Telephone: (805) 255-0955
Mailing Address: 26411 N GOLDEN VALLEY RD
SAUGUS, CA 91350
County Los Angeles

Gepaid: CAD982521122
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.4386
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Contact: DARRELL MAHLER
Telephone: (805) 255-0955
Mailing Address: 26411 N GOLDEN VALLEY RD
SAUGUS, CA 91350
County Los Angeles

Gepaid: CAD982521122
TSD EPA ID: CAT080033681
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2085
Waste Category: Liquids with pH <UN-> 2
Disposal Method: Recycler
Contact: DARRELL MAHLER
Telephone: (805) 255-0955
Mailing Address: 26411 N GOLDEN VALLEY RD
SAUGUS, CA 91350
County Los Angeles

BLUE CROSS LABORATORIES INC (Continued) **1000196321**

Gepaid: CAD982521122
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .5336
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: DARRELL MAHLER
Telephone: (805) 255-0955
Mailing Address: 26411 N GOLDEN VALLEY RD
SAUGUS, CA 91350
County Los Angeles

Gepaid: CAD982521122
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .7923
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: DARRELL MAHLER
Telephone: (805) 255-0955
Mailing Address: 26411 N GOLDEN VALLEY RD
SAUGUS, CA 91350
County Los Angeles

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5 additional CA HAZNET record(s) in the EDR Site Report.

HMS:
Facility Id: 006660-I06884
Area: 7A
Facility Type: I09
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

BT505 **CHMIRS** **S100279259**
SE **26411 GOLDEN VALLEY RD** **N/A**
> 1 **SANTA CLARITA, CA 91350**
8716 ft.

Site 7 of 11 in cluster BT

Relative: Higher

Actual: 1384 ft.

CHMIRS:
OES Control Number: 8905365
Chemical Name: Not reported
Extent of Release: Not reported
Property Use: Industrial, Utility
Incident Date: 25-MAR-89
Date Completed: 25-MAR-89
Time Completed : 1337
Agency Id Number : 19110
Agency Incident Number : 34
OES Incident Number : 8905365
Time Notified : 1028
Surrounding Area : 936
Estimated Temperature : 60
Property Management : C
More Than Two Substances Involved? : N

(Continued) **S100279259**

Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	0
Others Number Of Decontaminated :	0
Others Number Of Injuries :	0
Others Number Of Fatalities :	0
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	CAPT. JOHN EVERETT
Report Date :	25-MAR-89
Comments :	Not reported
Facility Telephone Number :	213 267-2485
Waterway Involved :	Not reported
Waterway :	Not reported
Spill Site :	Not reported
Cleanup By :	Not reported
Containment :	Not reported
What Happened :	Not reported
Type :	Not reported
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	Not reported
Evacuations :	Not reported

BU506
NNW
> 1
8725 ft.

SANTA CLARITA COUNTY PARK
27285 N SECO CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **U003061202**
N/A

Site 3 of 4 in cluster BU

Relative:
Higher

Actual:
1264 ft.

HMS:

Facility Id:	005101-I05293
Area:	7A
Facility Type:	I01
Permit Number:	174
Facility Status:	Closed
Region:	Los Angeles County:

Permit Status: Closed

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BU507 NNW > 1 8725 ft.	**SANTA CLARITA PARK** 27285 N SECO CANYON RD SANTA CLARITA, CA	LOS ANGELES CO. HMS	S102064493 N/A

Site 4 of 4 in cluster BU

Relative: Higher

Actual: 1264 ft.

HMS:

Facility Id:	005101-021902		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

BW508 WSW > 1 8739 ft.	**LA CO DPW B & S VALENCIA REFO** 23757 W VALENCIA BLVD SANTA CLARITA, CA	LOS ANGELES CO. HMS	S102064220 N/A

Site 3 of 4 in cluster BW

Relative: Lower

Actual: 1151 ft.

HMS:

Facility Id:	015686-022978		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

BW509 WSW > 1 8739 ft.	**INVESTIGATIONS-AREA7** 23757 W VALENCIA BLVD SANTA CLARITA, CA	LOS ANGELES CO. HMS	S104538555 N/A

Site 4 of 4 in cluster BW

Relative: Lower

Actual: 1151 ft.

HMS:

Facility Id:	015686-020096		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

BT510 SE > 1 8781 ft.	**CITY OF SANTA CLARITA** 26407 GOLDEN VALLEY RD SANTA CLARITA, CA 91350	HAZNET	S105085565 N/A

Site 8 of 11 in cluster BT

Relative: Higher

Actual: 1383 ft.

HAZNET:

Gepaid:	CAC002249057
TSD EPA ID:	CAD028409019
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	42.1400
Waste Category:	Other organic solids
Disposal Method:	Transfer Station
Contact:	CITY OF SANTA CLARITA
Telephone:	(661) 255-4994
Mailing Address:	PO BOX 278 NEWHALL, CA 91322

CITY OF SANTA CLARITA (Continued) **S105085565**

County Los Angeles

Gepaid: CAC002249057
TSD EPA ID: CAD009007626
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .8428
Waste Category: Asbestos-containing waste
Disposal Method: Disposal, Land Fill
Contact: CITY OF SANTA CLARITA
Telephone: (661) 255-4994
Mailing Address: PO BOX 278
NEWHALL, CA 91322
County Los Angeles

BT511 **MERLE NORMAN COSMETICS, INC.** **VCP** **S105689621**
SE **26407 GOLDEN VALLEY RD** **N/A**
> 1 **SANTA CLARITA, CA 91350**
8781 ft.

Site 9 of 11 in cluster BT

Relative: Higher

Actual: 1383 ft.

VCP:

Facility ID 19390049
Dtsc Region Code : 3
Region Code Definition : GLENDALE
County Code : 19
Site Name Under : Not reported
Current Status Date : 05021999
Current Status Code : NFA
Current Status : NO FURTHER ACTION FOR DTSC
Lead Agency Code : Not reported
Lead Agency : N/A
Site Type Code : VCP
Site Type : VOLUNTARY CLEANUP PROGRAM
National Priorities List : Not reported
Tier : Not reported
Source Of Funding Code : Not reported
Staff Member : RKRUG
Supervisor : Not reported
Sic Code : 39
Sic Code Definition : MISCELLANEOUS MANUFACTURING INDUSTRIES
Site Mitigatn & Brnflds Reuse Prog (SMBR) Code : SA
SMBR Branch : SO CAL - GLENDALE
Regional Water Quality Control Board : Not reported
RWQCB Definition : Not reported
Site Access Controlled : Not reported
Listed In Haz Wst & Substncs Sites List (CORTESE): Not reported
Date Hazard Ranked : Not reported
GW Contamination Suspected : Not reported
Of Sources Contributing To Contamination : 0.00000
Lat/Long : 0.00000° 0.00000′ 0.00000″ / 0.00000° 0.00000′ 0.00000″
Direction Lat : Not reported
Direction Long : Not reported
Lat/long Method : Not reported
Entity Lat/long Coordinates Refer To : Not reported
State Assembly Distt Code : 36
State Senate Distt Code : 17
Identifying Code: Not reported
ID Value: Not reported

MERLE NORMAN COSMETICS, INC. (Continued) **S105689621**

Other ID Desc:	Not reported
Alternate Name(s):	MERLE NORMAN COSMETICS, INC.
Address(es) :	26407 N. GOLDEN VALLEY ROAD SANTA CLARITA, CA 91350
Address(es) :	26407 GOLDEN VALLEY RD SANTA CLARITA, CA 91350
Background Info :	On a 20 acre area, there are two warehouses and one recreational gym. Asphalt parking surrounds these three buildings. At the back (south end) are a couple of former bunkers for storage and a drainage area for the surrounding hillside. The front area (north end) consists of a graded field.
Facility Id :	19390049
AWP Activities Code :	1.00000
DTSC Site Activity Code :	PEA
Activity Code Def:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Activity Id :	VCP
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	12291999
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19390049
AWP Activities Code :	2.00000
DTSC Site Activity Code :	ORDER
Activity Code Def:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Activity Id :	VCA
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	05071999
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000
Cubic Yards Of Solids Treated Upon Completion :	0.00000
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported
Facility Id :	19390049
AWP Activities Code :	3.00000
DTSC Site Activity Code :	PEA
Activity Code Def:	PRELIMINARY ENDANGERMENT ASSESSMENT
AWP Activity Id :	VCA
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	08282001
Est # Of Person-years To Complete :	0.00000
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	NFA
Status Code Definition :	NO FURTHER ACTION FOR DTSC
Cubic Yards Of Solids Removed At Completion :	0.00000
Gallons Of Liquid Removed Upon Completion :	0.00000

MERLE NORMAN COSMETICS, INC. (Continued) **S105689621**

Cubic Yards Of Solids Treated Upon Completion : 0.00000
Actvty Deleted Via Commitmnt/Completns Screen : Not reported
Special Program Code: Not reported
Special Program : Not reported
Comments Date : 02142001
Comments : Onsite meeting with RP to discuss PEA comments. RP will revise PEA with more information.
DTSC entered into a Voluntary Cleanup Agreement with proponent to review and comment on a Preliminary Endangerment Assessment.
DTSC comments sent to RP.
Lead contaminated soils were excavated. No Further Action required. PEA is completed.
Site visit with RP's consultants.
Not reported
DTSC sent letter to RP that a response is needed. No word from RP since site visit.
Not reported
Final Determination of Further Action letter sent to RP.

BT512
SE
> 1
8781 ft.

Relative: Higher

Actual: 1383 ft.

MERLE NORMAN COSMETICS
26407 N GOLDEN VALLEY RD
SANTA CLARITA, CA 91350

CA FID UST **S101586567**
N/A

Site 10 of 11 in cluster BT

FID:

Facility ID:	19054074	Regulate ID:	00017414
Reg By:	Inactive Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Inactive	Facility Tel:	(805) 251-6610
Mail To:	Not reported 15180 BLEDSOE ST SANTA CLARITA, CA 91350		
Contact:	Not reported	Contact Tel:	Not reported
DUNs No:	Not reported	NPDES No:	Not reported
Creation:	10/22/93	Modified:	00/00/00
EPA ID:	Not reported		
Comments:	Not reported		

BT513
SE
> 1
8781 ft.

Relative: Higher

Actual: 1383 ft.

SAUGUS FACILITY
26407 GOLDEN VALLEY RD
SAUGUS, CA 91351

HIST UST **U001567755**
N/A

Site 11 of 11 in cluster BT

UST HIST:

Facility ID:	17414	Owner Name:	MERLE NORMAN COSMETICS
Total Tanks:	4	Region:	STATE
Owner Address:	26407 GOLDEN VALLEY RD SAUGUS, CA 91351		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00010000	Year Installed:	1979
Type of Fuel:	PREMIUM	Tank Construction:	1/4 gauge
Leak Detection:	Visual		
Contact Name:	JAMES ARMOUR	Telephone:	(213) 367-1085
Facility Type:	Other	Other Type:	DISTRIBUTOR

SAUGUS FACILITY (Continued) **U001567755**

Facility ID:	17414	Owner Name:	MERLE NORMAN COSMETICS
Total Tanks:	4	Region:	STATE
Owner Address:	26407 GOLDEN VALLEY RD SAUGUS, CA 91351		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	2
Tank Capacity:	00010000	Year Installed:	1979
Type of Fuel:	PREMIUM	Tank Construction:	1/412 inches
Leak Detection:	Visual		
Contact Name:	JAMES ARMOUR	Telephone:	(213) 367-1085
Facility Type:	Other	Other Type:	DISTRIBUTOR

Facility ID:	17414	Owner Name:	MERLE NORMAN COSMETICS
Total Tanks:	4	Region:	STATE
Owner Address:	26407 GOLDEN VALLEY RD SAUGUS, CA 91351		
Tank Used for:	PRODUCT		
Tank Num:	3	Container Num:	3
Tank Capacity:	00010000	Year Installed:	1979
Type of Fuel:	PREMIUM	Tank Construction:	1/4 gauge
Leak Detection:	Visual		
Contact Name:	JAMES ARMOUR	Telephone:	(213) 367-1085
Facility Type:	Other	Other Type:	DISTRIBUTOR

Facility ID:	17414	Owner Name:	MERLE NORMAN COSMETICS
Total Tanks:	4	Region:	STATE
Owner Address:	26407 GOLDEN VALLEY RD SAUGUS, CA 91351		
Tank Used for:	PRODUCT		
Tank Num:	4	Container Num:	4
Tank Capacity:	00010000	Year Installed:	1979
Type of Fuel:	DIESEL	Tank Construction:	1/4 gauge
Leak Detection:	Visual		
Contact Name:	JAMES ARMOUR	Telephone:	(213) 367-1085
Facility Type:	Other	Other Type:	DISTRIBUTOR

514
WSW
> 1
8805 ft.

LA CO FIRE STATION 126
26320 CITRUS ST
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S105193570**
N/A

Relative:
Lower

Actual:
1145 ft.

HMS:

Facility Id:	026744-036956		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BY515 East > 1 8806 ft.	**PACIFIC BELL (KC-652)** **26971 FURNIVALL AVE** **CANYON COUNTRY, CA 91350**	**HIST UST**	**U001567715** **N/A**

Site 1 of 9 in cluster BY

Relative: Higher

Actual: 1292 ft.

UST HIST:

Facility ID:	16788	Owner Name:	PACIFIC BELL
Total Tanks:	3	Region:	STATE
Owner Address:	370 THIRD STREET SAN FRANCISCO, CA 94107		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	D-70-10K
Tank Capacity:	00010000	Year Installed:	1970
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	E. J. KOEHLER	Telephone:	(415) 542-6758
Facility Type:	Other	Other Type:	PHONE CO.
Facility ID:	16788	Owner Name:	PACIFIC BELL
Total Tanks:	3	Region:	STATE
Owner Address:	370 THIRD STREET SAN FRANCISCO, CA 94107		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	G-70-10K
Tank Capacity:	00010000	Year Installed:	1970
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	E. J. KOEHLER	Telephone:	(415) 542-6758
Facility Type:	Other	Other Type:	PHONE CO.
Facility ID:	16788	Owner Name:	PACIFIC BELL
Total Tanks:	3	Region:	STATE
Owner Address:	370 THIRD STREET SAN FRANCISCO, CA 94107		
Tank Used for:	WASTE		
Tank Num:	3	Container Num:	W-700550
Tank Capacity:	00000550	Year Installed:	1970
Type of Fuel:	WASTE OIL	Tank Construction:	Not Reported
Leak Detection:	None		
Contact Name:	E. J. KOEHLER	Telephone:	(415) 542-6758
Facility Type:	Other	Other Type:	PHONE CO.

BY516 East > 1 8806 ft.	**PACIFIC BELL CNCYCAPB/KC652** **26971 N FURNIVALL AVE** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S102064478** **N/A**

Site 2 of 9 in cluster BY

Relative: Higher

Actual: 1292 ft.

HMS:

Facility Id:	006475-006695		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Removed
Facility Status:	Removed		
Region:	Los Angeles County:		

BY517
East
> 1
8806 ft.

PACIFIC BELL
26971 N FURNIVALL AVE
SANTA CLARITA, CA 91350

LUST **S100458324**
Cortese **N/A**
LOS ANGELES CO. HMS

Site 3 of 9 in cluster BY

Relative:
Higher

Actual:
1292 ft.

State LUST:

Cross Street:	SOLIDAD ST		
Qty Leaked:	0		
Case Number	I-06695		
Reg Board:	4		
Chemical:	Waste Oil		
Lead Agency:	Regional Board		
Local Agency :	19000		
Case Type:	Soil only		
Status:	Case Closed		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	12/31/91 0:00	Prelim Assess:	12/31/91 0:00
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	10/30/96 0:00		
Release Date:	12/31/1991		
Cleanup Fund Id :	Not reported		
Discover Date :	07/18/1991		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	3/14/92 0:00		
Funding:	Federal Funds		
Staff Initials:	Not reported		
How Discovered:	OM		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	UNK		
Leak Source:	UNK		
MTBE Date :	Not reported		
Max MTBE GW :	Not reported		
MTBE Tested:	Not Required to be Tested.		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	Not reported		
Staff :	UNK		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	SANTA CLARA RIVER VA		
Operator :	ROCCO, DELLA		
Oversight Prgm:	LUST		
Review Date :	1/22/97 0:00		
Stop Date :	07/18/1991		
Work Suspended :	Not reported		
Responsible Party	PACIFIC BELL		
RP Address:	177 E COLORADO BLVD, PASADENA CA 91105		
Global Id:	T0603703250		
Org Name:	Not reported		
Contact Person:	Not reported		
MTBE Conc:	Not reported		
Mtbe Fuel:	Not reported		
Water System Name:	Not reported		

PACIFIC BELL (Continued) **S100458324**

Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 12/31/1991
Lead Agency: Regional Board
Local Agency: 19000
Substance: Waste Oil
Case Type: Soil
Status: Case Closed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 1/22/97
Date Leak Record Entered: 3/14/92
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : Not reported
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: PACIFIC BELL
RP Address: 177 E COLORADO BLVD, PASADENA CA 91105
Significant Interim Remedial Action Taken: Not reported
Program : LUST
Lat / Long : 34 / -118
Local Agency Staff: Not reported
Summary : Not reported
Hydrologic Basin # : SANTA CLARA RIVER VA
Beneficial Use : Not reported
Priority : Not reported
Cleanup Fund Id : Not reported
Suspended : Not reported
Local Case No : Not reported
Substance Quantity : 0
Abatement Method Used at the Site: Not reported
Operator : ROCCO, DELLA
Water System : Not reported
Well Name : Not reported
Approx. Dist To Production Well (ft) : 880.1683927
Assigned Name : Not reported
Source of Cleanup Funding: Federal Funds
Date the Leak was Discovered: 07/18/1991
How the Leak was Discovered: OM
How the Leak was Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Date The Leak was Stopped: 7/18/91
Date Confirmation Leak Began: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 12/31/91
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported

PACIFIC BELL (Continued) **S100458324**

Post Remedial Action Monitoring Began: Not reported
Date the Case was Closed: 10/30/96
Enforcement Action Date: Not reported
Date Leak First Reported: 12/31/1991
Enforcement Type: Not reported
Global ID : T0603703250
Cross Street: SOLIDAD ST

CORTESE:
Region: CORTESE
Fac Address 2: Not reported

HMS:
Facility Id: 006475-I06695
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Closed
Facility Status: Permit
Region: Los Angeles County:

BY518
East
> 1
8811 ft.

STAATS CONSTRUCTION
26951 N FURNIVALL AVE
CANYON COUNTRY, CA 91351

HAZNET **S103648172**
LOS ANGELES CO. HMS **N/A**

Site 4 of 9 in cluster BY

Relative:
Higher

Actual:
1292 ft.

HAZNET:
Gepaid: CAL000148813
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.2935
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: WILL STAATS JR & STEVEN STAATS
Telephone: (805) 263-7688
Mailing Address: 22211 NEWHALL RANCH RD
SAUGUS, CA 91350
County Los Angeles

Gepaid: CAL000148813
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: WILL STAATS JR & STEVEN STAATS
Telephone: (805) 263-7688
Mailing Address: 22211 NEWHALL RANCH RD
SAUGUS, CA 91350
County Los Angeles

HMS:
Facility Id: 017444-023744
Area: 7A
Facility Type: T1
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
BZ519 **East** **> 1** **8812 ft.**	**MINNIE MAX CLEANERS** **20655 SOLEDAD CANYON RD UNIT 30** **CANYON COUNTRY, CA 91351**	**CLEANERS**	**S105030846** **N/A**

Site 1 of 15 in cluster BZ

Relative:
Higher

Actual:
1294 ft.

CA Cleaners:

Inactive Date: 6/30/2001
EPA Id: CAL000208224
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : No
Mail Name : Not reported
Mailing Address: 20655 SOLEDAD CANYON RD UNIT 30
CANYON COUNTRY, CA 91351
Owner Name : JOSE CHAVEZ
Mailing Address: 20655 SOLEDAD CANYON RD UNIT 30
CANYON COUNTRY, CA 91351
Owner Telephone 0000000000
Contact Name : RUTH CHAVEZ
Mailing Address: 20655 SOLEDAD CYN RD UNIT 30
CANYON COUNTRY, CA 91351
Contact Telephone 6612526666
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

Inactive Date: 6/30/2001
EPA Id: CAL000208224
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : No
Mail Name : Not reported
Mailing Address: 20655 SOLEDAD CANYON RD UNIT 30
CANYON COUNTRY, CA 91351
Owner Name : JOSE CHAVEZ
Mailing Address: 20655 SOLEDAD CANYON RD UNIT 30
CANYON COUNTRY, CA 91351
Owner Telephone 0000000000
Contact Name : RUTH CHAVEZ
Mailing Address: 20655 SOLEDAD CYN RD UNIT 30
CANYON COUNTRY, CA 91351
Contact Telephone 6612526666
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

Inactive Date: 6/30/2001
EPA Id: CAL000208224
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : No
Mail Name : Not reported
Mailing Address: 20655 SOLEDAD CANYON RD UNIT 30
CANYON COUNTRY, CA 91351
Owner Name : JOSE CHAVEZ
Mailing Address: 20655 SOLEDAD CANYON RD UNIT 30
CANYON COUNTRY, CA 91351
Owner Telephone 0000000000

MINNIE MAX CLEANERS (Continued) **S105030846**

Contact Name : RUTH CHAVEZ
Mailing Address: 20655 SOLEDAD CYN RD UNIT 30
CANYON COUNTRY, CA 91351
Contact Telephone 6612526666
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

Inactive Date: 6/30/2001
EPA Id: CAL000208224
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : No
Mail Name : Not reported
Mailing Address: 20655 SOLEDAD CANYON RD UNIT 30
CANYON COUNTRY, CA 91351
Owner Name : JOSE CHAVEZ
Mailing Address: 20655 SOLEDAD CANYON RD UNIT 30
CANYON COUNTRY, CA 91351
Owner Telephone 0000000000
Contact Name : RUTH CHAVEZ
Mailing Address: 20655 SOLEDAD CYN RD UNIT 30
CANYON COUNTRY, CA 91351
Contact Telephone 6612526666
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

BZ520
East
> 1
8812 ft.

Relative:
Higher

Actual:
1294 ft.

ED'S CLEANERS **CLEANERS** **S106166957**
20655 SOLEDAD CANYON RD #30 **N/A**
CANYON COUNTRY, CA 91351

Site 2 of 15 in cluster BZ

CA Cleaners:
Inactive Date: 6/30/1998
EPA Id: CAL000020450
Facility Address 2 Not reported
NAICS Code : Not reported
Facility Active : No
Mail Name : Not reported
Mailing Address: 20655 SOLEDAD CANYON RD STE 30
CANYON COUNTRY, CA 91351
Owner Name : PHILIPOUS L EDWARD
Mailing Address: --
--, 99 --
Owner Telephone 0000000000
Contact Name : --
Mailing Address: INACT PER 98VQ FINAL NOTICE
- BATCH 4/27
--, 99 --
Contact Telephone -:
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

Inactive Date: 6/30/1999
EPA Id: CAL000055441
Facility Address 2 Not reported

ED'S CLEANERS (Continued) **S106166957**

NAICS Code : Not reported
Facility Active : No
Mail Name : Not reported
Mailing Address: 20655 SOLEDAD CANYON RD #30
CANYON COUNTRY, CA 91351
Owner Name : PHILIPOUS L EDWARD
Mailing Address: --
--, 99 --
Owner Telephone 0000000000
Contact Name : JOSE CHAVEZ-OWNER
Mailing Address: INACT 99VQ FINAL NOTICE - BATCH
4/11/00
CANYON COUNTRY, CA 91351
Contact Telephone 6612972933
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

BZ521
East
> 1
8812 ft.

CANYON COUNTRY VETERINARY
20655 SOLEDAD CANYON ROAD #18
CANYON COUNTRY, CA 91351

HAZNET **S103640884**
N/A

Site 3 of 15 in cluster BZ

Relative:
Higher

Actual:
1294 ft.

HAZNET:
Gepaid: CAL922594291
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .1250
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: RAFAEL VILLICANA DVM
Telephone: (818) 244-7235
Mailing Address: 431 W LOS FELIZ RD
GLENDALE, CA 91204
County Los Angeles

Gepaid: CAL922594291
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .0583
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: RAFAEL VILLICANA DVM
Telephone: (818) 244-7235
Mailing Address: 431 W LOS FELIZ RD
GLENDALE, CA 91204
County Los Angeles

CANYON COUNTRY VETERINARY (Continued) **S103640884**

Gepaid: CAL922594291
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .0625
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: RAFAEL VILLICANA DVM
Telephone: (818) 244-7235
Mailing Address: 431 W LOS FELIZ RD
GLENDALE, CA 91204
County Los Angeles

Gepaid: CAL922594291
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .0625
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Not reported
Contact: RAFAEL VILLICANA DVM
Telephone: (818) 244-7235
Mailing Address: 431 W LOS FELIZ RD
GLENDALE, CA 91204
County Los Angeles

Gepaid: CAL922594291
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .0625
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: RAFAEL VILLICANA DVM
Telephone: (818) 244-7235
Mailing Address: 431 W LOS FELIZ RD
GLENDALE, CA 91204
County Los Angeles

Click this hyperlink while viewing on your computer to access
4 additional CA HAZNET record(s) in the EDR Site Report.

BZ522 **SANTA CLARITA BREWING CO** **LOS ANGELES CO. HMS** **S102063997**
East **20655 W SOLEDAD CANYON RD #1** **N/A**
> 1 **SANTA CLARITA, CA**
8812 ft.

Site 4 of 15 in cluster BZ

Relative:
Higher

Actual:
1294 ft.

HMS:
Facility Id: 016212-021239
Area: 7A
Facility Type: I02
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

BZ523
East
> 1
8812 ft.

EDS CLEANERS
20655 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351

RCRIS-SQG **1000472892**
FINDS **CAD982434821**
HAZNET

Site 5 of 15 in cluster BZ

Relative:
Higher

Actual:
1294 ft.

RCRIS:
Owner: PEDRO MARTINEZ
(805) 252-6666
EPA ID: CAD982434821

Contact: PEDRO MARTINEZ
(805) 252-6666

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAD982434821
TSD EPA ID: CAD981397417
Gen County: Ventura
Tsd County: Los Angeles
Tons: .5840
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: PHILIPOUS EDWARD
Telephone: (415) 555-1212
Mailing Address: 20655 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351 - 2434
County Ventura

Gepaid: CAD982434821
TSD EPA ID: CAD981397417
Gen County: Ventura
Tsd County: Los Angeles
Tons: .1292
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: PHILIPOUS EDWARD
Telephone: (415) 555-1212
Mailing Address: 20655 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351 - 2434
County Ventura

Gepaid: CAD982434821
TSD EPA ID: OHD980587364
Gen County: Ventura
Tsd County: 99
Tons: .2925
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: ***
Contact: PHILIPOUS EDWARD
Telephone: (415) 555-1212
Mailing Address: 20655 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351 - 2434
County Ventura

EDS CLEANERS (Continued) **1000472892**

Gepaid: CAD982434821
TSD EPA ID: CAD981397417
Gen County: Ventura
Tsd County: Los Angeles
Tons: 21.3641
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: PHILIPOUS EDWARD
Telephone: (415) 555-1212
Mailing Address: 20655 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351 - 2434
County Ventura

Gepaid: CAD982434821
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.97
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: JOSE CHAVEZ
Telephone: (661) 297-2933
Mailing Address: 20655 SOLEDAD CYN RD #30
CANYON COUNTRY, CA 91351 - 2434
County Not reported

Click this hyperlink while viewing on your computer to access
4 additional CA HAZNET record(s) in the EDR Site Report.

BZ524
East
> 1
8812 ft.

IVAN COHEN **LOS ANGELES CO. HMS** **S103489699**
20655 W SOLEDAD CANYON RD #1 **N/A**
SANTA CLARITA, CA

Site 6 of 15 in cluster BZ

Relative:
Higher

Actual:
1294 ft.

HMS:
Facility Id: 016212-026575
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

BY525
East
> 1
8815 ft.

STORAGE LOT **LOS ANGELES CO. HMS** **S102321791**
26949 N FURNIVALL AVE **N/A**
SANTA CLARITA, CA

Site 5 of 9 in cluster BY

Relative:
Higher

Actual:
1292 ft.

HMS:
Facility Id: 017445-023745
Area: 7A
Facility Type: T1
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
BY526 **East** **> 1** **8815 ft.**	**WILLIAM ETTER & PATRICK BETZ** **26949 FURNIBAL AVE** **CANYON COUNTRY, CA 91351**	**HAZNET**	**S103648167** **N/A**

Site 6 of 9 in cluster BY

Relative: Higher

Actual: 1292 ft.

HAZNET:

Gepaid:	CAC001061056
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	2.2935
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	WILLIAM ETTER AND PATRICK BETZ
Telephone:	(000) 000-0000
Mailing Address:	5120 VIA CUPERTINO CAMARILLO, CA 93012
County	Los Angeles

BY527 **East** **> 1** **8820 ft.**	**BROWN AUTO BODY** **26935 FURNIVALL** **CANYON COUNTRY, CA 91351**	**RCRIS-SQG** **FINDS** **HAZNET**	**1000437307** **CAD981649270**

Site 7 of 9 in cluster BY

Relative: Higher

Actual: 1293 ft.

RCRIS:

Owner:	LAWERNCE (415) 555-1212
EPA ID:	CAD981649270
Contact:	ENVIRONMENTAL MANAGER (805) 251-5555
Classification:	Small Quantity Generator
TSDF Activities:	Not reported
Violation Status:	No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid:	CAD981649270
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0740
Waste Category:	Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method:	Transfer Station
Contact:	Not reported
Telephone:	(000) 000-0000
Mailing Address:	26935 FURNIVALL CANYON COUNTRY, CA 91351
County	Los Angeles

BY528
East
> 1
8820 ft.

DICK SANCHEZ AUTO BODY
26935 FURNIVALL AVE
SANTA CLARITA, CA

LOS ANGELES CO. HMS — **S103945499** / **N/A**

Site 8 of 9 in cluster BY

Relative:
Higher

Actual:
1293 ft.

HMS:

Facility Id:	019963-028482		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

BY529
East
> 1
8820 ft.

PACIFIC BELL
26971 N FUNIVALL AVE
CANYON COUNTRY, CA 91351

HAZNET — **1000250084** / **N/A**

Site 9 of 9 in cluster BY

Relative:
Higher

Actual:
1292 ft.

HAZNET:

Gepaid:	CAD980891816
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.4083
Waste Category:	Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method:	Transfer Station
Contact:	PACIFIC BELL
Telephone:	(925) 823-6161
Mailing Address:	PO BOX 5095 RM 3E000 SAN RAMON, CA 94583 - 0995
County	Los Angeles

Gepaid:	CAD980891816
TSD EPA ID:	CAT080033681
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0834
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Not reported
Contact:	PACIFIC BELL
Telephone:	(925) 823-6161
Mailing Address:	PO BOX 5095 RM 3E000 SAN RAMON, CA 94583 - 0995
County	Los Angeles

Gepaid:	CAD980891816
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	8.7153
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	PACIFIC BELL
Telephone:	(925) 823-6161
Mailing Address:	PO BOX 5095 RM 3E000 SAN RAMON, CA 94583 - 0995
County	Los Angeles

PACIFIC BELL (Continued) **1000250084**

Gepaid: CAD980891816
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3126
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Recycler
Contact: PACIFIC BELL
Telephone: (925) 823-6161
Mailing Address: PO BOX 5095 RM 3E000
SAN RAMON, CA 94583 - 0995
County Los Angeles

Gepaid: CAD980891816
TSD EPA ID: CAD981696420
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1251
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: PACIFIC BELL
Telephone: (925) 823-6161
Mailing Address: PO BOX 5095 RM 3E000
SAN RAMON, CA 94583 - 0995
County Los Angeles

Click this hyperlink while viewing on your computer to access
29 additional CA HAZNET record(s) in the EDR Site Report.

CA530 **VALENCIA ACURA** **HAZNET** **U002281923**
West **23955 W CREEKSIDE RD** **LOS ANGELES CO. HMS** **N/A**
> 1 **VALENCIA, CA 91355**
8822 ft.

Site 1 of 7 in cluster CA

Relative: Lower

Actual: 1141 ft.

HAZNET:
Gepaid: CAL000014815
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4419
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: TED CHANOCK
Telephone: (805) 255-3000
Mailing Address: 23955 CREEKSIDE RD
VALENCIA, CA 91355 - 1703
County Los Angeles

Gepaid: CAL000014815
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.1
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: MIKE AARONSON/SERV MGR
Telephone: (818) 762-8680
Mailing Address: 23955 CREEKSIDE RD

VALENCIA ACURA (Continued) **U002281923**

VALENCIA, CA 91355 - 1703
County Not reported

Gepaid: CAL000014815
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.3418
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: TED CHANOCK
Telephone: (805) 255-3000
Mailing Address: 23955 CREEKSIDE RD
VALENCIA, CA 91355 - 1703
County Los Angeles

Gepaid: CAL000208374
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.06
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: TIMOTHY HALL-SERVICE MANAGER
Telephone: (661) 255-3000
Mailing Address: 23955 CREEKSIDE RD
VALENCIA, CA 91355 - 1703
County Not reported

Gepaid: CAL000208374
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.2
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: TIMOTHY HALL-SERVICE MANAGER
Telephone: (661) 255-3000
Mailing Address: 23955 CREEKSIDE RD
VALENCIA, CA 91355 - 1703
County Not reported

Click this hyperlink while viewing on your computer to access
1 additional CA HAZNET record(s) in the EDR Site Report.

HMS:
Facility Id: 008483-013941
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Closed
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 008483-I13941
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
CA531 West > 1 8822 ft.	**1X VALENCIA ACURA 23955 CREEKSIDE ROAD VALENCIA, CA 91355**	**HAZNET**	**S103947838 N/A**

Site 2 of 7 in cluster CA

Relative: Lower

Actual: 1141 ft.

HAZNET:

Gepaid: CAC000605280
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 3.7947
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: TED CHANOCK
Telephone: (000) 000-0000
Mailing Address: VALENCIA, CA 91355
County Los Angeles

Gepaid: CAC000605280
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2085
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Contact: TED CHANOCK
Telephone: (000) 000-0000
Mailing Address: VALENCIA, CA 91355
County Los Angeles

Gepaid: CAC000605280
TSD EPA ID: AZR000005454
Gen County: Los Angeles
Tsd County: 99
Tons: .0300
Waste Category: Other inorganic solid waste
Disposal Method: Recycler
Contact: TED CHANOCK
Telephone: (000) 000-0000
Mailing Address: VALENCIA, CA 91355
County Los Angeles

Gepaid: CAC000605280
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.2718
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Contact: TED CHANOCK
Telephone: (000) 000-0000
Mailing Address: VALENCIA, CA 91355
County Los Angeles

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
CA532	**VOLUME CAR SALES INC (ACURA)**	**HAZNET**	**S100877723**
West	**23955 CREEKSIDE RD**		**N/A**
> 1	**VALENCIA, CA 91355**		
8822 ft.			

Site 3 of 7 in cluster CA

Relative:
Lower

Actual:
1141 ft.

HAZNET:

Gepaid:	CAL000077286
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.4170
Waste Category:	Unspecified aqueous solution
Disposal Method:	Not reported
Contact:	CHANOCK TED KRAMER BOB
Telephone:	(000) 000-0000
Mailing Address:	23955 CREEKSIDE RD VALENCIA, CA 91355 - 1703
County	Los Angeles

Gepaid:	CAL000077286
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.9590
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	CHANOCK TED KRAMER BOB
Telephone:	(000) 000-0000
Mailing Address:	23955 CREEKSIDE RD VALENCIA, CA 91355 - 1703
County	Los Angeles

Gepaid:	CAL000077286
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.4170
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	CHANOCK TED KRAMER BOB
Telephone:	(000) 000-0000
Mailing Address:	23955 CREEKSIDE RD VALENCIA, CA 91355 - 1703
County	Los Angeles

Gepaid:	CAL000077286
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	0
Tons:	.4170
Waste Category:	Unspecified aqueous solution
Disposal Method:	Not reported
Contact:	CHANOCK TED KRAMER BOB
Telephone:	(000) 000-0000
Mailing Address:	23955 CREEKSIDE RD VALENCIA, CA 91355 - 1703
County	Los Angeles

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BZ533 East > 1 8825 ft.	**PRECISION CNC PRODUCTS** **26921 1/2 FURNIVALL ST** **CANYON COUNTRY, CA 91351**	**HAZNET**	**S105091015** **N/A**

Site 7 of 15 in cluster BZ

Relative: Higher

Actual: 1293 ft.

HAZNET:

Gepaid:	CAL000174103
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Orange
Tons:	0.08
Waste Category:	Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method:	Transfer Station
Contact:	EMMIT NEAL
Telephone:	(661) 252-6072
Mailing Address:	26921 1/2 FURNIVALL AVE CANYON COUNTRY, CA 91351 - 2406
County	Not reported

Gepaid:	CAL000174103
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.0425
Waste Category:	Oil/water separation sludge
Disposal Method:	Recycler
Contact:	EMMIT NEAL
Telephone:	(661) 252-6072
Mailing Address:	26921 1/2 FURNIVALL AVE CANYON COUNTRY, CA 91351 - 2406
County	Los Angeles

BZ534 East > 1 8825 ft.	**B B SUPPLY** **26921 1/2 FURNIVAL** **CANYON COUNTRY, CA 91351**	**RCRIS-SQG** **FINDS**	**1000595935** **CAD983598939**

Site 8 of 15 in cluster BZ

Relative: Higher

Actual: 1293 ft.

RCRIS:

Owner:	JERRY JEFFRIES (415) 555-1212
EPA ID:	CAD983598939
Contact:	JERRY JEFFRIES (805) 370-8495
Classification:	Small Quantity Generator
TSDF Activities:	Not reported
Violation Status:	No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:

Resource Conservation and Recovery Act Information system (RCRAINFO)

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BZ535 East > 1 8825 ft. Relative: Higher Actual: 1294 ft.	**B & D GLASS** **26919 FURNIVALL AVE** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103945497** **N/A**

Site 9 of 15 in cluster BZ

HMS:

Facility Id:	019962-028481		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

BZ536 East > 1 8826 ft. Relative: Higher Actual: 1294 ft.	**KOCH'S** **26917 FURNIVALL AVE** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103945496** **N/A**

Site 10 of 15 in cluster BZ

HMS:

Facility Id:	019961-028480		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

BZ537 East > 1 8826 ft. Relative: Higher Actual: 1294 ft.	**LOLA OLSEN PROPERTIES** **26917 FURNIVALL** **CANYON COUNTRY, CA 91351**	**HAZNET**	**S102801965** **N/A**

Site 11 of 15 in cluster BZ

HAZNET:

Gepaid:	CAC001013200
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.2293
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	LOLA OR LYLE OLSEN
Telephone:	(000) 000-0000
Mailing Address:	24599 WAYMAN NEWHALL, CA 91321
County	Los Angeles

BZ538 East > 1 8827 ft. Relative: Higher Actual: 1294 ft.	**KWIK INK CREEEN PRINTING DESIGNS** **26915 FURNIVALL** **CANYON COUNTRY, CA 91351**	**HAZNET**	**S105090232** **N/A**

Site 12 of 15 in cluster BZ

KWIK INK CREEEN PRINTING DESIGNS (Continued) **S105090232**

HAZNET:

Gepaid: CAL000130330
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Orange
Tons: 0.05
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)
Disposal Method: Transfer Station
Contact: LINDA SPUNT
Telephone: (805) 251-3542
Mailing Address: 26915 FURNIVALL AVE
CANYON COUNTRY, CA 91351 - 2406
County Not reported

Gepaid: CAL000130330
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Orange
Tons: 0.06
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: LINDA SPUNT
Telephone: (805) 251-3542
Mailing Address: 26915 FURNIVALL AVE
CANYON COUNTRY, CA 91351 - 2406
County Not reported

Gepaid: CAL000130330
TSD EPA ID: CAT000613976
Gen County: Los Angeles
Tsd County: Orange
Tons: .1209
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)
Disposal Method: Transfer Station
Contact: LINDA SPUNT
Telephone: (000) 000-0000
Mailing Address: 26915 FURNIVALL AVE
CANYON COUNTRY, CA 91351 - 2406
County Los Angeles

Gepaid: CAL000130330
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Orange
Tons: 0.12
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: LINDA SPUNT
Telephone: (805) 251-3542
Mailing Address: 26915 FURNIVALL AVE
CANYON COUNTRY, CA 91351 - 2406
County Not reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
CB539 East > 1 8828 ft.	**ERRYS AUTOMATIC TRANS RP** 20601 W SANTA CLARA ST SANTA CLARITA, CA	LOS ANGELES CO. HMS	U003060708 N/A

Site 1 of 4 in cluster CB

Relative: Higher

Actual: 1286 ft.

HMS:

Facility Id:	004543-I04717		
Area:	7A		
Facility Type:	I00		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

CB540 East > 1 8829 ft.	**EUROPEAN AUTO CENTER** 27134 FURNIVALL AVE CANYON COUNTRY, CA 91351	RCRIS-SQG FINDS	1000340138 CAD981652472

Site 2 of 4 in cluster CB

Relative: Higher

Actual: 1288 ft.

RCRIS:

Owner:	PFLUEGLER JACOB (415) 555-1212
EPA ID:	CAD981652472
Contact:	ENVIRONMENTAL MANAGER (805) 251-3500
Classification:	Small Quantity Generator
TSDF Activities:	Not reported
Violation Status:	No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

CB541 East > 1 8829 ft.	**CALIFORNIA COLLECTIBLE COACH WORKS** 27134 FURNIVALL AVE CANYON COUNTRY, CA 91351	HAZNET	S104582536 N/A

Site 3 of 4 in cluster CB

Relative: Higher

Actual: 1288 ft.

HAZNET:

Gepaid:	CAL000197332
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.44
Waste Category:	Unspecified solvent mixture Waste
Disposal Method:	Recycler
Contact:	MIKE HOGAN
Telephone:	(661) 250-0687
Mailing Address:	27134 FURNIVALL AVE CANYON COUNTRY, CA 91351
County	Not reported

CALIFORNIA COLLECTIBLE COACH WORKS (Continued) **S104582536**

Gepaid: CAL000197332
TSD EPA ID: CAD008302903
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.1459
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Contact: MIKE HOGAN
Telephone: (000) 000-0000
Mailing Address: 27134 FURNIVALL AVE
CANYON COUNTRY, CA 91351
County Los Angeles

CB542 **DESIGN MASONRY INC** **HAZNET** **S103960561**
East **27121 FURNIVAL** **N/A**
> 1 **CANYON COUNTRY, CA 91351**
8834 ft.

Site 4 of 4 in cluster CB

Relative:
Higher

Actual:
1289 ft.

HAZNET:
Gepaid: CAL000068574
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0625
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Treatment, Tank
Contact: CARPENTER RANDALL
Telephone: (805) 298-1013
Mailing Address: 27121 FURNIVALL AVE
CANYON COUNTRY, CA 91351 - 2460
County Los Angeles

Gepaid: CAL000068574
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2001
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: CARPENTER RANDALL
Telephone: (805) 298-1013
Mailing Address: 27121 FURNIVALL AVE
CANYON COUNTRY, CA 91351 - 2460
County Los Angeles

Gepaid: CAL000068574
TSD EPA ID: CAD093459485
Gen County: Los Angeles
Tsd County: Fresno
Tons: .0625
Waste Category: Organic liquids with metals Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
Disposal Method: Transfer Station
Contact: CARPENTER RANDALL
Telephone: (805) 298-1013
Mailing Address: 27121 FURNIVALL AVE

DESIGN MASONRY INC (Continued) **S103960561**

CANYON COUNTRY, CA 91351 - 2460
County Los Angeles

Gepaid: CAL000068574
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.0625
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: CARPENTER RANDALL
Telephone: (805) 298-1013
Mailing Address: 27121 FURNIVALL AVE
CANYON COUNTRY, CA 91351 - 2460
County Los Angeles

BZ543
East
> 1
8959 ft.

SANTA CLARITA CAR WASH **LOS ANGELES CO. HMS** **S105696671**
20625 W SOLEDAD CANYON RD **N/A**
SANTA CLARITA, CA

Site 13 of 15 in cluster BZ

Relative:
Higher

Actual:
1297 ft.

HMS:
Facility Id: 000026-I00026
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

544
NNE
> 1
8976 ft.

UNOCAL CORP SS 7062 **LOS ANGELES CO. HMS** **S102064509**
27610 N HASKELL CANYON RD **N/A**
SANTA CLARITA, CA

Relative:
Higher

Actual:
1280 ft.

HMS:
Facility Id: 015194-016259
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Closed
Facility Status: Permit
Region: Los Angeles County:

545
WSW
> 1
8987 ft.

NEWHALL LAND & FARMING CO. **CA SLIC** **S104405006**
23800 VALENCIA **N/A**
VALENCIA, CA 91355

Relative:
Lower

Actual:
1151 ft.

SLIC Region 4:
Facility Status: Site Assessment
Region: 4
SLIC 0293
Staff: MZ
Substance: TPH

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
BZ546 East > 1 9057 ft.	**MED TRANS CORP.** **20607 W SOLEDAD CANYON RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S104538366** **N/A**

Site 14 of 15 in cluster BZ

Relative: Higher

Actual: 1299 ft.

HMS:

Facility Id:	016594-022070		
Area:	7A		
Facility Type:	T1		
Permit Number:	174	Permit Status:	Removed
Facility Status:	Removed		
Region:	Los Angeles County:		

BZ547 East > 1 9057 ft.	**NEW HALL AMBULANCE** **20607 SOLEDAD CANYON RD** **CANYON COUNTRY, CA 91351**	**HIST UST**	**U001567751** **N/A**

Site 15 of 15 in cluster BZ

Relative: Higher

Actual: 1299 ft.

UST HIST:

Facility ID:	6329	Owner Name:	NEW HALL AMBULANCE INC.
Total Tanks:	1	Region:	STATE
Owner Address:	20607 SOLEDAD CYN. RD. CANYON COUNTRY, CA 91351		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	333
Tank Capacity:	00005000	Year Installed:	1974
Type of Fuel:	REGULAR	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	Not reported	Telephone:	(805) 251-3111
Facility Type:	Other	Other Type:	AMBULANCE SER.

CA548 West > 1 9067 ft.	**THE SIGNAL** **24000 CREEKSIDE RD.** **VALENCIA, CA 91355**	**HAZNET**	**S103991088** **N/A**

Site 4 of 7 in cluster CA

Relative: Lower

Actual: 1139 ft.

HAZNET:

Gepaid:	CAL000124070
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.4170
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	MORRIS NEWSPAPER CORP.
Telephone:	(000) 000-0000
Mailing Address:	24000 CREEKSIDE RD VALENCIA, CA 91355 - 1726
County	Los Angeles

THE SIGNAL (Continued) **S103991088**

Gepaid:	CAL000124070
TSD EPA ID:	CAT080033681
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	8.3400
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Recycler
Contact:	MORRIS NEWSPAPER CORP.
Telephone:	(000) 000-0000
Mailing Address:	24000 CREEKSIDE RD VALENCIA, CA 91355 - 1726
County	Los Angeles

Gepaid:	CAL000124070
TSD EPA ID:	CAT080033681
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.4000
Waste Category:	Other organic solids
Disposal Method:	Disposal, Other
Contact:	MORRIS NEWSPAPER CORP.
Telephone:	(000) 000-0000
Mailing Address:	24000 CREEKSIDE RD VALENCIA, CA 91355 - 1726
County	Los Angeles

Gepaid:	CAL000124070
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	San Bernardino
Tons:	1.14
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Not reported
Contact:	JOE DERFLER
Telephone:	(805) 259-1234
Mailing Address:	24000 CREEKSIDE RD VALENCIA, CA 91355 - 1726
County	Not reported

Gepaid:	CAL000124070
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.45
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	JOE DERFLER
Telephone:	(805) 259-1234
Mailing Address:	24000 CREEKSIDE RD VALENCIA, CA 91355 - 1726
County	Not reported

CA549
West
> 1
9067 ft.

NEWHALL SIGNAL NEWSPAPERS INC
24000 W CREEKSIDE RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS — **S102064246** / **N/A**

Site 5 of 7 in cluster CA

Relative:
Lower

Actual:
1139 ft.

HMS:

Facility Id:	007718-008150		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Removed
Facility Status:	Removed		
Region:	Los Angeles County:		

CA550
West
> 1
9067 ft.

1X THE NEWHALL SIGNAL
24000 CREEKSIDE RD.
VALENCIA, CA 91355

HAZNET — **S100928270** / **N/A**

Site 6 of 7 in cluster CA

Relative:
Lower

Actual:
1139 ft.

HAZNET:

Gepaid:	CAC000834704
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	5.0040
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Recycler
Contact:	MORRIS NEWSPAPER CORP.
Telephone:	(000) 000-0000
Mailing Address:	24000 CREEKSIDE RD. VALENCIA, CA 91355
County	Los Angeles

CA551
West
> 1
9067 ft.

NEWHALL NEWSPAPERS INC
24000 W CREEKSIDE RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS — **U003063473** / **N/A**

Site 7 of 7 in cluster CA

Relative:
Lower

Actual:
1139 ft.

HMS:

Facility Id:	007718-I08150		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

CC552
West
> 1
9229 ft.

FARGUSON BMW
24030 W CREEKSIDE RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS — **S104536571** / **N/A**

Site 1 of 11 in cluster CC

Relative:
Lower

Actual:
1139 ft.

HMS:

Facility Id:	007990-022838		
Area:	7A		
Facility Type:	T1		
Permit Number:	174	Permit Status:	Removed
Facility Status:	Removed		

FARGUSON BMW (Continued) **S104536571**

Region: Los Angeles County:

CC553
West
> 1
9229 ft.

Relative:
Lower

Actual:
1139 ft.

FARGUSON BMW **LUST** **S102064254**
24030 CREEKSIDE ROAD **Cortese** **N/A**
VALENCIA, CA 91355

Site 2 of 11 in cluster CC

State LUST:

Cross Street:	MCBEAN PARKWAY		
Qty Leaked:	0		
Case Number	R-08481		
Reg Board:	4		
Chemical:	Hydrocarbons		
Lead Agency:	Local Agency		
Local Agency :	19000		
Case Type:	Soil only		
Status:	Preliminary site assessment underway		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	10/23/95 0:00	Prelim Assess:	10/23/95 0:00
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	Not reported		
Release Date:	10/23/1995		
Cleanup Fund Id :	Not reported		
Discover Date :	10/23/1995		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	11/29/95 0:00		
Funding:	Not reported		
Staff Initials:	Not reported		
How Discovered:	Tank Closure		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	UNK		
Leak Source:	UNK		
MTBE Date :	Not reported		
Max MTBE GW :	Not reported		
MTBE Tested:	Not Required to be Tested.		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	Not reported		
Staff :	UNK		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	SANTA CLARA RIVER VA		
Operator :	DAVE FARGUSON		
Oversight Prgm:	LUST		
Review Date :	11/29/95 0:00		
Stop Date :	10/23/1995		
Work Suspended :	Not reported		
Responsible Party	FARGUSON BMW		
RP Address:	24030 CREESIDE ROAD, VALENCIA, CA 91355		
Global Id:	T0603704775		
Org Name:	Not reported		
Contact Person:	Not reported		
MTBE Conc:	Not reported		

FARGUSON BMW (Continued) **S102064254**

Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 10/23/1995
Lead Agency: Local Agency
Local Agency: 19000
Substance: Hydrocarbons
Case Type: Soil
Status: Preliminary site assessment underway
Region: 4
Staff: UNK
Date Case Last Changed on Database: 11/29/95
Date Leak Record Entered: 11/29/95
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : Not reported
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: FARGUSON BMW
RP Address: 24030 CREESIDE ROAD, VALENCIA, CA 91355
Significant Interim Remedial Action Taken: Not reported
Program : LUST
Lat / Long : 34 / -119
Local Agency Staff: Not reported
Summary : Not reported
Hydrologic Basin # : SANTA CLARA RIVER VA
Beneficial Use : Not reported
Priority : Not reported
Cleanup Fund Id : Not reported
Suspended : Not reported
Local Case No : Not reported
Substance Quantity : 0
Abatement Method Used at the Site: Not reported
Operator : DAVE FARGUSON
Water System : Not reported
Well Name : Not reported
Approx. Dist To Production Well (ft) : 1801.527431
Assigned Name : Not reported
Source of Cleanup Funding: Not reported
Date the Leak was Discovered: 10/23/1995
How the Leak was Discovered: Tank Closure
How the Leak was Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Date The Leak was Stopped: 10/23/95
Date Confirmation Leak Began: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 10/23/95
Pollution Characterization Began: Not reported

FARGUSON BMW (Continued) **S102064254**

Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Date the Case was Closed: Not reported
Enforcement Action Date: Not reported
Date Leak First Reported: 10/23/1995
Enforcement Type: Not reported
Global ID : T0603704775
Cross Street: MCBEAN PARKWAY

CORTESE:
Region: CORTESE
Fac Address 2: 24030 CREEKSIDE ROAD

CC554 **VALENCIA BMW** **RCRIS-SQG** **1000135456**
West **24030 CREEKSIDE RD** **FINDS** **CAD982318339**
> 1 **VALENCIA, CA 91355** **HAZNET**
9229 ft.

Site 3 of 11 in cluster CC

Relative: Lower

Actual: 1139 ft.

RCRIS:
Owner: VALENCIA BMW
(805) 287-4170
EPA ID: CAD982318339

Contact: BILL FENNER
(805) 287-4170

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: 262.10-12.A
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 03/19/1992
Actual Date Achieved Compliance: 03/19/1997

There are 1 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAC002215977
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 3.6821
Waste Category: Oil/water separation sludge
Disposal Method: Transfer Station
Contact: TERRY YORK
Telephone: (805) 254-8000
Mailing Address: 24030 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

CC555
West
> 1
9229 ft.

Relative:
Lower

Actual:
1139 ft.

BMW OF VALENCIA
24030 CREEKSIDE ROAD
VALENCIA, CA 91354

HAZNET **S103952863**
N/A

Site 4 of 11 in cluster CC

HAZNET:

Gepaid:	CAD982318339
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.62
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	BRUCE THOMPSON/SERVICE MANAGER
Telephone:	(661) 254-8000
Mailing Address:	24030 CREEKSIDE ROAD VALENCIA, CA 91354
County	Not reported

Gepaid:	CAD982318339
TSD EPA ID:	CAD093459485
Gen County:	Los Angeles
Tsd County:	Fresno
Tons:	.0166
Waste Category:	Unspecified solvent mixture Waste
Disposal Method:	Transfer Station
Contact:	KAREN FARGUSON
Telephone:	(805) 254-8000
Mailing Address:	23820 CREEKSIDE ROAD VALENCIA, CA 91354
County	Los Angeles

CC556
West
> 1
9229 ft.

Relative:
Lower

Actual:
1139 ft.

BMW VALENCIA
24030 W CREEKSIDE RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **U003063708**
N/A

Site 5 of 11 in cluster CC

HMS:

Facility Id:	007990-036013		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

Facility Id:	007990-I08481		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

557 WSW > 1 9240 ft. — **SANTA CLARITA REBAR**, **26171 MONTOLLA LN**, **SANTA CLARITA, CA** — **LOS ANGELES CO. HMS** — **S103945418** / **N/A**

Relative: Lower
Actual: 1159 ft.

HMS:
Facility Id: 020043-028574
Area: 7A
Facility Type: Not reported
Permit Number: 174 — Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

CC558 West > 1 9241 ft. — **LEXUS OF VALENCIA**, **24033 CREEKSIDE ROAD**, **VALENCIA, CA 91355** — **RCRIS-SQG**, **FINDS**, **HAZNET** — **1000207302** / **CAD981637028**

Site 6 of 11 in cluster CC

Relative: Lower
Actual: 1138 ft.

RCRIS:
Owner: KEYLEX INC
(661) 260-2000
EPA ID: CAD981637028
Contact: JOHN ARBUCKLE
(661) 260-2000
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAD981637028
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 4.6077
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 24033 CREEKSIDE RD
VALENCIA, CA 91355 - 1727
County Los Angeles

Gepaid: CAD981637028
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.9181
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 24033 CREEKSIDE RD
VALENCIA, CA 91355 - 1727
County Los Angeles

LEXUS OF VALENCIA (Continued) **1000207302**

Gepaid: CAD981637028
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.24
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: JOHN ARBUCKLE
Telephone: (661) 260-2000
Mailing Address: 24033 CREEKSIDE RD
VALENCIA, CA 91355 - 1727
County Not reported

Gepaid: CAD981637028
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.0842
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 24033 CREEKSIDE RD
VALENCIA, CA 91355 - 1727
County Los Angeles

Gepaid: CAD981637028
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.6895
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: Not reported
Telephone: (000) 000-0000
Mailing Address: 24033 CREEKSIDE RD
VALENCIA, CA 91355 - 1727
County Los Angeles

Click this hyperlink while viewing on your computer to access
7 additional CA HAZNET record(s) in the EDR Site Report.

CC559 **LEXUS OF VALENCIA** **UST** **U003778232**
West **24033 CREEKSIDE RD** **N/A**
> 1 **VALENCIA, CA 91355**
9241 ft.

Site 7 of 11 in cluster CC

Relative:
Lower

State UST:
Facility ID: 032460
Region: STATE
Local Agency: 19000

Actual:
1138 ft.

CC560
West
> 1
9241 ft.

Relative:
Lower

Actual:
1138 ft.

LEXUS OF VALENCIA
24033 W CREEKSIDE RD
VALENCIA, CA 91355

Site 8 of 11 in cluster CC

HAZNET **S104294646**
LOS ANGELES CO. HMS **N/A**

HAZNET:

Gepaid:	CAL000190427
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.1251
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Contact:	KEYLEX INC
Telephone:	(000) 000-0000
Mailing Address:	5855 VAN NUYS BLVD VAN NUYS, CA 91401
County	Los Angeles

Gepaid:	CAL000190427
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.1876
Waste Category:	Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method:	Recycler
Contact:	KEYLEX INC
Telephone:	(000) 000-0000
Mailing Address:	5855 VAN NUYS BLVD VAN NUYS, CA 91401
County	Los Angeles

Gepaid:	CAL000190427
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.1251
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	KEYLEX INC
Telephone:	(000) 000-0000
Mailing Address:	5855 VAN NUYS BLVD VAN NUYS, CA 91401
County	Los Angeles

Gepaid:	CAL000190427
TSD EPA ID:	CAT080033681
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.1251
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	KEYLEX INC
Telephone:	(000) 000-0000
Mailing Address:	5855 VAN NUYS BLVD VAN NUYS, CA 91401
County	Los Angeles

LEXUS OF VALENCIA (Continued) **S104294646**

Gepaid: CAL000190427
TSD EPA ID: CAT080033681
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.05
Waste Category: Other organic solids
Disposal Method: Disposal, Land Fill
Contact: KEYLEX INC
Telephone: (000) 000-0000
Mailing Address: 5855 VAN NUYS BLVD
VAN NUYS, CA 91401
County Los Angeles

HMS:
Facility Id: 007879-032460
Area: 7A
Facility Type: T1
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 007879-030691
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

CC561
West
> 1
9241 ft.

Relative:
Lower

Actual:
1138 ft.

VALENCIA MAZDA **LOS ANGELES CO. HMS** **U002281528**
24033 W CREEKSIDE RD **N/A**
SANTA CLARITA, CA

Site 9 of 11 in cluster CC

HMS:
Facility Id: 007879-I08341
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

Facility Id: 007879-008341
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
CD562 WSW > 1 9258 ft.	**NEWHALL LAND AND FARMING 23823 VALENCIA VALENCIA, CA 91355**	**LUST Cortese**	**S103438009 N/A**

Site 1 of 6 in cluster CD

Relative: Lower

Actual: 1150 ft.

State LUST:

Cross Street:	Not reported		
Qty Leaked:	0		
Case Number	R-25497		
Reg Board:	4		
Chemical:	1		
Lead Agency:	Local Agency		
Local Agency :	19000		
Case Type:	Soil only		
Status:	Case Closed		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	7/13/98 0:00		
Release Date:	07/13/1998		
Cleanup Fund Id :	Not reported		
Discover Date :	/ /		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	7/17/98 0:00		
Funding:	Not reported		
Staff Initials:	Not reported		
How Discovered:	Not reported		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	Not reported		
Leak Source:	Not reported		
MTBE Date :	Not reported		
Max MTBE GW :	Not reported		
MTBE Tested:	Not Required to be Tested.		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	Not reported		
Staff :	UNK		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	SANTA CLARA RIVER VA		
Operator :	Not reported		
Oversight Prgm:	LUST		
Review Date :	7/13/98 0:00		
Stop Date :	/ /		
Work Suspended :	Not reported		
Responsible Party	NEWHALL LAND AND FARMING CO		
RP Address:	23823 VALENCIA BLVD., VALENCIA CA 91355-2194		
Global Id:	T0603705513		
Org Name:	Not reported		
Contact Person:	Not reported		
MTBE Conc:	Not reported		
Mtbe Fuel:	Not reported		
Water System Name:	Not reported		

NEWHALL LAND AND FARMING (Continued) **S103438009**

Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 07/13/1998
Lead Agency: Local Agency
Local Agency: 19000
Substance: 1
Case Type: Soil
Status: Case Closed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 7/13/98
Date Leak Record Entered: 7/17/98
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : Not reported
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: NEWHALL LAND AND FARMING CO
RP Address: 23823 VALENCIA BLVD., VALENCIA CA 91355-2194
Significant Interim Remedial Action Taken: Not reported
Program : LUST
Lat / Long : 34 / -119
Local Agency Staff: Not reported
Summary : Not reported
Hydrologic Basin # : SANTA CLARA RIVER VA
Beneficial Use : Not reported
Priority : Not reported
Cleanup Fund Id : Not reported
Suspended : Not reported
Local Case No : Not reported
Substance Quantity : 0
Abatement Method Used at the Site: Not reported
Operator : Not reported
Water System : Not reported
Well Name : Not reported
Approx. Dist To Production Well (ft) : 1092.784261
Assigned Name : Not reported
Source of Cleanup Funding: Not reported
Date the Leak was Discovered: / /
How the Leak was Discovered: Not reported
How the Leak was Stopped: Not reported
Cause of Leak: Not reported
Leak Source: Not reported
Date The Leak was Stopped: Not reported
Date Confirmation Leak Began: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported

NEWHALL LAND AND FARMING (Continued) **S103438009**

Post Remedial Action Monitoring Began: Not reported
Date the Case was Closed: 7/13/98
Enforcement Action Date: Not reported
Date Leak First Reported: 07/13/1998
Enforcement Type: Not reported
Global ID : T0603705513
Cross Street: Not reported

CORTESE:
Region: CORTESE
Fac Address 2: Not reported

CD563
WSW
> 1
9258 ft.

Relative:
Lower

Actual:
1150 ft.

LBTH INC **LOS ANGELES CO. HMS** **S102064224**
23823 VALENCIA BLVD **N/A**
SANTA CLARITA, CA

Site 2 of 6 in cluster CD

HMS:
Facility Id: 008253-008225
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

CD564
WSW
> 1
9278 ft.

Relative:
Lower

Actual:
1151 ft.

VALENCIA DENTAL CARE **HAZNET** **S105723388**
23838 VALENCIA STE 301 **N/A**
VALENCIA, CA 91355

Site 3 of 6 in cluster CD

HAZNET:
Gepaid: CAL000162221
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0
Waste Category: Other inorganic solid waste
Disposal Method: Transfer Station
Contact: DIANA/PATRICE
Telephone: (805) 291-1412
Mailing Address: 23838 VALENCIA STE 301
VALENCIA, CA 91355
County Not reported

CD565
WSW
> 1
9278 ft.

Relative:
Lower

Actual:
1151 ft.

FACEY MEDICAL FOUNDATION **HAZNET** **S103644876**
23838 VALENCIA **N/A**
VALENCIA, CA 91355

Site 4 of 6 in cluster CD

FACEY MEDICAL FOUNDATION (Continued) **S103644876**

HAZNET:

Gepaid:	CAL000159975
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.1035
Waste Category:	Metal sludge - Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
Disposal Method:	Recycler
Contact:	FACEY MEDICAL FOUNDATION
Telephone:	(818) 365-9531
Mailing Address:	11211 SEPULVEDA BLVD MISSION HILLS, CA 91345
County	Los Angeles

Gepaid:	CAL000159975
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	0.0535
Waste Category:	Metal sludge - Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
Disposal Method:	Recycler
Contact:	FACEY MEDICAL FOUNDATION
Telephone:	(818) 365-9531
Mailing Address:	11211 SEPULVEDA BLVD MISSION HILLS, CA 91345
County	Los Angeles

CD566
WSW
> 1
9278 ft.

Relative:
Lower

Actual:
1151 ft.

DAVID R WYNDHAMSMITH DDS
23838 VALENCIA BLVD #301
VALENCIA, CA 91355

HAZNET **S103960027**
N/A

Site 5 of 6 in cluster CD

HAZNET:

Gepaid:	CAL000147161
TSD EPA ID:	CAD108040858
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.0708
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	DAVID R WYNDHAMSMITH DDS
Telephone:	(000) 000-0000
Mailing Address:	23838 VALENCIA BLVD #301 VALENCIA, CA 91355
County	Los Angeles

CD567
WSW
> 1
9278 ft.

Relative:
Lower

Actual:
1151 ft.

VALENCIA ORAL SURGERY CTR
23838 VALENCIA #302
VALENCIA, CA 91355

HAZNET **S103993952**
N/A

Site 6 of 6 in cluster CD

HAZNET:

Gepaid:	CAL000146079
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.0208
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	R DEAN LANG DDS
Telephone:	(661) 253-3500
Mailing Address:	23838 VALENCIA #302 VALENCIA, CA 91355
County	Los Angeles

Gepaid:	CAL000146079
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	0.0417
Waste Category:	
Disposal Method:	Recycler
Contact:	R DEAN LANG DDS
Telephone:	(661) 253-3500
Mailing Address:	23838 VALENCIA #302 VALENCIA, CA 91355
County	Los Angeles

CE568
WSW
> 1
9303 ft.

Relative:
Lower

Actual:
1140 ft.

ADDIE'S GOLD & EWELRY
24311 WEST MAGIC MOUNTAIN PKWY
VALENCIA, CA 91355

HAZNET **S103948719**
N/A

Site 1 of 3 in cluster CE

HAZNET:

Gepaid:	CAL000177534
TSD EPA ID:	CAD042345884
Gen County:	Los Angeles
Tsd County:	Santa Clara
Tons:	.2400
Waste Category:	Other inorganic solid waste
Disposal Method:	Transfer Station
Contact:	GARY POPEJOY
Telephone:	(805) 259-4424
Mailing Address:	24311 MAGIC MOUNTAIN PKWY VALENCIA, CA 91355
County	Los Angeles

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
CC569 **West** **> 1** **9338 ft.**	**PARKWAY OLDMOBILE-CADILLAC** **24050 W CREEKSIDE RD** **VALENCIA, CA 91355**	**HAZNET** **LOS ANGELES CO. HMS**	**S102064255** **N/A**

Site 10 of 11 in cluster CC

Relative: Lower

Actual: 1138 ft.

HAZNET:

Gepaid:	CAL000175431
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.6255
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Contact:	PARKWAY MOTORS
Telephone:	(805) 253-4441
Mailing Address:	24050 CREEKSIDE RD VALENCIA, CA 91355
County	Los Angeles

Gepaid:	CAL000175431
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.4170
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Contact:	PARKWAY MOTORS
Telephone:	(805) 253-4441
Mailing Address:	24050 CREEKSIDE RD VALENCIA, CA 91355
County	Los Angeles

HMS:

Facility Id:	017255-023340		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

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570 **WSW** **> 1** **9350 ft.**	**THE LODGE AT A TOWN CENTER** **24509 TOWN CENTER DR** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S105193932** **N/A**

Relative: Lower

Actual: 1145 ft.

HMS:

Facility Id:	026737-036938		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

CC571
West
> 1
9361 ft.

MOORE OLDSMOBILE/CADILLAC INC
24055 W CREEKSIDE RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S102064256**
N/A

Site 11 of 11 in cluster CC

Relative:
Lower

Actual:
1138 ft.

HMS:

Facility Id:	007866-012957		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Removed
Facility Status:	Removed		
Region:	Los Angeles County:		

CF572
East
> 1
9407 ft.

CANYON AUTO SUPPLY
20541 W SOLEDAD CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S105696669**
N/A

Site 1 of 11 in cluster CF

Relative:
Higher

Actual:
1301 ft.

HMS:

Facility Id:	001651-001726		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Removed
Facility Status:	Removed		
Region:	Los Angeles County:		

CF573
East
> 1
9407 ft.

NAPA AUTO PARTS
20541 W SOLEDAD CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S105696670**
N/A

Site 2 of 11 in cluster CF

Relative:
Higher

Actual:
1301 ft.

HMS:

Facility Id:	001651-028910		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

CF574
East
> 1
9407 ft.

LIL' OHN AUTO PARTS (USED OIL COLLECTION
20541 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351

HAZNET **S103640744**
N/A

Site 3 of 11 in cluster CF

Relative:
Higher

Actual:
1301 ft.

HAZNET:

Gepaid:	CAH111000460
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	4.1283
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	LIL'JOHN INC.
Telephone:	(000) 000-0000
Mailing Address:	25601 WEST AVENUE STANFORD VALENCIA, CA 91355

LIL' OHN AUTO PARTS (USED OIL COLLECTION (Continued) **S103640744**

County Los Angeles

Gepaid: CAH111000460
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4587
Waste Category: Waste oil and mixed oil
Disposal Method: Not reported
Contact: LIL'JOHN INC.
Telephone: (000) 000-0000
Mailing Address: 25601 WEST AVENUE STANFORD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAH111000460
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0250
Waste Category: Paint sludge
Disposal Method: Not reported
Contact: LIL'JOHN INC.
Telephone: (000) 000-0000
Mailing Address: 25601 WEST AVENUE STANFORD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAH111000460
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4587
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: LIL'JOHN INC.
Telephone: (000) 000-0000
Mailing Address: 25601 WEST AVENUE STANFORD
VALENCIA, CA 91355
County Los Angeles

CF575 **LIL OHN AUTO PARTS** **LOS ANGELES CO. HMS** **S105696668**
East **20541 W SOLEDAD CANYON RD** **N/A**
> 1 **SANTA CLARITA, CA**
9407 ft.

Site 4 of 11 in cluster CF

Relative:
Higher

HMS:
Facility Id: 001651-I01726
Area: 7A
Facility Type: I09
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

Actual:
1301 ft.

576 East > 1 9430 ft. — **FOLVEN BUILDING MATERIALS**, **26957 HONBY AVE**, **CANYON COUNTRY, CA 91351** — **HIST UST** — **U001567747** / **N/A**

Relative: Higher
Actual: 1299 ft.

UST HIST:

Facility ID:	50488	Owner Name:	FOLVEN BUILDING MATERIALS
Total Tanks:	1	Region:	STATE
Owner Address:	26957 HONBY AVE. CANYON COUNTRY, CA 91351		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00001000	Year Installed:	1983
Type of Fuel:	DIESEL	Tank Construction:	1/2 inches
Leak Detection:	Stock Inventor		
Contact Name:	DENNIS FOLVEN	Telephone:	(805) 251-1325
Facility Type:	Other	Other Type:	MAINTENANCE YARD

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577 NNE > 1 9442 ft. — **SIMI SMOG EXPERTS**, **21627 MASTERSON CT**, **SANTA CLARITA, CA** — **LOS ANGELES CO. HMS** — **S103945079** / **N/A**

Relative: Higher
Actual: 1289 ft.

HMS:

Facility Id:	020042-028573		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

CE578 WSW > 1 9442 ft. — **ENS CAFE**, **24341 W MAGIC MOUNTAIN PKWY**, **SANTA CLARITA, CA** — **LOS ANGELES CO. HMS** — **U003063748** / **N/A**

Site 2 of 3 in cluster CE

Relative: Lower
Actual: 1139 ft.

HMS:

Facility Id:	008029-I08528		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Suspended
Facility Status:	Permit		
Region:	Los Angeles County:		

Facility Id:	008029-040184		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

CE579 **ALPHA GRAPHICS** **HAZNET** **S103645518**
West **24343 MAGIC MOUNTAIN PKWY** **N/A**
> 1 **SANTA CLARITA, CA 91355**
9450 ft.

Site 3 of 3 in cluster CE

Relative:
Lower

Actual:
1139 ft.

HAZNET:

Gepaid:	CAL000143050
TSD EPA ID:	CAT000613976
Gen County:	Los Angeles
Tsd County:	Orange
Tons:	.1292
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Transfer Station
Contact:	JIM LAROCCA
Telephone:	(805) 255-2845
Mailing Address:	24343 MAGIC MOUNTAIN PKWY VALENCIA, CA 91355
County	Los Angeles

Gepaid:	CAL000143050
TSD EPA ID:	CAT000613976
Gen County:	Los Angeles
Tsd County:	Orange
Tons:	.0625
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Transfer Station
Contact:	JIM LAROCCA
Telephone:	(805) 255-2845
Mailing Address:	24343 MAGIC MOUNTAIN PKWY VALENCIA, CA 91355
County	Los Angeles

Gepaid:	CAL000143050
TSD EPA ID:	CAT000613976
Gen County:	Los Angeles
Tsd County:	Orange
Tons:	0.1292
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Transfer Station
Contact:	JIM LAROCCA
Telephone:	(805) 255-2845
Mailing Address:	24343 MAGIC MOUNTAIN PKWY VALENCIA, CA 91355
County	Los Angeles

Gepaid:	CAL000143050
TSD EPA ID:	CAT000613976
Gen County:	Los Angeles
Tsd County:	Orange
Tons:	.1250
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Transfer Station
Contact:	JIM LAROCCA
Telephone:	(805) 255-2845
Mailing Address:	24343 MAGIC MOUNTAIN PKWY VALENCIA, CA 91355
County	Los Angeles

ALPHA GRAPHICS (Continued) **S103645518**

Gepaid: CAL000143050
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Fresno
Tons: 0.06
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Not reported
Contact: JIM LAROCCA, OWNER
Telephone: (805) 255-2845
Mailing Address: 24343 MAGIC MOUNTAIN PKWY
VALENCIA, CA 91355
County Not reported

Click this hyperlink while viewing on your computer to access
3 additional CA HAZNET record(s) in the EDR Site Report.

CG580 **SAUGUS ANIMAL HOSPITAL** **HAZNET** **S103986848**
NE **27737 BOUQUET CANYON RD, #130** **N/A**
> 1 **SAUGUS, CA 91350**
9457 ft.

Site 1 of 4 in cluster CG

Relative: Higher

Actual: 1306 ft.

HAZNET:
Gepaid: CAL000157711
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .0417
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: GREG EHRMAN
Telephone: (805) 297-8373
Mailing Address: 27737 BOUQUET CANYON RD STE 130
SANTA CLARITA, CA 91350
County Los Angeles

CG581 **BEST CLEANERS** **RCRIS-SQG** **1000472928**
NE **27737 BOUQUET CYN RD** **FINDS** **CAD982435588**
> 1 **SAUGUS, CA 91350** **HAZNET**
9457 ft. **CLEANERS**

Site 2 of 4 in cluster CG

Relative: Higher

Actual: 1306 ft.

RCRIS:
Owner: JAY YOUNG LO
(415) 555-1212
EPA ID: CAD982435588

Contact: ENVIRONMENTAL MANAGER
(805) 269-9449

Classification: Small Quantity Generator
TSDF Activities: Not reported

BEST CLEANERS (Continued) **1000472928**

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

CA Cleaners:
Inactive Date: Not reported
EPA Id: CAD982435588
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : Yes
Mail Name : Not reported
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Owner Name : YUNG L MYUNG
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Owner Telephone 8052969449
Contact Name : YUNG MYUNG
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Contact Telephone 6612969449
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

Inactive Date: Not reported
EPA Id: CAD982435588
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : Yes
Mail Name : Not reported
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Owner Name : YUNG L MYUNG
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Owner Telephone 8052969449
Contact Name : YUNG MYUNG
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Contact Telephone 6612969449
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

Inactive Date: Not reported
EPA Id: CAD982435588
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : Yes
Mail Name : Not reported
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Owner Name : YUNG L MYUNG
Mailing Address: 27737 BOUQUET CANYON RD

BEST CLEANERS (Continued) **1000472928**

SANTA CLARITA, CA 91350
Owner Telephone 8052969449
Contact Name : YUNG MYUNG
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Contact Telephone 6612969449
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

Inactive Date: Not reported
EPA Id: CAD982435588
Facility Address 2 Not reported
NAICS Code : 81232
Facility Active : Yes
Mail Name : Not reported
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Owner Name : YUNG L MYUNG
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Owner Telephone 8052969449
Contact Name : YUNG MYUNG
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350
Contact Telephone 6612969449
Contact Fax : Not reported
Contact Email : Not reported
Region Code : 3

HAZNET:
Gepaid: CAD982435588
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2485
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: YUNG L MYUNG
Telephone: (805) 296-9449
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 3712
County Los Angeles

Gepaid: CAD982435588
TSD EPA ID: CAT000613992
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2735
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: YUNG L MYUNG
Telephone: (805) 296-9449
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 3712
County Los Angeles

BEST CLEANERS (Continued) **1000472928**

Gepaid: CAD982435588
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.1331
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: YUNG L MYUNG
Telephone: (805) 296-9449
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 3712
County Los Angeles

Gepaid: CAD982435588
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .5850
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: YUNG L MYUNG
Telephone: (805) 296-9449
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 3712
County Los Angeles

Gepaid: CAD982435588
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0000
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Not reported
Contact: YUNG L MYUNG
Telephone: (805) 296-9449
Mailing Address: 27737 BOUQUET CANYON RD
SANTA CLARITA, CA 91350 - 3712
County Los Angeles

Click this hyperlink while viewing on your computer to access
11 additional CA HAZNET record(s) in the EDR Site Report.

CG582 **TELLYS CHARBURGERS** **LOS ANGELES CO. HMS** **U003064203**
NE **27737 N BOUQUET CANYON RD** **N/A**
> 1 **SANTA CLARITA, CA**
9457 ft.

Site 3 of 4 in cluster CG

Relative:
Higher

HMS:
Facility Id: 008571-I15510
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Actual:
1306 ft.

CG583
NE
> 1
9457 ft.

SNAPSHOT 1HR PHOTO, UNIT 126
27737 N BOUQUET CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S102229790**
N/A

Site 4 of 4 in cluster CG

Relative:
Higher

Actual:
1306 ft.

HMS:
Facility Id: 008571-I16010
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

CF584
East
> 1
9464 ft.

MIKES TIREMAN
20529 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351

RCRIS-SQG **1000595469**
FINDS **CAD983594060**

Site 5 of 11 in cluster CF

Relative:
Higher

Actual:
1301 ft.

RCRIS:
Owner: MICHAEL L CONE
(415) 555-1212
EPA ID: CAD983594060
Contact: MICHAEL CONE
(805) 252-4455
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

CF585
East
> 1
9464 ft.

MIKE'S TIRE MAN
20529 SOLEDAD CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945028**
N/A

Site 6 of 11 in cluster CF

Relative:
Higher

Actual:
1301 ft.

HMS:
Facility Id: 020317-028909
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

CF586
East
> 1
9464 ft.

Relative:
Higher

Actual:
1301 ft.

MIKE'S TIREMAN INC
20529 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351

HAZNET **S102361048**
SWF/LF **N/A**

Site 7 of 11 in cluster CF

LF:

Facility ID:	19-TI-0138
Operator:	Mike's Tireman, Inc.
Operator Phone:	(661) 252-4455
Operator Addr:	20529 Soledad Canyon Rd Canyon Country, CA 91351
Owner:	Mike's Tireman, Inc.
Owner Address:	Not reported 20529 Soledad Canyon Rd Canyon Country, CA 91351
Owner Telephone:	(661) 252-4455
Activity:	Tire Dealer
Operator's Status:	Not reported
Regulation Status:	Not reported
Region:	STATE
Lat/Long:	34 / -118
Permit Date:	Not reported
Accepted Waste:	Tires,Tires, Oversize,Tires, Passenger,Tires, Tractor,Tires, Truck
Restrictions:	
Status :	Not reported
Swisnumber :	Not reported
Site Type :	Not reported
Aka :	Not reported
Type Of Waste :	Not reported
Disposal Area :	Not reported
SWFP Date :	Not reported
WDR Number :	Not reported
Dates Of Operation :	Not reported
Closure Approved :	Not reported
Date Of Field Units :	Not reported
Surface Condition :	Not reported
Landfill Gas :	Not reported
Leachate :	Not reported
Emergency Response :	Not reported
Other Recommendation :	Not reported
Reassess Site :	Not reported
Priority For Site Assessment :	Not reported
Lea Date :	Not reported
Explanation:	Not Reported
No Further Action:	Not Reported
Permitted Throughput with Units:	4999
Permitted Throughput with Units:	4999
Permitted Throughput with Units:	4999
Actual Throughput with Units:	Tires
Actual Capacity with Units:	0
Permitted Capacity with Units:	0
Remaining Capacity with Units:	Not reported
Permitted Total Acreage:	4
Inspection Frequency:	30 Months
Landuse Name:	Not reported
GIS Source:	Map
Permit Status:	Permitted
Category:	Waste Tire Site

MIKE'S TIREMAN INC (Continued) **S102361048**

Unit Number:	01
Last Waste Tire Inspection Count :	0
Last Waste Tire Inspection Date:	8/10/00
Original Waste Tire Count:	2000
Original Waste Tire Count Date:	2/1/95
Closure Date:	/ /
Closure Type:	Not reported
Disposal Acreage:	Not reported
Remaining Capacity:	Not reported
Year Opened:	Not reported
Year Closed:	Not reported
Fill Area:	Not reported
Type Of Refuse:	Not reported
Avg Depth Of Fill:	Not reported
Addtl Expansion Area:	Not reported
Site Description:	Not Reported

HAZNET:

Gepaid:	CAD983594060
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.3418
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	MICHAEL L CONE
Telephone:	(661) 252-4455
Mailing Address:	20529 SOLEDAD CANYON RD CANYON COUNTRY, CA 91351 - 2436
County	Los Angeles

Gepaid:	CAD983594060
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.13
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	MICHAEL L CONE_/ PRESIDENT
Telephone:	(805) 252-4455
Mailing Address:	20529 SOLEDAD CANYON RD CANYON COUNTRY, CA 91351 - 2436
County	Not reported

Gepaid:	CAD983594060
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.2709
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	MICHAEL L CONE
Telephone:	(661) 252-4455
Mailing Address:	20529 SOLEDAD CANYON RD CANYON COUNTRY, CA 91351 - 2436
County	Los Angeles

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
CH587 West > 1 9472 ft.	**PARKWAY OLDSMOBILE CADILLAC INC 24055 CREEKSIDE RD VALENCIA, CA 91355**	**RCRIS-SQG FINDS HAZNET LOS ANGELES CO. HMS**	**1000596814 CAD983607946**

Site 1 of 11 in cluster CH

Relative: Lower

Actual: 1136 ft.

RCRIS:

Owner: MOORE OLDSMOBILE CADILLAC
(313) 740-9594
EPA ID: CAD983607946

Contact: ARRON WREN
(805) 253-4441

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid: CAD983607946
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.5020
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: PARKWAY OLDSMOBILE CADILLAC
Telephone: (805) 253-4441
Mailing Address: 24055 CREEKSIDE RD
VALENCIA, CA 91355 - 1727
County Los Angeles

Gepaid: CAD983607946
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0500
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Treatment, Tank
Contact: PARKWAY OLDSMOBILE CADILLAC
Telephone: (805) 253-4441
Mailing Address: 24055 CREEKSIDE RD
VALENCIA, CA 91355 - 1727
County Los Angeles

Gepaid: CAD983607946
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .5627
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: PARKWAY OLDSMOBILE CADILLAC
Telephone: (805) 253-4441
Mailing Address: 24055 CREEKSIDE RD
VALENCIA, CA 91355 - 1727
County Los Angeles

PARKWAY OLDSMOBILE CADILLAC INC (Continued) **1000596814**

Gepaid: CAD983607946
TSD EPA ID: CAD093459485
Gen County: Los Angeles
Tsd County: Fresno
Tons: .0625
Waste Category: Organic liquids with metals Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
Disposal Method: Transfer Station
Contact: PARKWAY OLDSMOBILE CADILLAC
Telephone: (805) 253-4441
Mailing Address: 24055 CREEKSIDE RD
VALENCIA, CA 91355 - 1727
County Los Angeles

Gepaid: CAD983607946
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 12.5100
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: PARKWAY OLDSMOBILE CADILLAC
Telephone: (805) 253-4441
Mailing Address: 24055 CREEKSIDE RD
VALENCIA, CA 91355 - 1727
County Los Angeles

Click this hyperlink while viewing on your computer to access
7 additional CA HAZNET record(s) in the EDR Site Report.

HMS:
Facility Id: 007866-I08327
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

CH588 **MOORE OLDSMOBILE CADILLAC INC** **HAZNET** **S103978364**
West **24055 CREEKSIDE RD** **N/A**
> 1 **VALENCIA, CA 91355**
9472 ft.

Site 2 of 11 in cluster CH

Relative: Lower

Actual: 1136 ft.

HAZNET:
Gepaid: CAL000031627
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.0425
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Contact: MOORE OLDSMOBILE/CADI
Telephone: (000) 000-0000
Mailing Address: 24055 CREEKSIDE RD
VALENCIA, CA 91355 - 1727
County Los Angeles

MOORE OLDSMOBILE CADILLAC INC (Continued) **S103978364**

Gepaid: CAL000031627
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1251
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: MOORE OLDSMOBILE/CADI
Telephone: (000) 000-0000
Mailing Address: 24055 CREEKSIDE RD
VALENCIA, CA 91355 - 1727
County Los Angeles

Gepaid: CAL000031627
TSD EPA ID: CAD028409019
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 7.9230
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Treatment, Tank
Contact: MOORE OLDSMOBILE/CADI
Telephone: (000) 000-0000
Mailing Address: 24055 CREEKSIDE RD
VALENCIA, CA 91355 - 1727
County Los Angeles

Gepaid: CAL000031627
TSD EPA ID: CAT080011059
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 4.5870
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Recycler
Contact: MOORE OLDSMOBILE/CADI
Telephone: (000) 000-0000
Mailing Address: 24055 CREEKSIDE RD
VALENCIA, CA 91355 - 1727
County Los Angeles

Gepaid: CAL000031627
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.5020
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: MOORE OLDSMOBILE/CADI
Telephone: (000) 000-0000
Mailing Address: 24055 CREEKSIDE RD
VALENCIA, CA 91355 - 1727
County Los Angeles

Click this hyperlink while viewing on your computer to access 2 additional CA HAZNET record(s) in the EDR Site Report.

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
589 **West** **> 1** **9559 ft.**	**EL POLLO LOCO RESTAURANT** **24365 W MAGIC MOUNTAIN PKWY** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S104537656** **N/A**

Relative:
Lower

Actual:
1138 ft.

HMS:

Facility Id:	008362-I08928		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

CH590 **West** **> 1** **9569 ft.**	**VOLKSWAGEN OF VALENCIA** **24095 W CREEKSIDE RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S105570347** **N/A**

Site 3 of 11 in cluster CH

Relative:
Lower

Actual:
1136 ft.

HMS:

Facility Id:	008479-037810		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Removed
Facility Status:	Removed		
Region:	Los Angeles County:		

CH591 **West** **> 1** **9569 ft.**	**VOLKSWAGON OF VALENCIA** **24095 CREEKSIDE RD** **VALENCIA, CA 91355**	**HAZNET**	**S104583097** **N/A**

Site 4 of 11 in cluster CH

Relative:
Lower

Actual:
1136 ft.

HAZNET:

Gepaid:	CAL000208912
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.06
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	VANESSA GONZALES SERVICE MGR
Telephone:	(661) 253-1234
Mailing Address:	24095 CREEKSIDE RD VALENCIA, CA 91355
County	Not reported

Gepaid:	CAL000208912
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.75
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	VANESSA GONZALES SERVICE MGR
Telephone:	(661) 253-1234
Mailing Address:	24095 CREEKSIDE RD VALENCIA, CA 91355
County	Not reported

VOLKSWAGON OF VALENCIA (Continued) **S104583097**

Gepaid: CAL000208912
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.251
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: CREEKSIDE MOTORS II, INC.
Telephone: (661) 253-1230
Mailing Address: 24095 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000208912
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1042
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Not reported
Contact: CREEKSIDE MOTORS II, INC.
Telephone: (661) 253-1230
Mailing Address: 24095 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000208912
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .8340
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: CREEKSIDE MOTORS II, INC.
Telephone: (661) 253-1230
Mailing Address: 24095 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

CH592 **CROSSROADS HYUNDAI** **RCRIS-SQG** **1000386905**
West **24095 CREEKSIDE RD** **FINDS** **CAD982473423**
> 1 **VALENCIA, CA 91355**
9569 ft.

Site 5 of 11 in cluster CH

Relative:
Lower

Actual:
1136 ft.

RCRIS:
Owner: MARK ARONSON
(415) 555-1212
EPA ID: CAD982473423

Contact: ENVIRONMENTAL MANAGER
(805) 253-3666

Classification: Small Quantity Generator
TSDF Activities: Not reported

CROSSROADS HYUNDAI (Continued) **1000386905**

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

CH593 **INFINITI VALENCIA** **UST** **U003777176**
West **24095 CREEKSIDE RD** **N/A**
> 1 **VALENCIA, CA 91355**
9569 ft.

Site 6 of 11 in cluster CH

Relative:
Lower

State UST:
Facility ID: 013942
Region: STATE
Local Agency: 19000

Actual:
1136 ft.

CH594 **VALENCIA INFINITY** **HAZNET** **S104574817**
West **24095 CREEKSIDE RD** **N/A**
> 1 **VALENCIA, CA 91355**
9569 ft.

Site 7 of 11 in cluster CH

Relative:
Lower

HAZNET:
Gepaid: CAD982473423
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4587
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: VALENCIA INFINITY
Telephone: (805) 253-1234
Mailing Address: 24095 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

Actual:
1136 ft.

Gepaid: CAD982473423
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.7514
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: VALENCIA INFINITY
Telephone: (805) 253-1234
Mailing Address: 24095 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

VALENCIA INFINITY (Continued) **S104574817**

Gepaid: CAD982473423
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 3.3360
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: VALENCIA INFINITY
Telephone: (805) 253-1234
Mailing Address: 24095 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAD982473423
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .8340
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: VALENCIA INFINITY
Telephone: (805) 253-1234
Mailing Address: 24095 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAD982473423
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.0425
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: VALENCIA INFINITY
Telephone: (805) 253-1234
Mailing Address: 24095 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

Click this hyperlink while viewing on your computer to access
3 additional CA HAZNET record(s) in the EDR Site Report.

CH595 **INFINITI VALENCIA** **LOS ANGELES CO. HMS** **U002281918**
West **24095 W CREEKSIDE RD** **N/A**
> 1 **SANTA CLARITA, CA**
9569 ft.

Site 8 of 11 in cluster CH

Relative:
Lower

Actual:
1136 ft.

HMS:
Facility Id: 008479-013942
Area: 7A
Facility Type: T0
Permit Number: 174 Permit Status: Closed
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 008479-I13942
Area: 7A
Facility Type: I01

INFINITI VALENCIA (Continued) **U002281918**

Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

CF596
East
> 1
9644 ft.

Relative:
Higher

Actual:
1301 ft.

ERRY'S TRANSMISSIONS
20501 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351

HAZNET **S103972007**
N/A

Site 8 of 11 in cluster CF

HAZNET:
Gepaid: CAL000157993
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1459
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: GARY L GUMBEL
Telephone: (805) 252-7200
Mailing Address: 20501 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351 - 2436
County Los Angeles

CF597
East
> 1
9644 ft.

Relative:
Higher

Actual:
1301 ft.

JERRY AUTOMATIC TRANSMISSIONS INCORPORATED
20501 SOLEDAD CYN ROAD
CANYON COUNTRY, CA 91351

RCRIS-SQG **1000372041**
FINDS **CAD981407331**
HAZNET
HIST UST

Site 9 of 11 in cluster CF

RCRIS:
Owner: NOT REQUIRED
(415) 555-1212
EPA ID: CAD981407331

Contact: Not reported

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAD981407331
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2085
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: JERRY'S AUTOMATIC TRANS INC
Telephone: (805) 252-7200
Mailing Address: 20501 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351 - 2436
County Los Angeles

JERRY AUTOMATIC TRANSMISSIONS INCORPORATED (Continued) **1000372041**

Gepaid: CAD981407331
TSD EPA ID: CAD980883177
Gen County: Los Angeles
Tsd County: Kern
Tons: .4378
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: JERRY'S AUTOMATIC TRANS INC
Telephone: (805) 252-7200
Mailing Address: 20501 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351 - 2436
County Los Angeles

Gepaid: CAD981407331
TSD EPA ID: CAD980883177
Gen County: Los Angeles
Tsd County: Kern
Tons: .3753
Waste Category: Unspecified oil-containing waste
Disposal Method: Not reported
Contact: JERRY'S AUTOMATIC TRANS INC
Telephone: (805) 252-7200
Mailing Address: 20501 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351 - 2436
County Los Angeles

Gepaid: CAD981407331
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.3768
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: JERRY'S AUTOMATIC TRANS INC
Telephone: (805) 252-7200
Mailing Address: 20501 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351 - 2436
County Los Angeles

Gepaid: CAD981407331
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1668
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: JERRY'S AUTOMATIC TRANS INC
Telephone: (805) 252-7200
Mailing Address: 20501 SOLEDAD CANYON RD
CANYON COUNTRY, CA 91351 - 2436
County Los Angeles

Click this hyperlink while viewing on your computer to access
1 additional CA HAZNET record(s) in the EDR Site Report.

UST HIST:
Facility ID: 67087
Total Tanks: 1
Owner Address: 20501 SOLEDAD CYN RD.
Owner Name: JERRY'S AUTOMATIC TRANSMISSION
Region: STATE

JERRY AUTOMATIC TRANSMISSIONS INCORPORATED (Continued) **1000372041**

CANYON COUNTRY, CA 91351

Tank Used for:	WASTE		
Tank Num:	1	Container Num:	#1
Tank Capacity:	00000450	Year Installed:	1982
Type of Fuel:	5	Tank Construction:	X inches
Leak Detection:	None		
Contact Name:	G.W. HIDER	Telephone:	(805) 252-7200
Facility Type:	Other	Other Type:	TRANSMISSIONS

CF598
East
> 1
9644 ft.

Relative:
Higher

Actual:
1301 ft.

ERRY HIDDER **HAZNET** **S103971986**
20501 SOLEDA CANYON ROAD **N/A**
CANYON COUNTRY, CA 91351

Site 10 of 11 in cluster CF

HAZNET:

Gepaid:	CAC001169736
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.3761
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	JERRY HIDDEN
Telephone:	(818) 834-4662
Mailing Address:	PO BOX 2148
	CANYON COUNTRY, CA 91386 - 2148
County	Los Angeles

Gepaid:	CAC001169736
TSD EPA ID:	CAD982444481
Gen County:	Los Angeles
Tsd County:	San Bernardino
Tons:	.3250
Waste Category:	Other organic solids
Disposal Method:	Not reported
Contact:	JERRY HIDDEN
Telephone:	(818) 834-4662
Mailing Address:	PO BOX 2148
	CANYON COUNTRY, CA 91386 - 2148
County	Los Angeles

CF599
East
> 1
9644 ft.

Relative:
Higher

Actual:
1301 ft.

ERRY'S TRANSMISSIONS **LOS ANGELES CO. HMS** **S103317679**
20501 SOLEDAD CANYON RD **N/A**
SANTA CLARITA, CA

Site 11 of 11 in cluster CF

HMS:

Facility Id:	020316-028908		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
600 SSW > 1 9647 ft.	**23711 ALTA MADERA DR. 23711 ALTA MADERA DR. VALENCIA, CA 91355**	**ERNS**	**91217700 N/A**

Relative:
Lower

Actual:
1192 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

CH601 West > 1 9650 ft.	**VALENCIA NISSAN 24111 CREEKSIDE RD VALENCIA, CA 91355**	**RCRIS-SQG FINDS HAZNET**	**1000820152 CAD983661786**

Site 9 of 11 in cluster CH

Relative:
Lower

Actual:
1135 ft.

RCRIS:

Owner: SCV MOTORS INC DBA VALENCIA NISSAN
(805) 255-2020
EPA ID: CAD983661786

Contact: WARREN HENDERSON
(805) 255-2026

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid: CAD983661786
TSD EPA ID: CAD093459485
Gen County: Los Angeles
Tsd County: Fresno
Tons: .1793
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)
Disposal Method: Transfer Station
Contact: SCV MOTORS INC DBA VALENCIA NI
Telephone: (805) 255-2020
Mailing Address: 24111 CREEKSIDE RD
VALENCIA, CA 91355 - 1735
County Los Angeles

Gepaid: CAD983661786
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4378
Waste Category: Unspecified aqueous solution
Disposal Method: Not reported
Contact: SCV MOTORS INC DBA VALENCIA NI
Telephone: (805) 255-2020
Mailing Address: 24111 CREEKSIDE RD
VALENCIA, CA 91355 - 1735
County Los Angeles

VALENCIA NISSAN (Continued) **1000820152**

Gepaid: CAD983661786
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0000
Waste Category:
Disposal Method: Recycler
Contact: SCV MOTORS INC DBA VALENCIA NI
Telephone: (805) 255-2020
Mailing Address: 24111 CREEKSIDE RD
VALENCIA, CA 91355 - 1735
County Los Angeles

Gepaid: CAD983661786
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 4.1282
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: SCV MOTORS INC DBA VALENCIA NI
Telephone: (805) 255-2020
Mailing Address: 24111 CREEKSIDE RD
VALENCIA, CA 91355 - 1735
County Los Angeles

Gepaid: CAD983661786
TSD EPA ID: CAD093459485
Gen County: Los Angeles
Tsd County: Fresno
Tons: .0374
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Transfer Station
Contact: SCV MOTORS INC DBA VALENCIA NI
Telephone: (805) 255-2020
Mailing Address: 24111 CREEKSIDE RD
VALENCIA, CA 91355 - 1735
County Los Angeles

Click this hyperlink while viewing on your computer to access
22 additional CA HAZNET record(s) in the EDR Site Report.

CH602 **VALENCIA NISSAN** **LOS ANGELES CO. HMS** **S102064260**
West **24111 W CREEKSIDE RD** **N/A**
> 1 **SANTA CLARITA, CA**
9650 ft.

Site 10 of 11 in cluster CH

Relative:
Lower

HMS:
Facility Id: 008092-020824
Actual: Area: 7A
1135 ft. Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
CH603 **West** **> 1** **9650 ft.** **Relative:** **Lower** **Actual:** **1135 ft.**	**VALENCIA MITSUBISHI** **24111 W CREEKSIDE RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**U003063802** **N/A**

Site 11 of 11 in cluster CH

HMS:

Facility Id:	008092-I08604		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

CI604 **SSW** **> 1** **9748 ft.** **Relative:** **Lower** **Actual:** **1194 ft.**	**PUEBLO INC.** **25446 SAN FERNANDO RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103945339** **N/A**

Site 1 of 2 in cluster CI

HMS:

Facility Id:	020232-028813		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

CI605 **SSW** **> 1** **9748 ft.** **Relative:** **Lower** **Actual:** **1194 ft.**	**CLANTON BLOCK** **25446 SAN FERNANDO RD** **SANTA CLARITA, CA 91350**	**HAZNET**	**S103957640** **N/A**

Site 2 of 2 in cluster CI

HAZNET:

Gepaid:	CAC001396576
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	2.5020
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	CLANTON BLOCK
Telephone:	(805) 259-0950
Mailing Address:	25446 SAN FERNANDO RD SANTA CLARITA, CA 91350
County	Los Angeles

CJ606 **WSW** **> 1** **9760 ft.** **Relative:** **Lower** **Actual:** **1149 ft.**	**KOKY WHELLS U.S.A., INC** **1070 E DOMINGUEZ ST I** **CARSON, CA**	**LOS ANGELES CO. HMS**	**S102064232** **N/A**

Site 1 of 4 in cluster CJ

HMS:

Facility Id:	009126-028961		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		

KOKY WHELLS U.S.A., INC (Continued) **S102064232**

Region: Los Angeles County:

Facility Id: 009126-008327
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

Facility Id: 023956-033301
Area: 22
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

CK607 **VALENCIA LINCOLN MERCURY** **HAZNET** **S104564841**
West **24135 CREEKSIDE RD** **N/A**
> 1 **VALENCIA, CA 91355**
9766 ft.

Site 1 of 8 in cluster CK

Relative:
Lower

Actual:
1135 ft.

HAZNET:

Gepaid: CA0000294892
TSD EPA ID: CAD093459485
Gen County: Los Angeles
Tsd County: Fresno
Tons: .0333
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Transfer Station
Contact: VALENCIA LINCOLN MERCURY
Telephone: (805) 255-7703
Mailing Address: 24135 CREEKSIDE RD
VALENCIA, CA 91355 - 1735
County Los Angeles

Gepaid: CA0000294892
TSD EPA ID: CAD093459485
Gen County: Los Angeles
Tsd County: Fresno
Tons: .0417
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Not reported
Contact: VALENCIA LINCOLN MERCURY
Telephone: (805) 255-7703
Mailing Address: 24135 CREEKSIDE RD
VALENCIA, CA 91355 - 1735
County Los Angeles

Gepaid: CA0000294892
TSD EPA ID: CAD093459485
Gen County: Los Angeles
Tsd County: Fresno
Tons: .1459
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Transfer Station
Contact: VALENCIA LINCOLN MERCURY
Telephone: (805) 255-7703
Mailing Address: 24135 CREEKSIDE RD
VALENCIA, CA 91355 - 1735

VALENCIA LINCOLN MERCURY (Continued) **S104564841**

County Los Angeles

Gepaid: CA0000294892
TSD EPA ID: CAT000613976
Gen County: Los Angeles
Tsd County: Orange
Tons: .0958
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l
Disposal Method: Transfer Station
Contact: VALENCIA LINCOLN MERCURY
Telephone: (805) 255-7703
Mailing Address: 24135 CREEKSIDE RD
VALENCIA, CA 91355 - 1735
County Los Angeles

Gepaid: CA0000294892
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3544
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: VALENCIA LINCOLN MERCURY
Telephone: (805) 255-7703
Mailing Address: 24135 CREEKSIDE RD
VALENCIA, CA 91355 - 1735
County Los Angeles

Click this hyperlink while viewing on your computer to access
6 additional CA HAZNET record(s) in the EDR Site Report.

CK608
West
> 1
9766 ft.

Relative:
Lower

Actual:
1135 ft.

MAGIC LINCOLN MERCURY
24135 CREEKSIDE RD
VALENCIA, CA 91355

RCRIS-SQG **1000905055**
FINDS **CA0000294892**
HAZNET

Site 2 of 8 in cluster CK

RCRIS:
Owner: VAL NEW LINCOLN MERCURY INC
(661) 255-7703
EPA ID: CA0000294892

Contact: JIM SMELSER
(661) 255-7703

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

MAGIC LINCOLN MERCURY (Continued) **1000905055**

HAZNET:

Gepaid:	CAL000031824
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	3.5653
Waste Category:	Aqueous solution with 10% or more total organic residues
Disposal Method:	Recycler
Contact:	NORM GRAY
Telephone:	(000) 000-0000
Mailing Address:	24135 CREEKSIDE RD VALENCIA, CA 91355 - 1735
County	Los Angeles

Gepaid:	CAL000031824
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	4.4826
Waste Category:	Aqueous solution with 10% or more total organic residues
Disposal Method:	Recycler
Contact:	NORM GRAY
Telephone:	(000) 000-0000
Mailing Address:	24135 CREEKSIDE RD VALENCIA, CA 91355 - 1735
County	Los Angeles

Gepaid:	CAL000031824
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.6255
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	NORM GRAY
Telephone:	(000) 000-0000
Mailing Address:	24135 CREEKSIDE RD VALENCIA, CA 91355 - 1735
County	Los Angeles

Gepaid:	CAL000031824
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	2.2309
Waste Category:	Aqueous solution with 10% or more total organic residues
Disposal Method:	Recycler
Contact:	NORM GRAY
Telephone:	(000) 000-0000
Mailing Address:	24135 CREEKSIDE RD VALENCIA, CA 91355 - 1735
County	Los Angeles

MAGIC LINCOLN MERCURY (Continued) **1000905055**

Gepaid: CAL000031824
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 3.5861
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: NORM GRAY
Telephone: (000) 000-0000
Mailing Address: 24135 CREEKSIDE RD
VALENCIA, CA 91355 - 1735
County Los Angeles

Click this hyperlink while viewing on your computer to access
6 additional CA HAZNET record(s) in the EDR Site Report.

CK609
West
> 1
9766 ft.

Relative:
Lower

Actual:
1135 ft.

MAGIC LINCOLN-MERCURY **LOS ANGELES CO. HMS** **S104536573**
24135 W CREEKSIDE RD **N/A**
SANTA CLARITA, CA

Site 3 of 8 in cluster CK

HMS:

Facility Id: 008280-025621
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

Facility Id: 008280-025173
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

Facility Id: 008280-I08831
Area: 7A
Facility Type: I01
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

CK610
West
> 1
9766 ft.

Relative:
Lower

Actual:
1135 ft.

DETAIL DEPARTMENT MAGIC LINCOL **HAZNET** **S100860317**
24135 CREEKSIDE RD. **N/A**
VALENCIA, CA 91355

Site 4 of 8 in cluster CK

DETAIL DEPARTMENT MAGIC LINCOL (Continued) **S100860317**

HAZNET:

Gepaid:	CAL922965381
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	17.9310
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	NORM GRAY
Telephone:	(805) 255-7703
Mailing Address:	24135 CREEKSIDE RD VALENCIA, CA 91355 - 1735
County	Los Angeles

Gepaid:	CAL922965381
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	12.0930
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Contact:	NORM GRAY
Telephone:	(805) 255-7703
Mailing Address:	24135 CREEKSIDE RD VALENCIA, CA 91355 - 1735
County	Los Angeles

Gepaid:	CAL922965381
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.1876
Waste Category:	Unspecified solvent mixture Waste
Disposal Method:	Not reported
Contact:	NORM GRAY
Telephone:	(805) 255-7703
Mailing Address:	24135 CREEKSIDE RD VALENCIA, CA 91355 - 1735
County	Los Angeles

Gepaid:	CAL922965381
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.6468
Waste Category:	Unspecified solvent mixture Waste
Disposal Method:	Recycler
Contact:	NORM GRAY
Telephone:	(805) 255-7703
Mailing Address:	24135 CREEKSIDE RD VALENCIA, CA 91355 - 1735
County	Los Angeles

DETAIL DEPARTMENT MAGIC LINCOL (Continued) **S100860317**

Gepaid: CAL922965381
TSD EPA ID: CAT000646117
Gen County: Los Angeles
Tsd County: Kings
Tons: .8428
Waste Category: Empty containers less than 30 gallons
Disposal Method: Disposal, Land Fill
Contact: NORM GRAY
Telephone: (805) 255-7703
Mailing Address: 24135 CREEKSIDE RD
VALENCIA, CA 91355 - 1735
County Los Angeles

Click this hyperlink while viewing on your computer to access
2 additional CA HAZNET record(s) in the EDR Site Report.

611
East
> 1
9797 ft.

Relative:
Higher

Actual:
1296 ft.

RIO VISTA ELEMENTARY SCHOOL **HAZNET** **S102815974**
20417 CEDARCREEK ST **N/A**
CANYON COUNTRY, CA 91351

HAZNET:
Gepaid: CAL000082498
TSD EPA ID: CAD067786749
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .8428
Waste Category: Asbestos-containing waste
Disposal Method: Not reported
Contact: SAUGUS UNION SCHOOL DISTRICT
Telephone: (805) 297-8800
Mailing Address: SAUGUS, CA 91350
County Los Angeles

Gepaid: CAL000082498
TSD EPA ID: CAD067786749
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 20.2272
Waste Category: Asbestos-containing waste
Disposal Method: Disposal, Land Fill
Contact: SAUGUS UNION SCHOOL DISTRICT
Telephone: (805) 297-8800
Mailing Address: SAUGUS, CA 91350
County Los Angeles

CK612
West
> 1
9803 ft.

Relative:
Lower

Actual:
1135 ft.

VALENCIA BODY SHOP INC **RCRIS-SQG** **1000856936**
26643 AUTO CENTER DR **FINDS** **CA0000006726**
VALENCIA, CA 91355 **HAZNET**
EMI

Site 5 of 8 in cluster CK

VALENCIA BODY SHOP INC (Continued) **1000856936**

RCRIS:
Owner: VALENCIA BODY SHOP INC
(805) 255-5565
EPA ID: CA0000006726

Contact: RICHARD JACKSON
(805) 255-5565

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
National Emissions Inventory (NEI)
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CA0000006726
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2793
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: VALENCIA BODY SHOP INC
Telephone: (805) 255-5565
Mailing Address: 26643 AUTO CENTER DR
VALENCIA, CA 91355 - 1706
County Los Angeles

Gepaid: CA0000006726
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.15
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: RICHARD JACKSON-PRES
Telephone: (661) 255-5565
Mailing Address: 26643 AUTO CENTER DR
VALENCIA, CA 91355 - 1706
County Not reported

Gepaid: CA0000006726
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.0625
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Not reported
Contact: VALENCIA BODY SHOP INC
Telephone: (805) 255-5565
Mailing Address: 26643 AUTO CENTER DR
VALENCIA, CA 91355 - 1706
County Los Angeles

VALENCIA BODY SHOP INC (Continued) **1000856936**

Gepaid: CA0000006726
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.2792
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: VALENCIA BODY SHOP INC
Telephone: (805) 255-5565
Mailing Address: 26643 AUTO CENTER DR
VALENCIA, CA 91355 - 1706
County Los Angeles

EMISSIONS :

Facility ID :	99536
Air District Code :	SC
SIC Code :	7532
Total Priority Score :	Not reported
Health Risk Assessment :	Not reported
Non-cancer Chronic Haz Index :	Not reported
Non-cancer Acute Haz Index :	Not reported
Air Basin :	SC
Air District Name :	SOUTH COAST AQMD
Community Health Air Pollution Info System :	Not reported
Consolidated Emission Reporting Rule :	Not reported
County Code :	19
County ID :	19

CK613
West
> 1
9803 ft.

Relative:
Lower

Actual:
1135 ft.

VALENCIA BODY SHOP INC. **LOS ANGELES CO. HMS** **S103945446**
26643 AUTO CENTER DR **N/A**
SANTA CLARITA, CA

Site 6 of 8 in cluster CK

HMS:
Facility Id: 019367-027689
Area: 7A
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: OPEN
Region: Los Angeles County:

CK614
West
> 1
9813 ft.

Relative:
Lower

Actual:
1135 ft.

CREEKSIDE COLLISION **HAZNET** **S103647987**
26640 AUTO CENTER **N/A**
SANTA CLARITA, CA 91355

Site 7 of 8 in cluster CK

HAZNET:
Gepaid: CAL000084732
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0625
Waste Category: Organic liquids with metals Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)

CREEKSIDE COLLISION (Continued) **S103647987**

Disposal Method: Transfer Station
Contact: PRIDE COLLISION CENTERS INC.
Telephone: (818) 501-4140
Mailing Address: 26640 AUTO CENTER
SANTA CLARITA, CA 91355
County Los Angeles

Gepaid: CAL000084732
TSD EPA ID: CAD008302903
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .5004
Waste Category: Paint sludge
Disposal Method: Not reported
Contact: PRIDE COLLISION CENTERS INC.
Telephone: (818) 501-4140
Mailing Address: 26640 AUTO CENTER
SANTA CLARITA, CA 91355
County Los Angeles

Gepaid: CAL000084732
TSD EPA ID: CAD008302903
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.2508
Waste Category: Paint sludge
Disposal Method: Recycler
Contact: PRIDE COLLISION CENTERS INC.
Telephone: (818) 501-4140
Mailing Address: 26640 AUTO CENTER
SANTA CLARITA, CA 91355
County Los Angeles

Gepaid: CAL000084732
TSD EPA ID: CAD008302903
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Paint sludge
Disposal Method: Not reported
Contact: PRIDE COLLISION CENTERS INC.
Telephone: (818) 501-4140
Mailing Address: 26640 AUTO CENTER
SANTA CLARITA, CA 91355
County Los Angeles

Gepaid: CAL000084732
TSD EPA ID: CAD008302903
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2293
Waste Category: Paint sludge
Disposal Method: Recycler
Contact: PRIDE COLLISION CENTERS INC.
Telephone: (818) 501-4140
Mailing Address: 26640 AUTO CENTER
SANTA CLARITA, CA 91355
County Los Angeles

CK615
West
> 1
9813 ft.

Relative:
Lower

Actual:
1135 ft.

PRIDE AUTO BODY
26640 AUTO CENTER DR
SANTA CLARITA, CA

LOS ANGELES CO. HMS — **S105053533**
N/A

Site 8 of 8 in cluster CK

HMS:

Facility Id:	019365-027687		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

CL616
West
> 1
9856 ft.

Relative:
Lower

Actual:
1136 ft.

TARGET #257A
24425 MAGIC MOUNTAIN PKWY
VALENCIA, CA 91355

HAZNET — **S105087735**
N/A

Site 1 of 5 in cluster CL

HAZNET:

Gepaid:	CAC002308985
TSD EPA ID:	AZD009015389
Gen County:	Los Angeles
Tsd County:	99
Tons:	.1350
Waste Category:	Off-specification, aged, or surplus organics
Disposal Method:	Recycler
Contact:	TARGET
Telephone:	(800) 360-3220
Mailing Address:	1905 ASTON AVE STE 100 CARLSBAD, CA 92009
County	Los Angeles

Gepaid:	CAC002308985
TSD EPA ID:	AZD009015389
Gen County:	Los Angeles
Tsd County:	99
Tons:	.0775
Waste Category:	Off-specification, aged, or surplus organics
Disposal Method:	Treatment, Incineration
Contact:	TARGET
Telephone:	(800) 360-3220
Mailing Address:	1905 ASTON AVE STE 100 CARLSBAD, CA 92009
County	Los Angeles

Gepaid:	CAC002308985
TSD EPA ID:	AZD009015389
Gen County:	Los Angeles
Tsd County:	99
Tons:	.0175
Waste Category:	Other organic solids
Disposal Method:	Recycler
Contact:	TARGET
Telephone:	(800) 360-3220
Mailing Address:	1905 ASTON AVE STE 100 CARLSBAD, CA 92009
County	Los Angeles

TARGET #257A (Continued) **S105087735**

Gepaid: CAC002308985
TSD EPA ID: AZD009015389
Gen County: Los Angeles
Tsd County: 99
Tons: .0075
Waste Category:
Disposal Method: Recycler
Contact: TARGET
Telephone: (800) 360-3220
Mailing Address: 1905 ASTON AVE STE 100
CARLSBAD, CA 92009
County Los Angeles

CL617
West
> 1
9856 ft.

Relative:
Lower

Actual:
1136 ft.

TARGET #257A **HAZNET** **S103990346**
24425 W MAGIC MOUNTAIN PKWY **N/A**
VALENCIA, CA 91355

Site 2 of 5 in cluster CL

HAZNET:
Gepaid: CAC001371968
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0450
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Contact: TARGET
Telephone: (800) 360-3220
Mailing Address: 4920 CARROLL CANYON RD
SAN DIEGO, CA 92121
County Los Angeles

Gepaid: CAC001371968
TSD EPA ID: CAD088504881
Gen County: Los Angeles
Tsd County: Orange
Tons: .0025
Waste Category: Other inorganic solid waste
Disposal Method: Recycler
Contact: TARGET
Telephone: (800) 360-3220
Mailing Address: 4920 CARROLL CANYON RD
SAN DIEGO, CA 92121
County Los Angeles

Gepaid: CAC001371968
TSD EPA ID: CAT080033681
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0100
Waste Category: Alkaline solution without metals (pH > 12.5)
Disposal Method: Recycler
Contact: TARGET
Telephone: (800) 360-3220
Mailing Address: 4920 CARROLL CANYON RD
SAN DIEGO, CA 92121
County Los Angeles

TARGET #257A (Continued) **S103990346**

Gepaid: CAC001371968
TSD EPA ID: CAT080033681
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0050
Waste Category: Other inorganic solid waste
Disposal Method: Disposal, Other
Contact: TARGET
Telephone: (800) 360-3220
Mailing Address: 4920 CARROLL CANYON RD
SAN DIEGO, CA 92121
County Los Angeles

Gepaid: CAL000231736
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 0.06
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Recycler
Contact: DONNA SOUTHARD
Telephone: (760) 602-8626
Mailing Address: 1905 ASTON AVE STE 100
CARLSBAD, CA 92008
County Not reported

Click this hyperlink while viewing on your computer to access
1 additional CA HAZNET record(s) in the EDR Site Report.

CL618 **EXPRESS STOP PHOTO (TARGET #0257)** **HAZNET** **S103963729**
West **24425 W MAGIC MOUNTAIN PKWY** **N/A**
> 1 **VALENCIA, CA 91355**
9856 ft.

Site 3 of 5 in cluster CL

Relative: Lower

Actual: 1136 ft.

HAZNET:
Gepaid: CAL000179547
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .1442
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: QOS QUALEX INC
Telephone: (919) 484-3616
Mailing Address: 4020 STIRRUP CREEK DR STE 211
DURHAM, NC 27703 - 9000
County Los Angeles

Gepaid: CAL000179547
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: 0.0325
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: QOS QUALEX INC
Telephone: (919) 484-3616
Mailing Address: 4020 STIRRUP CREEK DR STE 211

EXPRESS STOP PHOTO (TARGET #0257) (Continued) **S103963729**

DURHAM, NC 27703 - 9000
County Los Angeles

Gepaid: CAL000179547
TSD EPA ID: CAD981402522
Gen County: Los Angeles
Tsd County: Kern
Tons: .1350
Waste Category: Photochemicals/photoprocessing waste
Disposal Method: Recycler
Contact: QOS QUALEX INC
Telephone: (919) 484-3616
Mailing Address: 4020 STIRRUP CREEK DR STE 211
DURHAM, NC 27703 - 9000
County Los Angeles

CL619
West
> 1
9856 ft.

Relative:
Lower

Actual:
1136 ft.

TARGET STORE #T0257 **LOS ANGELES CO. HMS** **S102531998**
24425 MAGIC MOUNTAIN PKWY **N/A**
SANTA CLARITA, CA

Site 4 of 5 in cluster CL

HMS:
Facility Id: 017636-024150
Area: 7A
Facility Type: I04
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

CL620
West
> 1
9856 ft.

Relative:
Lower

Actual:
1136 ft.

TARGET STORE #257 **HAZNET** **S103990356**
24425 W MAGIC MOUNTAIN PKWY **N/A**
VALENCIA, CA 91355

Site 5 of 5 in cluster CL

HAZNET:
Gepaid: CAC001484344
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0200
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Recycler
Contact: DAYTON-HUDSON
Telephone: (612) 304-5206
Mailing Address: 4920 CARROLL CANYON RD
SAN DIEGO, CA 92121
County Los Angeles

Gepaid: CAC001484344
TSD EPA ID: CAD088504881
Gen County: Los Angeles
Tsd County: Orange
Tons: .0100
Waste Category: Other inorganic solid waste
Disposal Method: Transfer Station
Contact: DAYTON-HUDSON
Telephone: (612) 304-5206

TARGET STORE #257 (Continued) **S103990356**

Mailing Address: 4920 CARROLL CANYON RD
SAN DIEGO, CA 92121
County Los Angeles

Gepaid: CAC001484344
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0300
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Contact: DAYTON-HUDSON
Telephone: (612) 304-5206
Mailing Address: 4920 CARROLL CANYON RD
SAN DIEGO, CA 92121
County Los Angeles

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621 SSW > 1 9858 ft. | **SIKIND PROPERTIES** | **HAZNET** | **S105084152**
22900 OAKRIDGE DRIVE | **N/A**
SANTA CLARITA, CA 91350

Relative: Lower
Actual: 1195 ft.

HAZNET:
Gepaid: CAC002192001
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3461
Waste Category: Oil/water separation sludge
Disposal Method: Transfer Station
Contact: SIKIND PROPERTIES
Telephone: (661) 255-9772
Mailing Address: 22900 OAKRIDGE DRIVE
SANTA CLARITA, CA 91350
County Los Angeles

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622 NNE > 1 9881 ft. | **RENE VELUZAT** | **HAZNET** | **S103984090**
28100 HASCOLL CNYN RD | **N/A**
SAUGUS, CA 91350

Relative: Higher
Actual: 1293 ft.

HAZNET:
Gepaid: CAC000878600
TSD EPA ID: CAT080011059
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 4.1700
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: RENE VELUZAT
Telephone: (000) 000-0000
Mailing Address: P O BOX 220597
NEWHALL, CA 91322
County Los Angeles

CM623 **BOUQUET MOBIL** **UST** **U003777409**
NE **27777 BOUQUET CANYON RD** **LOS ANGELES CO. HMS** **N/A**
> 1 **SANTA CLARITA, CA 91350**
9891 ft.

Site 1 of 7 in cluster CM

Relative: Higher

Actual: 1304 ft.

HMS:

Facility Id:	006352-021477		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

State UST:

Facility ID:	021477
Region:	STATE
Local Agency:	19000

CM624 **EXXON CO USA** **LOS ANGELES CO. HMS** **S104536201**
NE **27777 BOUQUET CANYON RD** **N/A**
> 1 **SANTA CLARITA, CA**
9891 ft.

Site 2 of 7 in cluster CM

Relative: Higher

Actual: 1304 ft.

HMS:

Facility Id:	006352-I06570		
Area:	7A		
Facility Type:	I05		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

CM625 **EXXON #7-3547** **LUST** **S101298090**
NE **27777 BOUQUET CANYON RD** **Cortese** **N/A**
> 1 **SAUGUS, CA 91350**
9891 ft.

Site 3 of 7 in cluster CM

Relative: Higher

Actual: 1304 ft.

State LUST:

Cross Street:	URBANDALE DR		
Qty Leaked:	0		
Case Number	I-06570		
Reg Board:	4		
Chemical:	Gasoline		
Lead Agency:	Regional Board		
Local Agency :	19000		
Case Type:	Other ground water affected		
Status:	Case Closed		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	7/23/96 0:00		
Release Date:	08/06/1987		
Cleanup Fund Id :	Not reported		
Discover Date :	/ /		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	3/10/88 0:00		

EXXON #7-3547 (Continued) **S101298090**

Funding: Not reported
Staff Initials: Not reported
How Discovered: Not reported
How Stopped: Not reported
Interim : Not reported
Leak Cause: Not reported
Leak Source: Not reported
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Priority: Not reported
Local Case # : 0
Beneficial: Not reported
Staff : UNK
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: SANTA CLARA RIVER VA
Operator : OLD CASE#913500052
Oversight Prgm: LUST
Review Date : 12/3/96 0:00
Stop Date : / /
Work Suspended :Not reported
Responsible PartyEXXON COMPANY, USA
RP Address: 1200 SMITH ST, SUITE 1050, HOUSTON, TX 77002 C
Global Id: T0603703233
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: Not reported
Mtbe Fuel: Not reported
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported

LUST Region 4:
Report Date: 08/06/1987
Lead Agency: Regional Board
Local Agency: 19000
Substance: Gasoline
Case Type: Groundwater
Status: Case Closed
Region: 4
Staff: UNK
Date Case Last Changed on Database: 12/3/96
Date Leak Record Entered: 3/10/88
Historical Max MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil : Not reported
County: Los Angeles
Organization : Not reported
Regional Board: 4
Owner Contact: Not reported
Responsible Party: EXXON COMPANY, USA
RP Address: 1200 SMITH ST, SUITE 1050, HOUSTON, TX 77002 C

EXXON #7-3547 (Continued) **S101298090**

Significant Interim Remedial Action Taken:	Not reported
Program :	LUST
Lat / Long :	34 / -119
Local Agency Staff:	Not reported
Summary :	OLD CASE#913500052 ; 09/30/96 - QUARTERLY REPORT; 12/03/96 - WELL ABANDONMENT REPORT
Hydrologic Basin # :	SANTA CLARA RIVER VA
Beneficial Use :	Not reported
Priority :	Not reported
Cleanup Fund Id :	Not reported
Suspended :	Not reported
Local Case No :	Not reported
Substance Quantity :	0
Abatement Method Used at the Site:	Not reported
Operator :	OLD CASE#913500052
Water System :	Not reported
Well Name :	Not reported
Approx. Dist To Production Well (ft) :	1229.421389
Assigned Name :	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	/ /
How the Leak was Discovered:	Not reported
How the Leak was Stopped:	Not reported
Cause of Leak:	Not reported
Leak Source:	Not reported
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	3/18/88
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	7/23/96
Enforcement Action Date:	Not reported
Date Leak First Reported:	08/06/1987
Enforcement Type:	Not reported
Global ID :	T0603703233
Cross Street:	URBANDALE DR

CORTESE:

Region:	CORTESE
Fac Address 2:	27777 BOUQUET CANYON RD

CM626 **BOUQUET MOBIL** **HAZNET** **S104583468**
NE **27777 BOUQUET CANYON ROAD** **N/A**
> 1 **SAUGUS, CA 91350**
9891 ft.

Site 4 of 7 in cluster CM

Relative:
Higher

Actual:
1304 ft.

HAZNET:

Gepaid:	CAL912424936
TSD EPA ID:	CAD099452708
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.8756
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Contact:	ESMAT ELHILY

BOUQUET MOBIL (Continued) **S104583468**

Telephone: (661) 296-8686
Mailing Address: 27777 BOUQUET CANYON RD
SAUGUS, CA 91350 - 1710
County Los Angeles

Gepaid: CAL912424936
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.2293
Waste Category: Unspecified aqueous solution
Disposal Method: Not reported
Contact: ESMAT ELHILY
Telephone: (661) 296-8686
Mailing Address: 27777 BOUQUET CANYON RD
SAUGUS, CA 91350 - 1710
County Los Angeles

Gepaid: CAL912424936
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.5629
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: ESMAT ELHILY
Telephone: (661) 296-8686
Mailing Address: 27777 BOUQUET CANYON RD
SAUGUS, CA 91350 - 1710
County Los Angeles

Gepaid: CAL912424936
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.1542
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: ESMAT ELHILY
Telephone: (661) 296-8686
Mailing Address: 27777 BOUQUET CANYON RD
SAUGUS, CA 91350 - 1710
County Los Angeles

Gepaid: CAL912424936
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4378
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Contact: ESMAT ELHILY
Telephone: (661) 296-8686
Mailing Address: 27777 BOUQUET CANYON RD
SAUGUS, CA 91350 - 1710
County Los Angeles

Click this hyperlink while viewing on your computer to access
1 additional CA HAZNET record(s) in the EDR Site Report.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
CM627 NE > 1 9891 ft.	**EXXON CO USA #73547** **27777 BOUQUET CANYON ROAD** **SAUGUS, CA 91350**	**HAZNET**	**S103648965** **N/A**

Site 5 of 7 in cluster CM

Relative: Higher

Actual: 1304 ft.

HAZNET:

Gepaid:	CAL000002781
TSD EPA ID:	CAD982484933
Gen County:	Los Angeles
Tsd County:	7
Tons:	9.0000
Waste Category:	Other empty containers 30 gallons or more
Disposal Method:	Not reported
Contact:	EXXON CO USA
Telephone:	(713) 656-7761
Mailing Address:	PO BOX 2180 HOUSTON, TX 77252 - 2180
County	Los Angeles

Gepaid:	CAL000002781
TSD EPA ID:	CAD982484933
Gen County:	Los Angeles
Tsd County:	7
Tons:	3.5000
Waste Category:	Other empty containers 30 gallons or more
Disposal Method:	Recycler
Contact:	EXXON CO USA
Telephone:	(713) 656-7761
Mailing Address:	PO BOX 2180 HOUSTON, TX 77252 - 2180
County	Los Angeles

Gepaid:	CAL000002781
TSD EPA ID:	CAT080013352
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	4.5870
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	EXXON CO USA
Telephone:	(713) 656-7761
Mailing Address:	PO BOX 2180 HOUSTON, TX 77252 - 2180
County	Los Angeles

CM628 NE > 1 9891 ft.	**EXXON USA #7-3547** **27777 BOUQUET CANYON RD** **SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S102064524** **N/A**

Site 6 of 7 in cluster CM

Relative: Higher

Actual: 1304 ft.

HMS:

Facility Id:	006352-006570		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Permit		
Region:	Los Angeles County:		

CM629 NE > 1 9891 ft. — **EXXON SERVICE STATION**, **27777 BOUQUET CANYON RD**, **SAUGUS, CA 91350** — **HIST UST** — **U001567696**, **N/A**

Site 7 of 7 in cluster CM

Relative: Higher

Actual: 1304 ft.

UST HIST:

Facility ID:	29501	Owner Name:	EXXON COMPANY U.S.A.
Total Tanks:	4	Region:	STATE
Owner Address:	16945 NORTHCHASE BLVD. HOUSTON, TX 77210		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	#1
Tank Capacity:	00006000	Year Installed:	1968
Type of Fuel:	PREMIUM	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	ROY GUMP	Telephone:	(405) 252-8686
Facility Type:	Gas Station	Other Type:	Not reported

Facility ID:	29501	Owner Name:	EXXON COMPANY U.S.A.
Total Tanks:	4	Region:	STATE
Owner Address:	16945 NORTHCHASE BLVD. HOUSTON, TX 77210		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	#2
Tank Capacity:	00008000	Year Installed:	1968
Type of Fuel:	REGULAR	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	ROY GUMP	Telephone:	(405) 252-8686
Facility Type:	Gas Station	Other Type:	Not reported

Facility ID:	29501	Owner Name:	EXXON COMPANY U.S.A.
Total Tanks:	4	Region:	STATE
Owner Address:	16945 NORTHCHASE BLVD. HOUSTON, TX 77210		
Tank Used for:	PRODUCT		
Tank Num:	3	Container Num:	#3
Tank Capacity:	00010000	Year Installed:	1968
Type of Fuel:	UNLEADED	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	ROY GUMP	Telephone:	(405) 252-8686
Facility Type:	Gas Station	Other Type:	Not reported

Facility ID:	29501	Owner Name:	EXXON COMPANY U.S.A.
Total Tanks:	4	Region:	STATE
Owner Address:	16945 NORTHCHASE BLVD. HOUSTON, TX 77210		
Tank Used for:	WASTE		
Tank Num:	4	Container Num:	#4
Tank Capacity:	00001000	Year Installed:	1968
Type of Fuel:	WASTE OIL	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	ROY GUMP	Telephone:	(405) 252-8686
Facility Type:	Gas Station	Other Type:	Not reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
630 NNW > 1 9897 ft.	**DRD CONSTRUCTION 27441 ELDER VIEW DR SANTA CLARITA, CA 91354**	**HAZNET**	**S103648700 N/A**

Relative: Higher

Actual: 1349 ft.

HAZNET:

Gepaid:	CAC001159952
TSD EPA ID:	CAD982444481
Gen County:	Los Angeles
Tsd County:	San Bernardino
Tons:	.4587
Waste Category:	Household waste
Disposal Method:	Transfer Station
Contact:	MIKE TEEMAN
Telephone:	(818) 884-6333
Mailing Address:	22704 VENTURA BLVD STE 459 WOODLAND HILLS, CA 91367
County	Los Angeles

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631 NNE > 1 9922 ft.	**ADVANCED MOBILE TRUCK ALIGN 21621 NUTMEG LN SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103945078 N/A**

Relative: Higher

Actual: 1292 ft.

HMS:

Facility Id:	020047-028578		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

CJ632 WSW > 1 9986 ft.	**CITY OF SANTA CLARITA REFERRAL 23920 VALENCIA BLVD 300 SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S104735032 N/A**

Site 2 of 4 in cluster CJ

Relative: Lower

Actual: 1148 ft.

HMS:

Facility Id:	017058-022886		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

CJ633 WSW > 1 9986 ft.	**SANTA CLARITA CITY HALL 23920 W VALENCIA BLVD SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S102064237 N/A**

Site 3 of 4 in cluster CJ

Relative: Lower

Actual: 1148 ft.

HMS:

Facility Id:	016398-021662		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
CJ634 WSW > 1 9986 ft. Relative: Lower Actual: 1148 ft.	**SANTA CLARITA CITY HALL 23920 VALENCIA BLVD VALENCIA, CA 91355**	**UST**	**U003777424 N/A**

Site 4 of 4 in cluster CJ

State UST:

Facility ID:	021662
Region:	STATE
Local Agency:	19000

CN635 WSW > 1 10022 ft. Relative: Lower Actual: 1137 ft.	**MARU SUSHI RESTAURANT 24250 TOWNE CENTRE DR SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S103817808 N/A**

Site 1 of 4 in cluster CN

HMS:

Facility Id:	018761-026828		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

CO636 East > 1 10051 ft. Relative: Higher Actual: 1308 ft.	**HOME DEPOT USA 20642 GOLDEN TRIANGLE RD SANTA CLARITA, CA**	**LOS ANGELES CO. HMS**	**S102819251 N/A**

Site 1 of 2 in cluster CO

HMS:

Facility Id:	019966-028485		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

CO637 East > 1 10051 ft. Relative: Higher Actual: 1308 ft.	**THE HOME DEPOT #653 20642 GOLDEN TRIANGLE SANTA CLARITA, CA 91350**	**HAZNET**	**S104578201 N/A**

Site 2 of 2 in cluster CO

HAZNET:

Gepaid:	CAL000112659
TSD EPA ID:	CAT080010101
Gen County:	Los Angeles
Tsd County:	San Diego
Tons:	.3500
Waste Category:	Latex waste
Disposal Method:	Transfer Station
Contact:	THE HOME DEPOT
Telephone:	(619) 677-0150
Mailing Address:	4920 CARROLL CANYON RD SAN DIEGO, CA 92121
County	Los Angeles

THE HOME DEPOT #653 (Continued) **S104578201**

Gepaid: CAL000112659
TSD EPA ID: CAT080010101
Gen County: Los Angeles
Tsd County: San Diego
Tons: .3250
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Transfer Station
Contact: THE HOME DEPOT
Telephone: (619) 677-0150
Mailing Address: 4920 CARROLL CANYON RD
SAN DIEGO, CA 92121
County Los Angeles

Gepaid: CAL000112659
TSD EPA ID: CAT080010101
Gen County: Los Angeles
Tsd County: San Diego
Tons: .2375
Waste Category: Pesticides and other waste associated with pesticide production
Disposal Method: Transfer Station
Contact: THE HOME DEPOT
Telephone: (619) 677-0150
Mailing Address: 4920 CARROLL CANYON RD
SAN DIEGO, CA 92121
County Los Angeles

Gepaid: CAL000112659
TSD EPA ID: CAT080010101
Gen County: Los Angeles
Tsd County: San Diego
Tons: .0375
Waste Category: Off-specification, aged, or surplus inorganics
Disposal Method: Treatment, Tank
Contact: THE HOME DEPOT
Telephone: (619) 677-0150
Mailing Address: 4920 CARROLL CANYON RD
SAN DIEGO, CA 92121
County Los Angeles

Gepaid: CAL000112659
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Sacramento
Tons: 0.15
Waste Category: Off-specification, aged, or surplus inorganics
Disposal Method: Disposal, Land Fill
Contact: 3 E COMPANY
Telephone: (760) 602-8700
Mailing Address: 1905 ASTON AVE
CARLSBAD, CA 92008
County Not reported

Click this hyperlink while viewing on your computer to access
2 additional CA HAZNET record(s) in the EDR Site Report.

CN638
WSW
> 1
10105 ft.

Relative:
Lower

Actual:
1138 ft.

THE PICTURE PEOPLE INC
24201 VALENCIA BLVD UNIT 1302
VALENCIA, CA 91355

HAZNET **S104575017**
N/A

Site 2 of 4 in cluster CN

HAZNET:

Gepaid:	CAD983662347
TSD EPA ID:	CAD003963592
Gen County:	Los Angeles
Tsd County:	Santa Clara
Tons:	.0450
Waste Category:	Metal sludge - Alkaline solution (pH <UN-> 12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)
Disposal Method:	Recycler
Contact:	PETER HARRIS CEO
Telephone:	(650) 578-9291
Mailing Address:	1157 TRITON DRIVE SUITE B FOSTER CITY, CA 94404 - 1213
County	Los Angeles

Gepaid:	CAD983662347
TSD EPA ID:	NMD097970065
Gen County:	Los Angeles
Tsd County:	0
Tons:	.0417
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	PETER HARRIS CEO
Telephone:	(650) 578-9291
Mailing Address:	1157 TRITON DRIVE SUITE B FOSTER CITY, CA 94404 - 1213
County	Los Angeles

CN639
WSW
> 1
10105 ft.

Relative:
Lower

Actual:
1138 ft.

VALENCIA TOWN CENTER
24201 W VALENCIA BLVD 101
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S102064273**
N/A

Site 3 of 4 in cluster CN

HMS:

Facility Id:	016108-021024		
Area:	7A		
Facility Type:	I02		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

Facility Id:	016109-021023		
Area:	7A		
Facility Type:	I02		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
CN640 **WSW** **> 1** **10105 ft.**	**VALENCIA TOWN CENTER** **24201 W VALENCIA** **VALENCIA, CA 91355**	**HAZNET**	**S104579972** **N/A**

Site 4 of 4 in cluster CN

Relative: Lower

Actual: 1138 ft.

HAZNET:

Gepaid:	CAL000162343
TSD EPA ID:	CAD981402522
Gen County:	Los Angeles
Tsd County:	Kern
Tons:	.0208
Waste Category:	Photochemicals/photoprocessing waste
Disposal Method:	Recycler
Contact:	PHOTOMAKERS INC
Telephone:	(714) 994-2284
Mailing Address:	6481 ORANGETHORPE AVE #20 BUENA PARK, CA 90620
County	Los Angeles

Gepaid:	CAC002245841
TSD EPA ID:	CAD050806850
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.5000
Waste Category:	Latex waste
Disposal Method:	Transfer Station
Contact:	VALENCIA TOWN CENTER CORP
Telephone:	(661) 254-3801
Mailing Address:	24201 W VALENCIA STE 150 VALENCIA, CA 91355
County	Los Angeles

CP641 **WNW** **> 1** **10127 ft.**	**MOBILE OIL CORP** **27706 MCBEAN PKWY** **SANTA CLARITA, CA 91355**	**HAZNET**	**S104567369** **N/A**

Site 1 of 3 in cluster CP

Relative: Lower

Actual: 1127 ft.

HAZNET:

Gepaid:	CAL000202930
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.01
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Treatment, Tank
Contact:	MELISSA SHURTLEFF/HAZ WASTE MG
Telephone:	(512) 451-6334
Mailing Address:	11044 RESEARCH BLVD SUITE B200 AUTSIN, TX 78759 - 2667
County	Not reported

MOBILE OIL CORP (Continued) **S104567369**

Gepaid: CAL000202930
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Not reported
Tons: 0.01
Waste Category: Other organic solids
Disposal Method: Transfer Station
Contact: MELISSA SHURTLEFF/HAZ WASTE MG
Telephone: (512) 451-6334
Mailing Address: 11044 RESEARCH BLVD SUITE B200
AUTSIN, TX 78759 - 2667
County Not reported

Gepaid: CAL000202930
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.32
Waste Category: Unspecified oil-containing waste
Disposal Method: Treatment, Tank
Contact: MELISSA SHURTLEFF/HAZ WASTE MG
Telephone: (512) 451-6334
Mailing Address: 11044 RESEARCH BLVD SUITE B200
AUTSIN, TX 78759 - 2667
County Not reported

Gepaid: CAC001427432
TSD EPA ID: CAD028409019
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.0792
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Treatment, Tank
Contact: MOBILE OIL CORP
Telephone: (310) 212-4107
Mailing Address: 3700 W 190TH ST
TORRANCE, CA 90504
County Los Angeles

Gepaid: CAL000202930
TSD EPA ID: CAD028409019
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0041
Waste Category: Unspecified oil-containing waste
Disposal Method: Not reported
Contact: MOBILE OIL CORP
Telephone: (310) 212-4668
Mailing Address: PO BOX 142667
AUTSIN, TX 78714 - 2667
County Los Angeles

Click this hyperlink while viewing on your computer to access
2 additional CA HAZNET record(s) in the EDR Site Report.

CP642
WNW
> 1
10127 ft.

Relative:
Lower

Actual:
1127 ft.

27706 MCBEAN PARKWAY
SANTA CLARITA, CA

Site 2 of 3 in cluster CP

CHMIRS **S105885268**
N/A

CHMIRS:

OES Control Number:	02-3503
Chemical Name:	Gasoline
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	02-3503
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	0
Responding Agency Personel # Of Fatalities :	0
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	No
Waterway :	Not reported
Spill Site :	Merchant/Business
Cleanup By :	Mobil Oil Corp.
Containment :	Yes
What Happened :	A customer's car had a hole in the gas tank.
Type :	Gal(s)
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	6/26/2002 11550
Evacuations :	0

CP643
WNW
> 1
10169 ft.

Relative:
Lower

Actual:
1125 ft.

MCBEAN RD / NEWHALL RANCH RD
SANTA CLARITA, CA

CHMIRS **S105634349**
N/A

Site 3 of 3 in cluster CP

CHMIRS:

OES Control Number:	3718
Chemical Name:	hydrochloric acid
Extent of Release:	Not reported
Property Use:	Not reported
Incident Date:	Not reported
Date Completed:	Not reported
Time Completed :	Not reported
Agency Id Number :	Not reported
Agency Incident Number :	Not reported
OES Incident Number :	3718
Time Notified :	Not reported
Surrounding Area :	Not reported
Estimated Temperature :	Not reported
Property Management :	Not reported
More Than Two Substances Involved? :	Not reported
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Not reported
Special Studies 5 :	Not reported
Special Studies 6 :	Not reported
Responding Agency Personel # Of Injuries :	NO
Responding Agency Personel # Of Fatalities :	NO
Resp Agncy Personel # Of Decontaminated :	Not reported
Others Number Of Decontaminated :	Not reported
Others Number Of Injuries :	Not reported
Others Number Of Fatalities :	Not reported
Vehicle Make/year :	Not reported
Vehicle License Number :	Not reported
Vehicle State :	Not reported
Vehicle Id Number :	Not reported
CA/DOT/PUC/ICC Number :	Not reported
Company Name :	Not reported
Reporting Officer Name/ID :	Not reported
Report Date :	Not reported
Comments :	Not reported
Facility Telephone Number :	Not reported
Waterway Involved :	YES
Waterway :	Not reported
Spill Site :	RD
Cleanup By :	fire dept & city public works
Containment :	NO
What Happened :	plastic bottle fell off a truck onto road.
Type :	CHEMICAL
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	8/19/94 0840
Evacuations :	NO

CQ644
West
> 1
10214 ft.

MAGIC TRUCK SALES
24221 W CREEKSIDE RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S104536576**
N/A

Site 1 of 7 in cluster CQ

Relative:
Lower

Actual:
1132 ft.

HMS:

Facility Id:	008768-I16189		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

645
East
> 1
10230 ft.

PARK LANE MOBLE ESTATES
20401 W SOLEDAD CANYON RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S105696665**
N/A

Relative:
Higher

Actual:
1310 ft.

HMS:

Facility Id:	016917-022684		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

CQ646
West
> 1
10277 ft.

VALENCIA CAR WASH CENTER
24233 W CREEKSIDE RD #A
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945196**
N/A

Site 2 of 7 in cluster CQ

Relative:
Lower

Actual:
1131 ft.

HMS:

Facility Id:	019928-028432		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

CQ647
West
> 1
10277 ft.

VALENCIA AUTO CARE CENTER
24233 W CREEKSIDE RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103489730**
N/A

Site 3 of 7 in cluster CQ

Relative:
Lower

Actual:
1131 ft.

HMS:

Facility Id:	008482-026516		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
CQ648	**VALENCIA CAR WASH**	**RCRIS-SQG**	**1000596904**
West	**24233 CREEKSIDE RD**	**FINDS**	**CAD983608936**
> 1	**VALENCIA, CA 91355**	**HAZNET**	
10277 ft.		**UST**	

Site 4 of 7 in cluster CQ

Relative:
Lower

Actual:
1131 ft.

RCRIS:

Owner: DAVID A WINTER
(805) 255-3448
EPA ID: CAD983608936

Contact: DAVID WINTER
(805) 255-3448

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid: CAD983608936
TSD EPA ID: CAL000113451
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 3.0439
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Contact: VALENCIA CAR WASH
Telephone: (805) 255-3448
Mailing Address: 24233 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAD983608936
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .0917
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: VALENCIA CAR WASH
Telephone: (805) 255-3448
Mailing Address: 24233 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAD983608936
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 5.5669
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: VALENCIA CAR WASH
Telephone: (805) 255-3448
Mailing Address: 24233 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

VALENCIA CAR WASH (Continued) **1000596904**

Gepaid: CAD983608936
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .7506
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Not reported
Contact: VALENCIA CAR WASH
Telephone: (805) 255-3448
Mailing Address: 24233 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAD983608936
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.3769
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: VALENCIA CAR WASH
Telephone: (805) 255-3448
Mailing Address: 24233 CREEKSIDE RD
VALENCIA, CA 91355
County Los Angeles

Click this hyperlink while viewing on your computer to access
11 additional CA HAZNET record(s) in the EDR Site Report.

State UST:
Facility ID: 013710
Region: STATE
Local Agency: 19000

CQ649
West
> 1
10277 ft.

Relative:
Lower

Actual:
1131 ft.

BIG JOHNS PERFORMANCE
24233 CREEKSIDE RD
VALENCIA, CA 91355

RCRIS-SQG **1000595453**
FINDS **CAD983593906**
HAZNET

Site 5 of 7 in cluster CQ

RCRIS:
Owner: JOHN AND KAREN VAN DEVENTER
(805) 251-5504
EPA ID: CAD983593906

Contact: KAREN VAN DEVENTER
(805) 254-1611

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

BIG JOHNS PERFORMANCE (Continued) **1000595453**

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:

Gepaid:	CAD983593906
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.4294
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	JOHN & KAREN VAN DEVENTER
Telephone:	(805) 254-1611
Mailing Address:	24233 CREEKSIDE RD UNIT 107 VALENCIA, CA 91355
County	Los Angeles

Gepaid:	CAD983593906
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.06
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	JOHN VAN DEVENTER
Telephone:	(805) 254-1611
Mailing Address:	24233 CREEKSIDE RD UNIT 107 VALENCIA, CA 91355
County	Not reported

Gepaid:	CAD983593906
TSD EPA ID:	CAT000613893
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.4085
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	JOHN & KAREN VAN DEVENTER
Telephone:	(805) 254-1611
Mailing Address:	24233 CREEKSIDE RD UNIT 107 VALENCIA, CA 91355
County	Los Angeles

CQ650
West
> 1
10277 ft.

Relative:
Lower

Actual:
1131 ft.

SMOG 2 SMOG **LOS ANGELES CO. HMS** **S104733370**
24233 W CREEKSIDE RD #B **N/A**
SANTA CLARITA, CA

Site 6 of 7 in cluster CQ

HMS:

Facility Id:	019929-028437		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

CQ651
West
> 1
10277 ft.

VALENCIA CARWASH CENTER
24233 W CREEKSIDE RD
SANTA CLARITA, CA

LOS ANGELES CO. HMS **U003064126**
N/A

Site 7 of 7 in cluster CQ

Relative:
Lower

Actual:
1131 ft.

HMS:

Facility Id:	008482-I13710		
Area:	7A		
Facility Type:	I01		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Closed		
Region:	Los Angeles County:		

Facility Id:	008482-013710		
Area:	7A		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

Facility Id:	008482-023804		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

Facility Id:	008482-025017		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

Facility Id:	008482-024223		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

652
SW
> 1
10385 ft.

AAA MACHINE TOOL REBUILDING
25749 SARAPE CT
SANTA CLARITA, CA

LOS ANGELES CO. HMS **S103945378**
N/A

Relative:
Lower

Actual:
1197 ft.

HMS:

Facility Id:	020264-028845		
Area:	7A		
Facility Type:	Not reported		
Permit Number:	174	Permit Status:	Not reported
Facility Status:	OPEN		
Region:	Los Angeles County:		

Map ID Direction Distance Distance (ft.) Elevation	Site	Database(s)	EDR ID Number EPA ID Number
CR653 **NNE** **> 1** **10400 ft.** **Relative:** **Higher** **Actual:** **1303 ft.**	**ROSEDELL ELEMENTARY SCHOOL** **27853 URBANDALE** **SAUGUS, CA 91350** **Site 1 of 2 in cluster CR**	**HAZNET**	**S102815975** **N/A**

HAZNET:

Gepaid:	CAL000082499
TSD EPA ID:	CAD067786749
Gen County:	3
Tsd County:	Los Angeles
Tons:	145.8044
Waste Category:	Asbestos-containing waste
Disposal Method:	Disposal, Land Fill
Contact:	SAUGUS UNION SCHOOL DISTRICT
Telephone:	(000) 000-0000
Mailing Address:	24930 AVENUE STANFORD VALENCIA, CA 91350
County	3

Gepaid:	CAL000082499
TSD EPA ID:	CAD067786749
Gen County:	3
Tsd County:	Los Angeles
Tons:	8.4280
Waste Category:	Asbestos-containing waste
Disposal Method:	Not reported
Contact:	SAUGUS UNION SCHOOL DISTRICT
Telephone:	(000) 000-0000
Mailing Address:	24930 AVENUE STANFORD VALENCIA, CA 91350
County	3

CR654 **NNE** **> 1** **10400 ft.** **Relative:** **Higher** **Actual:** **1303 ft.**	**ROSEDELL SCHOOL** **27853 URBANDALE** **SAUGUS, CA 91350** **Site 2 of 2 in cluster CR**	**HAZNET**	**S103649001** **N/A**

HAZNET:

Gepaid:	CAC001216320
TSD EPA ID:	CAD009007626
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	.3371
Waste Category:	Asbestos-containing waste
Disposal Method:	Disposal, Land Fill
Contact:	ROSEDELL SCHOOL
Telephone:	(805) 294-7500
Mailing Address:	25930 AVE STANFORD SANTA CLARITA, CA 91355
County	Los Angeles

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ACTON	S103674992	LOS ANGELES COUNTY FIRE DEPT	8800 W SOLEDAD CYN RDC-11	91350	HAZNET
CANYON	S102797745	SAUGUS UNION SCHOOL DISTRICT	CEDARCREEK SCHOOL	91351	HAZNET
CANYON COUNTRY	S103643530	ALL VALLEY CARBURETOR	226831RUETHER AVENUE	91351	HAZNET
CANYON COUNTRY	S105723704	GAP ASSOCIATES	26516 GOLDEN VALLEY RD UNIT 31	91351	HAZNET
CANYON COUNTRY	S105085203	SHARON KENNEALLY	27367 SAN CANYON RD	91351	HAZNET
CANYON COUNTRY	U001567739	ASSOC. WATER WELL SUPPLY INC.	1700 SIERRA HWY.	91351	HIST UST
CANYON COUNTRY	S103637390	LOS ANGELES COUNTY FIRE DEPT	18239 W SOLEDAD CYN RD - STATI	91351	HAZNET
CANYON COUNTRY	S105265668	ACE CLEANERS	18835 SOLEDAD	91351	CLEANERS
CANYON COUNTRY	U003940681	MOBIL OIL CORP S/S #18-KCM	18501 SOLEDAD CANYON RD	91351	UST
CANYON COUNTRY	U003940888	NORTH OAKS SHELL	19223 SOLEDAD CANYON RD # A	91351	UST
CANYON COUNTRY	U003942880	USA MINI MART #823	19301 SOLEDAD CANYON RD	91351	UST
CANYON COUNTRY	U003941969	TEXACO/EQUILON #61-106-2065	18802 VIA PRINCESSA	91351	UST
CANYON COUNTY	92274941	EAST SIDE OF ANTELOPE FWY 14 1 MI	EAST SIDE OF ANTELOPE FWY 14 1	91350	ERNS
NEWHALL	92293511	PEACH VALLEY RD AT QUAIL LAKE	PEACH VALLEY RD AT QUAIL LAKE	91350	ERNS
NEWHALL	S105628534	OAK HILLS ELEMENTARY SCHOOL	VALENCIA BOULEVARD/U STREET	91355	SCH
SANT CLARITA	U003941016	PACIFIC BELL CNCYCAPB/KC652	26971 FURNIVALL AVE	91351	UST
SANTA CLARITA	A100184445	NEWHALL LAND & FARMING WELL B8	HWY 126 AND TODD		AST
SANTA CLARITA	A100184446	NEWHALL LAND FARMING WELL 156	156 HWY 126 AND TODD		AST
SANTA CLARITA	1005441285	DEPARTMENT OF TRANSPORTATION	RTE 5 MAGIC MOUNTAIN PKWY EXIT	91355	RCRIS-SQG, FINDS
SANTA CLARITA	S104310394	NATURAL RIVER MANAGEMENT PLAN	ALONG SANTA CLARA RIVER		CA WDS
SANTA CLARITA	92256217	I-5 AT HUNDRY VALLEY RD	I-5 AT HUNDRY VALLEY RD		ERNS
SANTA CLARITA	S103945447	TERRY YORK'S VALENCIA HONDA	26643 AUTO CENTER DR A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945602	S.C. VALLEY RUBBER STAMP MFG.	28220 AVE CROCKER 407		LOS ANGELES CO. HMS
SANTA CLARITA	S103995295	WELLS FARGO BANK	26007 26011 BOUQUET CANYON	91350	HAZNET
SANTA CLARITA	U003942593	UNITED OIL #69	26015 BOUQUET CANYON RD	91350	UST
SANTA CLARITA	U003060611	LUSTGARTEN OIL CO	0 BOUQUET CYN		LOS ANGELES CO. HMS
SANTA CLARITA	S105053523	ALERT MOBILE REPAIR	26011 BOUQUET CANYON RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S102532002	WOK EXPRESS	26570 N BOUQUET CANYON RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S105512328	RIO VISTA WTP PUMPING STA	25401 N BOUQUET CANYON RD		LOS ANGELES CO. HMS
SANTA CLARITA	S105421919	BOUQUET CYN OILFIELD	0 BOUQUET CYN OF		LOS ANGELES CO. HMS
SANTA CLARITA	S103945406	GOOD GUYS AUTO REPAIR	26015 BOUQUET CANYON RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945413	AQUA-FLO SUPPLY	26081 BOUQUET CANYON RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945414	SAUGUS SUZUKI	26081 BOUQUET CANYON RD B		LOS ANGELES CO. HMS
SANTA CLARITA	S104827210	UNITED OIL CO	26015 N BOUQUET CANYON RD B		LOS ANGELES CO. HMS
SANTA CLARITA	1007223877	BLUE CROSS LABORATORIES INCORPORAT	20950 CENTRE POINTE PARKWAY	91350	FINDS
SANTA CLARITA	S102685269	MOON WOK	23460 CINEMA DR H		LOS ANGELES CO. HMS
SANTA CLARITA	S105193567	PETIE PIES RESTAURANT	23340 W CINEMA DR E / F		LOS ANGELES CO. HMS
SANTA CLARITA	S104536467	MARIA'S ITALIAN KITCHEN	23460 W CINEMA DR J		LOS ANGELES CO. HMS
SANTA CLARITA	S103281831	SAN FRANCISQUITO POWER PLANT#1	3700 CLEAR CREEK CANYON RD	91350	LUST
SANTA CLARITA	S103945148	AUTO BODY SPECIALISTS	23108 DRAYTON ST A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945149	DOMINIK'S BODY SHOP	23108 DRAYTON ST B		LOS ANGELES CO. HMS
SANTA CLARITA	S103340253	BILL SMALL'S MUD SUMP	AT END OF AVENUE OF THE OAKS		SWF/LF
SANTA CLARITA	94363634	100 FEET EAST OF CHRISTMAS TREE FA	100 FEET EAST OF CHRISTMAS TRE		ERNS

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SANTA CLARITA	94365745	1.5 MI FM INTERSECTION OF SPRING C	1.5 MI FM INTERSECTION OF SPRI		ERNS
SANTA CLARITA	S103945508	BONELLI & SONS PRCSN	27134 FURNIVALL AVE A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945509	LON'S DIESEL REPAIR	27134 FURNIVALL AVE B		LOS ANGELES CO. HMS
SANTA CLARITA	S104791966	GOLDEN VALLEY RD. SANTA CLARITA	GOLDEN VALLEY		CA SLIC
SANTA CLARITA	S103317771	GOLDEN VALLEY INDUSTRIAL	26521 GOLDEN VALLEY RD B		LOS ANGELES CO. HMS
SANTA CLARITA	90164402	26524 GOLDEN VALLEY RD SUITE 503	26524 GOLDEN VALLEY RD SUITE 5		ERNS
SANTA CLARITA	90171189	26516 GOLDEN VALLEY RD STE 301	26516 GOLDEN VALLEY RD STE 301	91350	ERNS
SANTA CLARITA	S103977194	MERLE NORMAN COSMETICS SAUGUS	25407 N GOLDEN VALLEY RD	91350	HAZNET
SANTA CLARITA	S104569851	EXECUTIVE AUTOMOTIVE	26536 GOLDEN VALLEY RD STE 613	91350	HAZNET
SANTA CLARITA	S105087850	THE CROISDALE GROUP	2144 GOLDEN TRIANGLE RD	91350	HAZNET
SANTA CLARITA	S104913198	CITY OF SANTA CLARITA	C6407 GOLDEN VALLEY RD		LOS ANGELES CO. HMS
SANTA CLARITA	S102685273	PRO EX	26516 GOLDEN VALLEY RD 112		LOS ANGELES CO. HMS
SANTA CLARITA	S102685274	KARS BODY & PAINT	26516 GOLDEN VALLEY RD 116		LOS ANGELES CO. HMS
SANTA CLARITA	S102685275	STARR AUTO DETAIL	26516 GOLDEN VALLEY RD 205		LOS ANGELES CO. HMS
SANTA CLARITA	S105193684	MERLE NORMAN COSMETICS	C6407 GOLDEN VALLEY RD		LOS ANGELES CO. HMS
SANTA CLARITA	U003064866	CALIF COLLECTABLE COACHCRAFT	26521 GOLDEN VALLEY RD B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945083	AUTO DISCOUNT CENTER	21704 GOLDEN TRIANGLE RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945084	THE AUTOLINE	21704 GOLDEN TRIANGLE RD B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945427	R & R ENGINEERING COMPANY	26477 GOLDEN VALLEY RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945428	GALAXY DIE & ENGINEERING INC.	26477 GOLDEN VALLEY RD B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945431	ALL AROUND SHELL METAL	26502 GOLDEN VALLEY RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945432	HMV MOLDES & TOOLS	26502 GOLDEN VALLEY RD B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945433	PACIFIC AUTOMOTIVE	26502 GOLDEN VALLEY RD C		LOS ANGELES CO. HMS
SANTA CLARITA	S103945434	C & N AUTOMOTIVE	26516 GOLDEN VALLEY RD B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945435	A SUPERIOR WOODWORKS	26516 GOLDEN VALLEY RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945439	ACCURATE TRAILER HITCH & WELD	26536 GOLDEN VALLEY RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945441	C & F SHEET METAL	26536 GOLDEN VALLEY RD C		LOS ANGELES CO. HMS
SANTA CLARITA	S102592980	ARB ENTERPRISES	26516 GOLDEN VALLEY RD 310		LOS ANGELES CO. HMS
SANTA CLARITA	U003060717	GOLDEN TRIANGLE INDL PARK	HONBY STATION		LOS ANGELES CO. HMS
SANTA CLARITA	S106103477	5/126 INTER@SANTA CLAR BRIDGE	5/126 INTER@SANTA CLAR BRIDGE		CA WDS
SANTA CLARITA	U003940328	LA CO SHERIFF SANTA CLARITA	23740 MAGIC MOUNTAIN PKWY	91355	UST
SANTA CLARITA	S105422044	FLAIR CLEANERS INC	27011 N MCBEAN PKWY 111		LOS ANGELES CO. HMS
SANTA CLARITA	S106085278	CSI CRIME SCENE INVESTIGATION	3 MILES N OF TEMPLIN HWY ON	91355	HAZNET
SANTA CLARITA	S106089784	A/REALIABLE PAINTING	15727 MILL MEADOW RD	91351	HAZNET
SANTA CLARITA	S106094038	HOME DEPOT STORE#1055	28033 NEWHALL RANCH RD	91355	HAZNET
SANTA CLARITA	U003057315	NEWHALL OIL FIELD	NEWHALL OLFD		LOS ANGELES CO. HMS
SANTA CLARITA	U003057317	KERNVIEW OIL CO	NEWHALL OLFD		LOS ANGELES CO. HMS
SANTA CLARITA	S103317738	WILLIAM S HART REGIONAL PARK	24151 NEWHALL AVE		LOS ANGELES CO. HMS
SANTA CLARITA	S105422050	HOME DEPOT, INC	28033 W NEWHALL RANCHO RD		LOS ANGELES CO. HMS
SANTA CLARITA	U003057316	GATE KING PROPERTIES INC	NEWHALL OLFD		LOS ANGELES CO. HMS
SANTA CLARITA	S102055323	ATLANTIC OIL CO	NEWHALL OLFD		LOS ANGELES CO. HMS
SANTA CLARITA	93326231	NORTHBOUND ON ANTELOPE VALLEY FREE	NORTHBOUND ON ANTELOPE VALLEY		ERNS
SANTA CLARITA	S103945454	STRAIGHT LINE PERFORMANCE	26740 OAK AVE C		LOS ANGELES CO. HMS
SANTA CLARITA	S103945481	EXCLUSIVELY BRITISH & IMPORTS	26845 OAK AVE B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945482	SKIN TIGHT	26845 OAK AVE C		LOS ANGELES CO. HMS
SANTA CLARITA	S103945449	PREMIER AUTOBODY FRAME	26724 OAK AVE A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945450	BODEN'S CYLINDER HEADS	26724 OAK AVE B		LOS ANGELES CO. HMS

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SANTA CLARITA	S103945451	CANYON AUTO ELECTRIC	26724 OAK AVE B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945452	ARNECKES AUTOMOTIVE MACH. SHOP	26740 OAK AVE A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945453	FINE CABINETS	26740 OAK AVE B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945463	CYCLE ENGINEERING	26810 OAK AVE A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945464	AMT SYSTEMS INC	26810 OAK AVE B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945466	ACTION WOODWORKS	26818 OAK AVE A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945480	C B C	26845 OAK AVE A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945483	TLC WOODWORKS	26846 OAK AVE A		LOS ANGELES CO. HMS
SANTA CLARITA	U003064942	TLC WOODWORK	26846 OAK AVE B		LOS ANGELES CO. HMS
SANTA CLARITA	S104537773	THE BLOWERS SHOP	26846 OAK AVE C		LOS ANGELES CO. HMS
SANTA CLARITA	S102800643	COUNTY OF L.A.	146811 RIDGE RD.	91350	HAZNET
SANTA CLARITA	S103945470	ALL VALLEY CARBURETORS	26831 RUETHER AVE J		LOS ANGELES CO. HMS
SANTA CLARITA	S104538077	SOLAR DESIGN WINDOW TINTING	26831 RUETHER AVE C		LOS ANGELES CO. HMS
SANTA CLARITA	S103945475	ARENS INDUSTRIES INC.	26841 RUETHER AVE A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945489	BRITISH CUSTOMS	26911 RUETHER AVE B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945490	CLASSIC MANTELS	26911 RUETHER AVE C		LOS ANGELES CO. HMS
SANTA CLARITA	S103945493	PACIFIC WOOD PRODUCTS	26911 RUETHER AVE F		LOS ANGELES CO. HMS
SANTA CLARITA	S103945478	HERMANN MW CO.	26841 RUETHER AVE D		LOS ANGELES CO. HMS
SANTA CLARITA	S103945469	SANTA CLARITA AUTO AIR&RADTR	26821 RUETHER AVE C		LOS ANGELES CO. HMS
SANTA CLARITA	S103945474	ADVANCED HONDA-ACURA	26831 RUETHER AVE K		LOS ANGELES CO. HMS
SANTA CLARITA	S103945476	BARBS QUALITY REPAIR SERVICE	26841 RUETHER AVE B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945477	CYCLE CONCEPTS INC.	26841 RUETHER AVE C		LOS ANGELES CO. HMS
SANTA CLARITA	S103945488	SCV TOYOTA	26911 RUETHER AVE A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945491	A & S EXCHANGE	26911 RUETHER AVE D		LOS ANGELES CO. HMS
SANTA CLARITA	S103945501	BLACKSTOCK WOODWORKS	26943 RUETHER AVE O		LOS ANGELES CO. HMS
SANTA CLARITA	S103945502	OHN TOMMY WOODWORKS	26943 RUETHER AVE C		LOS ANGELES CO. HMS
SANTA CLARITA	S103945503	STANDARD FASTENERS MFG.	26951 RUETHER AVE A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945504	TOM'S AUTOMOTIVE SERVICE	26951 RUETHER AVE B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945505	VALENCIA VOLVO INDEPENDENT	26951 RUETHER AVE J		LOS ANGELES CO. HMS
SANTA CLARITA	S103945495	SERVICE MASTER	26911 RUETHER AVE H		LOS ANGELES CO. HMS
SANTA CLARITA	S103945394	SANTA CLARITA VALLEY HUBCAPS	25845 SAN FERNANDO RD 6		LOS ANGELES CO. HMS
SANTA CLARITA	S104913314	NICK'S AUTO REPAIR	25835 SAN FERNANDO RD D		LOS ANGELES CO. HMS
SANTA CLARITA	S105053520	GASOLINE ALLEY	25845 SAN FERNANDO RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S104538167	MAN ON AUTO BODY & PAINT	24404 SAN FERNANDO RD B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945171	CUSTOM SPECIALTIES	23919 SAN FERNANDO RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945172	HAVE YOU SEEN MY TRUCK	23919 SAN FERNANDO RD B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945173	KWIK RIG INC.	23919 SAN FERNANDO RD B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945181	& S AUTOBODY & PAINT SUPPLY	23953 SAN FERNANDO RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945199	CANYON MOTORS INC.	24254 SAN FERNANDO RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945216	AUTOMOTIVE TECHNOLOGY	24404 SAN FERNANDO RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945385	SC CUSTOM CYCLES	25825 SAN FERNANDO RD B		LOS ANGELES CO. HMS
SANTA CLARITA	S103945387	A AUTO DETAIL & ACCESSORIES	25835 SAN FERNANDO RD 32		LOS ANGELES CO. HMS
SANTA CLARITA	S103945388	CALIFORNIA TINT	25835 SAN FERNANDO RD 33		LOS ANGELES CO. HMS
SANTA CLARITA	S103945395	WINDSHIELDS WHOLESALE AUTO GLS	25845 SAN FERNANDO RD C		LOS ANGELES CO. HMS
SANTA CLARITA	S104538153	AAMCO TRANSMISSIONS	25825 SAN FERNANDO RD A		LOS ANGELES CO. HMS
SANTA CLARITA	U003941163	POINTS WEST TRUCKING,INC.	20727 SANTA CLARA ST	91351	UST
SANTA CLARITA	S103945033	ACRYLIC CUSTOM CLLSN & BODY	20665 SANTA CLARA ST A		LOS ANGELES CO. HMS

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SANTA CLARITA	S103945034	SAUMERS WELDING	20665 SANTA CLARA ST B		LOS ANGELES CO. HMS
SANTA CLARITA	1004675784	V P MANUFACTURING INC	20732 SOLEDAD ST UNITS	91351	RCRIS-SQG, FINDS
SANTA CLARITA	S105094177	VP MANUFACTURING INC	20732 SOLEDAD ST UNITS ABCDE	91351	HAZNET
SANTA CLARITA	U003941469	SAM'S MOBIL	23060 SOLEDAD CANYON RD	91350	UST
SANTA CLARITA	U003942465	TOSCO/UNOCAL #31309	23055 SOLEDAD CANYON RD	91350	UST
SANTA CLARITA	S106103466	REPLACEMENT WELL U6	SOLEDAD CANYON RD / BENTGRAS		CA WDS
SANTA CLARITA	S104571178	CARDINAL RESTAURANT SUPPLY	SOLEDAD / LUTHER		HAZNET
SANTA CLARITA	S105696651	SHELL OIL CO	19223 W SOLEDAD CANYON RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S105696652	SHELL OIL # 204-7050-0164	19223 W SOLEDAD CANYON RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S105696654	NORTH OAKS SHELL	19223 W SOLEDAD CANYON RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S105696655	SHELL OIL # 204-7050-0164	19223 W SOLEDAD CANYON RD A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945397	CREATIVE ENERGY SOURCE	25848 SPRINGBROOK AVE A		LOS ANGELES CO. HMS
SANTA CLARITA	S103945398	FOUR M GRINDING	25848 SPRINGBROOK AVE B		LOS ANGELES CO. HMS
SANTA CLARITA	S105023958	GREEN VALLEY COUNTRY STOR	15488 1/2 SPUNKY CNYN	91350	Cortese
SANTA CLARITA	S103489734	NEWHALL LAND & FARMING CO	24415 TOWNE CENTRE DR #C		LOS ANGELES CO. HMS
SANTA CLARITA	S103817810	NEWHALL LAND & FARMING CO	24320 TOWNE CENTRE DR #F		LOS ANGELES CO. HMS
SANTA CLARITA	S103817811	POQUITO MAS RESTAURANT	24415 TOWNE CENTRE DR #C		LOS ANGELES CO. HMS
SANTA CLARITA	S103817812	POQUITO MAS RESTAURANT (BLDG E)	24425 TOWNE CENTRE DR #D / E		LOS ANGELES CO. HMS
SANTA CLARITA	S104295319	B 'S PIZZA, GRILL & BREWERY	24320 TOWNE CENTRE DR #F		LOS ANGELES CO. HMS
SANTA CLARITA	S104538499	NEWHALL LAND & FARMING CO	24435 TOWNE CENTRE DR #A		LOS ANGELES CO. HMS
SANTA CLARITA	S104538500	NEWHALL LAND & FARMING CO	24445 TOWNE CENTRE DR #B		LOS ANGELES CO. HMS
SANTA CLARITA	S104538501	NYB GOURMET WRAPS, SUITE 165	24445 TOWNE CENTRE DR #B		LOS ANGELES CO. HMS
SANTA CLARITA	S104735018	NEWHALL LAND & FARMING/BLDG D&E	24425 TOWNE CENTRE DR #D / E		LOS ANGELES CO. HMS
SANTA CLARITA	S103945221	OHNNY ROCKETS (BLDG D)	24425 TOWNE CENTRE DR #D / E		LOS ANGELES CO. HMS
SANTA CLARITA	S103489731	KOO KOO ROO CALIFORNIA KITCHEN	24251 TOWNE CENTRE DR		LOS ANGELES CO. HMS
SANTA CLARITA	S103489732	SALT CREEK GRILL	24415 TOWNE CENTRE DR		LOS ANGELES CO. HMS
SANTA CLARITA	U003940867	NEWHALL LAND & FARMING CO	23823 VALENCIA BLVD	91355	UST
SANTA CLARITA	U003941884	TERRY YORK CHEVROLET INC	23649 VALENCIA BLVD	91355	UST
SANTA CLARITA	S102064376	YUROSEK & SON	25311 W VALENCIA BLVD		LOS ANGELES CO. HMS
SANTA CLARITA	S102064274	THE AN GROUP B (SISLEY)	24201 W VALENCIA BLVD 101		LOS ANGELES CO. HMS
SANTA CLARITA	S102064276	SEE FILE NO 23840-7A	24201 W VALENCIA BLVD 102		LOS ANGELES CO. HMS
SANTA CLARITA	S102321785	SPECTRUM CLUB	24525 VALENCIA TOWN CENTER		LOS ANGELES CO. HMS
SANTA CLARITA	S102531995	RED ROBIN RESTAURANT	24201 W VALENCIA BLVD 1351		LOS ANGELES CO. HMS
SANTA CLARITA	S103317741	PEDREGAL RESTAURANT	24300 VALENCIA TOWN CENTER		LOS ANGELES CO. HMS
SANTA CLARITA	S102592976	HYATT VALENCIA & CONF CENTER	24500 VALENCIA TOWN CENTER		LOS ANGELES CO. HMS
SANTA CLARITA	S105422178	IFFY LUBE	18533 VIA PRINCESSA		LOS ANGELES CO. HMS
SAUGUS	S105026551	UNION OIL COMPANY/UNOCAL	DEL VALLE OIL FIELD	91350	Cortese, EMI
SAUGUS	1000204345	USDA FS ANGELES NATIONAL FOREST	LOS PINETOS STORAGE RT 1	91350	RCRIS-SQG, FINDS, CERC-NFRAP
SAUGUS	S103679198	USDA FOREST SERVICE	LOS PINETOS STORAGE RT 1	91350	HAZNET
SAUGUS	1003878409	PARKER AIRCRAFT CO	25977A SAND CYN	91351	CERC-NFRAP
SAUGUS	S103648095	LOS ANGELES COUNTY FIRE DEPT	26829 SECO CANYON - STATION 11	91350	HAZNET
SAUGUS	1004678097	SHELL SERVICE STATION 136099	19223 SOLEDAD	91350	FINDS, HAZNET, RCRIS-LQG
SAUGUS	S105126708	SHELL	19223 SOLEDAD	91350	HAZNET
SAUGUS	U001567732	USA PETROLEUM COMPANY #82	19443 W. SOLEDAD	91350	HIST UST
SAUGUS	S106116313	LA COUNTY DPW	21014 SOLEDAD CANYON W.	91351	LUST
SCV	S104493053	CANYON SQUARE SHOP. CTR/MOBIL	18507 597 SOLEDAD CANYON RD	91351	LA Co. Site Mitigation
VALENCIA	S106089351	CALIFO NIA INSTITUTE OF THE A TS	VY #147 MCBEAN PRKWY / HWY 5	91355	HAZNET

City	EDR ID	Site Name	Site Address	Zip	Database(s)
VALENCIA	1000119892	PPG INDUSTRIES INC WORKS 24	25663 W AVE STANFORD	91355	RCRIS-SQG, FINDS, RCRIS-TSD, CORRACTS, CERC-NFRAP, LOS ANGELES CO. HMS
VALENCIA	S106091607	CENTURY AUTO CLINIC	24309 CREEKSIDE RD UNIT 106	91355	HAZNET
VALENCIA	U003941390	RON TONKIN'S VALENCIA ACURA	23955 CREEKSIDE RD	91355	UST
VALENCIA	S104532769	UNION OIL COMPANY/UNOCAL STATION	DEL VALLE OIL FIELD	91350	LUST
VALENCIA	S105086806	CF ENGINEERING INC	FAIRVIEW / MCBEAN PKWY	91355	HAZNET
VALENCIA	1000253689	MOBIL OIL CORP NEWHALL STA	25410 W MAGIC PKWY	91355	RCRIS-SQG, FINDS
VALENCIA	S103679412	NORTHPARK 3 AND 4	NORTHEND OF MCBEAN PARKWAY	91355	HAZNET
VALENCIA	S106103470	HART/PONY BASEBALL & AUTO MALL	W VALENCIA / CINEMA DR	91355	CA WDS
VALENCIA	S105126613	SHELL	24301 VALENCIA/ MCBEAN	91350	HAZNET

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.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List
Source: EPA
Telephone: N/A
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: 04/27/04
Date Made Active at EDR: 05/21/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/04/04
Elapsed ASTM days: 17
Date of Last EDR Contact: 05/04/04

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 6
Telephone: 214-655-6659

EPA Region 8
Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites
Source: EPA
Telephone: N/A

Date of Government Version: 04/27/04
Date Made Active at EDR: 05/21/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/04/04
Elapsed ASTM days: 17
Date of Last EDR Contact: 05/04/04

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA
Telephone: 703-413-0223
CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/26/04
Date Made Active at EDR: 04/02/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/22/04
Elapsed ASTM days: 11
Date of Last EDR Contact: 03/22/04

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Source: EPA
Telephone: 703-413-0223
As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 02/26/04
Date Made Active at EDR: 04/02/04
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 03/22/04
Elapsed ASTM days: 11
Date of Last EDR Contact: 03/22/04

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/04
Date Made Active at EDR: 04/15/04
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 03/25/04
Elapsed ASTM days: 21
Date of Last EDR Contact: 03/08/04

RCRIS: Resource Conservation and Recovery Information System
Source: EPA
Telephone: 800-424-9346
Resource Conservation and Recovery Information System. RCRIS 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. Small quantity generators (SQGs): generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs): generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site 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: 04/13/04
Date Made Active at EDR: 05/13/04
Database Release Frequency: Varies
Date of Data Arrival at EDR: 04/20/04
Elapsed ASTM days: 23
Date of Last EDR Contact: 04/20/04

ERNS: Emergency Response Notification System
Source: National Response Center, United States Coast Guard
Telephone: 202-260-2342
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/03
Date Made Active at EDR: 03/12/04
Database Release Frequency: Annually
Date of Data Arrival at EDR: 01/26/04
Elapsed ASTM days: 46
Date of Last EDR Contact: 04/26/04

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System
Source: EPA/NTIS
Telephone: 800-424-9346
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: 12/01/01
Database Release Frequency: Biennially
Date of Last EDR Contact: 03/16/04
Date of Next Scheduled EDR Contact: 06/14/04

CONSENT: Superfund (CERCLA) Consent Decrees
Source: EPA Regional Offices
Telephone: Varies
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: N/A
Database Release Frequency: Varies
Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision
Source: EPA
Telephone: 703-416-0223
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: 01/09/04
Database Release Frequency: Annually

Date of Last EDR Contact: 04/05/04
Date of Next Scheduled EDR Contact: 07/05/04

DELISTED NPL: National Priority List Deletions
Source: EPA
Telephone: N/A
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: 04/27/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/04/04
Date of Next Scheduled EDR Contact: 08/02/04

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

Date of Government Version: 04/08/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/05/04
Date of Next Scheduled EDR Contact: 07/05/04

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 02/17/04
Database Release Frequency: Annually

Date of Last EDR Contact: 04/20/04
Date of Next Scheduled EDR Contact: 07/19/04

MLTS: Material Licensing Tracking System
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
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: 01/15/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/05/04
Date of Next Scheduled EDR Contact: 07/05/04

MINES: Mines Master Index File
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 03/05/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/30/04
Date of Next Scheduled EDR Contact: 06/28/04

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 202-564-4267
Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (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 receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/12/04
Date of Next Scheduled EDR Contact: 05/24/04

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-564-3887
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: 12/30/03
Database Release Frequency: Annually

Date of Last EDR Contact: 05/12/04
Date of Next Scheduled EDR Contact: 08/09/04

DOD: Department of Defense Sites
Source: USGS
Telephone: 703-692-8801
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: 10/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/02/04
Date of Next Scheduled EDR Contact: 05/10/04

STORMWATER: Storm Water General Permits
Source: Environmental Protection Agency
Telephone: 202 564-0746
A listing of all facilities with Storm Water General Permits.

Date of Government Version: N/A
Database Release Frequency: Quarterly

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

INDIAN RESERV: Indian Reservations
Source: USGS
Telephone: 202-208-3710
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: 10/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/02/04
Date of Next Scheduled EDR Contact: 05/10/04

US BROWNFIELDS: A Listing of Brownfields Sites
Source: Environmental Protection Agency
Telephone: 202-566-2777
Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/14/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/15/04
Date of Next Scheduled EDR Contact: 06/14/04

RMP: Risk Management Plans
Source: Environmental Protection Agency
Telephone: 202-564-8600
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: N/A
Database Release Frequency: N/A

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

FUDS: Formerly Used Defense Sites
Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
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: 10/01/03
Database Release Frequency: Varies

Date of Last EDR Contact: 04/26/04
Date of Next Scheduled EDR Contact: 07/05/04

RAATS: RCRA Administrative Action Tracking System
Source: EPA
Telephone: 202-564-4104
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: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/08/04
Date of Next Scheduled EDR Contact: 06/07/04

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-566-0250
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: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 03/23/04
Date of Next Scheduled EDR Contact: 06/21/04

TSCA: Toxic Substances Control Act
Source: EPA
Telephone: 202-260-5521
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: 12/31/02
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 03/05/04
Date of Next Scheduled EDR Contact: 06/07/04

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA
Telephone: 202-564-2501

Date of Government Version: 04/13/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/22/04
Date of Next Scheduled EDR Contact: 06/21/04

SSTS: Section 7 Tracking Systems
Source: EPA
Telephone: 202-564-5008
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: 12/31/01
Database Release Frequency: Annually

Date of Last EDR Contact: 04/19/04
Date of Next Scheduled EDR Contact: 07/19/04

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-564-2501
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: 04/13/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 03/22/04
Date of Next Scheduled EDR Contact: 06/21/04

STATE OF CALIFORNIA ASTM STANDARD RECORDS

AWP: Annual Workplan Sites
Source: California Environmental Protection Agency
Telephone: 916-323-3400
Known Hazardous Waste Sites. California DTSC's Annual Workplan (AWP), formerly BEP, identifies known hazardous substance sites targeted for cleanup.

Date of Government Version: 03/02/04
Date Made Active at EDR: 03/24/04
Database Release Frequency: Annually
Date of Data Arrival at EDR: 03/03/04
Elapsed ASTM days: 21
Date of Last EDR Contact: 03/03/04

CAL-SITES: Calsites Database
Source: Department of Toxic Substance Control
Telephone: 916-323-3400
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.

Date of Government Version: 03/02/04
Date Made Active at EDR: 03/24/04
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 03/03/04
Elapsed ASTM days: 21
Date of Last EDR Contact: 03/03/04

CHMIRS: California Hazardous Material Incident Report System
Source: Office of Emergency Services
Telephone: 916-845-8400
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/02
Date Made Active at EDR: 08/07/03
Database Release Frequency: Varies
Date of Data Arrival at EDR: 07/11/03
Elapsed ASTM days: 27
Date of Last EDR Contact: 02/23/04

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-9100
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: 04/01/01
Date Made Active at EDR: 07/26/01
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 05/29/01
Elapsed ASTM days: 58
Date of Last EDR Contact: 04/28/04

NOTIFY 65: Proposition 65 Records
Source: State Water Resources Control Board
Telephone: 916-445-3846
Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/93
Date Made Active at EDR: 11/19/93
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 11/01/93
Elapsed ASTM days: 18
Date of Last EDR Contact: 04/19/04

TOXIC PITS: Toxic Pits Cleanup Act Sites
Source: State Water Resources Control Board
Telephone: 916-227-4364
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: 07/01/95
Date Made Active at EDR: 09/26/95
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 08/30/95
Elapsed ASTM days: 27
Date of Last EDR Contact: 05/03/04

SWF/LF (SWIS): Solid Waste Information System
Source: Integrated Waste Management Board
Telephone: 916-341-6320
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: 03/15/04
Date Made Active at EDR: 04/14/04
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 03/17/04
Elapsed ASTM days: 28
Date of Last EDR Contact: 03/16/04

WMUDS/SWAT: Waste Management Unit Database
Source: State Water Resources Control Board
Telephone: 916-227-4448
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: 04/01/00
Date Made Active at EDR: 05/10/00
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 04/10/00
Elapsed ASTM days: 30
Date of Last EDR Contact: 03/11/04

LUST: Leaking Underground Storage Tank Information System
Source: State Water Resources Control Board
Telephone: 916-341-5740
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.

Date of Government Version: 04/13/04
Date Made Active at EDR: 04/29/04
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 04/13/04
Elapsed ASTM days: 16
Date of Last EDR Contact: 04/13/04

CA BOND EXP. PLAN: Bond Expenditure Plan
Source: Department of Health Services
Telephone: 916-255-2118
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: 01/01/89
Date Made Active at EDR: 08/02/94
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 07/27/94
Elapsed ASTM days: 6
Date of Last EDR Contact: 05/31/94

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CA UST:

UST: Active UST Facilities
Source: SWRCB
Telephone: 916-341-5700
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 04/13/04
Date Made Active at EDR: 04/29/04
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 04/13/04
Elapsed ASTM days: 16
Date of Last EDR Contact: 04/13/04

VCP: Voluntary Cleanup Program Properties
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
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: 03/02/04
Date Made Active at EDR: 03/24/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/03/04
Elapsed ASTM days: 21
Date of Last EDR Contact: 03/03/04

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land
Source: Environmental Protection Agency
Telephone: 415-972-3372
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/09/04
Date Made Active at EDR: 03/01/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 02/10/04
Elapsed ASTM days: 20
Date of Last EDR Contact: 01/27/04

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land
Source: EPA Region 10
Telephone: 206-553-2857
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 03/11/04
Date Made Active at EDR: 03/31/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 03/12/04
Elapsed ASTM days: 19
Date of Last EDR Contact: 01/27/04

INDIAN UST: Underground Storage Tanks on Indian Land
Source: EPA Region 9
Telephone: 415-972-3368

Date of Government Version: 02/25/04
Date Made Active at EDR: 03/24/04
Database Release Frequency: Varies

Date of Data Arrival at EDR: 03/01/04
Elapsed ASTM days: 23
Date of Last EDR Contact: 02/23/04

CA FID UST: Facility Inventory Database
Source: California Environmental Protection Agency
Telephone: 916-445-6532
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: 10/31/94
Date Made Active at EDR: 09/29/95
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 09/05/95
Elapsed ASTM days: 24
Date of Last EDR Contact: 12/28/98

HIST UST: Hazardous Substance Storage Container Database
Source: State Water Resources Control Board
Telephone: 916-341-5700
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: 10/15/90
Date Made Active at EDR: 02/12/91
Database Release Frequency: No Update Planned
Date of Data Arrival at EDR: 01/25/91
Elapsed ASTM days: 18
Date of Last EDR Contact: 07/26/01

STATE OF CALIFORNIA ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Petroleum Storage Tank Facilities
Source: State Water Resources Control Board
Telephone: 916-341-5712
Registered Aboveground Storage Tanks.

Date of Government Version: 12/01/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 05/03/04
Date of Next Scheduled EDR Contact: 08/02/04

CLEANERS: Cleaner Facilities
Source: Department of Toxic Substance Control
Telephone: 916-225-0873
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: 04/21/04
Database Release Frequency: Annually
Date of Last EDR Contact: 04/05/04
Date of Next Scheduled EDR Contact: 07/05/04

CA WDS: Waste Discharge System
Source: State Water Resources Control Board
Telephone: 916-341-5227
Sites which have been issued waste discharge requirements.

Date of Government Version: 04/05/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 03/22/04
Date of Next Scheduled EDR Contact: 06/21/04

DEED: List of Deed Restrictions
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes.

Date of Government Version: 04/06/04
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 04/06/04
Date of Next Scheduled EDR Contact: 07/05/04

NFA: No Further Action Determination
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
This category contains properties at which DTSC has made a clear determination that the property does not pose a problem to the environment or to public health.

Date of Government Version: 03/02/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 03/03/04
Date of Next Scheduled EDR Contact: 05/31/04

EMI: Emissions Inventory Data
Source: California Air Resources Board
Telephone: 916-322-2990
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/02
Database Release Frequency: Varies
Date of Last EDR Contact: 04/20/04
Date of Next Scheduled EDR Contact: 07/19/04

REF: Unconfirmed Properties Referred to Another Agency
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
This category contains properties where contamination has not been confirmed and which were determined as not requiring direct DTSC Site Mitigation Program action or oversight. Accordingly, these sites have been referred to another state or local regulatory agency.

Date of Government Version: 03/02/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/03/04
Date of Next Scheduled EDR Contact: 05/31/04

SCH: School Property Evaluation Program
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
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: 03/02/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/03/04
Date of Next Scheduled EDR Contact: 05/31/04

NFE: Properties Needing Further Evaluation
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
This category contains properties that are suspected of being contaminated. These are unconfirmed contaminated properties that need to be assessed using the PEA process. PEA in Progress indicates properties where DTSC is currently conducting a PEA. PEA Required indicates properties where DTSC has determined a PEA is required, but not currently underway.

Date of Government Version: 03/02/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/03/04
Date of Next Scheduled EDR Contact: 05/31/04

HAZNET: Hazardous Waste Information System
Source: California Environmental Protection Agency
Telephone: 916-255-1136
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.

Date of Government Version: 12/31/02
Database Release Frequency: Annually

Date of Last EDR Contact: 05/10/04
Date of Next Scheduled EDR Contact: 08/09/04

LOCAL RECORDS

ALAMEDA COUNTY:

Local Oversight Program Listing of UGT Cleanup Sites
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

Date of Government Version: 12/09/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/26/04
Date of Next Scheduled EDR Contact: 07/26/04

Underground Tanks
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

Date of Government Version: 12/09/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/26/04
Date of Next Scheduled EDR Contact: 07/26/04

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CONTRA COSTA COUNTY:

Site List
Source: Contra Costa Health Services Department
Telephone: 925-646-2286
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 03/05/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/01/04
Date of Next Scheduled EDR Contact: 05/31/04

FRESNO COUNTY:

CUPA Resources List
Source: Dept. of Community Health
Telephone: 559-445-3271
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: 01/14/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/10/04
Date of Next Scheduled EDR Contact: 08/09/04

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Kern County Sites and Tanks Listing.

Date of Government Version: 01/27/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/08/04
Date of Next Scheduled EDR Contact: 06/07/04

LOS ANGELES COUNTY:

List of Solid Waste Facilities
Source: La County Department of Public Works
Telephone: 818-458-5185

Date of Government Version: 06/03/03
Database Release Frequency: Varies

Date of Last EDR Contact: 02/20/04
Date of Next Scheduled EDR Contact: 05/17/04

City of El Segundo Underground Storage Tank
Source: City of El Segundo Fire Department
Telephone: 310-524-2236

Date of Government Version: 03/01/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/16/04
Date of Next Scheduled EDR Contact: 05/17/04

City of Long Beach Underground Storage Tank
Source: City of Long Beach Fire Department
Telephone: 562-570-2543

Date of Government Version: 03/28/03
Database Release Frequency: Annually

Date of Last EDR Contact: 02/23/04
Date of Next Scheduled EDR Contact: 05/24/04

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Torrance Underground Storage Tank
Source: City of Torrance Fire Department
Telephone: 310-618-2973

Date of Government Version: 02/17/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/16/04
Date of Next Scheduled EDR Contact: 05/17/04

City of Los Angeles Landfills
Source: Engineering & Construction Division
Telephone: 213-473-7869

Date of Government Version: 03/01/04
Database Release Frequency: Varies

Date of Last EDR Contact: 03/16/04
Date of Next Scheduled EDR Contact: 06/14/04

HMS: Street Number List
Source: Department of Public Works
Telephone: 626-458-3517
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 09/30/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/05/04
Date of Next Scheduled EDR Contact: 05/17/04

Site Mitigation List
Source: Community Health Services
Telephone: 323-890-7806
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 02/26/04
Database Release Frequency: Annually

Date of Last EDR Contact: 02/16/04
Date of Next Scheduled EDR Contact: 05/17/04

San Gabriel Valley Areas of Concern
Source: EPA Region 9
Telephone: 415-972-3178
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/98
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 07/06/99
Date of Next Scheduled EDR Contact: N/A

MARIN COUNTY:

Underground Storage Tank Sites
Source: Public Works Department Waste Management
Telephone: 415-499-6647
Currently permitted USTs in Marin County.

Date of Government Version: 02/10/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/03/04
Date of Next Scheduled EDR Contact: 08/02/04

NAPA COUNTY:

Sites With Reported Contamination
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 03/29/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/29/04
Date of Next Scheduled EDR Contact: 06/28/04

Closed and Operating Underground Storage Tank Sites
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 03/29/04
Database Release Frequency: Annually

Date of Last EDR Contact: 03/29/04
Date of Next Scheduled EDR Contact: 06/28/04

ORANGE COUNTY:

List of Underground Storage Tank Cleanups
Source: Health Care Agency
Telephone: 714-834-3446
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/08/04
Date of Next Scheduled EDR Contact: 06/07/04

List of Underground Storage Tank Facilities
Source: Health Care Agency
Telephone: 714-834-3446
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 03/01/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/08/04
Date of Next Scheduled EDR Contact: 06/07/04

List of Industrial Site Cleanups
Source: Health Care Agency
Telephone: 714-834-3446
Petroleum and non-petroleum spills.

Date of Government Version: 03/01/04
Database Release Frequency: Annually

Date of Last EDR Contact: 03/08/04
Date of Next Scheduled EDR Contact: 06/07/04

PLACER COUNTY:

Master List of Facilities
Source: Placer County Health and Human Services
Telephone: 530-889-7312
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 02/17/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/17/04
Date of Next Scheduled EDR Contact: 06/21/04

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Source: Department of Public Health
Telephone: 909-358-5055
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 12/23/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/19/04
Date of Next Scheduled EDR Contact: 07/19/04

Underground Storage Tank Tank List
Source: Health Services Agency
Telephone: 909-358-5055

Date of Government Version: 12/01/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/19/04
Date of Next Scheduled EDR Contact: 07/19/04

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SACRAMENTO COUNTY:

CS - Contaminated Sites
Source: Sacramento County Environmental Management
Telephone: 916-875-8406

Date of Government Version: 01/29/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/07/04
Date of Next Scheduled EDR Contact: 08/02/04

ML - Regulatory Compliance Master List
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/03/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/07/04
Date of Next Scheduled EDR Contact: 08/02/04

SAN BERNARDINO COUNTY:

Hazardous Material Permits
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
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: 04/15/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/08/04
Date of Next Scheduled EDR Contact: 06/07/04

SAN DIEGO COUNTY:

Solid Waste Facilities
Source: Department of Health Services
Telephone: 619-338-2209
San Diego County Solid Waste Facilities.

Date of Government Version: 08/01/00
Database Release Frequency: Varies

Date of Last EDR Contact: 02/23/04
Date of Next Scheduled EDR Contact: 05/24/04

Hazardous Materials Management Division Database
Source: Hazardous Materials Management Division
Telephone: 619-338-2268
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: 10/31/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/08/04
Date of Next Scheduled EDR Contact: 07/05/04

SAN FRANCISCO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Oversite Facilities
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920

Date of Government Version: 03/08/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/08/04
Date of Next Scheduled EDR Contact: 06/07/04

Underground Storage Tank Information
Source: Department of Public Health
Telephone: 415-252-3920

Date of Government Version: 03/08/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/08/04
Date of Next Scheduled EDR Contact: 06/07/04

SAN MATEO COUNTY:

Fuel Leak List
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921

Date of Government Version: 01/29/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/12/04
Date of Next Scheduled EDR Contact: 07/12/04

Business Inventory
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 04/07/04
Database Release Frequency: Annually

Date of Last EDR Contact: 03/02/04
Date of Next Scheduled EDR Contact: 07/12/04

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report
Source: Santa Clara Valley Water District
Telephone: 408-265-2600

Date of Government Version: 12/31/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/30/04
Date of Next Scheduled EDR Contact: 06/28/04

Hazardous Material Facilities
Source: City of San Jose Fire Department
Telephone: 408-277-4659

Date of Government Version: 10/01/03
Database Release Frequency: Annually

Date of Last EDR Contact: 03/08/04
Date of Next Scheduled EDR Contact: 06/07/04

SOLANO COUNTY:

Leaking Underground Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 03/18/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/15/04
Date of Next Scheduled EDR Contact: 06/14/04

Underground Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 03/18/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/15/04
Date of Next Scheduled EDR Contact: 06/14/04

SONOMA COUNTY:

Leaking Underground Storage Tank Sites
Source: Department of Health Services
Telephone: 707-565-6565

Date of Government Version: 04/26/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/26/04
Date of Next Scheduled EDR Contact: 07/26/04

SUTTER COUNTY:

Underground Storage Tanks
Source: Sutter County Department of Agriculture
Telephone: 530-822-7500

Date of Government Version: 01/29/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/05/04
Date of Next Scheduled EDR Contact: 07/05/04

VENTURA COUNTY:

Inventory of Illegal Abandoned and Inactive Sites
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 09/01/02
Database Release Frequency: Annually

Date of Last EDR Contact: 02/23/04
Date of Next Scheduled EDR Contact: 05/24/04

Listing of Underground Tank Cleanup Sites
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 02/26/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/16/04
Date of Next Scheduled EDR Contact: 06/14/04

Underground Tank Closed Sites List
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 12/01/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/15/04
Date of Next Scheduled EDR Contact: 07/12/04

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
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: 02/26/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/16/04
Date of Next Scheduled EDR Contact: 06/14/04

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Source: Yolo County Department of Health
Telephone: 530-666-8646

Date of Government Version: 01/27/04
Database Release Frequency: Annually

Date of Last EDR Contact: 04/19/04
Date of Next Scheduled EDR Contact: 07/19/04

California Regional Water Quality Control Board (RWQCB) LUST Records

LUST REG 1: Active Toxic Site Investigation
Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220
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: 02/01/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 02/23/04
Date of Next Scheduled EDR Contact: 05/24/04

LUST REG 2: Fuel Leak List
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457

Date of Government Version: 03/31/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/12/04
Date of Next Scheduled EDR Contact: 07/12/04

LUST REG 3: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147

Date of Government Version: 05/19/03
Database Release Frequency: Varies

Date of Last EDR Contact: 02/16/04
Date of Next Scheduled EDR Contact: 05/17/04

LUST REG 4: Underground Storage Tank Leak List
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/10/04
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/08/04
Date of Next Scheduled EDR Contact: 06/07/04

LUST REG 5: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291

Date of Government Version: 04/01/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/08/04
Date of Next Scheduled EDR Contact: 07/05/04

LUST REG 6L: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 916-542-5424
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/03
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/08/04
Date of Next Scheduled EDR Contact: 06/07/04

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491

Date of Government Version: 01/21/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/05/04
Date of Next Scheduled EDR Contact: 07/05/04

LUST REG 7: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-346-7491

Date of Government Version: 02/26/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/26/04
Date of Next Scheduled EDR Contact: 06/28/04

LUST REG 8: Leaking Underground Storage Tanks
Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4498
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: 01/12/04
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/12/04
Date of Next Scheduled EDR Contact: 08/09/04

LUST REG 9: Leaking Underground Storage Tank Report
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
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: 03/01/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 04/19/04
Date of Next Scheduled EDR Contact: 07/19/04

California Regional Water Quality Control Board (RWQCB) SLIC Records

SLIC REG 1: Active Toxic Site Investigations
Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220

Date of Government Version: 04/03/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/23/04
Date of Next Scheduled EDR Contact: 05/24/04

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 03/31/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/12/04
Date of Next Scheduled EDR Contact: 07/12/04

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/16/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/16/04
Date of Next Scheduled EDR Contact: 05/17/04

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 01/28/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/26/04
Date of Next Scheduled EDR Contact: 07/26/04

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-855-3075
Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/05/04
Date of Next Scheduled EDR Contact: 07/05/04

SLIC REG 6L: SLIC Sites
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574

Date of Government Version: 03/09/04
Database Release Frequency: Varies

Date of Last EDR Contact: 03/08/04
Date of Next Scheduled EDR Contact: 06/07/04

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583

Date of Government Version: 04/01/04
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/05/04
Date of Next Scheduled EDR Contact: 07/05/04

SLIC REG 7: SLIC List
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491

Date of Government Version: 02/27/04
Database Release Frequency: Varies

Date of Last EDR Contact: 02/23/04
Date of Next Scheduled EDR Contact: 05/24/04

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-3298

Date of Government Version: 04/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/08/04
Date of Next Scheduled EDR Contact: 07/05/04

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980

Date of Government Version: 04/29/04
Database Release Frequency: Annually

Date of Last EDR Contact: 04/29/04
Date of Next Scheduled EDR Contact: 05/31/04

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BROWNFIELDS DATABASES

VCP: Voluntary Cleanup Program Properties
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
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: 03/02/04
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/03/04
Date of Next Scheduled EDR Contact: 05/31/04

US BROWNFIELDS: A Listing of Brownfields Sites
Source: Environmental Protection Agency
Telephone: 202-566-2777
Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become BCRLF cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: N/A
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: N/A
Date of Next Scheduled EDR Contact: N/A

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.

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: (800) 823-6277
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 1999 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 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CROSS VALLEY CONNECTOR EAST
CROSS VALLEY CORRIDOR
SANTA CLARITA, CA 91350

TARGET PROPERTY COORDINATES

Latitude (North):	34.423000 - 34° 25' 22.8"
Longitude (West):	118.525299 - 118° 31' 31.1"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	359834.7
UTM Y (Meters):	3809918.0
Elevation:	1221 ft. above sea level

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. 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.

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).

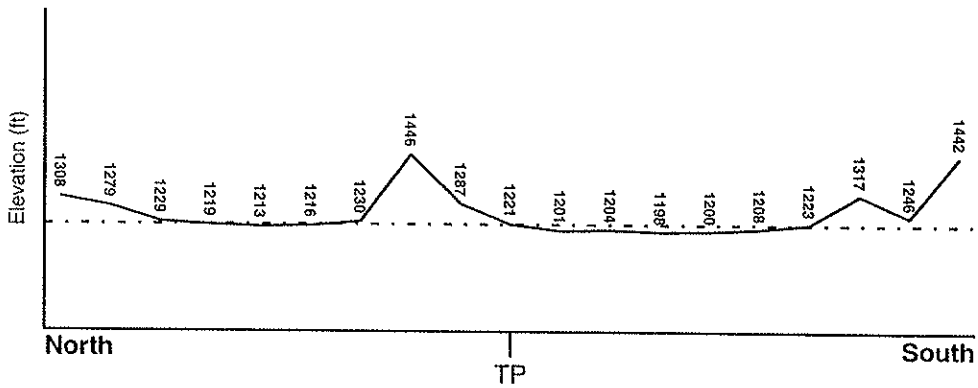
TOPOGRAPHIC INFORMATION

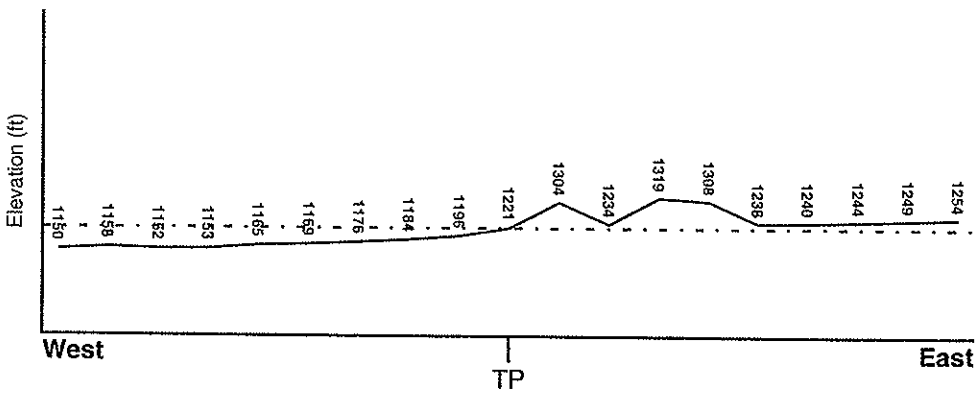
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

USGS Topographic Map:	34118-D5 NEWHALL, CA
General Topographic Gradient:	General SSW
Source:	USGS 7.5 min quad index

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 1221 ft.

0 1/2 1 Miles

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
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	0607290345C
Additional Panels in search area:	0650430345B 0607290365C 0607290460C

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NEWHALL	Not Available

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
Location Relative to TP:	1 - 2 Miles SW
Site Name:	HASA CHEM INC
Site EPA ID Number:	CAD009656075
Groundwater Flow Direction:	GENERALLY W IN BOTH THE ALLUVIAL AND SAUGUS AQUIFERS.
Inferred Depth to Water:	approximately 52 feet.
Hydraulic Connection:	The site is underlain by a near-surface alluvial aquifer and the underlying Saugus aquifer that are separated by a relatively impermeable layer.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Tertiary
Series:	Pliocene
Code:	Tpc *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Continental Deposits

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).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	PICO
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. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	HIGH
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	14 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: 6.00 Min: 2.00	Max: 8.40 Min: 7.90
2	14 inches	54 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 7.90
3	54 inches	60 inches	stratified	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 8.40 Min: 7.90

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: clay loam
sand
gravelly - sand
gravelly - sandy loam
loamy sand
loam
silty clay loam

Surficial Soil Types: clay loam
sand
gravelly - sand
gravelly - sandy loam
loamy sand
loam
silty clay loam

Shallow Soil Types: loamy fine sand

Deeper Soil Types: loam
coarse sand

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
8	USGS0170626	1/2 - 1 Mile WNW

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
1	4545	1/4 - 1/2 Mile South
2	4544	1/4 - 1/2 Mile South
3	4550	1/2 - 1 Mile SSE
4	4546	1/2 - 1 Mile SW
5	22763	1/2 - 1 Mile NE
6	4526	1/2 - 1 Mile NNE
7	4530	1/2 - 1 Mile West
A9	4528	1/2 - 1 Mile NW
A10	4529	1/2 - 1 Mile NW
A11	4527	1/2 - 1 Mile NW
12	4549	1/2 - 1 Mile ESE

STATE OIL/GAS WELL INFORMATION

DISTANCE FROM TP (Miles)	DISTANCE FROM TP (Miles)
1 - 2 Miles North	1 - 2 Miles North

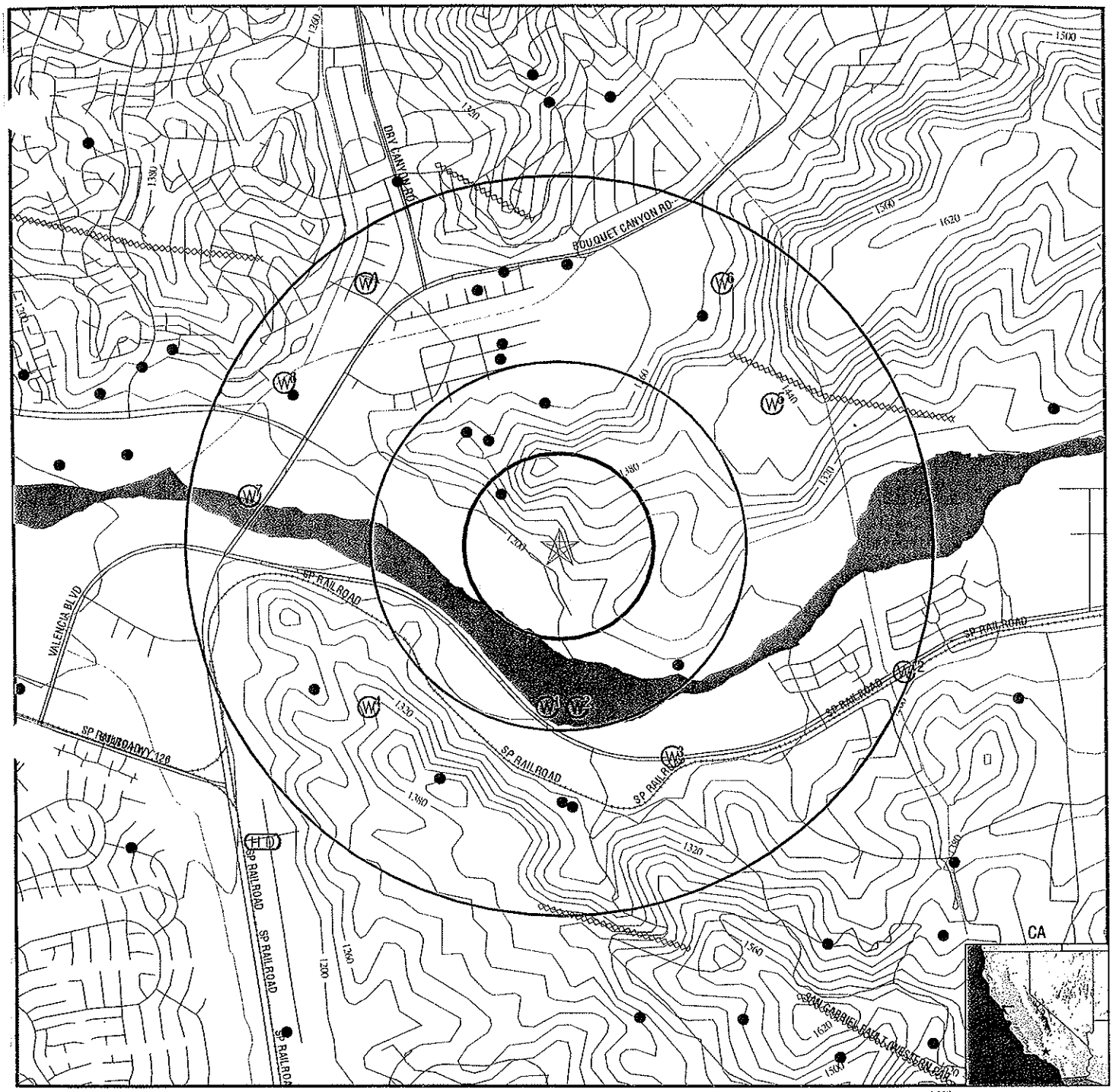
GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

DISTANCE FROM TP (Miles)
1 - 2 Miles NW
1 - 2 Miles North
1 - 2 Miles NNW
1/2 - 1 Mile North
1/2 - 1 Mile NNW
1 - 2 Miles WNW
1/2 - 1 Mile NNW
1/2 - 1 Mile NNW
1 - 2 Miles WNW
1/2 - 1 Mile WNW
1 - 2 Miles ENE
1/4 - 1/2 Mile NW
1 - 2 Miles WNW
1/8 - 1/4 Mile NW
1 - 2 Miles WSW
1 - 2 Miles ESE
1 - 2 Miles ESE
1/2 - 1 Mile South
1 - 2 Miles SE
1 - 2 Miles SSE
1 - 2 Miles South
1 - 2 Miles SSW
1 - 2 Miles SSE

DISTANCE FROM TP (Miles)
1 - 2 Miles North
1 - 2 Miles NW
1/2 - 1 Mile North
1 - 2 Miles WNW
1 - 2 Miles WNW
1/2 - 1 Mile NNE
1 - 2 Miles WNW
1 - 2 Miles WNW
1 - 2 Miles WNW
1/4 - 1/2 Mile North
1 - 2 Miles East
1/4 - 1/2 Mile NNW
1 - 2 Miles West
1/4 - 1/2 Mile SE
1/2 - 1 Mile WSW
1/2 - 1 Mile SSW
1/2 - 1 Mile South
1 - 2 Miles SW
1 - 2 Miles SE
1 - 2 Miles SE
1 - 2 Miles SSE
1 - 2 Miles SE
1 - 2 Miles South

PHYSICAL SETTING SOURCE MAP - 01209277.1r



0 1/4 1/2 1 Miles

- 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

TARGET PROPERTY:	Cross Valley Connector East	CUSTOMER:	Dokken Engineering
ADDRESS:	Cross Valley Corridor	CONTACT:	Sarah Peterson
CITY/STATE/ZIP:	SANTA CLARITA CA 91350	INQUIRY #:	01209277.1r
LAT/LONG:	34.4230 / 118.5253	DATE:	June 10, 2004 8:53 am

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GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
1 **South** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**4545**

Water System Information:

Prime Station Code:	04N/16W-23A02 S	User ID:	4TH
FRDS Number:	1910240014	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	342500.0 1183130.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL T-4		
System Number:	1910240		
System Name:	VALENCIA WC		
Organization That Operates System:	28769 CASTAIC CANYON ROAD VALENCIA 91355		
Pop Served:	46500	Connections:	13396
Area Served:	VALENCIA		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	09/05/1991	Findings:	960.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/05/1991	Findings:	7.400
Chemical:	PH (LABORATORY)		
Sample Collected:	09/05/1991	Findings:	295.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	09/05/1991	Findings:	359.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/05/1991	Findings:	.650 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	09/05/1991	Findings:	438.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	09/05/1991	Findings:	120.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/05/1991	Findings:	33.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/05/1991	Findings:	59.000 MG/L
Chemical:	SODIUM		
Sample Collected:	09/05/1991	Findings:	3.600 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09/05/1991	Findings:	76.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/05/1991	Findings:	.370 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	09/05/1991	Findings:	5.900 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/05/1991	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/05/1991	Findings:	11.000 PCI/L
Chemical:	GROSS BETA		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09/05/1991	Findings:	1.500 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	09/05/1991	Findings:	620.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09/05/1991	Findings:	.400
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	09/05/1991	Findings:	27.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/02/1991	Findings:	1020.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/02/1991	Findings:	7.500
Chemical:	PH (LABORATORY)		
Sample Collected:	10/02/1991	Findings:	290.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/02/1991	Findings:	352.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/02/1991	Findings:	.810 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	10/02/1991	Findings:	400.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/02/1991	Findings:	110.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/02/1991	Findings:	30.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/02/1991	Findings:	67.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/02/1991	Findings:	3.800 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/02/1991	Findings:	72.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/02/1991	Findings:	.360 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/02/1991	Findings:	640.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/02/1991	Findings:	.500
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/02/1991	Findings:	26.400 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/15/1991	Findings:	3.000 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10/15/1991	Findings:	1.600 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10/15/1991	Findings:	1.200 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	02/03/1992	Findings:	1030.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	02/03/1992	Findings:	7.500
Chemical:	PH (LABORATORY)		
Sample Collected:	02/03/1992	Findings:	300.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02/03/1992	Findings:	364.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	02/03/1992	Findings:	.840 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	02/03/1992	Findings:	388.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	02/03/1992	Findings:	105.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	02/03/1992	Findings:	30.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	02/03/1992	Findings:	67.000 MG/L
Chemical:	SODIUM		
Sample Collected:	02/03/1992	Findings:	3.700 MG/L
Chemical:	POTASSIUM		
Sample Collected:	02/03/1992	Findings:	83.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	02/03/1992	Findings:	.370 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	02/03/1992	Findings:	2.200 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02/03/1992	Findings:	2.000 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	02/03/1992	Findings:	620.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02/03/1992	Findings:	.500
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	02/03/1992	Findings:	26.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/21/1992	Findings:	740.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	04/21/1992	Findings:	7.600
Chemical:	PH (LABORATORY)		
Sample Collected:	04/21/1992	Findings:	230.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	04/21/1992	Findings:	280.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	04/21/1992	Findings:	.770 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	04/21/1992	Findings:	256.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	04/21/1992	Findings:	73.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	04/21/1992	Findings:	18.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	04/21/1992	Findings:	55.000 MG/L
Chemical:	SODIUM		
Sample Collected:	04/21/1992	Findings:	3.000 MG/L
Chemical:	POTASSIUM		
Sample Collected:	04/21/1992	Findings:	48.000 MG/L
Chemical:	CHLORIDE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04/21/1992	Findings:	.440 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	04/21/1992	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	04/21/1992	Findings:	1.600 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04/21/1992	Findings:	4.100 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	04/21/1992	Findings:	1.500 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	04/21/1992	Findings:	460.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04/21/1992	Findings:	.500
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	04/21/1992	Findings:	.007 MG/L
Chemical:	HYDROXIDE ALKALINITY		
Sample Collected:	04/21/1992	Findings:	18.920 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07/15/1992	Findings:	860.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/15/1992	Findings:	7.700
Chemical:	PH (LABORATORY)		
Sample Collected:	07/15/1992	Findings:	255.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/15/1992	Findings:	311.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/15/1992	Findings:	1.000 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/15/1992	Findings:	325.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/15/1992	Findings:	90.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/15/1992	Findings:	24.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/15/1992	Findings:	58.000 MG/L
Chemical:	SODIUM		
Sample Collected:	07/15/1992	Findings:	3.400 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/15/1992	Findings:	70.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/15/1992	Findings:	.390 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	07/15/1992	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/15/1992	Findings:	1.700 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	07/15/1992	Findings:	540.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/15/1992	Findings:	.700
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/15/1992	Findings:	.010 MG/L
Chemical:	HYDROXIDE ALKALINITY		
Sample Collected:	07/15/1992	Findings:	23.760 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/29/1995	Findings:	3.700 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03/29/1995	Findings:	1.000 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03/29/1995	Findings:	16.500 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/14/1995	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/14/1995	Findings:	18.100 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/21/1995	Findings:	15.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	09/21/1995	Findings:	930.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/21/1995	Findings:	7.700
Chemical:	PH (LABORATORY)		
Sample Collected:	09/21/1995	Findings:	252.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	09/21/1995	Findings:	307.400 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/21/1995	Findings:	364.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	09/21/1995	Findings:	86.500 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/21/1995	Findings:	27.500 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/21/1995	Findings:	60.600 MG/L
Chemical:	SODIUM		
Sample Collected:	09/21/1995	Findings:	3.200 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09/21/1995	Findings:	58.800 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/21/1995	Findings:	.300 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	09/21/1995	Findings:	2.400 UG/L
Chemical:	ARSENIC		
Sample Collected:	09/21/1995	Findings:	3.800 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/21/1995	Findings:	.600 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/21/1995	Findings:	539.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09/21/1995	Findings:	18.700 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/21/1995	Findings:	4221.000 UG/L
Chemical:	NITRATE + NITRITE (AS N)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	12/14/1995	Findings:	16.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	12/14/1995	Findings:	960.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	12/14/1995	Findings:	7.600
Chemical:	FIELD PH		
Sample Collected:	12/14/1995	Findings:	7.600
Chemical:	PH (LABORATORY)		
Sample Collected:	12/14/1995	Findings:	262.400 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	12/14/1995	Findings:	320.100 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	12/14/1995	Findings:	412.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	12/14/1995	Findings:	115.300 MG/L
Chemical:	CALCIUM		
Sample Collected:	12/14/1995	Findings:	24.500 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12/14/1995	Findings:	55.400 MG/L
Chemical:	SODIUM		
Sample Collected:	12/14/1995	Findings:	2.900 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12/14/1995	Findings:	60.200 MG/L
Chemical:	CHLORIDE		
Sample Collected:	12/14/1995	Findings:	1.000 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	12/14/1995	Findings:	3.100 UG/L
Chemical:	ARSENIC		
Sample Collected:	12/14/1995	Findings:	2.800 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12/14/1995	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/14/1995	Findings:	579.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12/14/1995	Findings:	1.200
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	12/14/1995	Findings:	.400
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	12/14/1995	Findings:	19.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/14/1995	Findings:	4357.000 UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03/27/1996	Findings:	21.300 MG/L
Chemical:	NITRATE (AS NO3)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
2 **South** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**4544**

Water System Information:

Prime Station Code:	04N/16W-23A01 S	User ID:	4TH
FRDS Number:	1910240022	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	342500.0 1183125.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL T-2		
System Number:	1910240		
System Name:	VALENCIA WC		
Organization That Operates System:	28769 CASTAIC CANYON ROAD VALENCIA 91355		
Pop Served:	46500	Connections:	13396
Area Served:	VALENCIA		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	09/11/1989	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/11/1989	Findings:	14.000 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	09/11/1989	Findings:	2.200 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	09/11/1989	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01/08/1990	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/26/1990	Findings:	995.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/26/1990	Findings:	7.800
Chemical:	PH (LABORATORY)		
Sample Collected:	07/26/1990	Findings:	310.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/26/1990	Findings:	375.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/26/1990	Findings:	1.700 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/26/1990	Findings:	352.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/26/1990	Findings:	99.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/26/1990	Findings:	25.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/26/1990	Findings:	64.100 MG/L
Chemical:	SODIUM		
Sample Collected:	07/26/1990	Findings:	3.400 MG/L
Chemical:	POTASSIUM		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/26/1990	Findings:	73.100 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/26/1990	Findings:	.370 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	07/26/1990	Findings:	3.100 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07/26/1990	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/26/1990	Findings:	4.600 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	07/26/1990	Findings:	1.300 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	07/26/1990	Findings:	590.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/26/1990	Findings:	.800
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	07/26/1990	Findings:	27.850 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/14/1991	Findings:	1080.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/14/1991	Findings:	7.500
Chemical:	PH (LABORATORY)		
Sample Collected:	10/14/1991	Findings:	180.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/14/1991	Findings:	219.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/14/1991	Findings:	.500 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	10/14/1991	Findings:	332.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/14/1991	Findings:	81.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/14/1991	Findings:	31.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/14/1991	Findings:	66.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/14/1991	Findings:	3.500 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/14/1991	Findings:	93.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/14/1991	Findings:	.360 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/14/1991	Findings:	620.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/14/1991	Findings:	.100
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/14/1991	Findings:	29.480 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/19/1994	Findings:	16.500 C
Chemical:	SOURCE TEMPERATURE C		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/19/1994	Findings:	750.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/19/1994	Findings:	7.600
Chemical:	FIELD PH		
Sample Collected:	10/19/1994	Findings:	7.600
Chemical:	PH (LABORATORY)		
Sample Collected:	10/19/1994	Findings:	224.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/19/1994	Findings:	273.300 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/19/1994	Findings:	268.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/19/1994	Findings:	77.700 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/19/1994	Findings:	19.500 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/19/1994	Findings:	55.900 MG/L
Chemical:	SODIUM		
Sample Collected:	10/19/1994	Findings:	1.900 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/19/1994	Findings:	35.700 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/19/1994	Findings:	.700 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/19/1994	Findings:	434.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/19/1994	Findings:	.980
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/19/1994	Findings:	.190
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	10/19/1994	Findings:	16.600 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/19/1994	Findings:	12.240
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10/19/1994	Findings:	3747.000 UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03/29/1995	Findings:	3.400 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03/29/1995	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/14/1995	Findings:	1.300 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/14/1995	Findings:	19.200 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/20/1995	Findings:	763.000 UG/L
Chemical:	BORON		
Sample Collected:	09/20/1995	Findings:	4.800 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/20/1995	Findings:	1.200 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

Sample Collected:	09/20/1995	Findings:	4.000 PCI/L
Chemical:	URANIUM		
Sample Collected:	09/20/1995	Findings:	19.400 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/14/1995	Findings:	829.000 UG/L
Chemical:	BORON		
Sample Collected:	12/14/1995	Findings:	2.300 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12/14/1995	Findings:	1.400 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/14/1995	Findings:	19.100 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/27/1996	Findings:	21.200 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/17/1997	Findings:	3.070 PCI/L
Chemical:	URANIUM		
Sample Collected:	09/17/1997	Findings:	.054 PCI/L
Chemical:	URANIUM COUNTING ERROR		

3
SSE
1/2 - 1 Mile
Lower

CA WELLS 4550

Water System Information:

Prime Station Code:	04N/16W-24M02 S	User ID:	19C
FRDS Number:	1900028001	County:	Los Angeles
District Number:	49	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	342453.0 1183109.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 01		
System Number:	1900028		
System Name:	BERMITE		
Organization That Operates System:	Not Reported		
Pop Served:	Unknown, Small System	Connections:	Unknown, Small System
Area Served:	Not Reported		

4
SW
1/2 - 1 Mile
Higher

CA WELLS 4546

Water System Information:

Prime Station Code:	04N/16W-23F01 S	User ID:	4TH
FRDS Number:	1910017020	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	342500.0 1183200.0	Precision:	Undefined
Source Name:	STADIUM		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

System Number: 1910017
System Name: SANTA CLARITA WATER CO.
Organization That Operates System:
P.O. BOX 903
SANTA CLARITA, CA 91380
Pop Served: 49500 Connections: 19503
Area Served: SAUGUS

Sample Information: *** Only Findings Above Detection Level Are Listed**

Sample Collected:	Chemical:	Findings:
04/05/1989	SPECIFIC CONDUCTANCE	1160.000 UMHO
04/05/1989	PH (LABORATORY)	7.800
04/05/1989	TOTAL ALKALINITY (AS CACO3)	280.000 MG/L
04/05/1989	BICARBONATE ALKALINITY	338.000 MG/L
04/05/1989	CARBONATE ALKALINITY	1.650 MG/L
04/05/1989	TOTAL HARDNESS (AS CACO3)	464.000 MG/L
04/05/1989	CALCIUM	124.000 MG/L
04/05/1989	MAGNESIUM	37.100 MG/L
04/05/1989	SODIUM	81.400 MG/L
04/05/1989	POTASSIUM	4.100 MG/L
04/05/1989	CHLORIDE	53.000 MG/L
04/05/1989	FLUORIDE (TEMPERATURE DEPENDENT)	.430 MG/L
04/05/1989	FOAMING AGENTS (MBAS)	.040 UG/L
04/05/1989	TOTAL DISSOLVED SOLIDS	830.000 MG/L
04/05/1989	LANGELIER INDEX @ 60 C	.800
04/05/1989	NITRATE (AS NO3)	25.960 MG/L
04/12/1989	GROSS ALPHA COUNTING ERROR	.900 PCI/L
04/12/1989	RADIUM 228 COUNTING ERROR	.100 PCI/L
05/10/1989	1,1,1-TRICHLOROETHANE	1.300 UG/L
06/28/1989	1,1,2-TRICHLOROETHANE	1.100 UG/L
07/26/1989	GROSS ALPHA	1.400 PCI/L

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/26/1989	Findings:	1.300 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08/31/1989	Findings:	.800 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	10/10/1989	Findings:	1.200 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10/18/1989	Findings:	1.100 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	11/15/1989	Findings:	1.100 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	01/04/1990	Findings:	1.200 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	01/04/1990	Findings:	3.700 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	01/04/1990	Findings:	2.600 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01/04/1990	Findings:	.100 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	02/07/1990	Findings:	1.200 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	04/18/1990	Findings:	1.200 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	02/06/1991	Findings:	.700 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	05/08/1991	Findings:	.800 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	08/07/1991	Findings:	.900 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	08/19/1992	Findings:	1250.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/19/1992	Findings:	7.500
Chemical:	PH (LABORATORY)		
Sample Collected:	08/19/1992	Findings:	275.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	08/19/1992	Findings:	336.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/19/1992	Findings:	.700 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	08/19/1992	Findings:	510.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	08/19/1992	Findings:	145.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/19/1992	Findings:	36.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/19/1992	Findings:	80.000 MG/L
Chemical:	SODIUM		
Sample Collected:	08/19/1992	Findings:	4.200 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/19/1992	Findings:	78.000 MG/L
Chemical:	CHLORIDE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/19/1992	Findings:	.340 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	08/19/1992	Findings:	840.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/19/1992	Findings:	.700
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	08/19/1992	Findings:	.005 MG/L
Chemical:	HYDROXIDE ALKALINITY		
Sample Collected:	08/19/1992	Findings:	26.400 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/19/1992	Findings:	.050 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	04/27/1993	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	04/27/1993	Findings:	1.000 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04/27/1993	Findings:	1.100 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	07/20/1993	Findings:	4.900 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07/20/1993	Findings:	2.200 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/20/1993	Findings:	1.500 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	09/14/1993	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/14/1993	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/14/1993	Findings:	1.600 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	11/09/1993	Findings:	2.000 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	11/09/1993	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11/09/1993	Findings:	5.700 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	11/09/1993	Findings:	1.700 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	08/23/1995	Findings:	940.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/23/1995	Findings:	8.000
Chemical:	PH (LABORATORY)		
Sample Collected:	08/23/1995	Findings:	240.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	08/23/1995	Findings:	292.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/23/1995	Findings:	1.900 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	08/23/1995	Findings:	377.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		

Sample Collected:	08/23/1995	Findings:	105.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/23/1995	Findings:	28.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/23/1995	Findings:	62.000 MG/L
Chemical:	SODIUM		
Sample Collected:	08/23/1995	Findings:	4.100 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/23/1995	Findings:	44.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/23/1995	Findings:	.470 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	08/23/1995	Findings:	3.000 UG/L
Chemical:	ARSENIC		
Sample Collected:	08/23/1995	Findings:	590.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/23/1995	Findings:	1.000
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	08/23/1995	Findings:	.017 MG/L
Chemical:	HYDROXIDE ALKALINITY		
Sample Collected:	08/23/1995	Findings:	18.920 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/23/1995	Findings:	.200 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	08/23/1995	Findings:	4300.000 UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	12/31/1996	Findings:	19.800 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/04/1997	Findings:	2.800 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06/04/1997	Findings:	1.100 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/10/1997	Findings:	1.100 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	12/17/1997	Findings:	1.400 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		

5
NE
1/2 - 1 Mile
Higher

CA WELLS **22763**

Water System Information:

Prime Station Code:	G19/048-SYSTM02	User ID:	MET
FRDS Number:	1910048003	County:	Los Angeles
District Number:	15	Station Type:	LAKE/AMBNT/MUN/INTAKE
Water Type:	Surface Water	Well Status:	Active Treated
Source Lat/Long:	342543.7 1183052.3	Precision:	100 Feet (one Second)
Source Name:	RIO VISTA WTP EFFLUENT - TREATED		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

System Number: 1910048
System Name: CASTAIC LAKE WATER AGENCY
Organization That Operates System:
27234 BOUQUET CANYON ROAD
SANTA CLARITA, CA 91350
Pop Served: 160000 Connections: 11
Area Served: SANTA CLARITA VALLEY

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	10/06/1997	Findings:	16.500 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10/06/1997	Findings:	510.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/06/1997	Findings:	7.540
Chemical:	FIELD PH		
Sample Collected:	10/06/1997	Findings:	7.550
Chemical:	PH (LABORATORY)		
Sample Collected:	10/06/1997	Findings:	86.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/06/1997	Findings:	166.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/06/1997	Findings:	39.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/06/1997	Findings:	16.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/06/1997	Findings:	49.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/06/1997	Findings:	3.000 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/06/1997	Findings:	53.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/06/1997	Findings:	.250 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/06/1997	Findings:	7.600 MG/L
Chemical:	SILICA		
Sample Collected:	10/06/1997	Findings:	315.000 UG/L
Chemical:	BORON		
Sample Collected:	10/06/1997	Findings:	310.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/06/1997	Findings:	.330
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/06/1997	Findings:	- .640
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	10/06/1997	Findings:	.070 NTU
Chemical:	TURBIDITY (LAB)		
Sample Collected:	10/06/1997	Findings:	.110 MG/L
Chemical:	BROMIDE		
Sample Collected:	10/06/1997	Findings:	11.470
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10/06/1997	Findings:	1.600 PCI/L
Chemical:	GROSS ALPHA		

Sample Collected:	10/06/1997	Findings:	.600 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10/06/1997	Findings:	.700 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		

6
NNE
1/2 - 1 Mile
Higher

CA WELLS **4526**

Water System Information:

Prime Station Code:	04N/16W-12N02 S	User ID:	4TH
FRDS Number:	1910017002	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	342600.0 1183100.0	Precision:	Undefined
Source Name:	CLARK		
System Number:	1910017		
System Name:	SANTA CLARITA WATER CO.		
Organization That Operates System:			
	P.O. BOX 903		
	SANTA CLARITA, CA 91380		
Pop Served:	49500	Connections:	19503
Area Served:	SAUGUS		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	01/09/1985	Findings:	14.000 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	01/09/1985	Findings:	9.000 UG/L
Chemical:	BROMOFORM (THM)		
Sample Collected:	01/09/1985	Findings:	10.000 UG/L
Chemical:	DIBROMOCHLOROMETHANE (THM)		
Sample Collected:	01/09/1985	Findings:	12.000 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	01/09/1985	Findings:	12.000 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	02/05/1987	Findings:	5.300 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	02/05/1987	Findings:	1.200 UG/L
Chemical:	BROMOFORM (THM)		
Sample Collected:	02/05/1987	Findings:	5.700 UG/L
Chemical:	DIBROMOCHLOROMETHANE (THM)		
Sample Collected:	02/05/1987	Findings:	2.700 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	07/22/1987	Findings:	.600 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11/12/1987	Findings:	.700 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	11/12/1987	Findings:	.700 UG/L
Chemical:	DIBROMOCHLOROMETHANE (THM)		
Sample Collected:	11/12/1987	Findings:	1.900 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	04/20/1988	Findings:	1.000 UG/L
Chemical:	TETRACHLOROETHYLENE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	01/11/1989	Findings:	20.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	01/11/1989	Findings:	7.700
Chemical:	PH (LABORATORY)		
Sample Collected:	01/11/1989	Findings:	285.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	01/11/1989	Findings:	357.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	01/11/1989	Findings:	1.270 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	01/11/1989	Findings:	350.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	01/11/1989	Findings:	77.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	01/11/1989	Findings:	37.700 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	01/11/1989	Findings:	77.100 MG/L
Chemical:	SODIUM		
Sample Collected:	01/11/1989	Findings:	2.600 MG/L
Chemical:	POTASSIUM		
Sample Collected:	01/11/1989	Findings:	55.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	01/11/1989	Findings:	.500 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	01/11/1989	Findings:	.030 UG/L
Chemical:	FOAMING AGENTS (MBAS)		
Sample Collected:	01/11/1989	Findings:	570.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	01/11/1989	Findings:	.600
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	01/11/1989	Findings:	14.960 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/12/1989	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04/12/1989	Findings:	.100 PCI/L
Chemical:	RADIUM 226 COUNTING ERROR		
Sample Collected:	07/26/1989	Findings:	1.600 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07/26/1989	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	10/10/1989	Findings:	2.000 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	10/10/1989	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01/04/1990	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08/05/1992	Findings:	855.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/05/1992	Findings:	7.500
Chemical:	PH (LABORATORY)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/05/1992	Findings:	275.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	08/05/1992	Findings:	336.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/05/1992	Findings:	.700 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	08/05/1992	Findings:	326.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	08/05/1992	Findings:	68.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/05/1992	Findings:	38.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/05/1992	Findings:	78.000 MG/L
Chemical:	SODIUM		
Sample Collected:	08/05/1992	Findings:	2.100 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/05/1992	Findings:	61.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/05/1992	Findings:	.540 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	08/05/1992	Findings:	580.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/05/1992	Findings:	.400
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	08/05/1992	Findings:	.005 MG/L
Chemical:	HYDROXIDE ALKALINITY		
Sample Collected:	08/05/1992	Findings:	15.400 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/23/1993	Findings:	2.900 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03/23/1993	Findings:	1.300 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03/23/1993	Findings:	1.100 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	07/20/1993	Findings:	2.100 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07/20/1993	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/20/1993	Findings:	1.200 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	09/14/1993	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/14/1993	Findings:	1.400 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/14/1993	Findings:	1.300 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	11/09/1993	Findings:	3.000 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	11/09/1993	Findings:	1.700 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11/09/1993	Findings:	1.500 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	08/23/1995	Findings:	945.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/23/1995	Findings:	8.000
Chemical:	PH (LABORATORY)		
Sample Collected:	08/23/1995	Findings:	285.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	08/23/1995	Findings:	347.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/23/1995	Findings:	2.300 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	08/23/1995	Findings:	351.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	08/23/1995	Findings:	78.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/23/1995	Findings:	38.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/23/1995	Findings:	75.000 MG/L
Chemical:	SODIUM		
Sample Collected:	08/23/1995	Findings:	2.600 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/23/1995	Findings:	58.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/23/1995	Findings:	.580 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	08/23/1995	Findings:	5.000 UG/L
Chemical:	ARSENIC		
Sample Collected:	08/23/1995	Findings:	570.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/23/1995	Findings:	1.000
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	08/23/1995	Findings:	.017 MG/L
Chemical:	HYDROXIDE ALKALINITY		
Sample Collected:	08/23/1995	Findings:	23.760 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/23/1995	Findings:	5400.000 UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	11/02/1995	Findings:	3.700 UG/L
Chemical:	BROMOFORM (THM)		
Sample Collected:	11/02/1995	Findings:	1.000 UG/L
Chemical:	DIBROMOCHLOROMETHANE (THM)		
Sample Collected:	11/02/1995	Findings:	4.700 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	03/29/1996	Findings:	25.080 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/26/1996	Findings:	24.640 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/19/1996	Findings:	25.080 MG/L
Chemical:	NITRATE (AS NO3)		

Sample Collected:	03/12/1997	Findings:	2.860 PCI/L
Chemical:	URANIUM		
Sample Collected:	03/12/1997	Findings:	.052 PCI/L
Chemical:	URANIUM COUNTING ERROR		
Sample Collected:	09/10/1997	Findings:	3.000 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/10/1997	Findings:	1.100 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/17/1997	Findings:	6.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12/17/1997	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/17/1997	Findings:	3.220 PCI/L
Chemical:	URANIUM		
Sample Collected:	12/17/1997	Findings:	.036 PCI/L
Chemical:	URANIUM COUNTING ERROR		

7
West
1/2 - 1 Mile
Lower

CA WELLS 4530

Water System Information:

Prime Station Code:	04N/16W-15R02 S	User ID:	4TH
FRDS Number:	1910240005	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	342530.0 1183220.0	Precision:	Undefined
Source Name:	WELL Q-2		
System Number:	1910240		
System Name:	VALENCIA WC		
Organization That Operates System:			
	28769 CASTAIC CANYON ROAD		
	VALENCIA 91355		
Pop Served:	46500	Connections:	13396
Area Served:	VALENCIA		

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	09/11/1989	Findings:	2.600 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/11/1989	Findings:	2.200 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11/14/1989	Findings:	.600 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	01/08/1990	Findings:	1.100 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	01/08/1990	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	02/26/1990	Findings:	.600 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02/26/1990	Findings:	.600 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	07/26/1990	Findings:	1010.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/26/1990	Findings:	7.900
Chemical:	PH (LABORATORY)		
Sample Collected:	07/26/1990	Findings:	300.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/26/1990	Findings:	362.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/26/1990	Findings:	2.090 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/26/1990	Findings:	367.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/26/1990	Findings:	104.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/26/1990	Findings:	25.700 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/26/1990	Findings:	65.600 MG/L
Chemical:	SODIUM		
Sample Collected:	07/26/1990	Findings:	3.600 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/26/1990	Findings:	60.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/26/1990	Findings:	.410 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	07/26/1990	Findings:	2.700 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07/26/1990	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/26/1990	Findings:	5.900 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	07/26/1990	Findings:	1.400 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	07/26/1990	Findings:	.700 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	07/26/1990	Findings:	630.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/26/1990	Findings:	.900
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	07/26/1990	Findings:	26.440 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/17/1991	Findings:	.600 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	10/14/1991	Findings:	1030.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/14/1991	Findings:	7.600
Chemical:	PH (LABORATORY)		
Sample Collected:	10/14/1991	Findings:	290.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/14/1991	Findings:	352.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/14/1991	Findings:	1.010 MG/L
Chemical:	CARBONATE ALKALINITY		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/14/1991	Findings:	335.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/14/1991	Findings:	84.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/14/1991	Findings:	30.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/14/1991	Findings:	66.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/14/1991	Findings:	3.900 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/14/1991	Findings:	68.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/14/1991	Findings:	.380 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/14/1991	Findings:	290.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/14/1991	Findings:	.500
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/14/1991	Findings:	28.160 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/21/1992	Findings:	.700 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	05/24/1993	Findings:	2.600 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05/24/1993	Findings:	.700 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	05/24/1993	Findings:	2.300 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	05/24/1993	Findings:	.600 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10/19/1994	Findings:	15.500 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10/19/1994	Findings:	810.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/19/1994	Findings:	7.600
Chemical:	FIELD PH		
Sample Collected:	10/19/1994	Findings:	7.600
Chemical:	PH (LABORATORY)		
Sample Collected:	10/19/1994	Findings:	248.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/19/1994	Findings:	302.600 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/19/1994	Findings:	312.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/19/1994	Findings:	87.300 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/19/1994	Findings:	21.700 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/19/1994	Findings:	52.500 MG/L
Chemical:	SODIUM		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/19/1994	Findings:	2.000 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/19/1994	Findings:	29.700 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/19/1994	Findings:	.700 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/19/1994	Findings:	459.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/19/1994	Findings:	1.070
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/19/1994	Findings:	.260
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	10/19/1994	Findings:	16.300 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/19/1994	Findings:	12.330
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10/19/1994	Findings:	3679.000 UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03/16/1995	Findings:	5.400 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03/16/1995	Findings:	2.100 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/21/1995	Findings:	3.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06/21/1995	Findings:	.900 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/21/1995	Findings:	3.000 PCI/L
Chemical:	URANIUM		
Sample Collected:	06/21/1995	Findings:	19.000 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/21/1995	Findings:	2.800 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/21/1995	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/27/1995	Findings:	17.600 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/27/1996	Findings:	18.500 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/06/1996	Findings:	19.300 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06/13/1996	Findings:	.170 PCI/L
Chemical:	RA 226 + RA 228		
Sample Collected:	06/13/1996	Findings:	.100 PCI/L
Chemical:	RA 226 + RA 228 COUNTING ERROR		
Sample Collected:	06/21/1996	Findings:	4.000 PCI/L
Chemical:	URANIUM		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
8 **WNW** **1/2 - 1 Mile** **Lower**		**FED USGS**	**USGS0170626**

Agency:	USGS	Site ID:	342546119321401
Site Name:	004N025W18G001S		
Dec. Latitude:	34.42944		
Dec. Longitude:	-118.53814		
Coord Sys:	NAD83		
State:	CA		
County:	Santa Barbara County		
Altitude:	700.00		
Hydrologic code:	18070102		
Topographic:	Not Reported		
Site Type:	Ground-water other than Spring		
Const Date:	Not Reported	Inven Date:	Not Reported
Well Type:	Single well, other than collector or Ranney type		
Primary Aquifer:	Not Reported		
Aquifer type:	Not Reported		
Well depth:	Not Reported		
Hole depth:	Not Reported	Source:	Not Reported
Project no:	Not Reported		

Ground-water levels, Number of Measurements: 0

A9 **NW** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**4528**

Water System Information:

Prime Station Code:	04N/16W-14E03 S	User ID:	4TH
FRDS Number:	1910017011	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	342600.0 1183200.0	Precision:	Undefined
Source Name:	METHODIST - INACTIVE		
System Number:	1910017		
System Name:	SANTA CLARITA WATER CO.		
Organization That Operates System:			
	P.O. BOX 903		
	SANTA CLARITA, CA 91380		
Pop Served:	49500	Connections:	19503
Area Served:	SAUGUS		

A10 **NW** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**4529**

Water System Information:

Prime Station Code:	04N/16W-14M04 S	User ID:	4TH
FRDS Number:	1910240006	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Abandoned
Source Lat/Long:	342600.0 1183200.0	Precision:	Undefined
Source Name:	WELL R-2 - ABANDONED		

System Number: 1910240
System Name: VALENCIA WC
Organization That Operates System:
28769 CASTAIC CANYON ROAD
VALENCIA 91355
Pop Served: 46500 Connections: 13396
Area Served: VALENCIA

A11
NW
1/2 - 1 Mile
Lower

CA WELLS 4527

Water System Information:

Prime Station Code:	04N/16W-14E01 S	User ID:	4TH
FRDS Number:	1910017003	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Destroyed
Source Lat/Long:	342600.0 1183200.0	Precision:	Undefined
Source Name:	CONDAVIER - DESTROYED		
System Number:	1910017		
System Name:	SANTA CLARITA WATER CO.		

Organization That Operates System:
P.O. BOX 903
SANTA CLARITA, CA 91380
Pop Served: 49500 Connections: 19503
Area Served: SAUGUS

12
ESE
1/2 - 1 Mile
Higher

CA WELLS 4549

Water System Information:

Prime Station Code:	04N/16W-24B02 S	User ID:	4TH
FRDS Number:	1910240018	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Untreated
Source Lat/Long:	342505.0 1183030.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL U-4		
System Number:	1910240		
System Name:	VALENCIA WC		

Organization That Operates System:
28769 CASTAIC CANYON ROAD
VALENCIA 91355
Pop Served: 46500 Connections: 13396
Area Served: VALENCIA

Sample Information: * Only Findings Above Detection Level Are Listed

Sample Collected:	09/11/1989	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/11/1989	Findings:	13.000 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	09/11/1989	Findings:	2.300 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	01/08/1990	Findings:	1.900 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	01/08/1990	Findings:	1.300 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	01/08/1990	Findings:	1.000 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	02/26/1990	Findings:	1.100 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	07/26/1990	Findings:	1480.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/26/1990	Findings:	8.100
Chemical:	PH (LABORATORY)		
Sample Collected:	07/26/1990	Findings:	310.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	07/26/1990	Findings:	371.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/26/1990	Findings:	3.780 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	07/26/1990	Findings:	596.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	07/26/1990	Findings:	170.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/26/1990	Findings:	40.900 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/26/1990	Findings:	88.300 MG/L
Chemical:	SODIUM		
Sample Collected:	07/26/1990	Findings:	4.700 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/26/1990	Findings:	70.200 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/26/1990	Findings:	.350 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	07/26/1990	Findings:	1.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	07/26/1990	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/26/1990	Findings:	4.300 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	07/26/1990	Findings:	2.000 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	07/26/1990	Findings:	1.400 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	07/26/1990	Findings:	1000.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/26/1990	Findings:	1.200
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	07/26/1990	Findings:	29.440 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/21/1991	Findings:	1520.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	02/21/1991	Findings:	7.500
Chemical:	PH (LABORATORY)		
Sample Collected:	02/21/1991	Findings:	295.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02/21/1991	Findings:	358.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	02/21/1991	Findings:	.920 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	02/21/1991	Findings:	642.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	02/21/1991	Findings:	180.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	02/21/1991	Findings:	46.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	02/21/1991	Findings:	95.000 MG/L
Chemical:	SODIUM		
Sample Collected:	02/21/1991	Findings:	4.700 MG/L
Chemical:	POTASSIUM		
Sample Collected:	02/21/1991	Findings:	77.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	02/21/1991	Findings:	.340 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	02/21/1991	Findings:	1000.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02/21/1991	Findings:	.600
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	02/21/1991	Findings:	28.160 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04/17/1991	Findings:	.600 UG/L
Chemical:	1,1,1-TRICHLOROETHANE		
Sample Collected:	10/14/1991	Findings:	1670.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/14/1991	Findings:	7.800
Chemical:	PH (LABORATORY)		
Sample Collected:	10/14/1991	Findings:	305.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/14/1991	Findings:	368.000 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/14/1991	Findings:	1.950 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	10/14/1991	Findings:	709.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/14/1991	Findings:	200.000 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/14/1991	Findings:	50.000 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/14/1991	Findings:	105.000 MG/L
Chemical:	SODIUM		
Sample Collected:	10/14/1991	Findings:	5.700 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/14/1991	Findings:	87.000 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/14/1991	Findings:	.330 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/14/1991	Findings:	1150.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/14/1991	Findings:	1.000
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/14/1991	Findings:	29.480 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01/26/1993	Findings:	.700 UG/L
Chemical:	DICHLOROMETHANE		
Sample Collected:	10/19/1994	Findings:	17.000 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10/19/1994	Findings:	800.000 UMHO
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/19/1994	Findings:	7.500
Chemical:	FIELD PH		
Sample Collected:	10/19/1994	Findings:	7.500
Chemical:	PH (LABORATORY)		
Sample Collected:	10/19/1994	Findings:	224.000 MG/L
Chemical:	TOTAL ALKALINITY (AS CACO3)		
Sample Collected:	10/19/1994	Findings:	273.300 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/19/1994	Findings:	278.000 MG/L
Chemical:	TOTAL HARDNESS (AS CACO3)		
Sample Collected:	10/19/1994	Findings:	75.300 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/19/1994	Findings:	19.800 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/19/1994	Findings:	63.700 MG/L
Chemical:	SODIUM		
Sample Collected:	10/19/1994	Findings:	3.300 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/19/1994	Findings:	27.700 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/19/1994	Findings:	.900 MG/L
Chemical:	FLUORIDE (TEMPERATURE DEPENDENT)		
Sample Collected:	10/19/1994	Findings:	453.000 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/19/1994	Findings:	.850
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	10/19/1994	Findings:	.080
Chemical:	LANGELIER INDEX @ SOURCE TEMP.		
Sample Collected:	10/19/1994	Findings:	14.900 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10/19/1994	Findings:	12.120
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10/19/1994	Findings:	3363.000 UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	03/29/1995	Findings:	2.000 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	03/29/1995	Findings:	1.100 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06/14/1995	Findings:	2.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	06/14/1995	Findings:	1.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/14/1995	Findings:	17.900 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/20/1995	Findings:	809.000 UG/L
Chemical:	BORON		
Sample Collected:	09/20/1995	Findings:	2.500 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	09/20/1995	Findings:	.800 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/27/1995	Findings:	20.100 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12/13/1995	Findings:	865.000 UG/L
Chemical:	BORON		
Sample Collected:	12/13/1995	Findings:	2.800 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	12/13/1995	Findings:	.900 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/13/1995	Findings:	17.900 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/27/1996	Findings:	19.300 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09/17/1997	Findings:	2.950 PCI/L
Chemical:	URANIUM		
Sample Collected:	09/17/1997	Findings:	.054 PCI/L
Chemical:	URANIUM COUNTING ERROR		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Direction Distance	Database	EDR ID Number

North
1 - 2 Miles — **OIL_GAS** — **CA00012294**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705657	Operator:	Milham Exploration Company
Latitude:	34.444819	Longitude:	-118.526004
Region:	2	Lease:	Conroy
Section:	11	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
1 - 2 Miles — **OIL_GAS** — **CA00010292**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705847	Operator:	Saugus Development Company
Latitude:	34.441472	Longitude:	-118.525477
Region:	2	Lease:	Saugus
Section:	11	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NW
1 - 2 Miles — **OIL_GAS** — **CA00008955**

Well Number:	G-4	Status:	Plugged and abandoned-dry hole
API Number:	03706099	Operator:	Texaco E & P Inc
Latitude:	34.440989	Longitude:	-118.551413
Region:	2	Lease:	N. L. & F.
Section:	10	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
1 - 2 Miles — **OIL_GAS** — **CA00010471**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706269	Operator:	Roy W. Young, Inc
Latitude:	34.440595	Longitude:	-118.521895
Region:	2	Lease:	Walker
Section:	11	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Direction Distance	Database	EDR ID Number

North
1 - 2 Miles

OIL_GAS **CA00012295**

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03705658	Operator:	Milham Exploration Company
Latitude:	34.440386	Longitude:	-118.524725
Region:	2	Lease:	Conroy
Section:	11	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NW
1 - 2 Miles

OIL_GAS **CA00008704**

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03705720	Operator:	The Newhall Land & Farming Co
Latitude:	34.438860	Longitude:	-118.546293
Region:	2	Lease:	Neaves-Nl&f
Section:	10	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1 - 2 Miles

OIL_GAS **CA00008404**

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03701122	Operator:	Union Oil Co of Ca
Latitude:	34.437298	Longitude:	-118.531773
Region:	2	Lease:	Bonelli
Section:	14	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
1/2 - 1 Mile

OIL_GAS **CA00013785**

Well Number:	B-2	Status:	Plugged and abandoned-dry hole-directional
API Number:	03701119	Operator:	Edward Lustgarten
Latitude:	34.434065	Longitude:	-118.523953
Region:	2	Lease:	Lucky Lusty
Section:	14	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Direction Distance	Database	EDR ID Number

North
1/2 - 1 Mile — **OIL_GAS** — **CA00010322**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03701120	Operator:	Santa Clara Petroleum
Latitude:	34.433778	Longitude:	-118.526877
Region:	2	Lease:	Verda
Section:	14	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — **OIL_GAS** — **CA00008937**

Well Number:	A-3	Status:	Plugged and abandoned-dry hole
API Number:	03716748	Operator:	Texaco E & P Inc
Latitude:	34.433698	Longitude:	-118.551083
Region:	2	Lease:	Newhall
Section:	15	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1/2 - 1 Mile — **OIL_GAS** — **CA00012970**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03701123	Operator:	Ivan Vojvoda & A. George
Latitude:	34.433053	Longitude:	-118.528104
Region:	2	Lease:	George
Section:	14	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — **OIL_GAS** — **CA00012906**

Well Number:	B-1	Status:	Plugged and abandoned oil
API Number:	03716750	Operator:	James C Thomas III
Latitude:	34.432465	Longitude:	-118.554135
Region:	2	Lease:	N. L. & F.
Section:	15	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Direction Distance	Database	EDR ID Number

WNW
1 - 2 Miles — **OIL_GAS** — **CA00012909**

Well Number:	B-4	Status:	Plugged and abandoned oil
API Number:	03716752	Operator:	James C Thomas III
Latitude:	34.432322	Longitude:	-118.550300
Region:	2	Lease:	N. L. & F.
Section:	15	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNE
1/2 - 1 Mile — **OIL_GAS** — **CA00009069**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706066	Operator:	Texaco E & P Inc
Latitude:	34.432056	Longitude:	-118.517638
Region:	2	Lease:	Bonelli
Section:	13	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1/2 - 1 Mile — **OIL_GAS** — **CA00015125**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03701114	Operator:	CD Cunningham & HH MacAuley
Latitude:	34.430964	Longitude:	-118.526977
Region:	2	Lease:	Bonelli
Section:	14	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — **OIL_GAS** — **CA00008315**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03716754	Operator:	Union Oil Co of Ca
Latitude:	34.430772	Longitude:	-118.542444
Region:	2	Lease:	Newhall-Saugus
Section:	15	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Direction Distance	Database	EDR ID Number

NNW
1/2 - 1 Mile — **OIL_GAS** — **CA00015126**

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03701115	Operator:	CD Cunningham & HH MacAuley
Latitude:	34.430359	Longitude:	-118.527073
Region:	2	Lease:	Bonelli
Section:	14	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — **OIL_GAS** — **CA00012741**

Well Number:	1	Status:	Plugged and abandoned-dry hole-directional
API Number:	03723294	Operator:	Lammerts Oil Co
Latitude:	34.430076	Longitude:	-118.543860
Region:	2	Lease:	Newhall Resources
Section:	15	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — **OIL_GAS** — **CA00012907**

Well Number:	B-2	Status:	Plugged and abandoned oil
API Number:	03716751	Operator:	James C Thomas III
Latitude:	34.429814	Longitude:	-118.549394
Region:	2	Lease:	N. L. & F.
Section:	15	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — **OIL_GAS** — **CA00008312**

Well Number:	B-5	Status:	Plugged and abandoned-dry hole
API Number:	03716753	Operator:	Union Oil Co of Ca
Latitude:	34.429043	Longitude:	-118.545843
Region:	2	Lease:	N. L. & F.
Section:	15	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Direction Distance	Database	EDR ID Number

WNW
1/2 - 1 Mile

OIL_GAS **CA00008932**

Well Number:	H-2	Status:	Plugged and abandoned-dry hole
API Number:	03716747	Operator:	Texaco E & P Inc
Latitude:	34.428955	Longitude:	-118.536821
Region:	2	Lease:	N. L. & F.
Section:	14	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
1/4 - 1/2 Mile

OIL_GAS **CA00013784**

Well Number:	4	Status:	Plugged and abandoned-dry hole
API Number:	03701118	Operator:	Edward Lustgarten
Latitude:	34.428629	Longitude:	-118.525033
Region:	2	Lease:	Lucky Lusty
Section:	14	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ENE
1 - 2 Miles

OIL_GAS **CA00015618**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705347	Operator:	B. C. Despain
Latitude:	34.428427	Longitude:	-118.501290
Region:	2	Lease:	Furnivall
Section:	18	Township:	04N
Range:	15W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles

OIL_GAS **CA00013279**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705903	Operator:	H. L. Shepard & Sons, Operato
Latitude:	34.427762	Longitude:	-118.491986
Region:	2	Lease:	Guglielmino
Section:	18	Township:	04N
Range:	15W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Direction Distance	Database	EDR ID Number

NW
1/4 - 1/2 Mile — **OIL_GAS** — **CA00008403**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03701121	Operator:	Union Oil Co of Ca
Latitude:	34.427481	Longitude:	-118.528651
Region:	2	Lease:	Bonelli
Section:	14	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1/4 - 1/2 Mile — **OIL_GAS** — **CA00013782**

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03701116	Operator:	Edward Lustgarten
Latitude:	34.427155	Longitude:	-118.527646
Region:	2	Lease:	Lucky Lusty
Section:	14	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — **OIL_GAS** — **CA00008938**

Well Number:	A-4	Status:	Plugged and abandoned-dry hole
API Number:	03716749	Operator:	Texaco E & P Inc
Latitude:	34.426637	Longitude:	-118.544591
Region:	2	Lease:	Newhall
Section:	15	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — **OIL_GAS** — **CA00012908**

Well Number:	B-3	Status:	140
API Number:	03700125	Operator:	James C Thomas III
Latitude:	34.426247	Longitude:	-118.547767
Region:	2	Lease:	N. L. & F.
Section:	15	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction Distance	Database	EDR ID Number

NW
1/8 - 1/4 Mile — **OIL_GAS** — **CA00013783**

Well Number:	3	Status:	Plugged and abandoned-dry hole
API Number:	03701117	Operator:	Edward Lustgarten
Latitude:	34.425045	Longitude:	-118.527084
Region:	2	Lease:	Lucky Lusty
Section:	14	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1/4 - 1/2 Mile — **OIL_GAS** — **CA00008961**

Well Number:	H-1	Status:	Plugged and abandoned-dry hole
API Number:	03706104	Operator:	Texaco E & P Inc
Latitude:	34.418335	Longitude:	-118.518894
Region:	2	Lease:	N. L. & F.
Section:	24	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WSW
1 - 2 Miles — **OIL_GAS** — **CA00008310**

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03706183	Operator:	Union Oil Co of Ca
Latitude:	34.417426	Longitude:	-118.549735
Region:	2	Lease:	N. L. & F.
Section:	22	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WSW
1/2 - 1 Mile — **OIL_GAS** — **CA00012261**

Well Number:	14-23	Status:	Plugged and abandoned-dry hole
API Number:	03706041	Operator:	Mobil Oil Corp
Latitude:	34.417370	Longitude:	-118.535903
Region:	2	Lease:	Bonelli
Section:	23	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Direction Distance	Database	EDR ID Number

ESE
1 - 2 Miles — **OIL_GAS** — **CA00014324**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705289	Operator:	Coast Exploration Company
Latitude:	34.417023	Longitude:	-118.502990
Region:	2	Lease:	Golden Triangle
Section:	24	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1/2 - 1 Mile — **OIL_GAS** — **CA00014230**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03722335	Operator:	Conoco Inc
Latitude:	34.413866	Longitude:	-118.530001
Region:	2	Lease:	Georgino-Swanson
Section:	23	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — **OIL_GAS** — **CA00014325**

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03705290	Operator:	Coast Exploration Company
Latitude:	34.413138	Longitude:	-118.498472
Region:	2	Lease:	Golden Triangle
Section:	19	Township:	04N
Range:	15W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1/2 - 1 Mile — **OIL_GAS** — **CA00014291**

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03705299	Operator:	Community Oil Producers
Latitude:	34.412943	Longitude:	-118.524344
Region:	2	Lease:	Well No.
Section:	23	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Direction Distance	Database	EDR ID Number

South
1/2 - 1 Mile — **OIL_GAS** — **CA00014290**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705298	Operator:	Community Oil Producers
Latitude:	34.412754	Longitude:	-118.523873
Region:	2	Lease:	Well No.
Section:	23	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — **OIL_GAS** — **CA00008943**

Well Number:	E-1	Status:	Plugged and abandoned-dry hole
API Number:	03706110	Operator:	Texaco E & P Inc
Latitude:	34.411167	Longitude:	-118.544530
Region:	2	Lease:	Newhall
Section:	22	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles — **OIL_GAS** — **CA00009125**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706062	Operator:	Terminal Drilling Company
Latitude:	34.410580	Longitude:	-118.506022
Region:	2	Lease:	Independent-Ghiggia
Section:	24	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles — **OIL_GAS** — **CA00006188**

Well Number:	1	Status:	Plugged and abandoned oil-directional
API Number:	03722955	Operator:	Western Discovery USA, Inc.
Latitude:	34.407718	Longitude:	-118.506563
Region:	2	Lease:	T. B.
Section:	25	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Direction Distance	Database	EDR ID Number

SSE
1 - 2 Miles — **OIL_GAS** — **CA00008398**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706167	Operator:	Union Oil Co of Ca
Latitude:	34.407402	Longitude:	-118.511970
Region:	2	Lease:	Bermite
Section:	25	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles — **OIL_GAS** — **CA00008580**

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03723518	Operator:	The Termo Company
Latitude:	34.405168	Longitude:	-118.504085
Region:	2	Lease:	T. B.
Section:	25	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012236**

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03705668	Operator:	Mobil Oil Corp
Latitude:	34.404516	Longitude:	-118.520791
Region:	2	Lease:	Circle J
Section:	26	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1 - 2 Miles — **OIL_GAS** — **CA00010510**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705811	Operator:	Rothschild Oil Company
Latitude:	34.404442	Longitude:	-118.515938
Region:	2	Lease:	Bermite
Section:	25	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Direction Distance	Database	EDR ID Number

SSW
1 - 2 Miles

OIL_GAS **CA00012181**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705671	Operator:	Mobil Oil Corp
Latitude:	34.403947	Longitude:	-118.537313
Region:	2	Lease:	H&M
Section:	27	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles

OIL_GAS **CA00010716**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705781	Operator:	R.A. Provost Associates
Latitude:	34.403487	Longitude:	-118.507043
Region:	2	Lease:	Protrana
Section:	25	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1 - 2 Miles

OIL_GAS **CA00012258**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705666	Operator:	Mobil Oil Corp
Latitude:	34.402951	Longitude:	-118.511414
Region:	2	Lease:	Bermite
Section:	25	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles

OIL_GAS **CA00012235**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705667	Operator:	Mobil Oil Corp
Latitude:	34.395276	Longitude:	-118.527584
Region:	2	Lease:	Circle J
Section:	26	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
91350	27	0	0.00

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002. 7.5-Minute DEMs correspond to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 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 from the U.S. Fish and Wildlife Service.

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 Services
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.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

California Drinking Water Quality Database
Source: Department of Health Services
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations for District 2, 3, 5 and 6
Source: Department of Conservation
Telephone: 916-323-1779

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.

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.

AIR QUALITY IMPACT ANALYSIS
GOLDEN VALLEY ROAD BRIDGE
SANTA CLARITA, CALIFORNIA

EA No. 932589

Prepared for:

City of Santa Clarita
23920 Valencia Boulevard, Suite 300
Santa Clarita, California 91355

and

U.S. Federal Highway Administration
c/o California Department of Transportation
District 7, Office of Local Programs
700 North Alameda Street, 4th Floor
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May 2007

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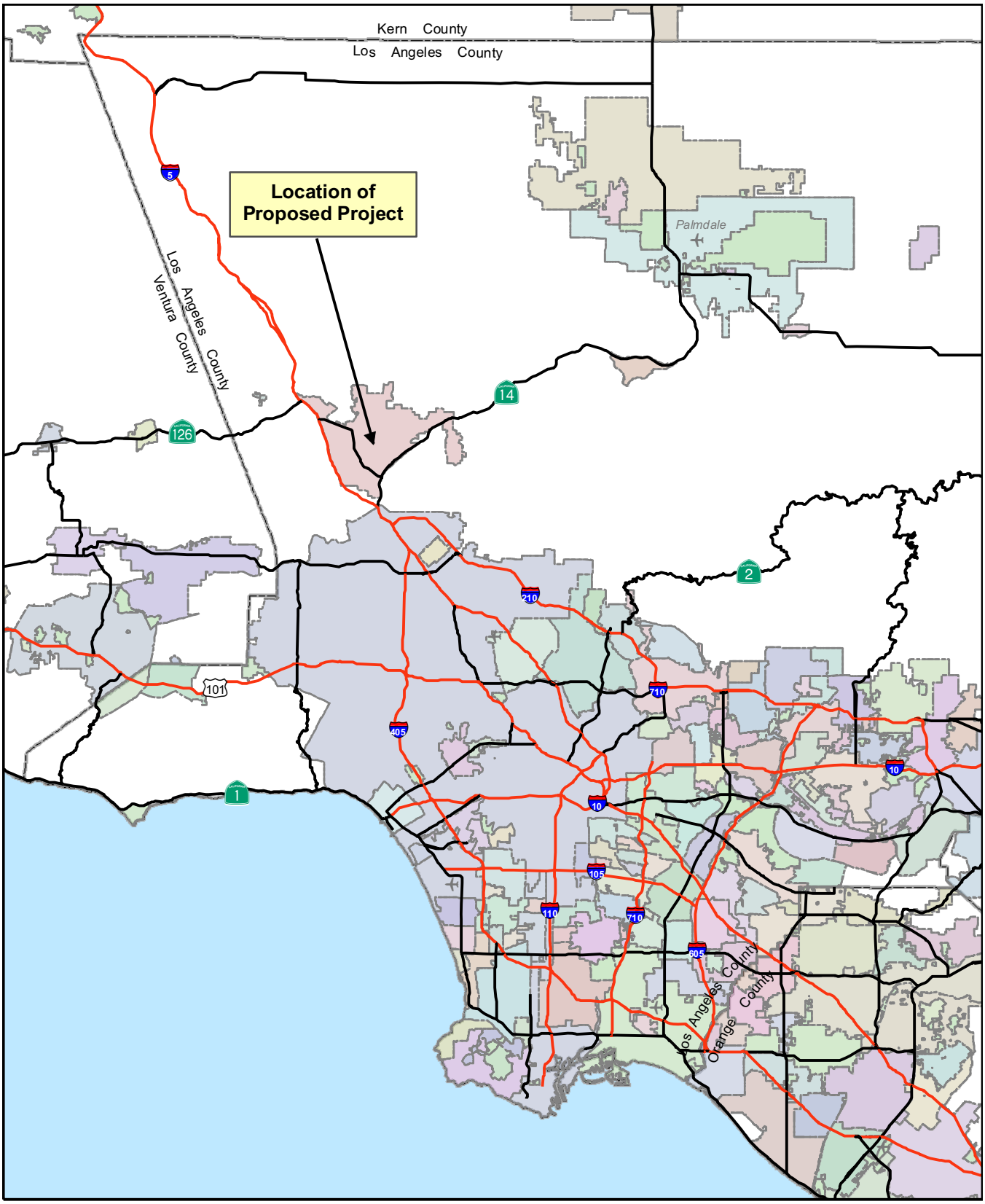
SECTION 1.0
INTRODUCTION

1.1 INTRODUCTION

This Air Quality Impact Analysis has been prepared for the proposed Golden Valley Road Bridge Project. The City of Santa Clarita (City) is proposing to construct a bridge spanning the Santa Clara River. The proposed bridge would be located entirely within the City of Santa Clarita. The study area extends from the eastern-most extent of Newhall Ranch Road to the northern-most extent of the Golden Valley Road/Soledad Canyon Road Interchange. Figures 1 and 2 show a regional map and a project vicinity map, respectively.

EDAW, Inc. (EDAW) submitted an Air Quality Impact Analysis for the proposed Cross Valley Connector East project in August 2005. At that time, the proposed project consisted of the extension of Newhall Ranch Road by approximately 2 miles from its existing terminus at Bouquet Canyon Road to a future intersection with Golden Valley Road, and the extension of Golden Valley Road southwards to terminate approximately 2,000 feet north of Soledad Canyon Road at the terminus of the Golden Valley Road bridge project. The project scope has since been reduced in geographic extent to consist only of construction of the Golden Valley Road bridge, which is an approximate 1,100-foot-long bridge spanning the Santa Clara River.

The roadway segments of the original project were removed from the project, such that the project now consists of only the bridge over the Santa Clara River. This air quality analysis was prepared as a result of findings in the Preliminary Environmental Study (PES; 2006) that evaluated the project at a broad level to determine the technical studies and environmental document needed. The PES was prepared by the City of Santa Clarita and signed by the California Department of Transportation (Caltrans) and Federal Highways Administration (FHWA). This air quality study will describe the existing air quality, identify applicable rules and regulations, identify potential air quality impacts of the proposed roadway, identify measures to mitigate or minimize pollutant emissions associated with the proposed project, and demonstrate conformity of the proposed project to the State Implementation Plan (SIP), as required by the Clean Air Act. The study also analyzes impacts as required by the California Environmental Quality Act (CEQA).



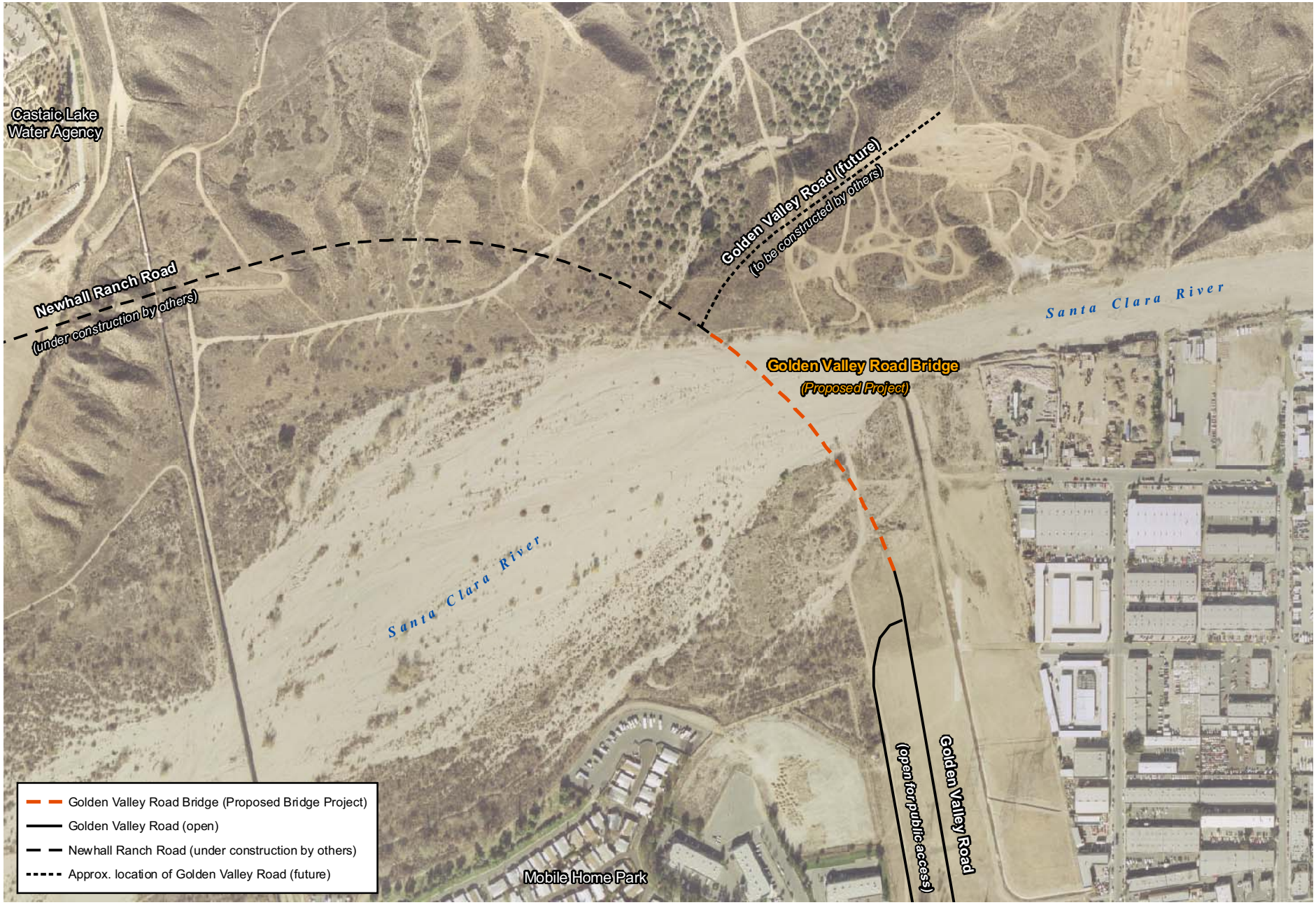
Source: California Geospatial Information Library, 2003-2005

Figure 1
Regional Location Map

N

0 5 10 20 Miles

1 inch equals 10 miles



Source: City of Santa Clarita, 2002, 2005

0 125 250 500 750 1,000 Feet

1 inch equals 500 feet

N

Figure 2
Vicinity Map

1.2 PROJECT DESCRIPTION

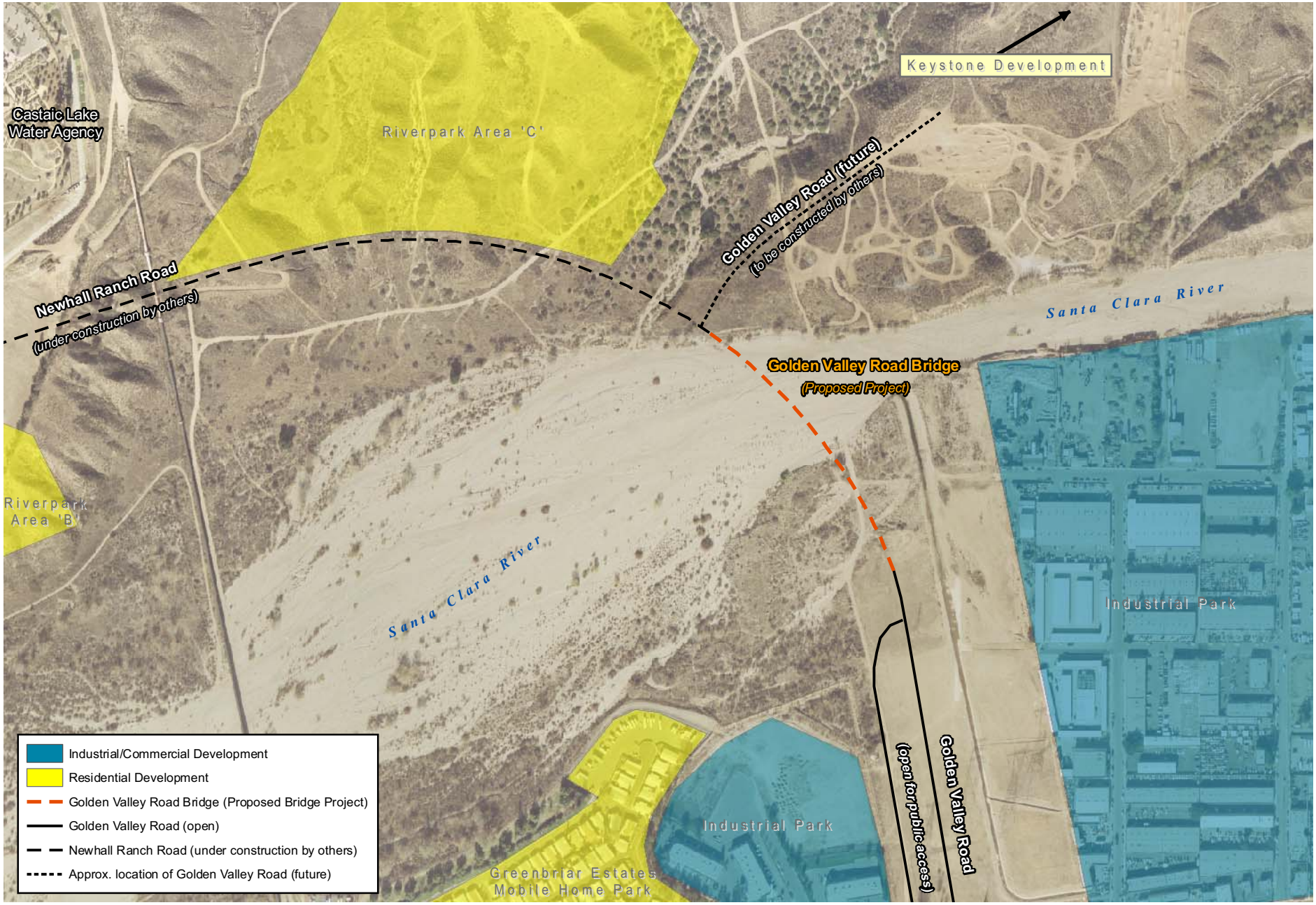
The City of Santa Clarita is proposing to construct the 1,100-foot-long Golden Valley Road bridge over the Santa Clara River (Figure 3). The proposed bridge would connect the extension of Newhall Ranch Road, which is currently under construction northwest of the proposed project, to Golden Valley Road, south of the project site. The northern terminus of the proposed project would be the eastern-most extent of Newhall Ranch Road. Grading for the majority of Newhall Ranch Road is complete, and construction is expected to be complete between October 2007 and April 2008. The southern terminus of the proposed project would lie at the northern-most extent of the Golden Valley Road/Soledad Canyon Road Interchange, which has recently been completed and is now open for public access. The proposed project would complete a critical eastern segment of the Cross Valley Connector Project, which is included in the City's General Plan Circulation Element.

The proposed typical section of the proposed bridge would include a six-lane roadway with a 14-foot median island and pedestrian and bicycle lanes. Generally, the total curb-to-curb width would be approximately 90 feet with a total ROW width of approximately 120 feet.

The proposed bridge, along with other approved segments and intersection improvements under construction, will complete the Cross Valley Connector. The Cross Valley Connector will significantly increase east-west roadway capacity between the I-5/SR 126 and SR 14, thereby providing relief to currently congested arterial roadways.

1.3 SUMMARY

The project site is located in the South Coast Air Basin (SCAB). The Los Angeles County portion of the air basin is currently classified as a severe 17 nonattainment area for federal 8-hour ozone (O_3) standard and nonattainment for state O_3 standards. Carbon monoxide (CO) is currently classified as serious nonattainment for the federal standard; however, redesignation to attainment was submitted to the U.S. Environmental Protection Agency (EPA) for approval in February 2006. The basin is classified as attainment for the state CO standard. For respirable particulate matter sized 10 microns or less in diameter (PM_{10}), the basin is currently classified as serious nonattainment for the federal standard and nonattainment for the state standard. For fine particulate matter sized 2.5 microns or less in diameter ($PM_{2.5}$) the basin is classified as nonattainment for the federal and state standard. The air basin currently meets the federal and state standards for nitrogen dioxide (NO_2), sulfur dioxide (SO_2), and lead (Pb) and is classified as an attainment area for these pollutants.



Source: City of Santa Clarita, 2002, 2005

0 125 250 500 750 1,000 Feet
1 inch equals 500 feet
N

Figure 3
Existing and Planned Development

The Clean Air Act requires a demonstration that federal actions conform to the SIP and similar approved plans in areas that are designated as nonattainment or maintenance. Transportation measures, such as the proposed action, are analyzed for conformity as part of regional transportation plans (RTPs) and regional transportation improvement programs (RTIPs). The RTIP is the implementing document for the RTP. The Southern California Association of Governments (SCAG) prepares both plans, and an air quality analysis of the RTIP. The proposed project is included in the 2006 RTIP. The project is identified as Santa Clarita Project No. LA0B0103, and is described as "Golden Valley Road from Soledad Canyon to Newhall Ranch Road .0 to 6 lanes, less than 0.5 miles. Includes bridge over Santa Clara River" (SCAG 2006). The 2006 RTIP was approved by the FHWA and FTA on October 2, 2006, and the U.S. Department of Transportation (USDOT) adopted a Clean Air Act conformity determination for the RTIP on that date (USDOT 2006). The regional air quality emissions of the RTIP and RTP were analyzed and found to conform with the SIP, and the analysis was approved by the FHWA and FTA. Therefore, the regional emissions of the proposed project conform to the 2006 RTIP and RTP. Detailed information relative to project entries in the RTP and RTIP is included in Section 5.1 of this report.

Analysis of local carbon monoxide (CO) and particulate impacts is also required to demonstrate conformity. Analysis of CO impacts in accordance with the *Transportation Project-Level Carbon Monoxide Protocol* shows that the project is satisfactory for local CO impacts. In accordance with *Particulate Matter and Transportation Projects, An Analysis Protocol*, there would be no local PM_{10} impact because there would be no receptors within 100 meters of the proposed project (Caltrans 2005.) According to the March 2006 EPA rule relative to local $PM_{2.5}$ analysis for transportation projects, particulate impacts are of concern only on projects defined as "projects of air quality concern." The Golden Valley Road Bridge project was determined to be not a project of air quality concern, and local particulate emissions would be acceptable.

The SCAG air quality analysis addresses long-term effects of transportation improvements, which is required to demonstrate conformity with the Clean Air Act. In addition, the City of Santa Clarita is required to analyze the environmental impacts in accordance with CEQA. Therefore, discussions of construction emissions, potential impacts, and measures to avoid or minimize the impacts are included in this analysis. These emissions would be temporary and would cease at the completion of construction activities.

SECTION 2.0
AIR POLLUTANTS

"Air pollution" is a general term that refers to one or more chemical substances that degrade the quality of the atmosphere. Individual air pollutants may adversely affect human or animal health, reduce visibility, damage property, and reduce the productivity or vigor of crops and natural vegetation.

Seven air pollutants have been identified by the U.S. Environmental Protection Agency (EPA) as being of concern nationwide: CO, O_3, NO_2, PM_{10} (also called respirable particulate and suspended particulate), $PM_{2.5}$ (fine particulate matter), SO_2, and Pb. These pollutants are collectively referred to as criteria pollutants. A brief description of each of these pollutants is provided below.

2.1 CARBON MONOXIDE (CO)

CO is a colorless and odorless gas, which, in the urban environment, is associated primarily with the incomplete combustion of fossil fuels in motor vehicles. Relatively high concentrations are typically found near crowded intersections and along heavily traveled roadways carrying slow-moving traffic. Even under the most severe meteorological and traffic conditions, high concentrations of CO are limited to locations within a relatively short distance (91.4 to 182.9 meters [300 to 600 feet]) of heavily traveled roadways. Overall CO emissions are decreasing as a result of the Federal Motor Vehicle Control Program, which has mandated increasingly lower emission levels for vehicles manufactured since 1973. CO concentrations are typically higher in winter. As a result, California has required the use of oxygenated gasoline in the winter months to reduce CO emissions. CO interferes with the transfer of oxygen to the blood. It may cause dizziness and fatigue and can impair central nervous system functions.

2.2 OZONE (O_3)

The most pervasive air quality problem in the South Coast Air Basin is high O_3 concentrations. O_3 is the principal component of smog and is formed in the atmosphere through a complex series of photochemical reactions involving reactive organic compounds (ROC) and NO_X, which are commonly referred to as precursors of O_3 and are both considered critical in O_3 formation. NO_X includes various combinations of nitrogen and oxygen, including NO, NO_2, NO_3, etc. Significant O_3 production generally requires about 3 hours in a stable atmosphere with strong

sunlight. O_3 is a regional air pollutant because it is transported and diffused by wind concurrent with the photochemical reaction process. Motor vehicles are the major source of O_3 precursors in the air basin. During late spring, summer, and early fall, light winds, low mixing heights, and abundant sunshine combine to produce conditions favorable for maximum production of O_3. O_3 causes eye and respiratory irritation, reduces resistance to lung infection, and may aggravate pulmonary conditions in persons with lung disease. O_3 is also damaging to vegetation and untreated rubber. Control strategies for O_3 have focused on reducing emissions from vehicles, industrial processes using solvents and coatings, and consumer products (e.g., cleaning products and aerosol-propelled products).

2.3 NITROGEN DIOXIDE (NO_2)

There are two oxides of nitrogen that are important in air pollution: nitric oxide (NO) and NO_2. NO, along with some NO_2, is emitted from motor vehicle engines, power plants, refineries, industrial boilers, ships, aircraft, and railroads. NO_2 is primarily formed when NO reacts with atmospheric oxygen in the presence of ROC and sunlight; the other product of this reaction is O_3, as discussed above. NO_2 is the "whiskey brown"-colored gas, more commonly known as smog, readily observed during periods of heavy air pollution. NO_2 increases damage from respiratory disease and irritation and may reduce resistance to certain infections.

2.4 RESPIRABLE PARTICULATE MATTER (PM_{10})

Respirable particulate matter refers to particulates equal to or less than 10 microns in diameter – those that can be inhaled and cause health effects. Particulates in the atmosphere result from many kinds of dust- and fume-producing industrial and agricultural operations, combustion, and atmospheric photochemical reactions. Demolition, construction, and vehicular traffic are major sources of particulates in urban areas. Natural sources of particulates include windblown dust and ocean spray. Very small particulates of certain substances can cause direct lung damage or can contain absorbed gasses that may be injurious. Particulates can also damage materials and reduce visibility. Control of PM_{10} is achieved through the control of dust at construction sites, the cleaning of paved roads, and the wetting or paving of frequently used unpaved roads.

2.5 FINE PARTICULATE MATTER ($PM_{2.5}$)

The sources, health effects, and control of $PM_{2.5}$ are similar to those of PM_{10}. In 1997, the EPA determined that the health effects of $PM_{2.5}$ were severe enough to warrant an additional standard, and standards for $PM_{2.5}$ became effective on September 15, 1997. The U.S. Supreme Court

affirmed the standards, and policies and systems to implement these new standards. Formal attainment classifications for $PM_{2.5}$ were formally published on December 17, 2004, by EPA. The SCAB is a nonattainment area for $PM_{2.5}$. The CARB must submit a $PM_{2.5}$ SIP to the EPA by April 5, 2008. The $PM_{2.5}$ attainment year for the SCAB is 2010, with a possible five year extension to 2015 (SCAG 2006c).

2.6 SULFUR DIOXIDE (SO_2)

SO_2 is a combustion product, with the primary source being power plants and heavy industry that use coal or oil as fuel. SO_2 is also a product of diesel engine combustion. The health effects of SO_2 include lung disease and breathing problems for asthmatics. SO_2 in the atmosphere contributes to the formation of acid rain. In the South Coast Air Basin, there is relatively little use of coal and oil, and SO_2 is of lesser concern than in many other parts of the country.

2.7 LEAD (Pb)

Pb is a stable compound that persists and accumulates both in the environment and in animals. The Pb used in gasoline anti-knock additives represent a major source of Pb emissions to the atmosphere. However, Pb emissions have significantly decreased due to the near elimination of the use of leaded gasoline.

The criteria pollutants that are most important for this air quality impact analysis are those that can be traced principally to motor vehicles and construction equipment. Of these pollutants, CO, ROC, NO_X, and PM_{10} are evaluated on a regional or "mesoscale" basis. CO is often analyzed on a localized or "microscale" basis in cases of congested traffic conditions. Although PM_{10} has very localized effects, there is no EPA-approved methodology to evaluate microscale impacts of PM_{10}. Methods for analysis of PM_{10} and $PM_{2.5}$ are anticipated within the next few years.

2.8 TOXIC AIR CONTAMINANTS – MOBILE SOURCE AIR TOXICS

In addition to the criteria air pollutants for which there are NAAQS, EPA also regulates toxic air contaminants (TAC) also known as hazardous air pollutants. Concentrations of TACs are also used as indicators of ambient-air-quality conditions. A TAC is defined as an air pollutant that may cause or contribute to an increase in mortality or in serious illness, or that may pose a hazard to human health. TACs are usually present in minute quantities in the ambient air; however, their high toxicity or health risk may pose a threat to public health even at low concentrations. In general, for those TACs that may cause cancer, there is no concentration that

does not present some risk. In other words, there is no threshold level below which adverse health impacts may not be expected to occur. This contrasts with the criteria air pollutants for which acceptable levels of exposure can be determined and for which the ambient standards have been established (See Table 1 in Section 3.2). Most TACs originate from human-made sources, including on-road mobile sources, non-road mobile sources (e.g., airplanes), area sources (e.g., dry cleaners) and stationary sources (e.g., factories or refineries).

The Clean Air Act identified 188 TACs. The EPA has assessed this expansive list of toxics and identified a group of 21 as Mobile Source Air Toxics (MSATs). The MSATs are compounds emitted from highway vehicles and non-road equipment. Some toxic compounds are present in fuel and are emitted to the air when the fuel evaporates or passes through the engine unburned. Other toxics are emitted from the incomplete combustion of fuels or as secondary combustion products. Metal air toxics also result from engine wear or from impurities in oil or gasoline. The EPA also extracted a subset of this list of 21 compounds that it now labels as the six priority MSATs. These are *benzene, formaldehyde, acetaldehyde, diesel particulate matter/diesel exhaust organic gases, acrolein, and 1,3-butadiene*. While these MSATs are considered the priority transportation toxics, the EPA stresses that the lists are subject to change and may be adjusted in future rules (FHWA 2006a).

The EPA has issued a number of regulations that will dramatically decrease MSATs through cleaner fuels and cleaner engines. According to an FHWA analysis, even if the number of vehile miles traveled increases by 64 percent, reductions of 57 percent to 87 percent in MSATs are projected from 2000 to 2020. Project MSAT impacts are discussed in Section 5.1 of this report.

According to the 2006 California Almanac of Emissions and Air Quality (CARB 2006a), the majority of the estimated health risk from TACs can be attributed to relatively few compounds, the most important being PM from diesel-fueled engines (diesel PM). Diesel PM differs from other TACs in that it is not a single substance, but rather a complex mixture of hundreds of substances. Although diesel PM is emitted by diesel-fueled internal combustion engines, the composition of the emissions varies depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emission control system is present. Unlike the other TACs, no ambient monitoring data are available for diesel PM because no routine measurement method currently exists. However, the CARB has made preliminary concentration estimates based on a PM exposure method. This method uses CARB emissions inventory's PM_{10} database, ambient PM_{10} monitoring data, and the results from several studies to estimate concentrations of diesel PM. In addition to diesel PM, benzene, 1,3-butadiene, acetaldehyde, carbon tetrachloride, hexavalent chromium, *para*-dichlorobenzene, formaldehyde, methylene chloride, and

perchloroethylene pose the greatest existing ambient risk, for which data are available, in California.

Diesel PM poses the greatest health risk among these ten TACs mentioned. Based on receptor modeling techniques, the ARB estimated the diesel PM health risk in 2000 to be 720 excess cancer cases per million people in the SCAB. Since 1990, the diesel PM's health risk in the SCAB has been reduced by one-third. Overall, levels of most TACs have gone down since 1990 except for *para*-dichlorobenzene and formaldehyde (CARB 2006a).

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SECTION 3.0
APPLICABLE STANDARDS

3.1 FEDERAL AND STATE STANDARDS

The federal Clean Air Act (42 U.S.C. §§ 7401-7671q) requires the adoption of national ambient air quality standards (NAAQS) to protect public health and welfare from the effects of air pollution. The NAAQS have been updated as needed. Current standards are set for SO_2, CO, NO_2, O_3, PM_{10}, $PM_{2.5}$, and Pb. The ARB has established additional standards, which are generally more stringent than the NAAQS. Federal and state standards are shown in Table 1.

Areas are classified under the federal Clean Air Act as either "attainment" or "nonattainment" areas for each criteria pollutant based on whether the NAAQS have been achieved or not. The Los Angeles County portion of the air basin is currently classified as a federal or state nonattainment area, to some degree, for O_3, CO, and PM_{10}, and $PM_{2.5}$. The air basin currently meets the federal and state standards for NO_2, SO_2, and Pb and is classified as an attainment area for these pollutants. A detailed listing of attainment designations is included in Section 4.2 of this report.

3.2 REGIONAL AUTHORITY

In the South Coast Air Basin, the SCAQMD is the agency responsible for the administration of federal and state air quality laws, regulations, and policies. Included in the SCAQMD's tasks are monitoring of air pollution, preparation of the SIP for the South Coast Air Basin, and the promulgation of its Rules and Regulations. The SIP includes strategies and tactics to be used to attain the federal O_3 standard in the Los Angeles – South Coast Air Basin area. The SIP elements are taken from the 2003 Air Quality Management Plan (AQMP), the SCAQMD plan for attaining the state O_3 standard. The Rules and Regulations include procedures and requirements to control the emission of pollutants and to prevent adverse impacts.

SCAQMD regulations require that any equipment that emits or controls air contaminants, such as NO_X and ROC, be permitted prior to construction, installation, or operation (Authority to Construct or Permit to Operate). The SCAQMD is responsible for review of applications and for the approval and issuance of these permits.

Table 1
California and National Ambient Air Quality Standards

Pollutant	Averaging Time	NAAQS[1]		CAAQS[2]
		Primary[3]	Secondary[4]	Concentration[5]
Ozone (O_3)	1-Hour	Note 6	-	0.09 ppm (180 μg/m^3)
	8-Hour	0.08 ppm (157 μg/m^3)	Same as Primary Standard	0.070 ppm (137 μg/m^3)
Carbon Monoxide (CO)	8-Hour	9.0 ppm (10 mg/m^3)	None	9.0 ppm (10 mg/m^3)
	1-Hour	35 ppm (40 mg/m^3)		20 ppm (23 mg/m^3)
Nitrogen Dioxide (NO_2)	Annual Average	0.053 ppm (100 μg/m^3)	Same as Primary Standard	-
	1-Hour	-		0.25 ppm (470 μg/m^3)
Sulfur Dioxide (SO_2)	Annual Average	0.03 ppm (80 μg/m^3)	-	-
	24-Hour	0.14 ppm (365 μg/m^3)	-	0.04 ppm (105 μg/m^3)
	3-Hour	-	0.5 ppm (1300 μg/m^3)	-
	1-Hour	-	-	0.25 ppm (655 μg/m^3)
Suspended Particulate Matter (PM_{10})	24-Hour	150 μg/m^3 note 9	-	50 μg/m^3
	Annual Arithmetic Mean	~~50 μg/m^3~~	Same as Primary Standard	20 μg/m^3 note 7
Fine Particulate Matter ($PM_{2.5}$)	24-Hour	~~65~~ 35 μg/m^3 note 10	-	-
	Annual Arithmetic Mean	15 μg/m^3	Same as Primary Standard	12 μg/m^3 note 7
Lead (Pb)[8]	30-Day Average	-	-	1.5 μg/m^3
	Calendar Quarter	1.5 μg/m^3	Same as Primary Standard	-
Hydrogen Sulfide (HS)	1-Hour	No Federal Standards		0.03 ppm (42 μg/m^3)
Sulfates (SO_4)	24-Hour			25 μg/m^3
Visibility Reducing Particles	8-Hour (10 am to 6 pm, Pacific Standard Time)			In sufficient amount to produce an extinction coefficient of 0.23 per km due to particles when the relative humidity is less than 70 percent.
Vinyl chloride[8]	24-Hour			0.01 ppm (26 μg/m^3)

[1] NAAQS (other than O_3, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once a year. The O_3 standard is attained when the fourth highest 8-hour concentration in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is not to be exceeded more than once per year. The annual standard is attained when the 3-year average of the weighted annual mean at each monitor within an area does not exceed 50 μg/m^3. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over 3 years, do not exceed 65 μg/m^3. The annual standard is attained when the 3-year average of the weighted annual mean at single or multiple community-oriented monitors does not exceed 15 μg/m^3.

[2] California Ambient Air Quality Standards for O_3, CO (except Lake Tahoe), SO_2 (1- and 24-hour), NO_2, PM_{10}, and visibility reducing particles, are values that are not to be exceeded. All others are not to be equaled or exceeded.

[3] National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

[4] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[5] Concentration expressed first in units in which it was promulgated. Ppm in this table refers to ppm by volume or micromoles of pollutant per mole of gas.

[6] The federal 1-hour O_3 standard was revoked for most areas of the United States, including all of California on June 15, 2005.

[7] On June 5, 2003, the Office of Administrative Law approved the amendments to the regulations for the state ambient air quality standards for particulate matter and sulfates. Those amendments established a new annual average standard for $PM_{2.5}$ of 12 μg/m^3 and reduced the level of the annual average standard for PM_{10} to 20 μg/m^3. The approved amendments were filed with the Secretary of State on June 5, 2003. The regulations became effective on July 5, 2003.

[8] The CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[9] The EPA has revoked the annual standard for PM_{10}; the revocation was effective December 18, 2006

[10] The 24-hour standard for $PM_{2.5}$ has been reduced from 65 μg/m^{3}to 35 μg/m^3, effective December 18, 2006.

ppm = parts per million; μg/m^3 = micrograms per cubic meter; mg/m^3 = milligrams per cubic meter; km = kilometer
Source: CARB 2006b, EPA 2005, 2006c

SCAQMD's AQMP and SIP

The current AQMP in the Basin is the 2003 AQMP, which is an update to the 1997 AQMP. The 2003 AQMP employs up-to-date science and analytical tools and incorporates a comprehensive strategy aimed at controlling pollution from all sources, including stationary sources, on-road and off-road mobile sources, and area sources. The 2003 AQMP proposes policies and measures to achieve federal and state standards for healthy air quality in the Basin. The 2003 AQMP updates the demonstration of attainment with the federal standards for O_3 and PM_{10}; replaces the 1997 attainment demonstration for the federal CO standard and provides a basis for a maintenance plan for CO for the future; and updates the maintenance plan for the federal NO_2 standard that the Basin has met since 1992 (SCAQMD 2006). The 2003 AQMP was adopted by SCAQMD in August 2003 and approved, with modifications, by the ARB in October 2003 (ARB 2003). The EPA is reviewing the 2003 AQMP and approval is pending.

As a result of State and local control strategies, the SCAB has not exceeded the federal CO standard since 2002. In March 2005, the SCAQMD adopted a CO Redesignation Request and Maintenance Plan that provides for maintenance of the federal CO air quality standard until at least 2015 and commits to revising the Plan in 2013 to ensure maintenance through 2025. The AQMD also adopted a CO emissions budget that covers 2005 through 2015. On February 24, 2006, CARB transmitted the Redesignation Request and Maintenance Plan (including the CO budgets) to U.S. EPA for approval (CARB 2006c).

The 2007 AQMP is under development. A draft version has been released to the public, and public workshops were held in October, November 2006 (SCAQMD 2006b). The purpose of the 2007 AQMP or Plan for the SCAB is to set forth a comprehensive program that will lead the region into compliance with federal 8-hour ozone and $PM_{2.5}$ air quality standards. The Plan will be submitted to EPA as a SIP revision once it is approved by the District's Governing Board and the CARB (SCAQMD 2006c). The $PM_{2.5}$ strategy is of interest. Since $PM_{2.5}$ in the Basin is overwhelmingly formed secondarily, the overall draft control strategy focuses on reducing precursor emission of SOx, directly-emitted PM2.5, NOx, and VOC instead of fugitive dust. Based on the District's modeling sensitivity analysis, SOx reductions, followed by directly-emitted PM2.5 and NOx reductions, provide the greatest benefits in terms of reducing the ambient PM2.5 concentrations (SCAQMD 2006c).

SCAQMD Significance Criteria

In order to assess impacts in accordance with the California Environmental Quality Act, (CEQA), the SCAQMD has established thresholds of significance for air quality for construction

activities and project operation. Only the thresholds pertaining to construction are applicable to this project, and are discussed further in Section 5.2 of this report.

3.3 CONFORMITY OF FEDERAL ACTIONS

Background

The Clean Air Act Amendments of 1990 (Pub. L. 101-549, 104 Stat. 2399) require the EPA to promulgate rules to ensure that federal actions conform to the appropriate SIP. These rules, known together as the *General Conformity Rule* (40 C.F.R. § 51.100 et seq. and § 93.100 et seq.), require any federal agency responsible for an action to determine if its action conforms to pertinent guidelines and regulations.

Section 176(c) of the Clean Air Act requires the following:

"No department, agency, or instrumentality of the Federal Government shall engage in, support in any way or provide financial assistance for, license or permit, or approve, any activity which does not conform to an implementation plan after it has been approved. …

> Conformity to an implementation plan means:
>
> (A) conformity to an implementation plan's purpose of eliminating or reducing the severity and number of violations of the national ambient air quality standards and achieving expeditious attainment of such standards; and
>
> (B) that such activities will not
>
> > (i) cause or contribute to any new violation of any standard in any area;
> >
> > (ii) increase the frequency or severity of any existing violation of any standard in any area; or
> >
> > (iii) delay timely attainment of any standard or any required interim emission reductions or other milestones in any area."

The determination of conformity shall be based on the most recent estimates of emissions, and such estimates shall be determined from the most recent population, employment, travel and

congestion estimates as determined by the metropolitan planning organization or other agency authorized to make such estimates.

In November 1993, the USDOT and the EPA developed guidance for determining conformity of transportation plans, programs, and projects. This guidance is denoted as the Transportation Conformity Rule (40 C.F.R. §§ 51.390-464 and 40 C.F.R. §§ 93.100-136).

A significant revision to the Clean Air Act in 1997 established new ambient air quality standards for 8-hour ozone and $PM_{2.5}$. Legal challenges to the new standards delayed implementation relative to transportation until 2004. On July 1, 2004. EPA promulgated revisions to the transportation conformity rule to include criteria and procedures for the new 8-hour ozone and fine particulate matter ($PM_{2.5}$) national ambient air quality standards (Federal Register 2004), The action did not finalize new transportation conformity requirements for $PM_{2.5}$ precursors and $PM_{2.5}$ hot-spot analyses, or make changes to existing PM_{10} hot-spot analysis requirements. Subsequent rulemakings have developed current procedures for these particulate analyses. One of the more recent rules was promulgated in March 2006, and is discussed in the $PM_{2.5}$ analysis section of this report.

Project Conformity

The metropolitan planning organization responsible for the preparation of regional transportation plans and the associated air quality analyses is the SCAG. The regional plans are the RTP and RTIP. The current RTP, the 2006 RTP was adopted in July 2006. The air quality conformity determination for the 2006 RTP was approved October 2, 2006. The most recent version of the RTP, titled the *Final 2004 Regional Transportation Plan Amendment and 2006 Regional Transportation Improvement Program Amendment*, was adopted on February 2, 2006. SCAG is currently soliciting input for the 2007 RTP (SCAG 2006).

The 2006 RTIP was adopted by SCAG on July 27, 2006, approved by Caltrans on August 31, 2006, and approved by FHWA/FTA on October 2, 2006.

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SECTION 4.0
EXISTING CONDITIONS

4.1 ENVIRONMENTAL SETTING, CLIMATE, AND METEOROLOGY

Air quality is affected by both the rate and location of pollutant emissions and by meteorological conditions, which influence movement and dispersal of pollutants. Atmospheric conditions such as wind speed, wind direction, and air temperature gradients, along with local topography, provide the link between air pollutant emissions and air quality.

Regional Climate

The South Coast Air Basin consists of four counties: San Bernardino, Riverside, Los Angeles, and Orange, and includes some portions of what used to be the Southeast Desert Air Basin. In May 1996, the boundaries of the South Coast Air Basin were changed by the ARB to include the Beaumont-Banning area. In addition, the Southeast Desert Air Basin was separated into two areas and renamed as the Mojave Desert Air Basin and the Salton Sea Air Basin. The distinctive climate of the South Coast Air Basin is determined by its terrain and geographic location. The South Coast Air Basin is a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean to the southwest and high mountains around the rest of its perimeter. The general region lies in the semi-permanent high pressure zone of the eastern Pacific, resulting in a mild climate tempered by cool sea breezes with light average wind speeds. The usually mild climatological pattern is interrupted occasionally by periods of extremely hot weather, winter storms, or Santa Ana winds.

The vertical dispersion of air pollutants in the air basin is hampered by the presence of persistent temperature inversions. High-pressure systems, such as the semi-permanent high-pressure zone in which the air basin is located, are characterized by an upper layer of dry air that warms as it descends, restricting the mobility of cooler marine-influenced air near the ground surface, and resulting in the formation of subsidence inversions. Such inversions restrict the vertical dispersion of air pollutants released into the marine layer and, together with strong sunlight, can produce worst-case conditions for the formation of photochemical smog. The basinwide occurrence of inversions at 1,066.8 m (3,500 ft) above sea level or less averages 191 days per year (SCAQMD 1993).

The atmospheric pollution potential of an area is largely dependent on winds, atmospheric stability, solar radiation, and terrain. The combination of low wind speeds and low inversions produces the greatest concentration of air pollutants. On days without inversions, or on days of winds averaging over 15 mph, smog potential is greatly reduced.

Santa Clarita Microclimate

Santa Clarita is located in Los Angeles County north of the San Fernando Valley, surrounded by the Santa Susana and San Gabriel mountain ranges on the south, east and west, and the Sierra Pelona Mountains on the north. Santa Clarita is situated in the transitional microclimatic zone of the South Coast Air Basin, located between two climate types, known as "valley marginal" and "high desert." Due to the city's location, it usually escapes the damp coastal air and fog. The summers are typically hot and the winters are typically sunny and warm.

Santa Clarita's climate is relatively mild. Annual average daytime temperatures range from 89.7 degrees Fahrenheit (°F) in summer to 63.6°F in winter. Low temperatures average 58.9°F in summer to 41.3°F in winter. Annual precipitation of Santa Clarita is 33.3 centimeters (13.10 inches), which occurs almost exclusively between late October and April (WRCC 2004).

4.2 REGIONAL AND LOCAL AIR QUALITY

Specific geographic areas are classified as either "attainment" or "nonattainment" areas for each pollutant based upon the comparison of measured data with federal and state standards. Table 2 lists the current attainment status of each criteria pollutant in the Los Angles County portion of the SCAB.

$PM_{2.5}$ is not measured at the Santa Clarita Station. The closest PM2.5 monitoring stations are at Reseda and Lancaster in Los Angeles County, and in the City of Simi Valley in Ventura County. Distance and intervening topography would indicate that data from these stations would not be completely representative of ambient air quality in the project area. The most representative station of the three is the Simi Valley – Cochran Street station, located approximately xx miles southwest of the Golden Valley Road Bridge site (Caltrans 2006c). Table 4 shows the $PM_{2.5}$ data from that station for the 2003 through 2005 period.

Table 2
Attainment Status for the Los Angeles County Portion of the South Coast Air Basin

Pollutant	Attainment Status	
	Federal	**State**
O_3 – 1-Hour	--[a]	Nonattainment Extreme
O_3 – 8-hour	Nonattainment Severe 17	
PM_{10}	Nonattainment Serious	Nonattainment
$PM_{2.5}$	Nonattainment	Nonattainment
CO	Nonattainment Serious[b]	Attainment
NO_2	Attainment - Maintenance[c]	Attainment
SO_2	Attainment	Attainment
Pb	Attainment	Attainment

a- Repealed by law in June 2005.
b-Redesignation to Attainment was submitted to the EPA for approval in February 2006.
c – Redesignation to Attainment by EPA occurred in 1998. The CARB web site indicates the federal status for NO_2 as "Unclassified/Attainment" The 2003 SCAQMD AQMP serves as the NO_2 maintenance plan for the SCAB.
Sources: EPA 2006; CARB 2006d

Table 3
Santa Clarita Monitoring Station – Ambient Air Quality

Pollutant Standards	2003	2004	2005
Ozone (O_3)			
Maximum 1-hour concentration (ppm)	0.194	0.158	0.173
Maximum 8-hour concentration (ppm)	0.152	0.133	0.141
Number of Days Standard Exceeded			
NAAQS 1-hour (>0.12 ppm)	35	13	11
CAAQS 1-hour (>0.09 ppm)	89	69	65
NAAQS 8-hour (>0.08 ppm)	69	52	47
Carbon Monoxide (CO)			
Maximum 8-hour concentration (ppm)	1.7	3.7	1.3
Maximum 1-hour concentration (ppm)	3.3	5.2	2.2
Number of Days Standard Exceeded			
NAAQS 8-hour (≥9.0 ppm)	0	0	0
CAAQS 8-hour (≥9.0 ppm)	0	0	0
NAAQS 1-hour (≥35 ppm)	0	0	0
CAAQS 1-hour (≥20 ppm)	0	0	0
Particulate Matter (PM_{10})[a]			
National maximum 24-hour concentration ($\mu g/m^3$)	72.0	54.0	55.0
National second highest 24-hour concentration ($\mu g/m^3$)	67.0	52.0	44.0
State maximum 24-hour concentration ($\mu g/m^3$)	69.0	52.0	52.0
State second highest 24-hour concentration ($\mu g/m^3$)	64.0	49.0	42.0
National annual average concentration ($\mu g/m^3$)	31.8	28.1	25.6
State annual average concentration ($\mu g/m^3$)	30.3	26.8	24.7
Number of Days Standard Exceeded			
NAAQS 24-hour (>150 $\mu g/m^3$)[b]	0	0	0
CAAQS 24-hour (>50 $\mu g/m^3$)[b]	46.6	6.5	6.1

[a] Measurements usually collected every six days.
[b] Based on an estimate of how many days concentrations would have been greater than the standard because samples are collected once every six days.
CAAQS = California Ambient Air Quality Standards.
NAAQS = National Ambient Air Quality Standards.
Sources: CARB 2006e; EPA 2006b.

Table 4
Simi Valley-Cochran Street Monitoring Station – $PM_{2.5}$ Ambient Air Quality

Pollutant Standards	2003	2004	2005
Particulate Matter ($PM_{2.5}$)[a]			
National maximum 24-hour concentration ($\mu g/m^3$)[b]	116.0	41.2	42.4
National second highest 24-hour concentration ($\mu g/m^3$)	34.3	40.9	26.7
State maximum 24-hour concentration ($\mu g/m^3$)[b]	116.0	42.8	51.1
State second highest 24-hour concentration ($\mu g/m^3$)	34.3	40.7	49.8
National annual average concentration ($\mu g/m^3$)	14.2	12.6	11.2
State annual average concentration ($\mu g/m^3$)	*	12.5	11.2
Number of Days Standard Exceeded			
NAAQS 24-hour (>65 $\mu g/m^3$)[c]	1	0	0
Years exceeded CAAQS annual standard (>12 $\mu g/m^3$)	*	0	0

$\mu g/m^3$ = micrograms per cubic meter; * = There was insufficient data to determine the value. CAAQS = California Ambient Air Quality Standards. NAAQS = National Ambient Air Quality Standards.

[a] Measurements usually collected every six days.

[b] State and national statistics may differ for the following reasons: State statistics are based on California approved samplers, whereas national statistics are based on samplers using federal reference or equivalent methods. State and national statistics may therefore be based on different samplers. State statistics are based on *local* conditions National statistics are based on *standard* conditions. State criteria for ensuring that data are sufficiently complete for calculating valid annual averages are more stringent than the national criteria.

Sources: CARB 2006e; EPA 2006b.

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SECTION 5.0
FUTURE AIR QUALITY IMPACTS

An impact would be considered significant under the National Environmental Policy Act or CEQA if it would (1) cause or contribute to new violation of federal, state, and local standards in the area; (2) interfere with provisions in the application of the SIP for maintenance or attainment of air quality standards; (3) increase the frequency or severity of an existing violation of any standard; or (4) delay timely attainment of any standard, any interim emission reduction, or other milestones included in the SIP for air quality.

5.1 OPERATIONAL EMISSIONS

Regional Air Quality

The Clean Air Act requires a demonstration that federal actions conform to SIP and similar approved plans in areas that are designated as nonattainment. Transportation measures, such as the proposed action, are analyzed for conformity as part of the RTP and RTIP. The RTIP is the implementing document for the RTP. Both plans, and an air quality analysis of the RTIP, were prepared by the SCAG. The proposed project is included in *Destination 2030: 2004 Regional Transportation Plan (RTP) Appendix I, Project Lists*, on page I-31, as Santa Clarita project LA0B103 - Construct Golden Valley Road from Soledad Canyon to Newhall Ranch Road. 0 to 6 lanes. Less than 0.5 miles - includes bridge over Santa Clara River (SCAG 2006). The RTP was approved by federal agencies on June 7, 2004 , and the U.S. Department of Transportation (USDOT) adopted a Clean Air Act conformity determination for the RTP on that date (SCAG 2006). Amendments to the 2004 RTP were adopted in February and July 2006. The scope of these amendments was limited to transit corridors, and they have no relationship to the Golden Valley Road Bridge project.

The proposed project is included in *Final Adopted 2006 Regional Transportation Program (RTIP)* on page 33, of the Los Angeles County Local Highways Section, as Santa Clarita project LA0B103 - Construct Golden Valley Road from Soledad Canyon to Newhall Ranch Road. 0 to 6 lanes. Less than 0.5 miles - includes bridge over Santa Clara River (SCAG 2006). The RTIP was approved by federal agencies on October 2, 2006, and the U.S. Department of Transportation (USDOT) adopted a Clean Air Act conformity determination for the RTIP on that date (USDOT 2006). Volume I of the 2006 RTIP summarizes the air quality conformity determinations made for the RTIP, including showing consistency with the 2004 RTP;

satisfactory findings for emissions of $PM_{2.5}$, ozone precursors, NO_2, CO and PM_{10} for the SCAB; and compliance with Transportation Control Measures, Financial Constraint, and Interagency Consultation and Public Involvement Tests. These are the requirements for a transportation program to demonstrate conformity with the Clean Air Act.

The proposed project is consistent with the description included in the 2006 RTIP and therefore conforms to the RTIP and RTP. Therefore, it may be concluded that the regional emissions of the proposed project conform to the RTIP and RTP, and there would be no significant impact under CEQA.

Local Air Quality

The Transportation Conformity Rules require a statement that:

Federal projects must not cause or contribute to any new localized CO or PM_{10} violations or increase the frequency or severity of any existing CO or PM_{10} violations in CO and PM_{10} nonattainment and maintenance areas.

The CO and PM_{10} requirements apply to the proposed project because the project site is in a federal CO and PM_{10} nonattainment areas. The air quality analyses of projects included in the RTP and RTIP do not include the analyses of local CO impacts; these must be addressed on a project level.

Carbon Monoxide

The *Transportation Project-Level Carbon Monoxide Protocol, UCD-ITS-97-21* (The Protocol), University of California, Davis, December 1997, provides procedures and guidelines for use by agencies to evaluate the potential local level CO impacts of a transportation project. The Protocol provides decision flow charts designed to assist the lead agency in evaluating requirements that specifically apply to a proposed action. An examination of each flow chart inquiry as they pertain to the proposed project is provided below.

Requirement for New Project *(from Figure 1 of the Transportation Project-Level Carbon Monoxide Protocol, UCD-ITS-97-21)*:

3.1.1. Is the proposed project exempt from all emission analyses?

The proposed project is not exempt from all emission analyses as it does not meet the criteria for projects exempt from all emissions analyses listed in The Protocol. In addition, the air quality analyses of projects included in the RTP and RTIP do not include the analyses of local CO impacts, which therefore must be addressed on a project level.

3.1.2. Is the proposed project exempt from regional emission analyses?

The proposed project is not exempt from regional emission analyses as it does not meet the criteria for projects exempt from regional emission analyses listed in the Protocol.

3.1.3. Is the proposed project locally defined as regionally significant?

Yes. Regionally significant projects are defined in 40 CFR 93.101 as projects that would normally be included in the modeling of a metropolitan area's transportation network, which is the case for this project (Caltrans 2006).

3.1.4. Is the project in a federal attainment area?

No, Redesignation to Attainment was submitted to the EPA for approval in February 2006, but the redesignation has not occurred.

3.1.5. Is there a currently conforming RTP and TIP?

Yes. Details of the RTP and RTIP are discussed in Sections 3.3 and 5.1 of this report.

3.1.6. Is the project included in the regional emissions analysis supporting the currently conforming RTP and TIP?

Yes. Details of the project inclusion in the RTP and RTIP are discussed in Sections 3.3 and 5.1 of this report.

3.1.7. Has project design concept and/or scope changed significantly from that in the regional analysis?

No.

With this response, one is required to Examine Local Impacts, per Section 4 of the Protocol. The question and answers below are from Figure 3, Local CO Analysis.

Level 1. Is the project in a CO nonattainment area?

Yes.

Level 2. Is the project in an area with an approved CO attainment or maintenance plan?

No.

Level 3. Is the project in an area with a submitted CO attainment or maintenance plan?

Yes. In March 2005, the South Coast AQMD adopted a CO Redesignation Request and Maintenance Plan that provides for maintenance of the federal CO air quality standard until at least 2015. The AQMD also adopted a CO emissions budget that covers 2005 through 2015.

On February 24, 2006, ARB transmitted the Redesignation Request and Maintenance Plan (including the CO budgets) to U.S. EPA for approval. In addition, on August 11, 2006, the ARB provided information to U.S. EPA that demonstrates the Smog Check program satisfies federal I&M requirements for CO and provides emission reductions necessary for continued improvement in CO air quality (CARB 2006c).

Was the analysis in the attainment plan performed in sufficient detail to establish CO concentrations as a result of microscale modeling?

Yes. Four intersections were modeled, including one intersection with a history of high CO episodic impacts and three of the most congested intersection in the air basin.

Were impacts acceptable?

Yes. Predicted CO would not exceed national or state ambient standards after 2003.

Can CO concentrations in the area affected by the project under review be expected to be lower than those at location specifically modeled in the attainment plan?

CO concentrations at an intersection would be lower than those reported for an intersection analyzed in the CO attainment plan if conditions a. through h. below are satisfied. The project intersection to be considered is

- Golden Valley Road North/Newhall Ranch Road

The project traffic analysis prepared by Katz, Okitsu & Associates, July 2004 indicated that this intersection would operate at level of service (LOS) F under project build conditions in the design year. The intersection would not exist under No Build conditions nor would it exist at the opening year for the Golden Valley Road Bridge. Golden Valley Road North would not be constructed until some time after the completion of the bridge project.

The traffic report also indicates that the intersection of

– Bouquet Canyon Road/San Fernando/Soledad Canyon Road/Valencia Boulevard would operate at LOS F under Build conditions. However, the operations would be improved over No Build conditions. Therefore, implementation of the project would not cause a CO hotspot at this intersection.

The project analyzed in the traffic report consisted of the extension of Newhall Ranch Road by approximately 2 miles from its existing terminus at Bouquet Canyon Road to a future intersection with Golden Valley Road, and the extension of Golden Valley Road southwards to terminate approximately 2,000 feet north of Soledad Canyon Road at the terminus of the Golden Valley Road bridge project. The project scope has since been reduced in geographic extent to consist only of construction of the Golden Valley Road bridge, which is an approximate 1,100-foot-long bridge spanning the Santa Clara River.

The 2005 SCAQMD CO maintenance plan contains analysis of four intersections, as shown in Table 5 (SCAQMD 2005). These intersections were originally analyzed in the 1992 attainment plan, and were also used in the 1997 and 2003 AQMPs.

Table 5
Selected Intersections for the SCAQMD Attainment Plan
CAL3QHC Hot Spot Modeling Analysis

Intersection	Description
Long Beach Blvd. /Imperial Highway	The Lynwood air monitoring stations consistently records the highest 8-hour CO concentrations in the Basin each year
Wilshire Blvd./ Veteran Ave.	The most congested intersection in Los Angeles County. The average daily traffic volume is about 100,000 vehicles/day.
Highland Ave./ Sunset Blvd.	One of the most congested intersections in the City of Los Angeles. The intersection study has been conducted and traffic data is available.
Century Blvd./ La Cienega Blvd.	One of the most congested intersections in the City of Los Angeles. The intersection study has been conducted and traffic data is available.

a. The receptor locations at the intersection under study are the same distance or farther from the traveled roadway than the receptor locations used in the intersection for the attainment plan.

The attainment plan intersections are all urban intersections with considerable pedestrian traffic, and it is assumed that receptors would be at the corners of the

intersections. The project intersection would be near the west end of the proposed bridge, where no pedestrian traffic or sensitive development is anticipated. The receptors at the project intersection would be at the same distance or farther from the traveled roadway than for the attainment intersections.

b. The intersection traffic volumes and geometries are not significantly different.

The attainment plan intersections are 4-way intersections at major arterials. The project intersection would be a 3-way intersection of a major arterial and a minor arterial. While the geometries are different, the project intersection would have fewer lanes. The project intersection traffic volume is forecast at approximately 49,000 ADT for Newhall Ranch Road and 18,000 ADT for Golden Valley Road North, for a total of 67,000 ADT. This would be considerably less than the 100,000 ADT at the attainment intersection of Wilshire Boulevard and Veteran Avenue, as shown in Table 5.

c. Appropriately assumed meteorology for the intersections under study is the same or better that the assumed meteorology for the intersections in the attainment plan.

It may be assumed that "worst-case" meteorology was used for the attainment plan analyses. It may also be assumed that meteorology at the project intersections is the same or better than the worst-case used in the attainment plan.

d. Traffic lane volumes for all approach and departure segments are lower for the intersections under study that those assumed for the intersections in the attainment plan.

Traffic lane volumes forecast for the Newhall Ranch Road/Golden Valley Road North intersection in the design year and for the Wilshire Boulevard/Veteran Avenue intersection analyzed in the attainment plan are shown in Table 6. Nearly all of the individual volumes shown in the table are lower for Golden Valley Road North, and the overall volumes are substantially lower.

e. Percentages of vehicles operating in cold start mode are the same or lower for the intersection under study compared to those in the intersection in the attainment plan.

The project intersection would have cold start vehicles in the AM coming from the residential areas that would be developed to the north on Golden Valley Road North, and to the west on Newhall Ranch Road. As there would be no major commercial or institutional complexes in the area, the PM cold start fraction would be much smaller. The attainment plan intersections would have cold start vehicles in the PM from workers leaving nearby institutional and commercial areas. As an example, there is a large federal office complex at Wilshire and Veteran, the Veteran's Administration Hospital, and UCLA nearby. Therefore, it is assumed that the percentage of cold start vehicles would be the same or less at the project intersection than at the attainment intersections.

Table 6
Traffic Lane Volumes for Project and Attainment Plan Intersections

Traffic Volumes	PM peak hour Wilshire-Veteran	Golden Valley Road North – Newhall Ranch
Approach-Through		
Eastbound	2069	1420
Westbound	3317	1700
Southbound	1400	-
Northbound	923	-
Left Turn		
Eastbound	319	860
Westbound	84	-
Southbound	49	120
Northbound	128	-
Right Turn		
Eastbound	-	-
Westbound	-	390
Southbound	780	350
Northbound	110	-

f. Percentage of Heavy Duty Gas Trucks is the same or lower for the intersection under study compared to those in the intersection in the attainment plan.

For the project intersection, some Heavy Duty Gas Trucks (HDGT) would be anticipated on Newhall Ranch Road, a through road, but very few would be expected on Golden Valley Road North, a feeder to a new, mostly residential area. The attainment plan intersections each support two through major roads, and each road is likely to carry HDGT. Thus, it is assumed that the percentage of HDGT at the project intersection would be the same or less than at the attainment plan intersections.

g. Average delay and queue length for each approach is the same or smaller for the intersection under study compared to those found at the intersection in the attainment plan.

Based on the considerable difference in intersection volumes, it is assumed that the average delay and queue length for each of the three approaches of the Newhall Ranch Road/Golden Valley Road North intersection would be less than any of the attainment intersections. Further, the fourth leg of the project intersection, being non-existent, would have a zero queue length and delay, which would be much less than at the corresponding attainment plan intersection.

h. Background concentration in the area where the intersection under study is located is the same or lower than the background concentration used for the intersection in the attainment plan.

The SCAQMD CO Redesignation Request and Maintenance Plan includes certified background CO data for the years 2001-2003 (SCAQMD 2005). The attainment plan intersections are in receptor areas 1, 2, 3, and 12 – Central Los Angeles, NW Coastal LA County, SW Coastal LA County, and South Central LA County, respectively. The lowest 8-hour CO values of these four areas were at NW Coastal LA County, with values of 3.0, 2.7, and 2.7 ppm for 2001, 2002, and 2003 respectively. For the same three years, the values for the Santa Clarita Valley were 3.1, 1.9, and 1.7. Although the 2001 value for Santa Clarita is slightly higher, it is seen that the overall background levels in the project area are the same or lower than in the areas of the attainment plan intersections.

The project meets criteria a. through h. above. Therefore, in accordance with the Protocol, Section 4.3.2, the project is satisfactory and no further CO analysis is required.

Particulate Matter - PM_{10}

The air quality studies for this project were initiated prior to March 10, 2006, the date the promulgation of the current rule that establishes the transportation conformity criteria and procedures for determining which transportation projects must be analyzed for local air quality impacts in PM_{10} nonattainment and maintenance areas. Therefore, this project is subject to follow the *Particulate Matter and Transportation Projects, An Analysis Protocol* dated February 23, 2005 (Caltrans 2005, 2006.) The initial step of the PM_{10} protocol is to determine eligibility of the project. A project may immediately be screened out if there are no receptors within 100 meters of the proposed project location (Caltrans 2005).

The following information is provided about receptors in the proposed project location: Existing development in the project vicinity, Figure 3, include:

- The Greenbrier Estates mobile home community, near the northwest quadrant of Soledad Canyon Road and Golden Valley Road; the closest home in the community is more than 1,000 feet from the southern terminus of the bridge project.

- The industrial park at the northeast quadrant of Soledad Canyon Road and Golden Valley Road; the closest building in the complex is approximately 500 feet east of the southern

terminus of the bridge project. There are no exterior areas of frequent human use in the western areas of the industrial park.

The City of Santa Clarita provided information on two planned developments in the project vicinity, also shown in Figure 3:

- Riverpark, Area C, a community of multi-family buildings, would be built north of Newhall Ranch Road and west of the future section of Golden Valley Road that would extend to the north from Newhall Ranch Road west of the Golden Valley Road Bridge. The closest building to the project would be approximately 800 feet northwest of the northwest terminus of the bridge.

- The Keystone, a community including single family homes, a school, and a YMCA would be built on both sides of future Golden Valley Road. The southernmost extent of the project would be more than 1,200 feet northeast of the bridge.

For purposes of assessing the requirement for a for further PM_{10} conformity analysis, it is concluded that there are no receptors within 100 meters (330 feet) of the proposed project area. Therefore, no further analysis is necessary.

Particulate Matter - $PM_{2.5}$

On March 10, 2006, the EPA published a final rule that establishes the transportation conformity criteria and procedures for determining which transportation projects must be analyzed for local air quality impacts in $PM_{2.5}$ and PM_{10} nonattainment and maintenance areas. Based on that rule, the EPA and FHWA published *Transportation Conformity Guidance for Qualitative Hot-spot Analyses in $PM_{2.5}$ and PM_{10} Nonattainment and Maintenance Areas* (PM Guidance) (FHWA 2006b). As noted above, this rule does not apply to PM_{10} analysis for the proposed project.

A hot-spot analysis is defined in 40 CFR 93.101 as an estimation of likely future localized $PM_{2.5}$ or PM_{10} pollutant concentrations and a comparison of those concentrations to the relevant air quality standards. A hot-spot analysis assesses the air quality impacts on a scale smaller than an entire nonattainment or maintenance area, including, for example, congested roadway intersections and highways or transit terminals. Such an analysis is a means of demonstrating that a transportation project meets Clean Air Act conformity requirements to support state and local air quality goals with respect to potential localized air quality impacts. When a hot-spot

analysis is required, it is included within the project-level conformity determination that is made by FHWA or the Federal Transit Administration (FTA).

The March 2006 PM guidance document describes qualitative hot-spot analyses. Quantitative $PM_{2.5}$ hot-spot analyses will be required when appropriate methods and modeling guidance are available. Qualitative hot-spot analyses involve more streamlined reviews of local factors such as local monitoring data near a proposed project location.

Projects of Air Quality Concern

To meet statutory requirements, the March 10, 2006 final rule requires PM2.5 hot-spot analyses to be performed for "projects of air quality concern." Qualitative hot-spot analyses would be done for these projects. Projects not identified as projects of air quality concern have also met statutory requirements without any further hot-spot analyses.

Projects of air quality concern (POAQC) are projects within a $PM_{2.5}$ nonattainment or maintenance area, funded or approved by FHWA or FTA, and are one of the following types of projects:

- New or expanded highway projects that have a significant number of or significant increase in diesel vehicles;
- Projects affecting intersections that are Level-of-Service (LOS) D, E, or F with a significant number of diesel vehicles, or those that will change to LOS D, E, or F, because of increased traffic volumes from a significant number of diesel vehicles related to the project;
- New bus and rail terminals, and transfer points, that have a significant number of diesel vehicles congregating at a single location;
- Expanded bus and rail terminals, and transfer points, that significantly increase the number of diesel vehicles congregating at a single location; and
- Projects in, or affecting locations, areas, or categories of sites which are identified in the $PM_{2.5}$ applicable implementation plan or implementation plan submission, as appropriate, as sites of violation or possible violation.

The evaluation of a project as a potential POAQC is performed by an interagency consultation, a process described in the Transportation Conformity Rule. In the SCAB, the interagency

consultation is performed by the Southern California Transportation Conformity Working Group (TCWG), organized by SCAG. Membership of the TCWG includes federal (US EPA, US EPA Region 9, FHWA, FTA), state (CA Air Resources Board, Caltrans), regional (Air Quality Management Districts, SCAG, etc.), and sub-regional (County Transportation Commissions) agencies and other stakeholders (SCAG 2007).

The GVRB project was submitted to the January 30, 2007 TCWG meeting. No determination was made at the meeting, pending review by an EPA representative who could not be present. The EPA representative reviewed the project information and provided an opinion on February 7, 2007 (EPA 2007), and the project was determined to be not a POAQC (SCAG 2007b). The project $PM_{2.5}$ interagency review forms submitted to the TCWG, the minutes of the January 30, 2007 TCWG meeting, and the February 7, 2007 confirming email from the USEPA Region IX are included as Appendix C to this report.

Mobile Source Air Toxics

The following discussion is based on the FHWA Memorandum, Subject: INFORMATION: Interim Guidance on Air Toxic Analysis in NEPA Documents, dated February 3, 2006. The purpose of the guidance is to advise when and how to analyze MSAT in the NEPA process for highways. This guidance is interim, because MSAT science is still evolving. As the science progresses, FHWA will update the guidance.

Introduction to MSAT

In addition to the criteria air pollutants for which there are National Ambient Air Quality Standards (NAAQS), EPA also regulates air toxics. Most air toxics originate from human-made sources, including on-road mobile sources, non-road mobile sources (e.g., airplanes), area sources (e.g., dry cleaners) and stationary sources (e.g., factories or refineries).

MSATs are a subset of the 188 air toxics defined by the Clean Air Act. The MSATs are compounds emitted from highway vehicles and non-road equipment. Some toxic compounds are present in fuel and are emitted to the air when the fuel evaporates or passes through the engine unburned. Other toxics are emitted from the incomplete combustion of fuels or as secondary combustion products. Metal air toxics also result from engine wear or from impurities in oil or gasoline.

The EPA is the lead Federal Agency for administering the Clean Air Act and has certain responsibilities regarding the health effects of MSATs. The EPA issued a Final Rule on Controlling Emissions of Hazardous Air Pollutants from Mobile Sources. 66 FR 17229 (March 29, 2001). This rule was issued under the authority in Section 202 of the Clean Air Act. In its rule, EPA examined the impacts of existing and newly promulgated mobile source control programs, including its reformulated gasoline (RFG) program, its national low emission vehicle (NLEV) standards, its Tier 2 motor vehicle emissions standards and gasoline sulfur control requirements, and its proposed heavy duty engine and vehicle standards and on-highway diesel fuel sulfur control requirements. Between 2000 and 2020, FHWA projects that even with a 64 percent increase in VMT, these programs will reduce on-highway emissions of benzene, formaldehyde, 1,3-butadiene, and acetaldehyde by 57 percent to 65 percent, and will reduce on-highway diesel PM emissions by 87 percent.

As a result, EPA concluded that no further motor vehicle emissions standards or fuel standards were necessary to further control MSATs. The agency is preparing another rule under authority of CAA Section 202(l) that will address these issues and could make adjustments to the full 21 and the primary six MSATs.

Unavailable Information for Project Specific MSAT Impact Analysis

This air quality impact study includes a basic analysis of the likely MSAT emission impacts of this project. However, available technical tools do not enable us to predict the project-specific health impacts of the emission changes associated with implementation of the proposed project. Due to these limitations, the following discussion is included in accordance with CEQ regulations (40 CFR 1502.22(b)) regarding incomplete or unavailable information:

Information that is Unavailable or Incomplete.

Evaluating the environmental and health impacts from MSATs on a proposed highway project would involve several key elements, including emissions modeling, dispersion modeling in order to estimate ambient concentrations resulting from the estimated emissions, exposure modeling in order to estimate human exposure to the estimated concentrations, and then final determination of health impacts based on the estimated exposure. Each of these steps is encumbered by technical shortcomings or uncertain science that prevents a more complete determination of the MSAT health impacts of this project.

- **Emissions:** The EPA tools to estimate MSAT emissions from motor vehicles are not sensitive to key variables determining emissions of MSATs in the context of highway projects. While MOBILE 6.2 and is used to predict emissions at a regional level, it has limited applicability at the project level. MOBILE 6.2 is a tripbased model--emission factors are projected based on a typical trip of 7.5 miles, and on average speeds for this typical trip. This means that MOBILE 6.2 does not have the ability to predict emission factors for a specific vehicle operating condition at a specific location at a specific time. Because of this limitation, MOBILE 6.2 can only approximate the operating speeds and levels of congestion likely to be present on the largest-scale projects, and cannot adequately capture emissions effects of smaller projects.[1] For particulate matter, the model results are not sensitive to average trip speed, although the other MSAT emission rates do change with changes in trip speed. Also, the emissions rates used in MOBILE 6.2 for both particulate matter and MSATs are based on a limited number of tests of mostly older-technology vehicles. Lastly, in its discussions of PM under the conformity rule, EPA has identified problems with MOBILE6.2 as an obstacle to quantitative analysis.

  These deficiencies compromise the capability of MOBILE 6.2 to estimate MSAT emissions. MOBILE6.2 is an adequate tool for projecting emissions trends, and performing relative analyses between alternatives for very large projects, but it is not sensitive enough to capture the effects of travel changes tied to smaller projects or to predict emissions near specific roadside locations.

- **Dispersion.** The tools to predict how MSATs disperse are also limited. The EPA's current regulatory models, CALINE3 and CAL3QHC, were developed and validated more than a decade ago for the purpose of predicting episodic concentrations of carbon monoxide to determine compliance with the NAAQS. The performance of dispersion models is more accurate for predicting maximum concentrations that can occur at some time at some location within a geographic area. This limitation makes it difficult to predict accurate exposure patterns at specific times at specific highway project locations across an urban area to assess potential health risk. The National Cooperative Highway Research Program is conducting research on best practices in applying models and other technical methods in the analysis of MSATs. This work also will focus on identifying appropriate methods of documenting and communicating MSAT impacts in the NEPA

[1] For purposes of MSAT discussion, smaller projects are those with average daily traffic volumes of less than 140,000, as explained below.

process and to the general public. Along with these general limitations of dispersion models, FHWA is also faced with a lack of monitoring data in most areas for use in establishing project-specific MSAT background concentrations.

- **Exposure Levels and Health Effects.** Finally, even if emission levels and concentrations of MSATs could be accurately predicted, shortcomings in current techniques for exposure assessment and risk analysis preclude us from reaching meaningful conclusions about project-specific health impacts. Exposure assessments are difficult because it is difficult to accurately calculate annual concentrations of MSATs near roadways, and to determine the portion of a year that people are actually exposed to those concentrations at a specific location. These difficulties are magnified for 70-year cancer assessments, particularly because unsupportable assumptions would have to be made regarding changes in travel patterns and vehicle technology (which affects emissions rates) over a 70-year period. There are also considerable uncertainties associated with the existing estimates of toxicity of the various MSATs, because of factors such as low-dose extrapolation and translation of occupational exposure data to the general population. Because of these shortcomings, any calculated difference in health impacts between alternatives is likely to be much smaller than the uncertainties associated with calculating the impacts. Consequently, the results of such assessments would not be useful to decision makers, who would need to weigh this information against other project impacts that are better suited for quantitative analysis.

Summary of Existing Credible Scientific Evidence Relevant to Evaluating the Impacts of MSATs.

Research into the health impacts of MSATs is ongoing. For different emission types, there are a variety of studies that show that some either are statistically associated with adverse health outcomes through epidemiological studies (frequently based on emissions levels found in occupational settings) or that animals demonstrate adverse health outcomes when exposed to large doses.

Exposure to toxics has been a focus of a number of EPA efforts. Most notably, the agency conducted the National Air Toxics Assessment (NATA) in 1996 to evaluate modeled estimates of human exposure applicable to the county level. While not intended for use as a measure of or benchmark for local exposure, the modeled estimates in the
NATA database best illustrate the levels of various toxics when aggregated to a national or State level.

The EPA is in the process of assessing the risks of various kinds of exposures to these pollutants. The EPA Integrated Risk Information System (IRIS) is a database of human health effects that may result from exposure to various substances found in the environment. The IRIS database is located at http://www.epa.gov/iris. The following toxicity information for the six prioritized MSATs was taken from the IRIS database *Weight of Evidence Characterization* summaries. This information is taken verbatim from EPA's IRIS database and represents the Agency's most current evaluations of the potential hazards and toxicology of these chemicals or mixtures.

- **Benzene** is characterized as a known human carcinogen.
- The potential carcinogenicity of **acrolein** cannot be determined because the existing data are inadequate for an assessment of human carcinogenic potential for either the oral or inhalation route of exposure.
- **Formaldehyde** is a probable human carcinogen, based on limited evidence in humans, and sufficient evidence in animals.
- **1,3-butadiene** is characterized as carcinogenic to humans by inhalation.
- **Acetaldehyde** is a probable human carcinogen based on increased incidence of nasal tumors in male and female rats and laryngeal tumors in male and female hamsters after inhalation exposure.
- **Diesel exhaust** (DE) is likely to be carcinogenic to humans by inhalation from environmental exposures. Diesel exhaust as reviewed in this document is the combination of diesel particulate matter and diesel exhaust organic gases.
- **Diesel exhaust** also represents chronic respiratory effects, possibly the primary noncancer hazard from MSATs. Prolonged exposures may impair pulmonary function and could produce symptoms, such as cough, phlegm, and chronic bronchitis. Exposure relationships have not been developed from these studies.

There have been other studies that address MSAT health impacts in proximity to roadways. The Health Effects Institute, a non-profit organization funded by EPA, FHWA, and industry, has undertaken a major series of studies to research near-roadway MSAT hot spots, the health implications of the entire mix of mobile source pollutants, and other topics. The final summary of the series is not expected for several years.

Some recent studies have reported that proximity to roadways is related to adverse health outcomes – particularly respiratory problems1. Much of this research is not specific to MSATs, instead surveying the full spectrum of both criteria and other pollutants. The FHWA cannot evaluate the validity of these studies, but more importantly, they do not provide information that

would be useful to alleviate the uncertainties listed above and enable us to perform a more comprehensive evaluation of the health impacts specific to this project.

Relevance of Unavailable or Incomplete Information to Evaluating Reasonably Foreseeable Significant Adverse Impacts on the Environment, and Evaluation of Impacts Based Upon Theoretical Approaches or Research Methods Generally Accepted in The Scientific Community.

Because of the uncertainties outlined above, a quantitative assessment of the effects of air toxic emissions impacts on human health cannot be made at the project level. While available tools do allow us to reasonably predict relative emissions changes between alternatives for larger projects, the amount of MSAT emissions from the proposed project and MSAT concentrations or exposures created by the project emissions cannot be predicted with enough accuracy to be useful in estimating health impacts. (As noted above, the current emissions model is not capable of serving as a meaningful emissions analysis tool for smaller projects.) Therefore, the relevance of the unavailable or incomplete information is that it is not possible to make a determination of whether any of the alternatives would have "significant adverse impacts on the human environment."

The impact evaluation below provides a qualitative assessment of MSAT emissions and acknowledges that the proposed project may result in increased exposure to MSAT emissions in certain locations, although the concentrations and duration of exposures are uncertain, and because of this uncertainty, the health effects from these emissions cannot be estimated.

Evaluation of Project MSAT Potential

The FHWA has developed a tiered approach for analyzing MSATs in NEPA documents. Depending on the specific project circumstances, FHWA has identified three levels of analysis:

- No analysis for projects with no potential for meaningful MSAT effects, Category (1);
- Qualitative analysis for projects with low potential MSAT effects, Category (2); or
- Quantitative analysis to differentiate alternatives for projects with higher potential MSAT effects, Category (3).

The proposed project is a Category (2) project, that is, the project would have a low potential for MSAT effects. This assessment is based on FHWA guidance that projects that do not meet the

criteria for Category (1) or Category (3) should be included in Category (2). Category (1) is limited to projects that:

- qualify as a categorical exclusion under 23 CFR 771.117(c);
- are exempt under the Clean Air Act conformity rule under 40 CFR 93.126; or
- have no meaningful impacts on traffic volumes or vehicle mix.

The Golden Valley Road Bridge project does not meet any of these requirements.

For a project to be of the magnitude to have a higher potential for MSAT effects, Category (3), a project must:

- Create or significantly alter a major intermodal freight facility that has the potential to concentrate high levels of diesel particulate matter in a single location; or
- Create new or add significant capacity to urban highways such as interstates, urban arterials, or urban collector-distributor routes with traffic volumes where the AADT is projected to be in the range of 140,000 to 150,000, or greater, by the design year;

And also:

- be proposed to be located in proximity to populated areas or in rural areas, in proximity to concentrations of vulnerable populations (i.e., schools, nursing homes, hospitals).

The Golden Valley Road Bridge project would be part of the Cross Valley Connector East. While new capacity would be facilitated, the associated roadway with an estimated maximum AADT of 50,000 would have design year volume much less than the FHWA threshold value of 140,000 AADT as the minimum volume for higher potential MSAT effects (FHWA 2006a). Further, there are no sensitive receptors near the planned Golden Valley Bridge. The closest existing residential receptors are more than 1,000 feet away. The closest planned residential development is approximately 800 feet away. The closest commercial/industrial development is approximately 500 feet away. Therefore, the project would be included in Category (2), projects with low potential for MSAT effects.

Evaluation of Project MSAT Impacts

As discussed above, technical shortcomings of emissions and dispersion models and uncertain science with respect to health effects prevent meaningful or reliable estimates of MSAT emissions and effects of this project. However, even though reliable methods do not exist to accurately estimate the health impacts of MSATs at the project level, it is possible to qualitatively assess the levels of future MSAT emissions under the project. Although a

qualitative analysis cannot identify and measure health impacts from MSATs, it can give a basis for identifying and comparing the potential differences among MSAT emissions-if any-from the various alternatives. The qualitative assessment presented below is derived in part from a study conducted by the FHWA entitled *A Methodology for Evaluating Mobile Source Air Toxic Emissions Among Transportation Project Alternatives*, found at:
www.fhwa.dot.gov/environment/airtoxic/msatcompare/msatemissions.htm

The proposed bridge, along with other approved segments and intersection improvements under construction, will complete the Cross Valley Connector. The Cross Valley Connector will significantly increase east-west roadway capacity between the I-5/SR 126 and SR 14, thereby providing relief to currently congested arterial roadways. The amount of MSATs emitted would be proportional to the vehicle miles traveled, or VMT, for the Build and No Build alternatives, assuming that other variables such as fleet mix are the same. The VMT have not been estimated for the two alternatives. With respect to through traffic, that is, traffic that does not originate or terminate in the project area, the VMT for the Build Alternative could be more or less than for the No Build Alternative depending on whether this new roadway results in shorter or longer travel distance for the drivers attracted to this route in order to avoid existing congested roadways. Overall, the VMT might be anticipated to be greater because the Cross Valley Connector would facilitate new development that would generate and attract trips that were not occurring in this area before. This increase in VMT means MSATs under the Build Alternative would probably be higher than the No Build Alternative in the study area. There could also be localized differences in MSATs from indirect effects of the project such as associated access traffic, emissions of evaporative MSATs (e.g., benzene) from parked cars, and emissions of diesel particulate matter from delivery trucks, depending on the type and extent of development.
Operation of this section of the Cross Valley Connector would lead to higher MSAT emissions along the alignment, with a corresponding decrease in MSAT emissions along the roadways in the network that lose traffic to this route. Emissions along the new roadway in future years will likely be lower than initial levels as a result of the EPA's national control programs that are projected to reduce MSAT emissions by 57 to 87 percent between 2000 and 2020. Local conditions may differ from these national projections in terms of fleet mix and turnover, VMT growth rates, and local control measures. However, the magnitude of the EPA-projected reductions is so great, even after accounting for an average national annual VMT growth, that MSAT emissions in the study area are likely to decrease in the future in nearly all cases.

The building of the Golden Valley Road Bridge and Cross Valley Connector East would have the effect of moving some traffic closer to some homes, schools and businesses; therefore, with the proposed project there may be localized areas where ambient concentrations of MSATs could

be higher than with the No Build Alternative. However, as discussed above, the magnitude and the duration of these potential increases compared to the No Build alternative cannot be accurately quantified due to the inherent deficiencies of current models. In summary, with the Build Alternative, the localized level of MSAT emissions near the Cross Valley Connector would be higher relative to the No Build Alternative. MSATs will be lower in other locations when traffic shifts away from them. On a regional basis, EPA's vehicle and fuel regulations, coupled with fleet turnover, would over time cause substantial reductions that, in almost all cases, will cause region-wide MSAT levels to be significantly lower than currently observed (FHWA 2006a).

5.2 CONSTRUCTION EMISSIONS

The following analysis is included in this report for use by the City of Santa Clarita in CEQA analysis. SCAQMD has established thresholds of significance for air quality for construction activities and project operation as shown in Table 6. Only the thresholds pertaining to construction are applicable to this project.

The principal sources of pollutant emissions during construction are fugitive dust and engine exhaust from construction equipment. Fugitive dust would be created during site clearing, excavation, and grading; vehicle travel on paved and unpaved roads; and material blown from unprotected graded areas, stockpiles, and haul trucks. Fugitive dust includes PM_{10} and $PM_{2.5}$, which are potential health hazards and often contribute to visibility and nuisance impacts that occur when dust from construction activities is deposited on residences, vehicles, and vegetation. In construction equipment exhaust, the principal pollutants of concern are NO_X and ROC, the primary constituents in the formation of O_3, a pollutant for which the region is currently considered in nonattainment.

Maximum Daily Thresholds

Emissions were estimated using the Roadway Construction Emissions Model, Version 5.1. This model was developed and published by the Sacramento Metropolitan Air Quality Management District (SMAQMD 2003). The model uses vehicle, off-road equipment, and fugitive dust emission factors consistent with EMFAC 2002 and URBEMIS 2002, which are models developed by or under the sponsorship of the California Air Resources Board. Default values were used for the mix of construction equipment, number of workers and commute distance, soil hauling distances, and project phasing. A construction start year of 2007 was assumed.

Table 6
SCAQMD Air Quality Significance Thresholds

Mass Daily Thresholds		
Pollutant	Construction	Operation
NO_X	100 lbs/day	55 lbs/day
VOC[1]	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
SO_X	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day
Toxic Air Contaminants (TACs) and Odor Thresholds		
TACs (including carcinogens and non-carcinogens)	Maximum Incremental Cancer Risk ≥ 10 in 1 million Hazard Index ≥ 1.0 (project increment) Hazard Index ≥ 3.0 (facility-wide)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	
Ambient Air Quality for Criteria Pollutants		
NO_2 1-hour average annual average	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 0.25 ppm (state) 0.053 ppm (federal)	
PM_{10} 24-hour average annual geometric average annual arithmetic mean	 10.4 μg/m^3 (recommended for construction) [e] 2.5 μg/m^3 (operation) 1.0 μg/m^3 20 μg/m^3	
Sulfate 24-hour average	 25 μg/m^3	
CO 1-hour average 8-hour average	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 20 ppm (state) 9.0 ppm (state/federal)	

Lbs/day = pounds per day; ppm = parts per million; μg/m^3 = microgram per cubic meter
1 – VOC – volatile organic compounds. For purposes of this report, VOC are the same as ROC, and ROC is the term used for this report.
Source: SCAQMD 2006b

Table 7 presents the estimated daily emissions from construction of the bridge. No mitigation or emission reduction measures have been included in the calculations. Details of construction-related emission calculations are included in Appendix A. As shown in Table 7, all estimated bridge construction emissions would be less than the CEQA significance thresholds.

Table 7
Estimated Bridge Construction Emissions

Project Phases (English Units)[a]	ROC (lbs/day)	CO (lbs/day)	NO_X (lbs/day)	PM_{10}[b] (lbs/day)
Grubbing/Land Clearing	8	40	44	17
Grading/Excavation	9	49	55	18
Drainage/Utilities/Sub-Grade	9	44	47	18
Paving	4	18	27	2
Maximum	9	49	55	18
SCAQMD CEQA Significance Threshold (from Table 6)	75	550	100	150
Threshold exceeded?	No	No	No	No

[a] Assumes construction start in 2007 with duration of 12 months.
[b] Assumes 3 acres of disturbance per day; 10 acres of total disturbed area; 1 water truck.
Source: Sacramento Air Quality Management District, Road Construction Model 5.1

Ambient Air Quality for Criteria Pollutants – Local Concentrations

The SCAQMD thresholds shown in Table 6 for local pollutant concentrations include CO and PM_{10} criteria. As described in Section 5.1 above, there is no potential for a significant local concentration of these pollutants. Further, because potential receptors are more than 300 meters (984 feet) away from the construction site, it is concluded that local ambient air quality impacts from construction would not be significant.

Toxic Air Contaminants (TAC) - Diesel Exhaust Emissions

The only TAC of concern for the proposed project would be particulate exhaust emissions from diesel-fueled engines (diesel PM). Diesel PM was identified as a TAC by the CARB in 1998. Construction of the project would result in the generation of diesel PM emissions from the use of off-road diesel equipment required for site grading and excavation, paving, and other construction activities. According to the CARB, the potential cancer risk from the inhalation of diesel PM, as discussed below, outweighs the potential non-cancer health impacts (ARB 2003b). Diesel PM emissions continue to be reduced since the identification of this TAC. In January 2001, the EPA promulgated a Final Rule to reduce emission standards for 2007 and subsequent model year heavy-duty diesel engines. These emission standards represent a 90 percent reduction of oxides of nitrogen emissions, 72 percent reduction of non-methane hydrocarbon emissions, and 90 percent reduction of particulate matter emissions compared to the 2004 model year emission standards. In December 2004, the CARB adopted a fourth phase of emission standards

(Tier 4) that are nearly identical to those finalized by the EPA on May 11, 2004, in its Clean Air Nonroad Diesel Rule. As such, engine manufacturers are now required to meet aftertreatment-based exhaust standards for particulate matter (PM) and NOx starting in 2011 that are over 90 percent lower than current levels, putting off-road engines on a virtual emissions par with on-road heavy-duty diesel engines (ARB 2006f).

The dose to which receptors are exposed is the primary factor used to determine health risk (i.e., potential exposure to TAC emission levels that exceed applicable standards). Dose is a function of the concentration of a substance or substances in the environment and the duration of exposure to the substance. Dose is positively correlated with time, meaning that a longer exposure period would result in a higher exposure level for the maximally exposed individual. Thus, the risks estimated for a maximally exposed individual are higher if a fixed exposure occurs over a longer period of time. According to the Office of Environmental Health Hazard Assessment (OEHHA), health risk assessments, which determine the exposure of sensitive receptors to TAC emissions, should be based on a 70-year exposure period; however, such assessments should be limited to the period/duration of activities associated with the project. Thus, because the use of mobilized equipment would be temporary, and the nearest receptors are more than 300 meters (984 feet) from the project site, it is concluded that short-term construction activities would not expose sensitive receptors to substantial TAC concentrations and the impact would not be significant.

Odors

Minor sources of odors would be present during construction of the bridge. The predominant source of power for construction equipment is diesel engines. Exhaust odors from diesel engines, as well as emissions associated with asphalt paving may be considered offensive to some individuals. However, because odors would be temporary and would disperse rapidly with distance from the source, construction-generated odors would not result in the frequent exposure of receptors to objectionable odorous emissions. As a result, construction-related odors would not be significant.

SECTION 6.0
POLLUTION MITIGATION AND ABATEMENT MEASURES

As shown in Section 5.2, pollutant emissions during construction would be less than SCAQMD thresholds, and would not be significant. No mitigation measures would be required.

It is assumed that the City of Santa Clarita will comply with applicable SCAQMD Rules and Regulations, which will therefore minimize pollutant emissions. One Rule of importance is Rule 403, Fugitive Dust. One requirement of Rule 403 is that "No person shall conduct active operations without utilizing the applicable best available control measures included in Table 1 of this Rule to minimize fugitive dust emissions from each fugitive dust source type within the active operation." Table 1 of Rule 403 is attached as Appendix B to this report.

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SECTION 7.0
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APPENDIX A

CONSTRUCTION EMISSIONS WORKSHEETS

Road Construction Emissions Model, Version 5.1

Emission Estimates for -> Golden Valley Road Bridge					Exhaust	Fugitive Dust	
Project Phases (English Units)	**ROG (lbs/day)**	**CO (lbs/day)**	**NOx (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	**PM10 (lbs/day)**	
Grubbing/Land Clearing	8	40	44	17	2	15	
Grading/Excavation	9	49	55	18	3	15	
Drainage/Utilities/Sub-Grade	9	44	47	18	3	15	
Paving	4	18	27	2	2	0	
Maximum (pounds/day)	9	49	55	18	3	15	
Total (tons/construction project)	1	5	7	2	0	2	<-tons

Notes: Project Start Year -> 2007
Project Length (months) -> 12
Total Project Area (acres) -> 10
Maximum Area Disturbed/Day (acres) -> 3
Total Soil Imported/Exported (yd^3/day)-> 300

PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.

Emission Estimates for -> Golden Valley Road Bridge					Exhaust	Fugitive Dust	
Project Phases (Metric Units)	**ROG (kgs/day)**	**CO (kgs/day)**	**NOx (kgs/day)**	**PM10 (kgs/day)**	**PM10 (kgs/day)**	**PM10 (kgs/day)**	
Grubbing/Land Clearing	4	18	20	8	1	7	
Grading/Excavation	4	22	25	8	1	7	
Drainage/Utilities/Sub-Grade	4	20	21	8	1	7	
Paving	2	8	12	1	1	0	
Maximum (kilograms/day)	4	22	25	8	1	7	
Total (megagrams/construction project)	1	5	6	2	0	2	<-megagrams

Notes: Project Start Year -> 2007
Project Length (months) -> 12
Total Project Area (hectares) -> 4
Maximum Area Disturbed/Day (hectares) -> 1
Total Soil Imported/Exported ($meters^3$/day)-> 229

PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.

Road Construction Emissions Model

Version 5.1

Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells C10 through C28.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

Input Type

Project Name	Golden Valley Road Bridge	
Construction Start Year	2007	Enter a Year between 2000 and 2010 inclusive
Project Type	3	1 New Road Construction 2 Road Widening 3 Bridge/Overpass Construction
Project Construction Time	12	months
Predominate Soil/Site Type: Enter 1, 2, or 3	1	1. Sand Gravel 2. Weathered Rock-Earth 3. Blasted Rock
On-Road Emission Factors: Enter 1, 2, or 3	4	1. Emfac7fv1.1 4. Emfac2002 2. Emfac7G 3. Emfac2001
Project Length	0.33	miles
Total Project Area	10	acres
Maximum Area Disturbed/Day	3	acres
Water Trucks Used?	1	1. Yes 2. No
Soil Imported	300	yd^3/day
Soil Exported	0	yd^3/day
Average Truck Capacity	20	yd^3 (assume 20 if unknown)

The remaining sections of this sheet contain areas that can be modified by the user, although those modifications are optional.

Note: The program's estimates of construction period phase length can be overridden in cells C37 through C40.

Construction Periods	User Override of Construction Months	Program Calculated Months	2000	%	2001	%	2002
Grubbing/Land Clearing		1.2	0.00	0.00	0.00	0.00	0.00
Grading/Excavation		4.8	0.00	0.00	0.00	0.00	0.00
Drainage/Utilities/Sub-Grade		4.2	0.00	0.00	0.00	0.00	0.00
Paving		1.8	0.00	0.00	0.00	0.00	0.00
Totals	0	12					

Hauling emission default values can be overridden in cells C48 through C50.

Soil Hauling Emissions	User Override of Soil Hauling Defaults	Default Values
User Input		
Miles/round trip		30
Round trips/day		15
Vehicle miles traveled/day (calculated)	0	450

Hauling Emissions	**ROG**	**NOx**	**CO**	**PM10**
Emission rate (grams/mile)	0.89	9.30	7.90	0.29
Pounds per day	0.9	9.2	7.8	0.3
Tons per contruction period	0.05	0.49	0.41	0.01

Worker commute default values can be overridden in cells C62 through C67.

Worker Commute Emissions	User Override of Worker Commute Default Values	Default Values			
Miles/ one-way trip		20			
One-way trips/day		2			
No. of employees: Grubbing/Land Clearing		3			
No. of employees: Grading/Excavation		6			
No. of employees: Drainage/Utilities/Sub-Grade		6			
No. of employees: Paving		6			
	ROG	**NOx**	**CO**	**PM10**	
Emission rate (grams/mile)	0.38	0.61	6.83	0.04	
Emission rate (grams/trip)	1.83	0.77	17.32	0.02	
Pounds per day - Grubbing/Land Clearing	0.1	0.2	2.0	0.0	
Tons per const. Period - Grub/Land Clear	0.0	0.0	0.0	0.0	
Pounds per day - Grading/Excavation	0.2	0.3	3.5	0.0	
Tons per const. Period - Grading/Excavation	0.0	0.0	0.2	0.0	
Pounds per day - Drainage/Utilities/Sub-Grade	0.2	0.3	3.5	0.0	
Tons per const. Period - Drain/Util/Sub-Grade	0.0	0.0	0.2	0.0	
Pounds per day - Paving	0.2	0.3	3.5	0.0	
Tons per const. Period - Paving	0.0	0.0	0.1	0.0	
tons per construction period	0.0	0.0	0.4	0.0	

Water truck default values can be overriden in cells C87 through C89 and E87 through E89.

Water Truck Emissions	Number of Water Trucks	Program Estimate of Number of Water Trucks	User Override of Water Truck Miles Traveled	Default Values Miles Traveled/Day	
Grubbing/Land Clearing - Exhaust		1		40	40
Grading/Excavation - Exhaust		1		40	40
Drainage/Utilities/Subgrade		1		40	40
	ROG	**NOx**	**CO**	**PM10**	
Emission rate (grams/mile)	0.89	9.30	7.90	0.29	
Pounds per day - Grubbing/Land Clearing	0.1	0.8	0.7	0.0	
Tons per const. Period - Grub/Land Clear	0.00	0.01	0.01	0.00	
Pound per day - Grading/Excavation	0.1	0.8	0.7	0.0	
Tons per const. Period - Grading/Excavation	0.00	0.04	0.04	0.00	
Pound per day - Drainage/Utilities/Subgrade	0.1	0.8	0.7	0.0	
Tons per const. Period - Drainage/Utilities/Subgrade	0.00	0.04	0.03	0.00	

Fugitive dust default values can be overridden in cells C104 and C105.

Fugitive PM10 Dust	User Override of Max Acrerage/Day	Default Maximum Acreage/Day	pounds/day	tons/per period
Fugitive Dust - Grubbing/Land Clearing		3	15.0	0.2
Fugitive Dust - Grading/Excavation		3	15.0	0.8
Fugitive Dust - Drainage/Utilities/Subgrade		3	15.0	0.7

Off road equipment default number of vehicles can be overridden in cells B115 through B224.

Off-Road Equipment Emissions

Grubbing/Land Clearing Override of Default Number of Vehicles	Default Number of Vehicles *Program-estimate*	Type	ROG pounds/day	CO pounds/day	NOx pounds/day	PM10 pounds/day
		Backhoes	0.00	0.00	0.00	0.00
		Bore/Drill Rigs	0.00	0.00	0.00	0.00
		Concrete/Industrial Saws	0.00	0.00	0.00	0.00
		Compactor	0.00	0.00	0.00	0.00
		Cranes	0.00	0.00	0.00	0.00
		Crawler Tractors	0.00	0.00	0.00	0.00
		Crushing/Proc. Equipment	0.00	0.00	0.00	0.00
	1	Dozer	3.62	17.51	23.73	1.21
		Excavator	0.00	0.00	0.00	0.00
		Forklifts, Rough Terrain	0.00	0.00	0.00	0.00
		Grader	0.00	0.00	0.00	0.00
		Loaders, Rubber Tired	0.00	0.00	0.00	0.00
		Off-Highway Trucks	0.00	0.00	0.00	0.00
		Other Construction Equip.	0.00	0.00	0.00	0.00
		Pavers	0.00	0.00	0.00	0.00
		Paving Equipment	0.00	0.00	0.00	0.00
		Rollers	0.00	0.00	0.00	0.00
	1	Scrapper	3.64	18.42	17.45	0.93
	1	Signal Boards	0.43	1.07	1.58	0.15
		Skid Steer Loaders	0.00	0.00	0.00	0.00
		Surfacing Equipment	0.00	0.00	0.00	0.00
		Tractors	0.00	0.00	0.00	0.00
		Trenchers	0.00	0.00	0.00	0.00
		pounds per day	7.7	37.0	42.8	2.3
		tons per period	0.1	0.5	0.6	0.0

Grading/Excavation	Number of Vehicles		ROG	CO	NOx	PM10
Override of Default Number of Vehicles	*Program-estimate*	Type	pounds/day	pounds/day	pounds/day	pounds/day
		Backhoes	0.00	0.00	0.00	0.00
		Bore/Drill Rigs	0.00	0.00	0.00	0.00
		Concrete/Industrial Saws	0.00	0.00	0.00	0.00
		Compactor	0.00	0.00	0.00	0.00
	0	Cranes	0.00	0.00	0.00	0.00
		Crawler Tractors	0.00	0.00	0.00	0.00
		Crushing/Proc. Equipment	0.00	0.00	0.00	0.00
		Dozer	0.00	0.00	0.00	0.00
	1	Excavator	1.84	7.89	7.76	0.41
		Forklifts, Rough Terrain	0.00	0.00	0.00	0.00
	1	Grader	1.20	5.46	10.42	0.56
	1	Loaders, Rubber Tired	0.92	4.34	7.67	0.41
		Off-Highway Trucks	0.00	0.00	0.00	0.00
	0	Other Construction Equip.	0.00	0.00	0.00	0.00
		Pavers	0.00	0.00	0.00	0.00
		Paving Equipment	0.00	0.00	0.00	0.00
		Rollers	0.00	0.00	0.00	0.00
	1	Scrapper	3.64	18.42	17.45	0.93
	1	Signal Boards	0.43	1.07	1.58	0.15
		Skid Steer Loaders	0.00	0.00	0.00	0.00
		Surfacing Equipment	0.00	0.00	0.00	0.00
		Tractors	0.00	0.00	0.00	0.00
		Trenchers	0.00	0.00	0.00	0.00
		max pounds per day	8.0	37.2	44.9	2.4
		tons per period	0.4	2.0	2.4	0.1

Drainage/Utilities/Subgrade	Number of Vehicles		ROG	CO	NOx	PM10
Override of Default Number of Vehicles	*Program-estimate*	Type	pounds/day	pounds/day	pounds/day	pounds/day
		Backhoes	0.00	0.00	0.00	0.00
		Bore/Drill Rigs	0.00	0.00	0.00	0.00
		Concrete/Industrial Saws	0.00	0.00	0.00	0.00
	1	Compactor	2.08	11.55	10.44	0.57
		Cranes	0.00	0.00	0.00	0.00
		Crawler Tractors	0.00	0.00	0.00	0.00
		Crushing/Proc. Equipment	0.00	0.00	0.00	0.00
		Dozer	0.00	0.00	0.00	0.00
		Excavator	0.00	0.00	0.00	0.00
		Forklifts, Rough Terrain	0.00	0.00	0.00	0.00
	1	Grader	1.20	5.46	10.42	0.56
		Loaders, Rubber Tired	0.00	0.00	0.00	0.00
		Off-Highway Trucks	0.00	0.00	0.00	0.00
		Other Construction Equip.	0.00	0.00	0.00	0.00
		Pavers	0.00	0.00	0.00	0.00
		Paving Equipment	0.00	0.00	0.00	0.00
		Rollers	0.00	0.00	0.00	0.00
	1	Scrapper	3.64	18.42	17.45	0.93
	1	Signal Boards	0.43	1.07	1.58	0.15
		Skid Steer Loaders	0.00	0.00	0.00	0.00
		Surfacing Equipment	0.00	0.00	0.00	0.00
		Tractors	0.00	0.00	0.00	0.00
	1	Trenchers	0.99	3.62	6.18	0.47
		max pounds per day	8.3	40.1	46.1	2.7
		tons per period	0.4	1.9	2.1	0.1

Paving	Number of Vehicles		ROG	CO	NOx	PM10
Override of Default Number of Vehicles	*Program-estimate*	Type	pounds/day	pounds/day	pounds/day	pounds/day
		Backhoes	0.00	0.00	0.00	0.00
		Bore/Drill Rigs	0.00	0.00	0.00	0.00
		Concrete/Industrial Saws	0.00	0.00	0.00	0.00
		Compactor	0.00	0.00	0.00	0.00
		Cranes	0.00	0.00	0.00	0.00
		Crawler Tractors	0.00	0.00	0.00	0.00
		Crushing/Proc. Equipment	0.00	0.00	0.00	0.00
		Dozer	0.00	0.00	0.00	0.00
		Excavator	0.00	0.00	0.00	0.00
		Forklifts, Rough Terrain	0.00	0.00	0.00	0.00
		Grader	0.00	0.00	0.00	0.00
		Loaders, Rubber Tired	0.00	0.00	0.00	0.00
		Off-Highway Trucks	0.00	0.00	0.00	0.00
		Other Construction Equip.	0.00	0.00	0.00	0.00
	1	Pavers	0.93	4.38	7.74	0.41
	1	Paving Equipment	0.80	3.48	7.88	0.41
	2	Rollers	1.17	5.52	9.78	0.52
		Scrapper	0.00	0.00	0.00	0.00
	1	Signal Boards	0.43	1.07	1.58	0.15
		Skid Steer Loaders	0.00	0.00	0.00	0.00
		Surfacing Equipment	0.00	0.00	0.00	0.00
		Tractors	0.00	0.00	0.00	0.00
		Trenchers	0.00	0.00	0.00	0.00
		pounds per day	3.3	14.5	27.0	1.5
		tons per period	0.1	0.3	0.5	0.0
Total Emissions (tons per construction period)			1.0	4.6	5.6	0.3

0

Equipment default values for horsepower, load factor, and hours/day can be overridden in cells C235 through C256, E235 through E256, and G235 through G256.

Equipment		Default Values Horsepower		Default Values Load Factor		Default Values Hours/day
Bore/Drill Rigs		218		0.75		8
Concrete/Industrial Saws		84		0.73		8
Cranes		190		0.43		8
Crawler Tractors		143		0.575		8
Crushing/Proc. Equipment		154		0.78		8
Excavators		180		0.58		8
Graders		174		0.575		8
Off-Highway Tractors		255		0.41		8
Off-Highway Trucks		417		0.49		8
Other Construction Equipment		190		0.62		8
Pavers		132		0.59		8
Paving Equipment		111		0.53		8
Rollers		114		0.43		8
Rough Terrain Forklifts		94		0.475		8
Rubber Tired Dozers		352		0.59		8
Rubber Tired Loaders		165		0.465		8
Scrapers		313		0.66		8
Signal Boards		25		0.82		8
Skid Steer Loaders		62		0.515		8
Surfacing Equipment		437		0.49		8
Tractors/Loaders/Backhoes		79		0.465		8
Trenchers		82		0.695		8

Default load factors from SCAQMD CEQA Handbook, 1993.

Default horsepower values from Appendix B, California Air Resources Board's Offroad Model (see also Appendix B of this spreadsheet).

Signal board horsepower based on: U.S. EPA, 1998. Final Regulatory Impact Analysis: Control of Emissions from Nonroad Diesel Engines (EPA420-R-98-016).

0 0

END OF DATA ENTRY SHEET

APPENDIX B

FUGITIVE DUST
BEST AVAILABLE CONTROL MEASURES
FROM SCAQMD RULE 403

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Backfilling	01-1 Stabilize backfill material when not actively handling; and 01-2 Stabilize backfill material during handling; and 01-3 Stabilize soil at completion of activity.	✓ Mix backfill soil with water prior to moving ✓ Dedicate water truck or high capacity hose to backfilling equipment ✓ Empty loader bucket slowly so that no dust plumes are generated ✓ Minimize drop height from loader bucket
Clearing and grubbing	02-1 Maintain stability of soil through pre-watering of site prior to clearing and grubbing; and 02-2 Stabilize soil during clearing and grubbing activities; and 02-3 Stabilize soil immediately after clearing and grubbing activities.	✓ Maintain live perennial vegetation where possible ✓ Apply water in sufficient quantity to prevent generation of dust plumes
Clearing forms	03-1 Use water spray to clear forms; or 03-2 Use sweeping and water spray to clear forms; or 03-3 Use vacuum system to clear forms.	✓ Use of high pressure air to clear forms may cause exceedance of Rule requirements
Crushing	04-1 Stabilize surface soils prior to operation of support equipment; and 04-2 Stabilize material after crushing.	✓ Follow permit conditions for crushing equipment ✓ Pre-water material prior to loading into crusher ✓ Monitor crusher emissions opacity ✓ Apply water to crushed material to prevent dust plumes

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Cut and fill	05-1 Pre-water soils prior to cut and fill activities; and 05-2 Stabilize soil during and after cut and fill activities.	✓ For large sites, pre-water with sprinklers or water trucks and allow time for penetration ✓ Use water trucks/pulls to water soils to depth of cut prior to subsequent cuts
Demolition – mechanical/manual	06-1 Stabilize wind erodible surfaces to reduce dust; and 06-2 Stabilize surface soil where support equipment and vehicles will operate; and 06-3 Stabilize loose soil and demolition debris; and 06-4 Comply with AQMD Rule 1403.	✓ Apply water in sufficient quantities to prevent the generation of visible dust plumes
Disturbed soil	07-1 Stabilize disturbed soil throughout the construction site; and 07-2 Stabilize disturbed soil between structures	✓ Limit vehicular traffic and disturbances on soils where possible ✓ If interior block walls are planned, install as early as possible ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes
Earth-moving activities	08-1 Pre-apply water to depth of proposed cuts; and 08-2 Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction; and 08-3 Stabilize soils once earth-moving activities are complete.	✓ Grade each project phase separately, timed to coincide with construction phase ✓ Upwind fencing can prevent material movement on site ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Importing/exporting of bulk materials	09-1 Stabilize material while loading to reduce fugitive dust emissions; and 09-2 Maintain at least six inches of freeboard on haul vehicles; and 09-3 Stabilize material while transporting to reduce fugitive dust emissions; and 09-4 Stabilize material while unloading to reduce fugitive dust emissions; and 09-5 Comply with Vehicle Code Section 23114.	✓ Use tarps or other suitable enclosures on haul trucks ✓ Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage ✓ Comply with track-out prevention/mitigation requirements ✓ Provide water while loading and unloading to reduce visible dust plumes
Landscaping	10-1 Stabilize soils, materials, slopes	✓ Apply water to materials to stabilize ✓ Maintain materials in a crusted condition ✓ Maintain effective cover over materials ✓ Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes ✓ Hydroseed prior to rain season
Road shoulder maintenance	11-1 Apply water to unpaved shoulders prior to clearing; and 11-2 Apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder maintenance.	✓ Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs ✓ Use of chemical dust suppressants can inhibit vegetation growth and reduce future road shoulder maintenance costs

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Screening	12-1 Pre-water material prior to screening; and 12-2 Limit fugitive dust emissions to opacity and plume length standards; and 12-3 Stabilize material immediately after screening.	✓ Dedicate water truck or high capacity hose to screening operation ✓ Drop material through the screen slowly and minimize drop height ✓ Install wind barrier with a porosity of no more than 50% upwind of screen to the height of the drop point
Staging areas	13-1 Stabilize staging areas during use; and 13-2 Stabilize staging area soils at project completion.	✓ Limit size of staging area ✓ Limit vehicle speeds to 15 miles per hour ✓ Limit number and size of staging area entrances/exists
Stockpiles/ Bulk Material Handling	14-1 Stabilize stockpiled materials. 14-2 Stockpiles within 100 yards of off-site occupied buildings must not be greater than eight feet in height; or must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.	✓ Add or remove material from the downwind portion of the storage pile ✓ Maintain storage piles to avoid steep sides or faces

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure	Guidance
Traffic areas for construction activities	15-1 Stabilize all off-road traffic and parking areas; and 15-2 Stabilize all haul routes; and 15-3 Direct construction traffic over established haul routes.	✓ Apply gravel/paving to all haul routes as soon as possible to all future roadway areas ✓ Barriers can be used to ensure vehicles are only used on established parking areas/haul routes
Trenching	16-1 Stabilize surface soils where trencher or excavator and support equipment will operate; and 16-2 Stabilize soils at the completion of trenching activities.	✓ Pre-watering of soils prior to trenching is an effective preventive measure. For deep trenching activities, pre-trench to 18 inches soak soils via the pre-trench and resuming trenching ✓ Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment
Truck loading	17-1 Pre-water material prior to loading; and 17-2 Ensure that freeboard exceeds six inches (CVC 23114)	✓ Empty loader bucket such that no visible dust plumes are created ✓ Ensure that the loader bucket is close to the truck to minimize drop height while loading
Turf Overseeding	18-1 Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and 18-2 Cover haul vehicles prior to exiting the site.	✓ Haul waste material immediately off-site

TABLE 1
BEST AVAILABLE CONTROL MEASURES
(Applicable to All Construction Activity Sources)

Source Category	Control Measure		Guidance
Unpaved roads/parking lots	19-1	Stabilize soils to meet the applicable performance standards; and	✓ Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements
	19-2	Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.	
Vacant land	20-1	In instances where vacant lots are 0.10 acre or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and/or off-road vehicle trespassing, parking and/or access by installing barriers, curbs, fences, gates, posts, signs, shrubs, trees or other effective control measures.	

APPENDIX C

TRANSPORTATION CONFORMITY WORKING GROUP DOCUMENTS

RTIP ID# *(required)* LA0B103

Project Description *(clearly describe project)*
The City of Santa Clarita proposes to construct a 1,100-foot-long, 6-lane bridge over the Santa Clara River, connecting Golden Valley Road to Newhall Ranch Road. The project location and extent are shown in the attached Figures 1, 2, and 3. The proposed typical section of the bridge would include a six-lane roadway with a 14-foot median island and pedestrian and bicycle lanes. Generally, the total curb-to-curb width would be approximately 90 feet with a total right-of-way width of approximately 120 feet. Construction is anticipated to take 12 months and would commence in fall 2007.

Type of Project *(use Table 1 on instruction sheet)*
New regionally significant street

County	**Narrative Location/Route & Postmiles:** The Golden Valley Road Bridge would connect to Newhall Ranch Road, located northwest of the project site, and Golden Valley Road, south of the project site. Newhall Ranch Road is currently under construction by others and is not part of the proposed project. At its southern extent, the project would connect to the Golden Valley Road/Soledad Canyon Road interchange, which has recently been completed. **Caltrans Projects – EA#** 932589
Los Angeles	

Lead Agency: City of Santa Clarita

Contact Person	**Phone#**	**Fax#**	**Email**
Hoon Hahn	661- 255-4953	661-259-8125	HHAHN@santa-clarita.com

Hot Spot Pollutant of Concern *(Check one or both)* PM2.5 x PM10 PM10 conformity determination was initiated prior to the March 2006 Final Rule, therefore, the Interagency Consultation is not applicable to PM10.

Federal Action for which Project-Level PM Conformity is Needed *(check appropriate box)*

Categorical Exclusion (NEPA)	x	**EA or Draft EIS**	**FONSI or Final EIS**	**PS&E or Construction**	**Other**

Scheduled Date of Federal Action: April 2007

Current Programming Dates *as appropriate*

	PE/Environmental	**ENG**	**ROW**	**CON**
Start	2003	2005	April 2007	Aug. 2007
End	April 2007	Jul. 2007	Sept. 2007	Aug. 2008

Project Purpose and Need (Summary): *(attach additional sheets as necessary)*

The purpose of the project is to provide a second east-west connection across the Santa Clarita Valley.

The trend of past growth in Santa Clarita is anticipated to continue into the foreseeable future. According to the California Department of Finance's Demographic Research Unit, the current population of Santa Clarita is 167,412 residents. The Southern California Association of Governments (SCAG) projects that the population will increase to 231,846 by 2030. The number of households is likewise anticipated to increase from 50,887 in 2004 to 82,806 by 2030, an average annual growth rate of 2.09 percent. This compares to average annual growth rates for the County of Los Angeles and SCAG region as a whole of 1.04 and 1.40 percent, respectively (SCAG 2004).

Given the past and anticipated future growth in population and employment, intraregional traffic, interregional traffic, and commuter traffic are also projected to increase. Current traffic demand in the project area meets or exceeds roadway capacity for many of the arterial roadways. Traffic demand is anticipated to increase over the next few years. Under the "No Action" alternative, levels of service (LOS) at a number of intersections would be expected to deteriorate to unacceptable LOS in the long term.

(continued on attached pages)

Surrounding Land Use/Traffic Generators *(especially effect on diesel traffic)*
The project site is currently undeveloped, and is zoned Residential Moderate (RM) and Industrial Commercial (IC). Existing surrounding land uses include open space, a mobile home park. The nearest existing residential receptor is more than 1,000 feet from the project site. The nearest commercial receptor is approximately 500 feet away.

Future land uses along Newhall Ranch Road and Golden Valley Road north of Newhall Ranch Road would be extensive residential development, with an anticipated low percentage of diesel vehicle trips generated. The nearest anticipated future residential receptor would be approximately 800 feet away.

Opening Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility

	LOS	AADT	% Trucks	No. Trucks	Truck AADT
Build	A	20,000	5% all/ 3% ≥ 3 axle		1,150 all/ 670 diesel
No Build	n/a	0	0	0	0

RTP Horizon Year / Design Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility

	LOS	AADT	% Trucks	No. Trucks	Truck AADT
Build	C - D	40,000 or 46,000	5% all/ 3% ≥ 3 axle		2,300 all/ 1,380 diesel
No Build	n/a	0	0	0	0

See notes below

Opening Year: If facility is an interchange(s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT
The facility would not construct an interchange or intersections.

A traffic analysis was not made for opening year. Data shown is estimated at 50 percent of horizon year volumes. Opening of the bridge would precede most of the residential development that will occur on the lands north and south of Newhall Ranch Road.

RTP Horizon Year / Design Year: If facility is an interchange (s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT
The facility would not construct an interchange or intersections.

Horizon year traffic volumes of 40,000 AADT or 46,000 AADT are based on two scenarios analyzed in the project traffic report (Katz, Okitsu 2004); the two scenarios are with and without Santa Clarita Parkway. The planned developments adjacent to Newhall Ranch Road, west of the Golden Valley Road Bridge would be principally residential and residential-serving commercial. Thus, the traffic generated by these developments would have a relatively small percentage of trucks, and would be the dominant source of traffic at the proposed bridge. A secondary source of traffic would be east-west traffic between I-5/SR 126 and SR 14, where drivers choose this new route, rather than Soledad Canyon Road.

Truck AADT data for Soledad Canyon Road is not available. Truck AADT for SR 14 east of the project site is approximately 5 percent of the total AADT. Approximately 40 percent of the SR 14 trucks are 2-axle trucks, which are not likely to be diesel engine driven. Therefore 60 percent of the truck AADT, or 3 percent of the total AADT on SR 14 may be assumed to be diesel trucks.

Although the truck percentage on Newhall Canyon Road and the Golden Valley Road Bridge is likely to be much less than on SR 14, the SR 14 data is taken as a conservative estimate. Therefore, if the AADT for the proposed Golden Valley Road Bridge is 46,000, and 5 percent of the AADT is trucks, then the truck AADT would be 2,300. Further if 60 percent of the trucks are diesel trucks, then the diesel truck AADT would be 1,380.

Describe potential traffic redistribution effects of congestion relief *(impact on other facilities)*
The proposed project would alleviate congestion currently experienced along nearby regional roads, including Soledad Canyon Road and Bouquet Canyon Road. The project would be a component of the Cross Valley Connector, a project of the City of Santa Clarita to improve regional, cross-valley travel between Interstate 5 to the west and State Route 14 to the east. As such, other arterial roads within the City would benefit from the proposed project.

Comments/Explanation/Details *(attach additional sheets as necessary)*
It is believed that the proposed project is not a POAQC. This conclusion is based on the following reasons:

As described above, the project is part of the Cross Valley Connector. A primary purpose of the Cross Valley Connector is to relieve congested roadways.

Anticipated maximum traffic volumes of 40,000 to 46,000 AADT are well below the 125,000 AADT threshold suggested in the Interim Guidance Document.

Diesel traffic would be less than 10,000 AADT.

The project would not serve land uses that generate diesel truck trips.

The project would serve primarily gasoline-powered vehicles.

The project will not be located in proximity to populated areas.

The project: does not increase diesel traffic by more than 3% - 5%.

Golden Valley Road Bridge
Purpose and Need Statement (cont.)

The Golden Valley Road Bridge Project is needed to complete a critical segment of the Cross Valley Connector (CVC) Project, which is included in the Santa Clarita General Plan Circulation Element. The CVC is planned to be an arterial east-west route through the Santa Clarita Valley that would increase regional capacity by connecting Interstate 5 (I-5)/State Route 126 (SR 126) in the west to State Route 14 (SR 14) in the east. It is planned to improve patterns of circulation, movement of people and goods, and access control in the area. It would also have an important role in helping to relieve congestion and accommodate the rate of population and employment growth being experienced in the Valley.

The CVC would not be the sole east-west route between I-5/SR 126 and SR 14. San Fernando Road and Soledad Canyon Road are two existing routes providing connection across the I-5/SR 126 and SR 14 "V". Thus, the Golden Valley Road bridge would help alleviate traffic congestion along Soledad Canyon Road and Bouquet Canyon Road by providing an alternative east-west route through Santa Clarita, eliminating out-of-direction travel and improving interregional travel through increased east-west mobility.

The primary purpose of the proposed project is:

- to provide an additional east-west transportation corridor across the Santa Clara River as specified in the City's General Plan;
- to complete an essential portion of the CVC Project;
- to complete an east-west route across the Santa Clarita Valley;
- to connect I-5 and SR 126 in the west to SR 14 in the east;
- to alleviate traffic congestion along Soledad Canyon Road and Bouquet Canyon Road;
- to eliminate out-of-direction travel and improve interregional travel by improving east-west mobility;
- to improve local access to commercial and industrial areas within Santa Clarita;
- to improve local air quality; and
- to construct a roadway that would minimize environmental hazards.

Source: City of Santa Clara; ESRI

NORTH

6 3 0 6 Miles

Figure 1
Regional Location Map

Source: City of Santa Clarita, 2004

0 375 750 1,500 Feet

1 inch equals 750 feet

Figure 2
Project Location Map

Source: City of Santa Clarita, 2002

0 200 400 800 1,200 Feet

1 inch equals 400 feet

Figure 3
Proposed Golden Valley Road Bridge

TRANSPORTATION CONFORMITY WORKING GROUP
of the
SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS

January 30, 2007
Minutes

THE FOLLOWING MINUTES ARE A SUMMARY OF ACTIONS TAKEN BY THE TRANSPORTATION CONFORMITY WORKING GROUP. AN AUDIOCASSETTE TAPE OF THE ACTUAL MEETING IS AVAILABLE FOR LISTENING IN SCAG'S OFFICE.

The Transportation Conformity Working Group held its meeting at the SCAG office in Los Angeles.

In Attendance:

Naresh Amatya	SCAG
Rosemary Ayala	SCAG
Jennifer Bergener	OCTA
Mike Brady	Caltrans Headquarters
Vicente Cordero	LADOT
Keith Cooper	Jones & Stokes
Sheryll Del Rosario	SCAG
Dan Duncan	City of Santa Clarita
Hoon Hahn	City of Santa Clarita
Kathy Higgins	SCAQMD
Lori Huddleston	LA MTA
Shawn Kuk	SCAG
Philip Law	SCAG
Ken Lobeck	RCTC
Rich Macias	SCAG
Betty Mann	SCAG
Rich Macias	SCAG
Jennifer Martinez	EDAW
Stephanie Masuda	LADOT
Shirley Medina	RCTC
Brad McAllister	MTA
Paul Meshkin	LADOT
Jonathan Nadler	SCAG
Lisa Ochsner	L.A. City
Lisa Poe	SANBAG
Eyvonne Sells	AQMD
Arnie Sherwood	ITS Berkley/SCAG
Carla Walecka	TCA
Frank Wen	SCAG
LeeAnn Williams	Caltrans District 7

TRANSPORTATION CONFORMITY WORKING GROUP
of the
SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS

January 30, 2007
Minutes

Via Teleconference:

Arman Behtash	Caltrans District 12
Ben Cacatian	Ventura County APCD
Maria Cadez	IBF Consulting
Nina Chanden	Caltrans District 8
Everett Evans	Caltrans District 12
Andrew Ewing	Caltrans District 7
Paul Fagan	Caltrans District 8
Edison Jeffrey	Caltrans District 8
Sandy Johnson	Caltrans District 11
Irene Gallo	Caltrans Headquarters
Tony Louka	Caltrans District 8
Ken Lobeck	RCTC
Jean Mazur	FHWA
Dennis Wade	CARB
Andrew Yoon	Caltrans District 7

1.0 CALL TO ORDER

The Honorable Jennifer Bergener, Chair, called the meeting to order at 10:05 a.m.

Chair Bergener announced that her term as Chairperson has concluded and Brad McAllister, Metro, will be the new Chairperson. Mr. McAllister introduced himself and thanked Ms. Bergener for a successful term.

2.0 PUBLIC COMMENT PERIOD

There were no public comments.

TRANSPORTATION CONFORMITY WORKING GROUP
of the
SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS

January 30, 2007
Minutes

3.0 CONSENT CALENDAR

3.1 Approval Item

3.1.1 Approve November 28, 2006 Meeting Minutes

Eyvonne Sells, AQMD, recommended that the minutes be more reflective of the issues being raised by each agency and the resolution to the issues, in addition to the technical information being presented.

Jonathan Nadler, SCAG, responded that while staff does its best to summarize the issues and any resolutions that arise during the TCWG meetings, there is often discussion on an issue with no resolution and the item is discussed again at the next meeting. Nevertheless, staff will make a greater effort to ensure the minutes reflect the substantive discussions of the group.

MOTION was made to APPROVE the minutes.
MOTION was SECONDED and UNANIMOUSLY APPROVED.

4.0 INFORMATION ITEMS

4.1 RTIP Update

Rosemary Ayala, SCAG, stated that there were several things happening in the RTIP section. There is a formal amendment out for a 30-day public review. The review ends today. Staff will transmit the amendment at the end of the week to the State and FHWA for their review and approval. Staff is also working on the SAFETEA-LU gap analysis for the RTIP and will bring it to the TCWG in February. The goal is to have the analysis to the Federal Agencies in May. The region is also working on an amendment for the Corridor Mobility Improvement Account (CMIA) projects. The next amendment will have to include the CMIA projects or the Bond 1B projects and the 2006 STIP augmentation projects. The FHWA has requested that they receive this amendment on June 1. SCAG and the CTCs met and agreed on a draft amendment schedule.

The amendment that may be problematic is the 2006 STIP Amendment that has not been approved by the CTCs until June 7. The federal agencies

requested the amendment to be submitted by June 1, in order to have sufficient review time and have it approved by July 1 so the regions are not stuck in a lock-down because of SAFETEA-LU compliance. March 2 is the due date from the commissions to SCAG. The target date for the start of the 30-day public review is April 5. The review would end May 24 which would get the amendment back to FHWA staff by June 1. Caltrans has requested that when the public review commences a copy of the amendment also be sent to their agency so they can start reviewing and get back with any questions prior to June 1.

Amendment 3 is still under review. CMIA Projects, potential STIP augmentations projects, and the Scope will have to be amended into the RTP, as well. There is a process underway to accommodate those. The regional emissions analysis for both the STIP and RTP will be a combined effort. Staff is still working on how the analysis is going to be circulated.

4.2 RTP Update

Shawn Kuk, SCAG, reminded the TCWG that the RTP Gap Analysis for the 2004 RTP is looking at the SAFETEA-LU compliance date of July 1, 2007. The Gap Analysis work is almost complete. The draft Gap Analysis was submitted to the FHWA in November for review. Staff has currently received comments from both the FHWA and Caltrans. The draft was also released for public comments on December 12. The draft was presented to SCAG's Transportation Communications Committee on December 14. Staff is in the process of finalizing the Gap Analysis and addressing the comments. Staff intends to present the final document to the Transportation Communications Committee and Regional Council for adoption on March 1. Subsequently, the analysis will go to the FHWA for certification.

Staff is currently working on terms of determining the base year and base line system performance measures, system gaps and deficiencies, base year performance and base year gaps for the 2007 RTP.

The financing for freight/rail and the finance plan are still in development. Additionally, staff is continuing work on the revenue projections, which is anticipated to be completed by February 2007. The project listing from counties, including new revenue sources, will also be done by February.

Future year performance and future year gaps will be established between February and April.

The 2004 RTP was last amended on July 27, 2006. The new amendment, which will include the CMIA projects, is currently being drafted. Staff sent a letter to all region CTC's and the district Caltrans offices in December and are receiving requests for the amendment

4.3 TCM Update

Jonathan Nadler, SCAG, stated that the TCWG has had numerous discussions on the Caltrans TCM substitution regarding moving from a full-time HOV to a part-time HOV on an 8-mile segment of SR-60. The segment would begin just east of SR-60 and I-215 junction and continue to Redlands Boulevard. It is the last link of an HOV; thereafter it is not an HOV. The conversion will last for a period of three years, after such time, it will revert back to a full-time HOV. The emissions analysis reported a shortfall of pollutants by tenths of tons. Therefore, some replacement projects need to be considered. RCTC has submitted five projects, which include:

- Commuter rail station parking structure in Corona
- A park and ride facility in Perris
- Freeway service patrol expansions
- Elimination of stop signs
- Coordination of traffic signals

The public comment period is still open, ending February 9, 2007.

Eyvonne Sells, SCAQMD, questioned whether the information presented to the TCWG, including a revised staff report and a detailed emissions analysis from RCTC for the five substitution projects, is new information such that the comment period will be extended another 30 days.

Mr. Nadler responded that the TCM substitution report has been updated in response to public comment and was presented to the TCWG once available rather than the standard procedure of providing a final report after the close of the public comment period.

Ms. Sells stated that she believed additional review time was warranted. Since SCAQMD is a responsible agency for ensuring SIP emission reductions are accounted for when TCMs are substituted, Ms. Sells must be able to adequately apprise SCAQMD management of the appropriateness of the proposed TCM substitution.

Mr. Nadler agreed to consider the request, but questioned whether the nine days remaining in the comment period was not sufficient. Mr. Nadler pointed out that regulatory agencies, including SCAQMD, generally do not re-start a public comment period based on changes made to a proposal as a result of comments received. Mr. Nadler acknowledged the importance of procedure and reminded the TCWG of the lengthy discussions and reviews of this particular proposal, both as part of the regular TCWG meetings as well as sub-group meetings. To put the proposal in perspective, Mr. Nadler mentioned that we are talking about tenths of a ton in this discussion and hundreds of tons during our AQMP discussions. Mr. Nadler also pointed out that the proposal is a temporary TCM modification and the substitute TCMs are not, and the proposal in total would result in a net air quality benefit.

4.4 AQMP Update

Eyvonne Sells, SCAQMD, reported that the draft 2007 South Coast AQMP is scheduled to be released by February 16, 2007. The public workshops are being scheduled for March and the public hearings are scheduled for April.
Frank Wen, SCAG, provided an overview and update of the socioeconomic data used for the 2007 AQMP. The data are those used for the 2004 Regional Transportation Plan (RTP) as updated by new information which has become available since 2004. Mr. Wen walked the group through the 2007 RTP Integrated Growth Forecasting process to document how the socioeconomic data is updated to account for new information. The socioeconomic data developed from this process is used for a number of planning efforts, including the Regional Transportation Plan, the Regional Housing Needs Assessment, and the AQMP. Mr. Wen discussed how the growth forecast basically reflects historical trends, based on reasonable key technical assumptions, and existing and newly approved local/regional projects.

Jean Mazur, FHWA, asked for clarification about the timing of the Compass Blueprint and RTP private investment policy components in the forecast.. Mr. Wen stated that the forecast are based historical data up to 2015 at which time these two policy components are factored into the forecast. Previous planning efforts had assumed a 2010 start date for these policy components. Ms. Mazur also asked if the growth scenarios will be a redistribution of housing. Mr. Wen clarified that it will be based on housing, employment, and population. Additionally, Ms. Mazur asked if there was formal documentation available of the forecasting process. Mr. Wen confirmed that all meeting materials and comments received from technical groups and public outreach efforts are formally documented.

Jonathan Nadler, SCAG, commented on the relationship of the on-going growth forecast process relative to the growth forecast used in developing the 2007 AQMP, which sets the conformity emission budgets for the non-attainment areas of the region. Mr. Nadler discussed how Mr. Wen's staff developed socioeconomic data forecasts based on the latest best available data and on their understanding of the data forthcoming through the on-going Integrated Growth Forecast/Regional Housing Needs Assessment (RHNA) process. The challenge lies in reconciling the growth forecast data used to develop the emission budgets in the AQMP with the data which will be used for the 2007 RTP. Arnie Sherwood, ITS Berkley/SCAG, pointed out that since the AQMP process and the setting of the emission budgets occurs before the next RTP update cycle, there needs to be a process to resolve any discrepancies if the on-going growth forecast process alters socioeconomic data and causes the RTP to have different forecast data and emissions profile than the AQMP.

Carla Walecka, Transportation Corridor Agencies, asked if the housing numbers contained in the 2007 RTP Integrated Growth Forecasting are the same as those included in the recently released RHNA estimates. Mr. Wen pointed out that there is a difference between household versus housing, and that the RTP transportation modeling uses households. He also discussed that relative to the local input received as part of the RHNA process, population and employment is generally in line with the data set used for the AQMP whereas the household forecast in Orange County is higher; however, a decline in households in Los Angeles County generally offsets this on a regional basis.

In response to a request for certain items to be discussed at the TCWG, Mr. Nadler explained how emission reductions associated with the RTP, the TCMs, and Compass were calculated for the draft AQMP. For the TCM modeling exercise, socioeconomic data variables were held constant and the transportation network was modified to account for the TCMs. To estimate the benefits of Compass, the transportation network was held constant and socioeconomic data associated with Compass was modified between baseline and project conditions. Mr. Sherwood noted that the TCMs benefits will be smaller than what they have been historically. This is due to the fact that the TCMs were generally scheduled for attaining the 1-hour ozone standard in 2010 and thus are mostly complete and have become part of the baseline.

In terms of a question regarding the emission precursors for PM2.5, Mr. Nadler discussed that the SCAQMD has identified the pollutants of concern as SOx being the greatest driver for PM2.5, followed by direct PM2.5, then NOx, then VOC. The control strategy is geared to SOx reductions, especially from ocean-going vessels, as this pollutant is the greatest contributor to PM2.5 concentrations.

Another question was posed whether the annual or 24-hour PM2.5 standard is more restrictive. Mr. Nadler indicated that the annual is more restrictive.

Mr. Nadler then presented an overview of the on-going technical and policy issues surrounding the 2007 South Coast AQMP. These include a "blip" in the vehicles miles traveled (VMT) data for the year 2005 in CARB's emission factor model (EMFAC2007) relative to SCAG data, differences between SCAQMD and CARB over what controls are necessary and feasible to achieve the PM2.5 standards by 2015, and whether or not to bifurcate the ozone and PM2.5 plans (the federally required submittal dates are June 2007 and April 2008, respectively). These items are likely to be discussed in a policy paper to be released by the SCAQMD in the near future.

Ms. Sells requested that we place on the next agenda a discussion of the court decision for the 8-hour ozone standard.

4.5 Review of PM Hot Spot Interagency Review Forms

The TCWG considered four interagency review forms to determine whether the projects were of air quality concern and required a qualitative PM Hot Spot analysis. The review concluded the following:

RIV050201:	Not a POAQC – hot spot analysis not required
LA996425:	Not a POAQC – hot spot analysis not required
LA0B103:	Pending further discussion with EPA
OR2587:	Not a POAQC – hot spot analysis not required

5.0 CHAIR'S REPORT

No new items to report.

6.0 INFORMATION SHARING

Mr. Nadler gave a brief overview of the court case referenced by Ms. Sells. The SCAQMD entered into a lawsuit with USEPA in regard to the revocation of the 1-hour ozone standard. The court decided that USEPA has the authority to revoke the 1-hour standard and replace it with an 8-hour standard, but that there are certain controls being implemented under the 1-hour standard that cannot be dropped, including emission budgets, since this would constitute "backsliding." SCAG staff has initiated conversation with USEPA and SCAQMD to determine the implications of the court decisions, including whether we need to meet the 1-hour emission budgets and redo the 1-hour attainment demonstration.

Mr. Nadler also indicated that he would attempt to provide additional time to review the proposed Caltrans TCM substitution project.

7.0 ADJOURNMENT

The Honorable Brad McAllister adjourned the meeting at 12:00 p.m.

The next Transportation Conformity Working Group meeting will be held on Tuesday, February 27, 2007 at the SCAG office in Los Angeles.

From: "Jonathan Nadler" <nadler@scag.ca.gov>
To: "Mazur, Jean" <Jean.Mazur@fhwa.dot.gov>, <OConnor.Karina@epamail.epa.gov>
Date: 2/7/2007 11:09:19 AM
Subject: RE: Please Review-TCWG PM2.5 Project

Thanks, Jean.

-----Original Message-----
From: Mazur, Jean [mailto:Jean.Mazur@fhwa.dot.gov]
Sent: Wednesday, February 07, 2007 11:04 AM
To: OConnor.Karina@epamail.epa.gov; Jonathan Nadler
Cc: Andrew Yoon; Bill Graham; Bill Maddux; Sheryll Del Rosario; dwade@arb.ca.gov; esells@aqmd.gov; Hoon Hahn; huddlestonl@metro.net; Jen Martinez; mcallesterb@metro.net; Mike Brady; Rosen.Rebecca@epamail.epa.gov; Kelly.Johnj@epamail.epa.gov
Subject: RE: Please Review-TCWG PM2.5 Project

FHWA is ok with this as a project not of air quality concern.

Jean

-----Original Message-----
From: OConnor.Karina@epamail.epa.gov [mailto:OConnor.Karina@epamail.epa.gov]
Sent: Wednesday, February 07, 2007 10:50 AM
To: Jonathan Nadler
Cc: Andrew Yoon; Bill Graham; Bill Maddux; Sheryll Del Rosario; dwade@arb.ca.gov; esells@aqmd.gov; Hoon Hahn; huddlestonl@metro.net; Mazur, Jean; Jen Martinez; mcallesterb@metro.net; Mike Brady; Rosen.Rebecca@epamail.epa.gov; Kelly.Johnj@epamail.epa.gov
Subject: RE: Please Review-TCWG PM2.5 Project

EPA does not believe that this is a project of concern because the truck volumes are expected to be well below the example provided for a new facility in the preamble to the PM hot-spot rule and the qualitative guidance. The example in the preamble to the PM hot-spot rule and in the qualitative guidance is written in terms of facilities with total traffic volumes of 125K with 8% of that traffic being diesel trucks. That would be about 10K diesel trucks per day using the new facility.

The information that you forwarded indicates that there will be about 700 diesel trucks/day using the bridge in the opening year, 2008. In the design year, which is probably somewhere in the range of 2025 to 2030, it is projected that about 1,400 diesel trucks will use the bridge each day. Total AADT in both the opening and design years is well below 125K and the percentage of diesel trucks is around 5% or less in both the opening and design years. Therefore, we don't believe that this is a project of concern.

Please let me know if you have any further questions, thanks, Karina

Karina,

As per original email below, I foresaw an issue with setting up a conference call. Please review LA0B103 and send your thoughts via email so we can have a virtual discussion. Thank you.

Jonathan

http://scag.ca.gov/tcwg/pdfs/projectlist/january2007/LA0B103-City%20of%20Santa%20Clarita.pdf

From: Jonathan Nadler
Sent: Tuesday, January 30, 2007 3:26 PM
To: oconnor.karina@epa.gov; Mazur, Jean; Mike_Brady@dot.ca.gov; esells@aqmd.gov; dwade@arb.ca.gov
Cc: 'mcallesterb@metro.net'; Sheryll Del Rosario; huddlestonl@metro.net; Andrew Yoon; Hoon Hahn; Jen Martinez; Bill Maddux; Bill Graham
Subject: Please Review-TCWG PM2.5 Project

Karina,

At the TCWG meeting today, there was one project being analyzed for POAQC status for which the TCWG seeks your input. There is a timing constraint to making a decision on the project, so Jean and Mike agreed to discuss either by conference call or via email to finalize the review of the project as soon as possible. I assume an email discussion will be easier than trying to set up a time we are all available to talk.

The project is LA0B103 (see http://scag.ca.gov/tcwg/pdfs/projectlist/january2007/LA0B103-City%20of%20Santa%20Clarita.pdf plus attached figures).

I've included Hoon Hahn, City of Santa Clarita, as well as supporting consultants as recipients of this email. They can answer project description/analysis questions you may have.

Thank you,

Jonathan

(See attached file: Golden Valley Road Bridge_Figures.pdf)

CC: "Andrew Yoon" <andrew_yoon@dot.ca.gov>, "Bill Graham" <Bill.Graham@edaw.com>, "Bill Maddux" <Bill.Maddux@edaw.com>, "Sheryll Del Rosario" <delrosar@scag.ca.gov>, <dwade@arb.ca.gov>, <esells@aqmd.gov>, "Hoon Hahn" <HHAHN@santa-clarita.com>, <huddlestonl@metro.net>, "Jen Martinez" <Jen.Martinez@edaw.com>, <mcallesterb@metro.net>, "Mike Brady" <mike_brady@dot.ca.gov>, <Rosen.Rebecca@epamail.epa.gov>, <Kelly.Johnj@epamail.epa.gov>

Golden Valley Road Bridge Project NESR

Natural Environment Study Report

City of Santa Clarita

Los Angeles County, California

Caltrans District 7 - LA-_-_____ (_____)

EA 932589

October 2006

For individuals with sensory disabilities, this document is available in Braille, large print, on audiocassette, or computer disk. To obtain a copy in one of these alternate formats, please call or write to Caltrans, Attn: Chris Benz-Blumberg; District 7; MS 16A, Los Angeles, CA 90012-3602; (213)-897-0674 ; TDD users may contact the California Relay Service TDD line at 1-800-735-2929 or Voice Line at 1-800-735-2922 or use the California Relay Service TTY number, 213-897-6610.

Natural Environment Study Report

City of Santa Clarita

Los Angeles County, California

Caltrans District 7 - LA-_-_____ (_____)

EA 932589

October 2006

Prepared for the City of Santa Clarita

and Caltrans District 7

Prepared By: _____ _____

Erin Riley Date: September 2006
EDAW, Inc.
1420 Kettner Boulevard, Suite 620
San Diego, California 92101

Approved By: _____ _____

Chris Benz-Blumberg Date:
California Department of Transportation, District 7
100 South Main Street
Los Angeles, CA 90012

Summary

This Natural Environmental Survey Report has been prepared by EDAW, Inc., in support of the Golden Valley Road Bridge Project. The project proponent is the City of Santa Clarita, which is the local lead agency for California Environmental Quality Act (CEQA) compliance. The California Department of Transportation (Caltrans) is the lead agency for National Environmental Policy Act (NEPA) compliance. Compliance with federal environmental regulations is necessitated by the anticipated use of federal funds for project construction. The project design is being completed by Dokken Engineering.

The City of Santa Clarita (City) is proposing to construct the 335-meter-long (1,100 feet) Golden Valley Road bridge over the Santa Clara River. The project is located within the City of Santa Clarita in Los Angeles County, California. The proposed typical section of the bridge would include a six-lane roadway with a 4-meter (m) (14-foot [ft]) median island and pedestrian and bicycle lanes. The proposed bridge project would complete a critical eastern segment of the Cross Valley Connector Project, which is included in the City's Circulation Element Amendment. The Connector would provide an additional east-west transportation corridor through the Santa Clarita Valley and across the Santa Clara River. The project would reduce out-of-direction travel and vehicle miles traveled, thereby reducing pollutant emissions and energy consumption.

The Golden Valley Road bridge site is on the eastern portion of the Cross Valley Connector, a project of the City of Santa Clarita to provide an east-west travel route connecting State Route 14 and Interstate 5 across the Santa Clarita Valley. The Area of Effect (AE) encompasses 1.82 hectares (ha) (4.48 acres [ac]) and is defined as that area within which the proposed Golden Valley Road bridge, roadway improvements, construction activities, and staging would be confined. The area surveyed for biological resources, the biological study area (BSA), is defined as a 152-m (500-ft) buffer zone that surrounds the centerline of the proposed bridge. The BSA encompasses 23.86 ha (58.38 ac).

Field analyses included vegetation classifications, focused species surveys, biological species reconnaissance, and jurisdictional wetland delineations. Biological resources potentially affected by the proposed project include four vegetation communities or land cover types, one of which is a sensitive riparian habitat of the Santa Clara River known as southern riparian scrub. Approximately 0.91 ha (2.24 ac) of southern

riparian scrub would be directly impacted by the proposed project (Table S-1). Cumulatively, these four vegetation communities are suitable for 26 sensitive plant species and 40 sensitive wildlife species.

Table S-1: Habitat Impact Matrix

Vegetation Community	Within AE in hectares (acres)
Disturbed Riversidian Coastal Sage Scrub	--
Holly-Leaf Cherry Scrub	--
Big Sagebrush Scrub	0.06 (0.15)
Southern Riparian Scrub	0.91 (2.24)
Ruderal	0.01 (0.02)
Disturbed Habitat	--
Nonwetland Waters of the U.S.	0.84 (2.07)
Total	**1.82 (4.48)**

Note: Indirect impacts are not quantified because there are no established standards to determine the extent of impacts from the point source (dust, sediment, lighting, runoff, illegal trespass, etc.).

Based on the initial habitat reconnaissance surveys, as well as review of environmental documents prepared for regional projects, it was determined that focused surveys were necessary for all 26 sensitive plant species, the arroyo toad (*Bufo californicus*), and the coastal California gnatcatcher (*Polioptila californica californica*). Focused plant and wildlife surveys were completed by qualified EDAW, Inc. (EDAW) biologists during the spring of 2003 and 2006 and followed federal/state survey guidelines.

Five sensitive plant species and five sensitive wildlife species were detected within the BSA (Table S-2). These sensitive species were detected in the BSA during recent field surveys conducted by EDAW during 2003 and 2006, Impact Sciences (2004), and/or Dan Guthrie (1999). Table S-2 depicts the number of individuals observed in the BSA, the suitable habitat impacted by the AE, and compensatory mitigation measures approved in the *Natural River Management Plan - Santa Clara River and Tributaries* (Valencia 1998).

The Natural River Management Plan (NRMP) serves as a long-term management plan for infrastructure projects, such as the Golden Valley Road Bridge Project, expected to impact the Santa Clara River and its associated tributaries. The NRMP was approved by the U.S. Army Corps of Engineers (Corps) and California Department of Fish and Game (CDFG) in 1998. The avoidance and mitigation measures outlined in the NRMP serve as biological guidelines to protect and preserve

Table S-2: Sensitive Species Impact Matrix and Recommended Compensatory Mitigation

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Impacted within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
Slender Mariposa Lily	3 individuals	None.	3 individuals would be indirectly impacted.	Since there would not be any direct impacts to slender mariposa lily, no compensatory mitigation measures would be required. Potential temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard Best Management Practices (BMPs) such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Plummer's Mariposa Lily	35 individuals	None.	35 individuals would be indirectly impacted.	Since there would not be any direct impacts to Plummer's mariposa lily, no compensatory mitigation measures would be required. Potential temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Peirson's Morning Glory	236 individuals	None.	236 individuals would be indirectly impacted.	Since there would not be any direct impacts to Peirson's morning glory, no compensatory mitigation measures would be required. Potential temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

Table S-2: Sensitive Species Impact Matrix and Recommended Compensatory Mitigation (Continued)

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Impacted within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
Palmer's Grappling Hook	50 individuals	None.	50 individuals would be indirectly impacted.	Since there would not be any direct impacts to Palmer's grappling hook, no compensatory mitigation measures would be required. Potential temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Coast Live Oak	1 individual	None.	1 individual would be indirectly impacted.	Since there would not be any direct impacts to coast live oak, no compensatory mitigation measures would be required. Potential temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the City of Santa Clarita and the resource agencies.
Western Spadefoot Toad	1 individual adult, hundreds of tadpoles	1.75 ha (4.31 ac)	A small breeding population would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

Table S-2: Sensitive Species Impact Matrix and Recommended Compensatory Mitigation (Continued)

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Impacted within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
Coastal Western Whiptail	7 individuals	0.97 ha (2.39 ac)	7 individuals would be indirectly impacted.	Compensatory mitigation measures for direct impacts to coastal western whiptail would be riparian habitat-based for the seven individuals impacted. Potential temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
White-tailed Kite	1 individual	0.97 ha (2.39 ac)	1 individual would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Sharp-shinned Hawk	1 individual	0.97 ha (2.39 ac)	No individ-uals would be impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Cooper's Hawk	8 individuals	0.97 ha (2.39 ac)	8 individuals would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

Table S-2: Sensitive Species Impact Matrix and Recommended Compensatory Mitigation (Continued)

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Impacted within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
Western Yellow-billed Cuckoo	1 individual	0.91 ha (2.24 ac)	1 individual would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Loggerhead Shrike	2 individuals	0.06 ha (0.15 ac)	2 individuals would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Yellow Warbler	1 individual	0.91 ha (2.24 ac)	1 individual would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Summer Tanager	1 individual	0.91 ha (2.24 ac)	1 individual would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

Table S-2: Sensitive Species Impact Matrix and Recommended Compensatory Mitigation (Continued)

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Impacted within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
Southern California Rufous-crowned Sparrow	3 individuals	0.06 ha (0.15 ac)	3 individuals would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Bell's Sage Sparrow	1 individual	0.06 ha (0.15 ac)	1 individual would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Tricolored Blackbird	1 individual	0.91 ha (2.24 ac)	1 individual would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
San Diego Black-tailed Jackrabbit	2 individuals	0.97 ha (2.39 ac)	2 individuals would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

Table S-2: Sensitive Species Impact Matrix and Recommended Compensatory Mitigation (Continued)

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Impacted within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
San Diego Woodrat	2 individuals	0.97 ha (2.39 ac)	2 individuals would be indirectly impacted	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Southern Mule Deer	3 individuals	1.82 ha (4.48 ac)	3 individuals would be indirectly impacted.	Potential temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

the sensitive resources of the Santa Clara River and its tributaries. These approved measures are described within this document and shall be implemented to minimize potential impacts to sensitive resources within the project area. In addition, direct and indirect impacts to sensitive species and habitats would require discussions with the resource agencies in order to approve specific impact avoidance, minimization, and mitigation measures outlined in the NRMP.

It is not anticipated that any of the five special status plant species would be permanently impacted by the project design. The five sensitive plant species observed in the BSA are located outside of the AE and are not expected to incur any direct impacts from the proposed roadway. However, there are an additional 21 special status plants that have a low or moderate potential to occur within the vicinity; therefore, preconstruction surveys are recommended to avoid additional impacts to these potentially occurring species.

During the 2006 EDAW surveys for the Golden Valley Road bridge project, five sensitive wildlife species were detected within the BSA. During the earlier 2003 EDAW field surveys of the entire Cross Valley Connector East Project site (EDAW 2004), an additional 11 sensitive wildlife species were detected within the BSA (Table S-2). No sensitive wildlife species were observed within the Golden Valley Road bridge project AE during 2003 or 2006. In addition, no individuals or populations of arroyo toad or coastal California gnatcatcher were observed or detected during focused surveys for these species during 2002, 2003, or 2006.

From the total 55 regional sensitive wildlife species, 13 federally or state listed threatened or endangered wildlife species and 42 state sensitive or otherwise state protected species are known from the vicinity of the BSA but were not detected during these wildlife surveys (Table S-2). Therefore, focused preconstruction surveys are recommended as an avoidance measure to minimize any potential direct or indirect impacts to special status wildlife species.

Much of the BSA is characterized by disturbed native vegetation communities, which have been invaded by exotic plants. Table S-3 lists all exotic plant species that occur within the BSA.

The Bridge Alternative would impact jurisdictional wetlands and other waters within and adjacent to the Santa Clara River. The project would permanently impact 1.00 ha (2.49 ac) of Corps and CDFG jurisdictional waters. Impacts to CDFG jurisdictional resources would permanently affect 0.59 ha (1.46 ac) of wetland habitat in the AE.

Thus, the Corps would take jurisdiction over 1.00 ha (2.49 ac) of the project site, and the CDFG would take jurisdiction over 1.59 ha (3.95 ac) of the project site. These impacts are a portion of the impacts allowable under the terms of a 404 Permit and 1601 Agreement issued for the NRMP. Mitigation measures outlined in the NRMP would require discussions with the resource agencies to approve specific measures for this proposed project.

Table S-3: Invasive Species List

Scientific Name	Common Name
Angiospermae	
Asteraceae - Sunflower Family	
Centaurea melitensis	Tocalote
Brassicaceae - Mustard Family	
Brassica ssp.	Mustards
Hirschfeldia incana	Perennial mustard
Myoporaceae - Myoporum Family	
Myoporum laetum	Myoporum
Solanaceae - Nightshade Family	
Nicotiana glauca	Tree tobacco
Monocotyledoneae	
Poaceae - Grass Family	
Avena barbata	Slender wild oat
Arundo donax	Giant reed
Bromus diandrus	Ripgut grass
Bromus madritensis ssp. *rubens*	Foxtail chess
Cortaderia sp.	Pampas grass
Cynodon dactylon	Bermuda grass
Polypogon monspeliensis	Annual beard grass
Rhynchelytrum repens	Natal grass

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List of Abbreviated Terms

ac	acre(s)
AE	Area of Effect
BMP	Best Management Practice
BO	Biological Opinion
BSA	Biological Study Area
Caltrans	California Department of Transportation
CDFG	California Department of Fish and Game
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CLWA	Castaic Lake Water Agency
CNDDB	California Natural Diversity Data Base
CNPS	California Native Plant Society
Corps	U.S. Army Corps of Engineers
EIS/EIR	Environmental Impact Statement/Environmental Impact Report
FACW	facultative wetland species
FESA	Federal Endangered Species Act
FHWA	Federal Highway Administration
ft	foot / feet
ha	hectare(s)
HGM	Hydrogeomorphic
I-5	Interstate 5
km	kilometer
LOS	level of service
m	meter(s)
MBTA	Migratory Bird Treaty Act
mi	mile(s)
MMRP	Mitigation Monitoring and Reporting Program
NCCP	Natural Community Conservation Planning
NEPA	National Environmental Policy Act
NESR	Natural Environment Study Report
NRMP	Natural River Management Plan
OBL	obligate wetland species

OHWM	ordinary high water mark
ROD	Record of Decision
ROW	right-of-way
RWQCB	Regional Water Quality Control Board
SCAG	Southern California Association of Governments
SEA	Significant Ecological Area
SR 14	State Route 14
SR 126	State Route 126
SWPPP	Stormwater Pollution Prevention Plan
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service

Chapter 1. Introduction

The City of Santa Clarita (City) is proposing to construct the 335-meter (m) (1,100-foot [ft]) long Golden Valley Road bridge over the Santa Clara River. The project is located within Santa Clarita in Los Angeles County, California (Figure 1). The Santa Susanna and San Gabriel mountains are located to the south of the site. The proposed project will connect to Newhall Ranch Road, located northwest of the project site, and Golden Valley Road, south of the project site. Newhall Ranch Road is currently under construction by others and is not part of the proposed project. As indicated in Figure 2, the northern terminus of the proposed project would therefore be the easternmost extent of Newhall Ranch Road. Grading for the majority of Newhall Ranch Road is complete and construction is anticipated to be complete between October 2007 and April 2008. The southern terminus of the proposed project would lie at the northernmost extent of the Golden Valley Road/Soledad Canyon Ranch Interchange, which has recently been completed but is not yet open for public access.

The Biological Study Area (BSA) can be characterized by the limits of the proposed project footprint of the "Bridge Alternative" (described in greater detail in Subsection 1.2.1 below), plus a 152-m (500-ft) survey buffer on each side of the centerline (Figure 3). The BSA encompasses 23.86 hectares (ha) (58.38 acres [ac]).

The proposed Golden Valley Road Bridge Project would result in impacts to a variety of biological resources within the Area of Effect (AE). The AE is defined as that area within which it is anticipated that all bridge construction and staging activities would be confined (Figure 3) and encompasses 1.82 ha (4.48 ac).

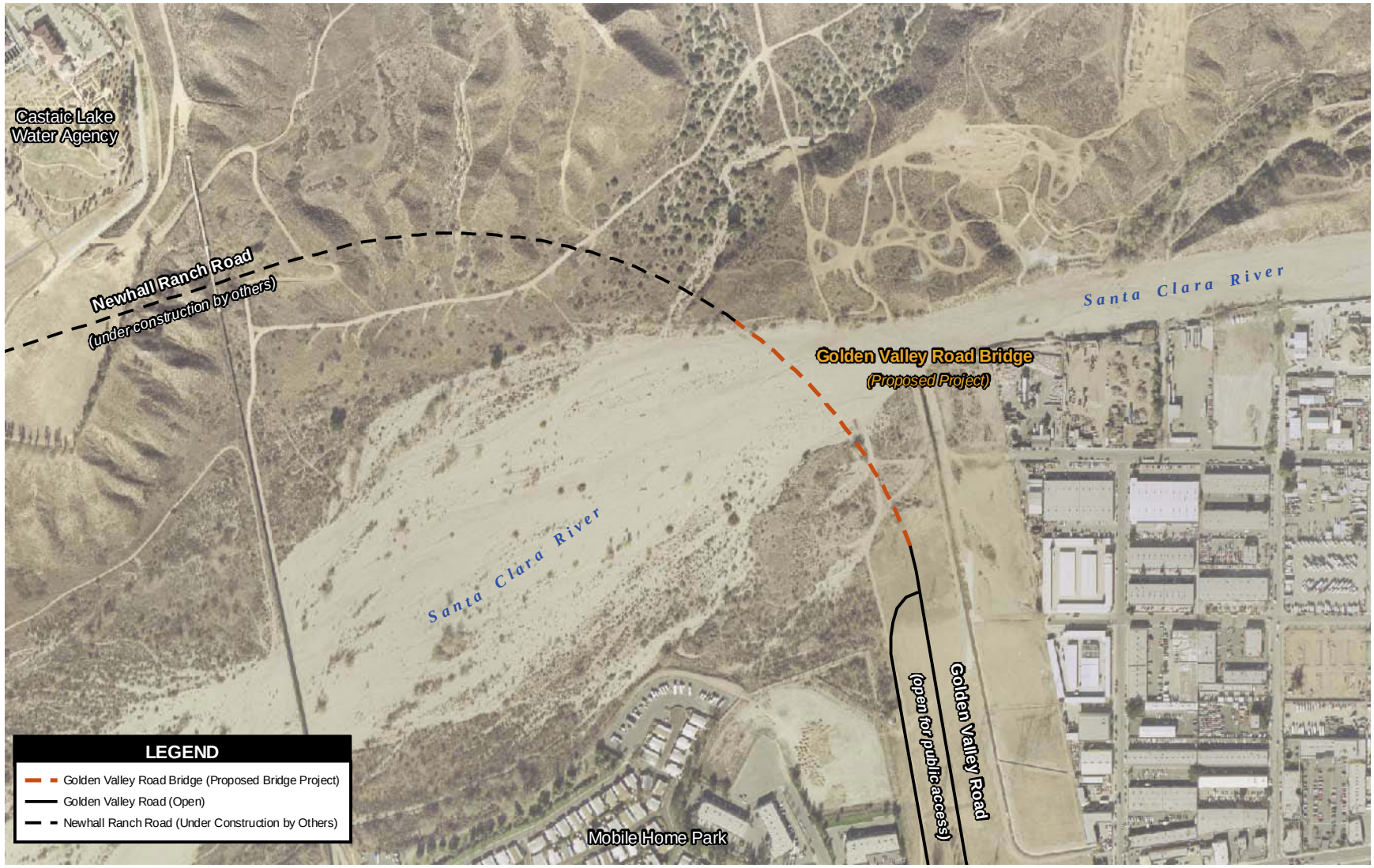
The primary purpose of the proposed project is to provide an additional east-west transportation corridor across the Santa Clara River as specified in the City's General Plan; complete an essential portion of the Cross Valley Connector project; complete an east-west route across the Santa Clarita Valley; connect Interstate 5 (I-5)/State Route (SR) 126 in the west to SR 14 in the east; alleviate traffic congestion along Soledad Canyon Road and Bouquet Canyon Road; eliminate out-of-direction travel and improve interregional travel by improving east-west mobility; improve local access to commercial and industrial areas within Santa Clarita; improve local air quality; and construct a roadway that would minimize environmental hazards. The proposed Golden Valley Road Bridge Project, along with the other approved segments and intersection improvements currently under construction, will complete the Cross Valley Connector. The Cross Valley Connector will provide needed traffic

Source: ESRI

NORTH

6 3 0 6 Miles

Figure 1
Regional Location Map



Source: City of Santa Clarita, 2002, 2005

NORTH

600 300 0 600 Feet

Scale: 1:7,200; 1 inch equals 600 feet

Figure 2
Vicinity Map

Source: Stewart Technologies 2004

500 250 0 500 Feet

Scale: 1:6,000; 1 inch = 500 feet

Figure 3
Biological Study Area

relief to currently congested arterial roadways by augmenting east-west roadway capacity between I-5/SR 126 and SR 14.

Funding sources are the City, state, and federal funds.

1.1. Project History

EDAW, Inc. (EDAW) began work on background and technical studies for the proposed Cross Valley Connector East project in 2002. At that time, the proposed project consisted of the extension of Newhall Ranch Road by approximately 3.2 kilometers (km) (2 miles [mi]) from its existing terminus at Bouquet Canyon Road to a future intersection with Golden Valley Road, and the extension of Golden Valley Road southward to the terminus of the project to construct the Golden Valley Road interchange over Soledad Canyon Road, which was then under construction.

The project scope has since been reduced in geographic extent to consist only of construction of the Golden Valley Road bridge, which is an approximately 335-m (1,100-ft) long bridge spanning the Santa Clara River. The typical section of the bridge would include a six-lane roadway with a 4-m (14-ft) median island, as well as pedestrian and bicycle lanes. In general, the total curb-to-curb width would be approximately 27 m (90 ft) with a total right-of-way (ROW) width of approximately 37 m (120 ft).

The Golden Valley Road Bridge Project (Federal Project Number LA0B103) is needed to complete a critical segment of the Cross Valley Connector Project, which is included in the City's General Plan Circulation Element. The Cross Valley Connector Project consists of the Golden Valley Road bridge and several other approved segments and intersection improvements currently under construction or recently completed. The complete Cross Valley Connector Project was analyzed at a program level in the City's Circulation Element Amendment Environmental Impact Report (City 1997b).

The major components of the Cross Valley Connector are briefly described as follows:

- **I-5/SR 126 interchange –** currently under construction
- **Newhall Ranch Road:**
    - I-5 to Copper Hill Drive – under construction

  - Copper Hill Drive to McBean – built to interim condition (4 lanes) but graded to ultimate (6 lanes); plans currently being processed to construct to build-out
  - McBean to Bouquet Canyon Road – built to ultimate width (6 lanes) but currently stripped for interim conditions (4 lanes)
  - Bouquet to Newhall Ranch Road – currently under construction by Newhall Land Company
- **Golden Valley Road:**
  - Golden Valley Road/Soledad Canyon Road interchange is built
  - From interchange to Centerpointe – road is built out (6 lanes)
  - Centerpointe to Sierra Highway – built to interim condition (4 lanes)
  - Sierra Hwy to SR 14 – built-out to 4 lanes
  - SR 14/Golden Valley Road Bridge – currently being reviewed

The proposed alignment follows a utility corridor and consists of a bridge crossing at the Santa Clara River, which is the specific proposed project analyzed in this Natural Environment Study Report (NESR).

The past trend of growth in Santa Clarita is anticipated to continue into the foreseeable future. According to the California Department of Finance's Demographic Research Unit, the current population of Santa Clarita is 167,412 residents. The Southern California Association of Governments (SCAG) projects that the population will increase to 231,846 by 2030. The number of households is likewise anticipated to increase from 50,887 in 2004 to 82,806 by 2030, an average annual growth rate of 2.09 percent. This compares to average annual growth rates for the Los Angeles County and SCAG region as a whole of 1.04 and 1.40 percent, respectively (SCAG 2004).

With the past and anticipated growth in population and employment, intraregional traffic, interregional traffic, and commuter traffic are also projected to increase. Current traffic demand in the project area meets or exceeds roadway capacity for many of the arterial roadways, with increases in traffic demand anticipated over the next few years, based on proposed area growth. Under the No Action Alternative, levels of service (LOS) at a number of intersections would be expected to deteriorate to unacceptable LOS in the long term.

The Golden Valley Road bridge would complete a crucial eastern segment of the Cross Valley Connector, a proposed arterial east-west route through the Santa Clarita Valley that would considerably increase regional capacity and is part of the larger

planned roadway project programmed in the City's General Plan, connecting I-5/SR 126 in the west to SR 14 in the east. The Cross Valley Connector will improve patterns of circulation, movement of people and goods, and access control in the area. The Golden Valley Road Bridge Project also has an important role in helping to relieve congestion and accommodate the significant population and employment growth being experienced in the Santa Clarita Valley. The proposed bridge project would help alleviate traffic congestion along Soledad Canyon Road and Bouquet Road by providing an alternative east-west route through Santa Clarita, which will eliminate out-of-direction travel and improve interregional travel through increased east-west mobility.

1.1.1. Traffic Demand and Operational Deficiencies

1.1.1.1. Level of Service Definition

Roadway capacity is generally measured as the number of vehicles that can reasonably pass over a given section of roadway in a given period of time. The Highway Capacity Manual, prepared by the National Transportation Research Board, identified travel speed, freedom to maneuver, and proximity to other vehicles as important factors in determining LOS on a roadway. Daily traffic volumes are used to estimate the extent to which peak-hour traffic volumes exceed the maximum desirable capacity of a roadway.

Traffic flow is classified by LOS, ranging from LOS A to LOS F. LOS A is defined as free-flow traffic with no delays and LOS F is defined as forced flow with substantial delays. Generally, when the roadway LOS is LOS E or worse, the theoretical capacity of the roadway is considered to be exceeded.

The LOS for a roadway segment is calculated by dividing the total traffic volume on that segment by the theoretical capacity of the roadway. This volume to capacity ratio provides an expression of traffic flow and congestion on a roadway segment.

1.1.1.2. Existing and Future Traffic Demand

Katz, Okitsu & Associates evaluated existing and future traffic demand for the original proposed project in the *Traffic Report for the Proposed Golden Valley Road and Newhall Ranch Road Projects in the City of Santa Clarita, California*. The report completed in 2005, found that existing traffic demand in the project area meets or exceeds roadway capacity on many of the arterial roadways. However, significant increases in traffic are anticipated in the future based on proposed area growth. The report shows that the Bouquet Canyon Road/Newhall Ranch Road intersection

operates at a good and fair LOS during the AM and PM peak hours, respectively. The Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard intersection operates at a good level in the AM peak hour and at a poor level during the PM peak hour. Construction of the Golden Valley Road bridge will provide an alternative connection between Newhall Ranch Road and Soledad Canyon Road, thus improving overall traffic flow along the Bouquet Canyon Road/Newhall Ranch Road intersection and the Bouquet Canyon Road/San Fernando Road/Soledad Canyon Road/Valencia Boulevard intersection.

1.2. Project Description

The proposed Golden Valley Road Bridge Project is located entirely within Santa Clarita (Figure 1), and entails the construction of the Golden Valley Road bridge over the Santa Clara River. The bridge will connect Soledad Canyon Road and the newly extended Newhall Ranch Road. The northern terminus of the proposed project would therefore be the easternmost extent of Newhall Ranch Road, which is currently under construction to the northwest of the project site. Grading for the majority of Newhall Ranch Road is complete and construction is anticipated to be completed between October 2007 and April 2008. The southern terminus of the proposed project would lie at the northernmost extent of the Golden Valley Road/Soledad Canyon Ranch Interchange, which was recently completed and was opened for public access in late 2005.

The proposed Golden Valley Road Bridge Project comprises a section of roadway identified in the City's General Plan Circulation Element Amendment. Newhall Ranch Road is designated in the Circulation Element Amendment as a Major Highway. North of Soledad Canyon Road, Golden Valley Road is also classified as a Major Highway with Class I Bike Path.

1.2.1. Project Alternatives

Two alternatives are under consideration in this document: the Bridge Alternative and the No Action Alternative. The No Action Alternative is required by the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA) and is analyzed as Alternative 2 (Section 1.2.1.2). The environmental effects associated with the No Action Alternative are discussed in Chapters 3 and 4 of this document. Project approval or selection of the No Action Alternative will not be

made until after the full evaluation of environmental impacts, full consideration of public hearing comments, and approval of the Final NESR.

1.2.1.1. Alternative 1 – Bridge Alternative

The Bridge Alternative would construct a 335-m (1,100-ft) long Golden Valley Road bridge over the Santa Clara River. The proposed typical section of the bridge would include a six-lane roadway with a 4-m (14-ft) median island and pedestrian and bicycle lanes. Generally, the total curb-to-curb width would be approximately 27 m (90 ft) with a total ROW width of approximately 37 m (120 ft). All permanent impacts would occur within the AE. All temporary impacts (e.g., staging areas) would occur within the AE or areas already developed to the east of the AE.

1.2.1.2. Alternative 2 – The "No Action" Alternative

The No Action Alternative would mean that the proposed Golden Valley Road bridge would not be constructed, though the current local and regional circulation system would be maintained. Thus, the proposed alternate east-west route between Soledad Canyon Road and Newhall Ranch Road would not be established, and an essential portion of the Cross Valley Connector project would not be completed. Consequently, the ultimate completion of the Cross Valley Connector from SR 14 to I-5, across the central Santa Clarita Valley would not occur.

1.3 CUMULATIVE IMPACTS

NEPA and CEQA regulations require a discussion of cumulative impacts when the project's effect is cumulatively considerable. The Council on Environmental Quality's regulations governing the implementation of NEPA (40 CFR 1508.7) define a cumulative impact as:

> *"…the impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or non-Federal) or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time."*

The analysis of the cumulative effects of the proposed project also incorporates the suggestions in the CEQA handbook entitled "Considering Cumulative Effects Under the National Environmental Policy Act" (January 1997), which is intended as an informational document rather than formal agency guidance.

Based on the CEQA discussion of cumulative effects, the following principles can be applied to the assessment of cumulative effects of the proposed project:

- Cumulative effects are typically caused by the aggregate effects of past, present, and reasonably foreseeable future actions. These are the effects (past, present, and future) of the proposed action on a given resource and the effects (past, present, and future), if any, caused by all other related actions that affect the same resource.

- When other related actions are likely to affect a resource that is also affected by the proposed action, it does not matter who (public or private entity) has taken the related action(s).

- The scope of cumulative effects analyses can usually be limited to reasonable geographic boundaries and time periods. These boundaries should extend only so far as the point at which a resource is no longer substantially affected or where the effects are so speculative as to no longer be truly meaningful.

- Cumulative effects can include the effects (past, present, and future) on a given resource caused by similar types of actions (e.g., air emissions from several individual highway projects) and/or the effects (past, present, and future) on a given resource caused by different types of actions (e.g., air emissions from a highway project, a solid waste incinerator, and a mining facility).

According to Section 15355 of the State CEQA Guidelines, cumulative impacts refer to:

> "Two or more individual effects which, when considered together are considerable or which compound or increase other environmental effects. The individual effects may be changes resulting from a single project or a number of separate projects. The cumulative impact from several projects is the change in the environment that results from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time."

Furthermore, Section 15130(a) of the State CEQA Guidelines states that:

> An EIR shall discuss cumulative impacts of a project when the project's incremental effect is cumulatively considerable. … When the combined cumulative impact associated with the project's incremental effect and the effects of other projects is not significant, the EIR shall briefly indicate why the cumulative impact is not significant and is not discussed in further detail in the EIR. … An EIR may determine that a project's contribution to a significant cumulative impact will be rendered less than cumulatively considerable and thus is not significant. A project's contribution is less than cumulatively considerable if the project is required to implement or fund its fair share of a mitigation measure or measures designed to alleviate the cumulative impact. …

The provisions of the State CEQA Guidelines, Section 15130(b), subdivisions (b)(1) through (b)(3) list the "necessary elements" that define "an adequate discussion of significant cumulative impacts." According to Section 15130 (b)(1) of the State CEQA Guidelines, either a list of past, present, and probable future projects producing related or cumulative impacts or a summary of growth projections in an adopted general plan or related planning document may be used as the basis for the cumulative impacts discussion.

In addition, an adequate discussion of significant cumulative impacts includes a summary of the expected environmental effects to be produced by those projects with specific reference to additional information stating where that information is available, and a reasonable analysis of the cumulative impacts of the relevant projects. Lastly, an EIR shall examine reasonable, feasible options for mitigating or avoiding the project's contribution to any significant cumulative effects.

1.3.1 Related Projects

Table 1-1 includes projects in the vicinity of the proposed project that are planned, approved, or being constructed.

Table 1-1: Related Projects in the Vicinity of the Proposed Project

No.	Project Name	Location	Description	Status
1	Riverpark	Adjacent to CVCE project	1,089 dwelling units and 16,000 square feet of commercial development.	Rough Grading
2	Gate King Industrial Park	South of San Fernando Road between Pine Street and Sierra Highway	Subdivision of 584 acres into 88 industrial lots for 4.4 million square feet of industrial building and dedication of 239 acres of open space to the City of Santa Clarita.	Grading plans are being reviewed.
3	Western Pacific Housing (Lyons Ranch)	West of I-5 at Calgrove and The Old Road	Subdivision of 384 acres into 3 commercial lots, 831 residential units, 6 acre park, and 211 acres of open space.	No application has been submitted
4	Rice Development	Southwest corner of Bouquet Canyon Road and Newhall Ranch Road	84,000 square foot self-storage facility.	Complete
5	Carl's Jr.	Northwest corner of Via Princessa and Sierra Highway	3,000 square foot drive through restaurant.	Complete
6	Rodgers Development	Northeast corner of Bouquet Canyon Road and Plum Canyon Road	34,000 square foot commercial shopping center.	Completed
7	Montezuma Land Development	Southeast corner of Golden Valley Road and Sierra Highway	Subdivision of 90 acres for 174 single family homes, park, and 4 open space lots.	No formal application has been submitted
8	HH Seco II LLC	Southwest corner of Seco Canyon Road and Copper Hill	40,000 square foot commercial shopping center.	Complete
9	California Canyons Annexation	Northeast corner of Santa Clarita	43.1 acres, 68 existing single-family homes.	Complete
10	North Valencia No. 2		1,900 dwelling units, 210,000 commercial square feet, 15.9 acre community park, and 4.1 acres private recreation areas.	Complete
11	West Creek		2,545 dwelling units, 180,000 commercial retail, 10 acre elementary school, 6.4 acres of recreational facilities.	County Development - In progress.
12	Lost Canyon Road Annexation	West of the Sand Canyon area, south of 14 freeway	38.8 acres of vacant business park zoning.	No Update
13	Northpark Annexation	North and South portions of Decoro Drive	1351 existing residential units on 457 acres.	Complete
14	Stonecrest Annexation	West of Pinetree area, north of 14 freeway	425 existing residential units on 215.9 acres.	In progress
15	Whitney Canyon Annexation	East of the 14 freeway extending east at the terminus of San Fernando Road and into a portion of the Angeles National Forest	481.75 acres of open space.	Complete

Table 1 1: Related Projects in the Vicinity of the Proposed Project (continued)

No.	Project Name	Location	Description	Status
16	Golden Valley Ranch	Southwest of Santa Clarita, east of SR-14 and north of Placerita Canyon Road	1311 acres of planned community – 488 single family, 2 commercial lots, 1 school lot, and 1 fire station site.	In progress fine grading and construction
17	Towsley Canyon Annexation	Southwest of Santa Clarita, west of I-5	5.6 acres of open space.	Complete
18	Porta Bella or Whitaker-Bermite (partial)	South of Soledad Canyon Road, east of Circle J Ranch area	2,911 dwelling units and 92 acres of commercial development on 996 total acres.	In the Courts
19	Tesoro del Valle	North of Copper Hill Drive, west of McBean Parkway	1,791 dwelling units, 10-acre commercial center and elementary school.	County Development
20	Synergy Ermine Street	West of Ermine Street, east of Riverpark site and north of the Santa Clara River	116.71-acre residential site zoned RVL.	Approved by City of Santa Clarita Council
21	Valencia Town Center	East of McBean Parkway, north of Valencia Boulevard, south of Magic Mountain Parkway and west of Citrus Street	Expansion of existing shopping mall for 250,000 square foot department store.	In entitlement review
22	Synergy	Northeast of the CVCE project	979 units, including 96 single family, being developed by Synergy; may include a middle school.	Approved
23	Soledad Townhomes	North side of Soledad Canyon between Bouquet and Golden Valley	409 attached multi-family condominiums and 10,000 square feet of commercial development	Approved
24	Henry Mayo Newhall Memorial Hospital	23845 and 23929 McBean Parkway	Addition of 694,659 square feet to the medical campus	Planning/EIR preparation
25	Downtown Newhall Specific Plan	Downtown Newhall		Approved and Adopted
26	The Master's College	21726 Placerita Canyon Road	Master plan for future development of campus	Planning/EIR preparation

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Chapter 2. Study Methods

There is potential for several federally and state listed threatened or endangered species, or candidate species to be onsite based on existing regional data. The study methodology involved database and background resource document searches. Field studies followed appropriate to vegetation community and species information known for the vicinity of the project site.

2.1. Regulatory Requirements

The project necessitates coordination and permit approvals from the various resource agencies. Impacts to U.S. Army Corps of Engineers (Corps) jurisdictional wetlands and California Department of Fish and Game (CDFG) riparian habitat would require a Department of the Army Permit subject to Section 404 of the Clean Water Act, a Streambed Alteration Agreement from the CDFG pursuant to Section 1600 of the California Fish and Game Code, and certification from the Regional Water Quality Control Board (RWQCB) pursuant to Section 401 of the Clean Water Act. It is also anticipated that the project would require issuance of a National Pollutant Discharge Elimination System General Permit for Storm Water Discharges Associated with Construction Activity from the RWQCB.

2.2. Studies Required

The following databases and reports were used to determine the sensitive species known from the region surrounding the project area: California Natural Diversity Data Base (CNDDB) (CDFG 2006a), California Native Plant Society (CNPS) Electronic Inventory (CNPS 2000), *California's Wildlife Volumes I-III* (CDFG 1988, 1990a, 1990b), the CalFlora database, *Cross Valley Connector East Project Natural Environmental Study Report* (EDAW 2004), *Biological Resources Assessment of the Proposed Santa Clara River Significant Ecological Area* (PCR 2000), *Natural River Management Plan – Santa Clara River and Tributaries* (Valencia 1998), and *Final Environmental Impact Statement/Environmental Impact Report* for the Natural River Management Plan (NRMP) (Corps 1998a). A letter was transmitted to the U.S. Fish and Wildlife Service (USFWS) to confirm those federally listed species that may be present and warrant consideration. Technical tools including the CNDDB and CalFlora databases were used to search for regional sensitive species, confirm previous site locations, and describe habitat requirements. Biological assessments

regarding plant and wildlife were determined based on the information obtained from these resources and the quality of the proposed BSA. The results of the data query were refined through site visits involving habitat assessments for these species. If suitable habitat was not present onsite for a particular sensitive species, it was dropped from further consideration for focused project studies.

Based on vegetation community and species information known for the vicinity of the project site and habitat reconnaissance and vegetation mapping surveys conducted in 2006, it was determined that focused field surveys were necessary for 26 regional sensitive plants (see Chapter 3, Table 3-3) and for two federally and state listed wildlife species, the arroyo toad (*Bufo californicus*) and coastal California gnatcatcher (*Polioptila californica californica*). Surveys for the coastal California gnatcatcher were completed by qualified EDAW biologists permitted by the USFWS. All other general and focused biological surveys were conducted by qualified EDAW biologists.

In addition to the 2006 surveys listed above, the following data recorded in 2003 from the Cross Valley Connector East Project NESR (EDAW 2004) was confirmed and analyzed for this NESR within the proposed project footprint: wetland delineation surveys and sensitive species occurrences.

2.2.1. Survey Methodologies

General wildlife and plant surveys were conducted by walking meandering transects across the BSA, noting all wildlife and plant species observed or detected. In addition, habitat assessments for the sensitive species of concern for the project were conducted by noting the presence or absence of habitat features required by, or associated with, these species. Lists of the wildlife and plant species encountered while conducting the biological studies for the proposed project are provided in Appendices B and C, respectively.

Vegetation communities were classified and mapped in the field from strategic vantage points. Habitats were classified based on the dominant and characteristic plant species, plant physiognomy, and soils in accordance with Holland's description of natural communities (Holland 1986). The initial vegetation mapping was done directly on a 1:1800 scale (1 inch equals 150 ft) topographic aerial photograph of the study area. Acreages of each habitat type (delineated as a habitat polygon on the compiled vegetation maps) were calculated using a geographic information system.

Methodology for rare plant surveys followed the accepted guidelines for rare, threatened, and endangered plants and plant communities. Two focused meandering surveys were conducted once during spring 2006. Data collected during the fall of 2003 and late spring of 2003 (EDAW 2004) were used as reference and confirmed. As such, many late summer- and spring-blooming ephemeral species would have been observable during the survey. Surveys were conducted throughout the BSA, with the exception of developed areas, areas of ornamental plantings, and agricultural areas, as sensitive plants are not anticipated to occur in these areas because of the lack of appropriate habitat and frequent disturbances.

Focused surveys for both the arroyo toad and the coastal California gnatcatcher were conducted according to industry standard methodologies and are described in detail below.

Focused arroyo toad surveys followed the current USFWS protocol guidance, dated May 19, 1999 (USFWS 1999). Surveys consisted of a daytime and a nighttime component. Extreme weather conditions were avoided. Daytime surveys were conducted by mapping suitable habitat and walking along stream margins and adjacent riparian habitat of the Santa Clara River within the BSA. EDAW biologists inspected the stream banks and floodplain for juvenile and adult arroyo toads and examined the inundated portions of the channel for arroyo toad eggs or larvae. The nighttime survey was conducted in a similar manner, except with the aid of headlamps and flashlights to assist in the detection of eyeshine. Nighttime surveys were conducted between 1 hour after dusk and midnight. All sensitive species observed were recorded.

Coastal California gnatcatcher surveys followed the current USFWS protocol guidance, revised July 28, 1997 (USFWS 1997). Focused coastal California gnatcatcher surveys were conducted between 6 a.m. and 12 p.m. and consisted of walking meandering transects through appropriate habitat for the species within the BSA, including all coastal sage scrub associations, as well as upland and wetland habitats adjacent to areas of coastal sage scrub. A playback recording of the species' vocalizations was used during the surveys. Suitable habitat was mapped and all sensitive species observed were recorded.

In addition to the 2006 surveys described above, the following survey results were also considered within this NESR.

During 2002-2003, focused plant and wildlife surveys were conducted within the BSA by EDAW for the proposed Cross Valley Connector project (see Table 2-1). Impact Sciences also conducted focused plant and wildlife surveys within the BSA during 2002-2003 for the proposed Riverpark project. These additional survey results are included in the impact analyses for the plant and wildlife species observed within the BSA.

During 2002, EDAW wetland ecologists Bonnie Morgal and Danielle Tannourji conducted routine wetland delineations along the Santa Clara River within the BSA. The delineations of Corps jurisdictional wetlands were conducted in accordance with Section D, Routine Determinations, Subsection 2, Areas Greater Than Five Acres in Size, in the online, annotated version of the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory 1987, <www.wes.army.mil/el/wetlands/pdfs/wlman87.pdf>). The determination of Corps jurisdictional wetlands is based on three criteria: hydrophytic vegetation, hydric soils, and wetland hydrology. Under normal circumstances, and with the exception of some atypical situations, the 1987 Corps delineation manual requires the presence of indicators for each criterion for an area to be delineated as a wetland, as stated under NEPA. This involves identifying vegetation communities, establishing sample points in each community, and making jurisdictional determinations based on the results of the data collected on vegetation, soils, and hydrology.

Vegetation types were mapped in the field, and data on vegetation, soils, and hydrology were collected as necessary at each sample point. Data on soils were not collected in plant communities (1) in which all dominant plant species were obligate wetland species (OBL), or (2) in plant communities in which all dominant plant species were OBL and/or facultative wetland (FACW) species, and the wetland/upland boundary was abrupt (please see page 48, Part IV Methods in the online version of the 1987 Manual). Hydrology and soils can be assumed if either condition (1) or (2) above is met and there is no evidence of recent hydrologic alteration.

An area was determined to support hydrophytic vegetation if more than 50 percent of the dominant species, as determined by the 50/20 rule using methods outlined in the 1989 Federal Interagency Manual (see Tiner 1999 for an excellent explanation and example of the 50/20 rule), are listed as OBL, FACW, or facultative on the USFWS *National List of Plant Species That Occur in Wetlands: 1988 California (Region 10)* (Reed 1988). All data points, with the exceptions described above, were surveyed for

the presence of primary and, if necessary, secondary field indicators of wetland hydrology.

Corps jurisdiction was considered to extend to the boundary of areas that exhibited the requisite field indicators for each of the three criteria, and/or where ordinary high water mark (OHWM) indicators were clearly evident. If there was evidence that a vegetation community had one or more hydroregimes (i.e., clear evidence of a hydraulic gradient), then additional data points were established to determine the boundary of Corps defined wetlands. Because the RWQCB typically uses the delineation verified by the Corps as the basis for determining impacts to “waters of the U.S.,” this report assumes that all impacts to Corps jurisdiction are also within jurisdiction of the RWQCB.

CDFG jurisdiction requires the presence of only one of the three-wetland criteria mentioned above (hydrophytic vegetation, hydric soils, and wetland hydrology). CDFG jurisdiction was extended to the outer limits of the canopy of hydrophytic vegetation within or adjacent to the stream; or to the top of the stream bank (i.e., usually above the OHWM) for those instances where either vegetation was absent, or the stream bank extended beyond the limits of the riparian vegetation, as required by CEQA.

Estimates of the boundary between Corps wetlands, CDFG wetlands, and nonregulated uplands were based on observed changes in vegetation, soils, topography, and hydrology between sample points. The extent of all Corps, CDFG, and RWQCB jurisdictional areas was mapped onto 1"=200' scale orthotopographic maps in the field.

The vegetation and wetland boundaries from the field maps were digitized, geo-referenced, and saved as shape files. Jurisdictional boundaries and vegetation types were mapped, and impacts were calculated using standard geographic information system and computer-aided design techniques.

2.3. Personnel and Survey Dates

General biological reconnaissance surveys, vegetation mapping, wetland delineations, rare plant surveys, and focused arroyo toad and coastal California gnatcatcher surveys were conducted for the project area. Table 2-1 lists the survey personnel and dates of

activity. Table 2-1 is followed by detailed descriptions on the biological experience for each of the EDAW specialists.

Table 2-1: Survey Information

Survey Personnel	Date	Survey Activity
Lyndon Quon	May 22, 2002	General wildlife reconnaissance and focused coastal California gnatcatcher survey
Lyndon Quon	May 23, 2002	General wildlife reconnaissance and focused coastal California gnatcatcher survey
Lyndon Quon	May 30, 2002	General wildlife reconnaissance and focused coastal California gnatcatcher survey
Lyndon Quon	May 31, 2002	General wildlife reconnaissance and focused coastal California gnatcatcher survey
Lyndon Quon Kimberlee Myers	June 6, 2002	General wildlife reconnaissance and focused coastal California gnatcatcher survey
Lyndon Quon	June 7, 2002	General wildlife reconnaissance and focused coastal California gnatcatcher survey
Lyndon Quon	June 13, 2002	General wildlife reconnaissance and focused coastal California gnatcatcher survey
Lyndon Quon	June 14, 2002	General wildlife reconnaissance and focused coastal California gnatcatcher survey
Lyndon Quon	June 19, 2002	General wildlife reconnaissance and focused coastal California gnatcatcher survey
Lyndon Quon	June 20, 2002	General wildlife reconnaissance and focused coastal California gnatcatcher survey
Lyndon Quon	June 27, 2002	General wildlife reconnaissance and focused coastal California gnatcatcher survey
Lyndon Quon Kimberlee Myers	June 28, 2002	General wildlife reconnaissance and focused coastal California gnatcatcher survey
Marc Doalson Danielle Tannourji	November 13, 2002	General botanical reconnaissance, rare plant survey, and vegetation mapping.
Bonnie Morgal	November 13, 2002	Wetland delineation
Bonnie Morgal Danielle Tannourji	November 14, 2002	Wetland delineation
Bonnie Morgal Danielle Tannourji	November 15, 2002	Wetland delineation
Erik LaCoste Melissa Wilson	March 20, 2003	Nighttime focused arroyo toad surveys
Erik LaCoste Melissa Wilson	March 21, 2003	Nighttime focused arroyo toad surveys
Erik LaCoste Erin Riley	April 17, 2003	Day and nighttime focused arroyo toad surveys
Erik LaCoste Erin Riley	May 6, 2003	Day and nighttime focused arroyo toad surveys
Lyndon Quon Melissa Wilson	May 15, 2003	Day and nighttime focused arroyo toad surveys
Erin Riley Danielle Tannourji	June 10, 2003	Day and nighttime focused arroyo toad surveys
Danielle Tannourji Erin Riley	June 11, 2003	Rare plant survey
Erik LaCoste Melissa Wilson	June 17, 2003	Nighttime focused arroyo toad surveys

Table 2-1: Survey Information (Continued)

Survey Personnel	Date	Survey Activity
Erik LaCoste Melissa Wilson	June 18, 2003	Nighttime focused arroyo toad surveys
Erin Riley Mason Ryan	April 24, 2006	Nighttime focused arroyo toad surveys
Erin Riley Mason Ryan	April 25, 2006	General wildlife reconnaissance, focused California gnatcatcher surveys, and daytime focused arroyo toad surveys
Scott McMillan	May 1, 2006	General botanical reconnaissance, rare plant survey, and vegetation mapping.
Erin Riley Mason Ryan	May 4, 2006	Nighttime focused arroyo toad surveys
Erin Riley Mason Ryan	May 5, 2006	Focused California gnatcatcher surveys and daytime focused arroyo toad surveys
Erin Riley Barbara Calantas	May 17, 2006	Nighttime focused arroyo toad surveys
Erin Riley Barbara Calantas	May 18, 2006	Focused California gnatcatcher surveys and daytime focused arroyo toad surveys.
Scott McMillan	May 19, 2006	General botanical reconnaissance, rare plant survey, and vegetation mapping.
Erin Riley Mason Ryan	May 30, 2006	Nighttime focused arroyo toad surveys
Erin Riley Mason Ryan	May 31, 2006	Focused California gnatcatcher surveys and daytime focused arroyo toad surveys
Barbara Calantas Lyndon Quon	June 6, 2006	Nighttime focused arroyo toad surveys
Barbara Calantas Lyndon Quon	June 7, 2006	Focused California gnatcatcher surveys and daytime focused arroyo toad surveys
Lyndon Quon	July 6, 2006	Nighttime focused arroyo toad surveys
Lyndon Quon	July 7, 2006	Focused California gnatcatcher surveys and daytime focused arroyo toad surveys

Bonnie Morgal has 18 years of experience in a variety of wetland and upland ecosystems in southern California. Her primary focus has been botany and wetlands ecology with extensive experience also in upland coastal and desert ecosystems. She is certified to conduct federal wetland delineations and has 10 years of experience as a wetland delineator (Wetland Training Institute, February 1993). She is qualified to conduct surveys for the coastal California gnatcatcher, least Bell's vireo, and Quino checkerspot butterfly. She received a Bachelor of Science degree in biology from Western Washington University in 1983 and a Masters of Science in biology with an emphasis in ecology from San Diego State University in 1990.

Danielle Tannourji has 7 years of botanical experience in southern California. She obtained a Bachelor of Science degree in ecology from the University of California at Santa Barbara in 2000. Ms. Tannourji is qualified to conduct botanical

reconnaissance surveys, focused rare plant surveys, wetland delineations, and habitat assessments for federally and state listed threatened and endangered species.

Marc Doalson has 8 years of botanical experience in California, spending the last 2 years conducting rare plant surveys and botanical inventories in southern California. He received a Bachelor of Arts degree in biology from the University of North Carolina, Wilmington in 1994 and a Masters of Science degree in botany from California State University at Chico in 1999.

Barbra Calantas has 4 years of experience in various upland and wetland ecosystems throughout southern California. She received a Bachelor of Arts degree in biology from the University of San Diego in 2003. Ms. Calantas is qualified to conduct surveys for the arroyo toad, as well as other federally or state listed wildlife species such as the Quino checkerspot butterfly, least Bell's vireo, and fairy shrimp. She also has experience conducting habitat assessments for federally and state listed threatened and endangered species. Ms. Calantas holds a valid Federal Endangered Species Act Section 10(a)(1)(A) survey permit (TE-820658).

Scott McMillan has 13 years of botanical experience in southern California conducting general botanical surveys, rare plant surveys, and vegetation assessments. He received a Bachelor of Science degree in biology from San Diego State University in 1994.

Lyndon Quon has 14 years of experience in various upland and wetland ecosystems throughout southern California. He received a Bachelor of Arts degree in ecology and animal behavior from the University of California at San Diego in 1989. Mr. Quon is qualified to conduct surveys for the coastal California gnatcatcher, as well as other federally or state listed wildlife species such as the arroyo toad, least Bell's vireo, southwestern willow flycatcher, and fairy shrimp. He also has extensive experience conducting habitat assessments for federally and state listed threatened and endangered species. Mr. Quon holds a valid Federal Endangered Species Act Section 10(a)(1)(A) survey permit (TE-820658).

Erin Riley has 7 years of experience as a biological consultant in southern California. She obtained a Bachelor of Science degree in biology from University of Maryland in 1999. Ms. Riley is qualified to conduct biological reconnaissance surveys, focused wildlife surveys, and habitat assessments for federally and state listed threatened and endangered species. In addition to conducting focused surveys for many sensitive species (e.g., arroyo toad, desert tortoise, and least Bell's vireo), she also holds a

10(a) permit, which authorizes her to conduct focused, protocol level surveys for the Quino checkerspot butterfly and coastal California gnatcatcher. Ms. Riley holds a valid Federal Endangered Species Act Section 10 (a)(1)(A) survey permit (TE-820658).

Erik LaCoste has 10 years of experience as a biological consultant in southern California. He obtained a Bachelor of Science degree in biology from San Diego State University in 1993. Mr. LaCoste is qualified to conduct biological reconnaissance surveys, focused wildlife surveys, and habitat assessments for federally and state listed threatened and endangered species. In addition to conducting focused surveys for many sensitive species (such as the arroyo toad, mountain yellow-legged frog, California red-legged frog, southwestern pond turtle, and least Bell's vireo), he also holds a 10(a) permit, which authorizes him to conduct focused, protocol level surveys for the Quino checkerspot butterfly, coastal California gnatcatcher, and all listed vernal pool branchiopods.

Mason Ryan has 1 year of experience working with southern California wildlife. Prior to this he worked for 6 years conducting herpetological, avian, and mammal surveys in Central America. He has conducted arroyo toad, desert tortoise, and least bell's vireo surveys and assisted with California gnatcatcher surveys. He has worked with more than 20 species of globally endangered amphibian and reptile species. Mr. Ryan has recently completed a Master's degree in zoology from Southern Illinois University. He is currently pursuing federal permits for handling arroyo toads.

Melissa Wilson has 7 years of experience with southern California wildlife, including 5 years as a biological consultant and 2 years as a research ecologist. She obtained a Bachelor of Arts degree in biological anthropology from the University of California, San Diego in 1999. Ms. Wilson is qualified to conduct biological reconnaissance surveys, wetland delineations, and habitat assessments for federally and state listed threatened and endangered species. In addition to conducting focused surveys for many sensitive species (such as the arroyo toad, mountain yellow-legged frog, California red-legged frog, southwestern pond turtle, and least Bell's vireo), she also holds a 10(a) permit, which authorizes her to conduct focused, protocol level surveys for the Quino checkerspot butterfly, coastal California gnatcatcher, and all listed vernal pool branchiopods.

2.4. Agency Coordination and Professional Contacts

The project necessitates coordination with the various resource agencies. In addition to the regulatory requirements discussed in Subsection 2.1 above, the following federal and state coordination will be required.

Impacts to federally and state listed threatened and endangered species would require consultation with the respective resource agencies for impacts to sensitive biological resources within the Golden Valley Road Bridge Project area. Of the 83 sensitive species that have the potential to occur within the project region, 19 of these species are listed either federally or state as rare, threatened, endangered, or as candidates (see Chapter 3, Table 3-3). Some species, such as the state threatened Swainson's hawk, have been recorded historically within the vicinity of the Santa Clarita Valley, although they are not expected to breed within the local region. No federal or state listed species were detected within the project footprint during the biological surveys conducted in 2002, 2003, and 2006. Therefore, minimal coordination with the resource agencies is anticipated for these species.

Of the 64 non-listed sensitive species that have the potential to occur within the project region, 44 species are considered state species of special concern and 27 species are CNPS listed. Based on surveys conducted by EDAW during 2002, 2003, and 2006 and Impact Sciences in 2004, no CNPS listed plant species detected in the BSA are known to occur within the AE. Additionally, no state species of special concern or otherwise sensitive species were detected within the AE. Therefore, minimal coordination with the CDFG is anticipated.

2.5. Limitations That May Influence Results

There was one limitation or deviation to the guidelines required for the general and focused rare plant surveys. The EDAW surveys associated with the Cross Valley Connector East Project were conducted in November 2002 and June 2003, respectively, but only included federal, state, and CNPS List 1B and CNPS List 2 species, not CNPS List 3 and CNPS List 4 species. During report preparation, data regarding CNPS List 3 and CNPS List 4 species were added using findings from the Draft Riverpark Environmental Impact Report (EIR) prepared by Impact Sciences (2004) because its BSA encompassed the Cross Valley Connector East Project BSA. EDAW surveys for rare plants in 2006 included all CNPS listed species (List 1 through List 4).

Coastal California gnatcatcher focused surveys and arroyo toad focused surveys deviated slightly from the standard respective protocols. The sixth and final survey for each species was conducted approximately five days after the end of the survey season for each species. Given that the sixth survey was conducted within one week of the end of the survey season, this deviation is considered insignificant.

Wetland delineations were conducted in November 2002 with no deviations to the guidelines required by state and federal agencies. The only limitation was identifying annual plant and grass species at the time of the survey. However, there was enough evidence (perennial plant species, soils, hydrology) to make a determination and delineate the borders of each of the jurisdictional wetland habitats.

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Chapter 3. Results: Environmental Setting

The Golden Valley Road Bridge Project site is located over the Santa Clara River within Santa Clarita in Los Angeles County. The northern terminus of the proposed project would be the easternmost extent of Newhall Ranch Road, which is currently under construction to the northwest of the project site. Grading for the majority of Newhall Ranch Road is complete and construction is anticipated to be completed between October 2007 and April 2008. The southern terminus of the proposed project would lie at the northernmost extent of the Golden Valley Road/Soledad Canyon Ranch Interchange, which was recently completed and was opened for public access in late 2005. The proposed bridge will be 335 m (1,100 ft) long. It would include a six-lane roadway with a 4-m (14-ft) median island and pedestrian and bicycle lanes. Generally, the total curb-to-curb width would be approximately 27 m (90 ft) with a total ROW width of approximately 37 m (120 ft).

3.1. Description of the Existing Biological and Physical Conditions

The majority of the project area consists of native upland and wetland habitats with a moderate level of disturbance. The Santa Clara River is the major physical feature within the project area with surrounding canyons and tributaries. The dominant soils found in the riverbed are the sandy soils of the Riverwash series and the Sandy Alluvial Land series. The uplands of the BSA are composed of loamy sands of the Cortina, Hanford, and the Ojai series. There are also minor pockets of well-drained sandy loams of the Mertz and Saugus series within the study area found on the upper edges adjacent to the Santa Clara River.

There are four vegetation communities or land cover types within the AE that would be affected by the project: big sagebrush scrub, ruderal, southern riparian scrub, and nonwetland waters of the U.S.

3.1.1. Study Area

The BSA can be characterized as the area encompassing the Bridge Alternative plus a 152-m (500-ft) survey buffer on each side of the centerline. The northern regions of the BSA consist of upland vegetation, including disturbed Riversidian coastal sage scrub, holly-leaf cherry scrub, and ruderal vegetation. The central portion of the BSA consists mostly of the Santa Clara River, which supports nonwetland waters of the

U.S. and southern riparian scrub. The southeastern portion of the BSA consists mostly of ruderal vegetation. The AE, defined as the project footprint, or the area within which all proposed construction activities would be restricted, is wholly encompassed by the BSA (Figure 3). The BSA encompasses eleven assessor parcels. A summary of the land ownership of each parcel is included as Table 3-1. An aerial photograph depicting the distribution of the parcels is provided as Figure 4. A view of the site looking northeast is shown in Figure 5.

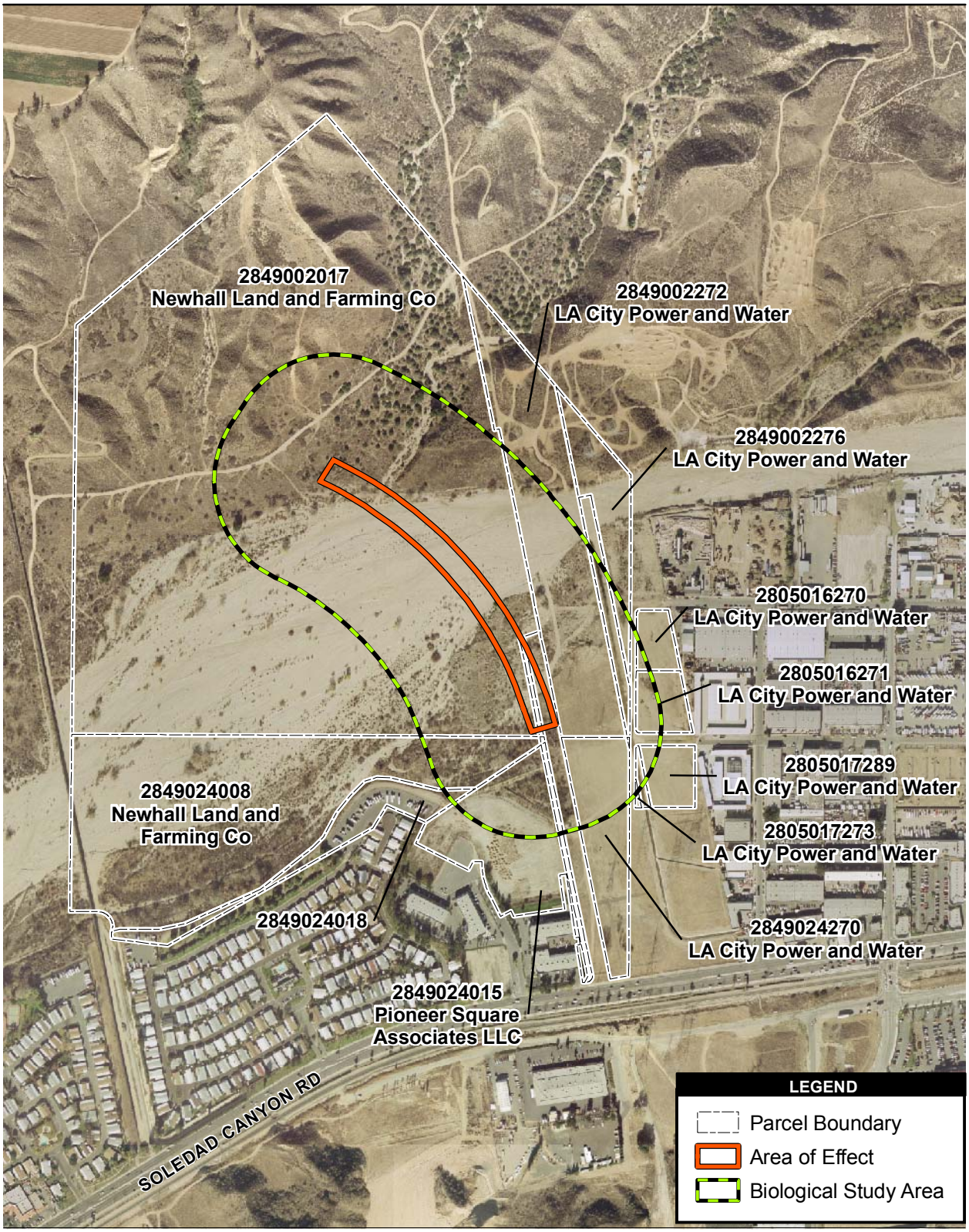
Table 3-1: Land Ownership

Assessor Parcel Number	Property Ownership	Property Status
2849-002-017	Newhall Land and Farming Co	Private
2849-002-272	Los Angeles Dept. of Water and Power	Public
2849-002-276	Los Angeles Dept. of Water and Power	Public
2805-016-270	Los Angeles Dept. of Water and Power	Public
2805-016-271	Los Angeles Dept. of Water and Power	Public
2805-017-289	Los Angeles Dept. of Water and Power	Public
2805-017-273	Los Angeles Dept. of Water and Power	Public
2849-024-270	Los Angeles Dept. of Water and Power	Public
2849-024-015	Pioneer Square Associates LLC	Private
2849-024-018	Unknown	--
2849-024-008	Newhall Land and Farm	Private

3.1.2. Physical Conditions

The project area encompasses the Santa Clara River and adjacent riparian and upland habitats on either bank. Elevations within the project area range from roughly 384 m (1,260 ft) within the riverbed, to roughly 405 m (1,330 ft) above mean sea level at the northern end of the project area. A topographical map of the project area is provided as Figure 6.

The Santa Clara River meanders through Los Angeles and Ventura counties, beginning from its headwaters at Pacifico Mountain in the San Gabriel Mountains. As the Santa Clara River winds through Los Angeles County, it is fed by several drainages within the region surrounding the Golden Valley Road Bridge Project, including Castaic Creek, Bouquet Canyon Creek, and San Francisquito Creek. The east-west flowing river supports a seasonal stream during and immediately after storm events. Due to the relatively arid climate and the soil conditions of the Santa Clara River basin, runoff typically percolates down into the ground soon after the wet season. Therefore, the basin is not hydrologically and geologically suited to support continuous flows.



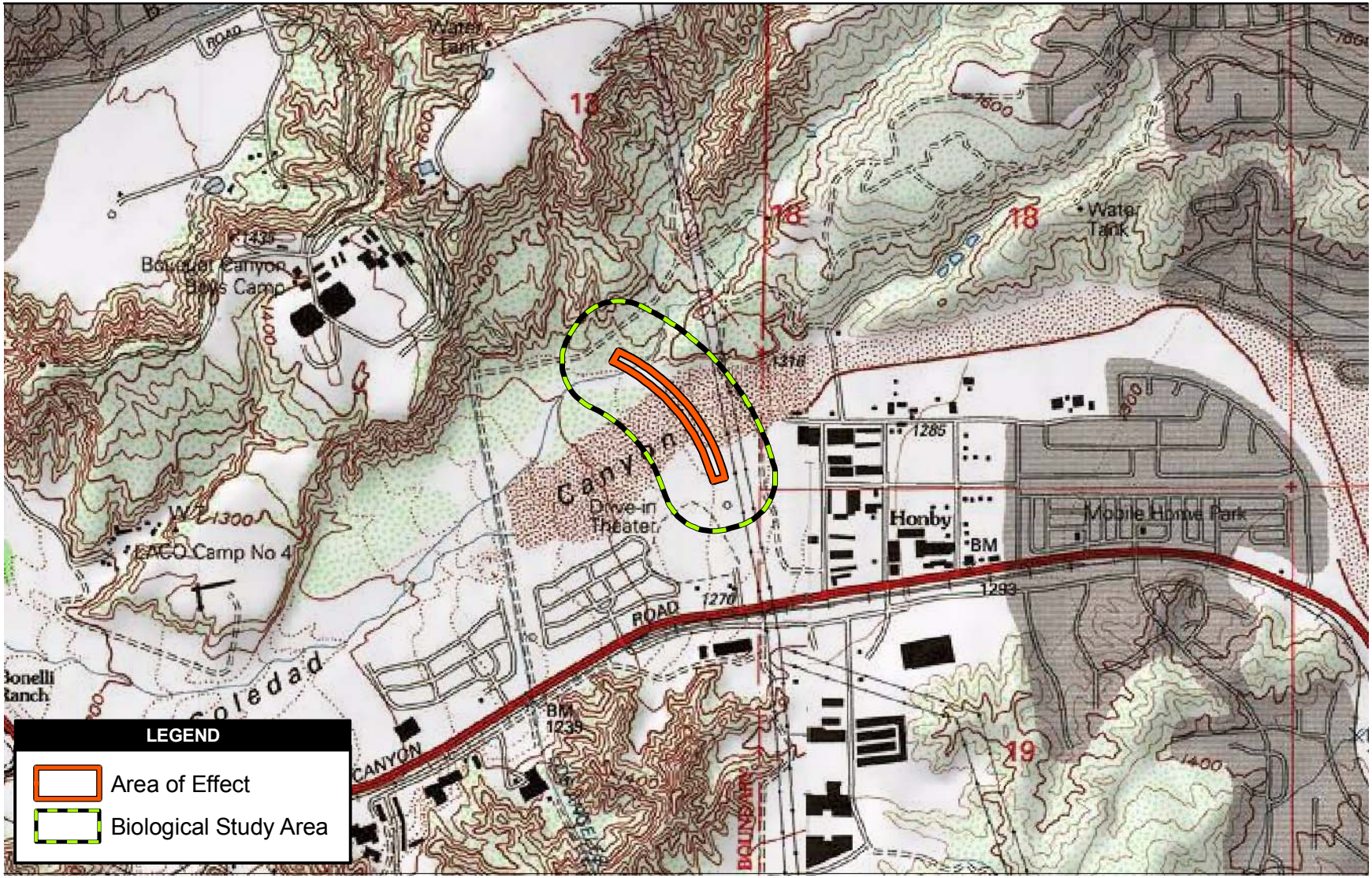
Source: L.A. County Assessor 2004; Stewart GeoTechnologies 2004

700 350 0 700 Feet

Scale: 1:8,400; 1 inch = 700 feet

Figure 4
Area of Effect and Land Ownership

Figure 5
View of Proposed Project Area
Looking Northeast



Source: USGS 7.5' Quad Mint Canyon 1994, Newhall 1988

NORTH

1,500 0 1,500 Feet

Scale: 1:18,000; 1 inch = 1,500 feet

Figure 6
Topographical Map of Area of Effect

3.1.3. Biological Conditions in the Biological Study Area

The biological resources that occur within and adjacent to the Golden Valley Road Bridge Project site are depicted on an aerial image of the project area (Figures 7, 8, and 9).

3.1.3.1. Vegetation Communities and Associated Wildlife

Vegetation types or communities are assemblages of plant species that usually coexist in the same area. The classifications of vegetation communities in this document correspond with the CDFG (2003) and/or Holland (1986) and are based upon the life form of the dominant species within each community and the associated flora.

Vegetation types within the AE consist primarily of one wetland/riparian community, southern riparian scrub, and one upland scrub community, big sagebrush scrub that borders the wetlands within the AE. The remaining two habitat/land cover types present in the AE are nonwetland waters of the U.S. within the river, and disturbed ruderal habitat (Table 3-2). In addition, holly-leaf cherry scrub, a native upland community, and disturbed habitat, a nonnative land cover type, occur within the northern portions of the BSA, but outside of the AE.

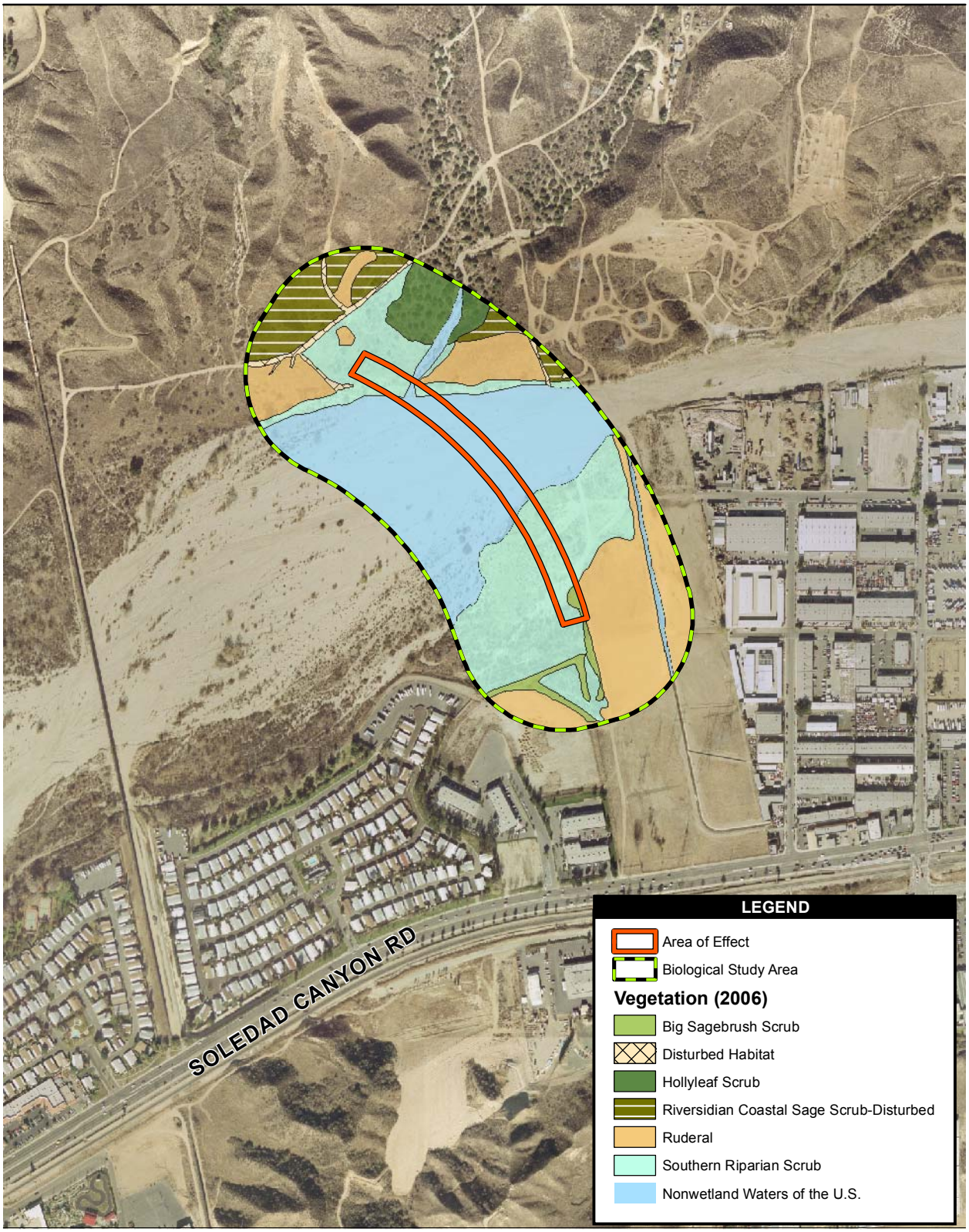
Table 3-2: Vegetation Communities and Land Cover Types within the Biological Study Area and the Area of Effect

Vegetation Community	Within BSA in hectares (acres)	Within AE in hectares (acres)
Disturbed Riversidian Coastal Sage Scrub	1.77 (4.38)	--
Holly-Leaf Cherry Scrub	1.00 (2.48)	--
Big Sagebrush Scrub	0.39 (0.96)	0.06 (0.15)
Southern Riparian Scrub	6.40 (15.81)	0.91 (2.24)
Ruderal	5.85 (14.47)	0.01 (0.02)
Disturbed Habitat	0.36 (0.88)	--
Nonwetland Waters of the U.S.	7.85 (19.40)	0.84 (2.07)
Total	**23.62 (58.38)**	**1.82 (4.48)**

3.1.3.2. Native Communities – Upland Resources

Riversidian Coastal Sage Scrub - Disturbed

Coastal sage scrub is one of the major shrub-dominated (scrub) communities within California. This community occurs on xeric sites with shallow soils. Sage scrub species are typically drought deciduous plants with shallow root systems. Both of these adaptations allow for the occurrence of sage scrub species on these xeric sites.



Source: Stewart GeoTechnologies 2004

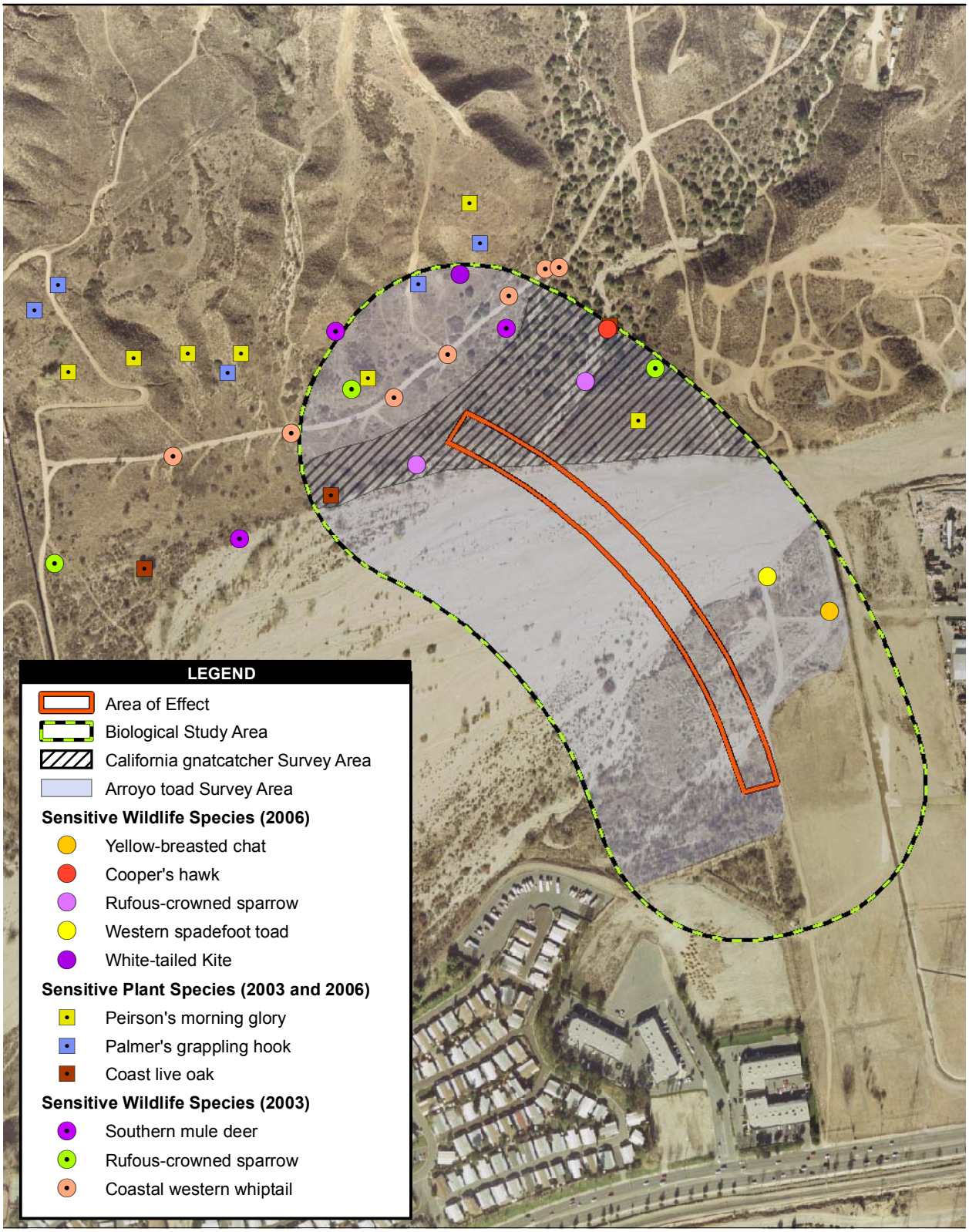
700 350 0 700 Feet

Scale: 1:8,400; 1 inch = 700 feet

Figure 7
Vegetation Communities

Golden Valley Road Bridge Project NESR

Path: P:\2002\2K053 Cross Valley\5GIS\MXD\vegetation.mxd, 08/15/06, morenop

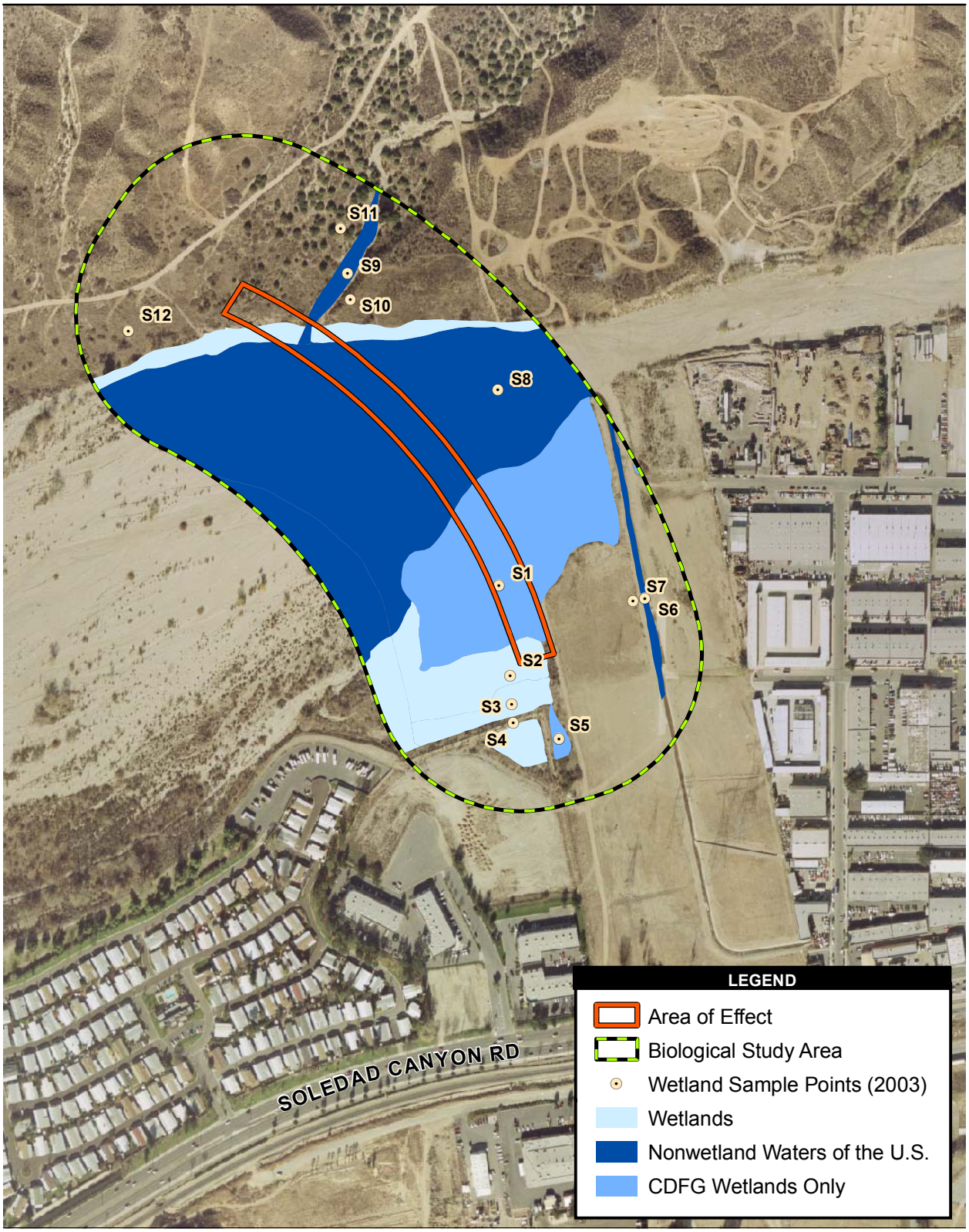


Source: Stewart GeoTechnologies 2004; EDAW 2003, 2006

500 250 0 500 Feet

Scale: 1:6,000; 1 inch = 500 feet

Figure 8
Sensitive Species



Source: Stewart GeoTechnologies 2004

500 250 0 500 Feet

Scale: 1:6,000; 1 inch = 500 feet

Figure 9
Wetland Delineation

There are four floristic associations within the coastal sage scrub formation, all occurring within distinct geographical ranges along the California coast. The Riversidian association occurs from the coastal region south of Point Conception in California. Typically, this vegetation is found along the coastal ranges of the Santa Monica, San Gabriel, and San Bernardino mountains (Holland 1986).

Riversidian coastal sage scrub may be dominated by a variety of different species depending upon site-specific topographic, geographic, and edaphic conditions. Within Los Angeles County, there are several recognized subassociations of Riversidian coastal sage scrub based upon the dominant species.

Approximately 1.77 ha (4.38 ac) of disturbed Riversidian coastal sage scrub occur within the BSA.

Dominant Plant Species

California sagebrush (*Artemisia californica*), California buckwheat (*Eriogonum fasciculatum* var. *foliolosum*), and black sage (*Salvia mellifera*) are the most common shrub species within this community of the BSA.

All the areas within the BSA classified as Riversidian coastal sage scrub are considered disturbed. The manufactured slopes, north of the proposed bridge within the BSA, consist of revegetated Riversidian coastal sage scrub. On these graded slopes, sage scrub species have recently become established over a short period of time, which warrants the classification as sage scrub habitat. Other areas within the BSA have been previously disturbed and have experienced some recovery over the interim. These areas are dominated by early seral species such as coyote bush (*Baccharis pilularis*), California buckwheat, deer weed (*Lotus scoparius*), and felt-leaved yerba santa (*Eriodictyon crassifolium*).

Invasive Plant Species

Within some of the disturbed sage scrub there is a high cover of invasive exotic species such as tree tobacco (*Nicotiana* glauca), foxtail chess (*Bromus madritensis* ssp. *rubens*), black mustard (*Brassica nigra*), and Russian thistle (*Salsola tragus).*

Common Wildlife Species

A variety of wildlife species are associated with the coastal sage scrub vegetation within the BSA. During the general wildlife surveys, the dominant reptile species observed within this vegetation type was the coastal western whiptail (*Cnemidophorus tigris multiscutatus*). Typical bird species included the Bewick's

wren (*Thryomanes bewickii*), California towhee (*Pipilo crissalis*), bushtit (*Psaltriparus minimus*), and house finch (*Carpodacus mexicanus*). Mammal species commonly observed or detected within coastal sage scrub in the BSA were the desert cottontail (*Sylvilagus audubonii*) and southern mule deer (*Odocoileus hemionus*).

Holly-leaf Cherry Scrub

Holly-leaf cherry scrub is a relatively open community that is restricted to steep north-facing slopes that occur within sandstone-derived soils. The sole dominant species that characterizes this community is the holly-leaf cherry (*Prunus ilicifolia* ssp. *ilicifolia*). Geographically, holly-leaf cherry scrub is present on five of the Channel Islands as well as in southern California. As described by Sawyer and Keeler-Wolf (1995), but not Holland, this community is described as an associate of local upland communities. Most often these stands consist of tall shrubby individuals, but some populations are found to have exceptionally large trees.

Within the BSA, the sole stand of holly-leaf cherry scrub is restricted to the moderate slopes of an unnamed tributary northeast of the Santa Clara River. The tributary is characterized as a 25-ft-wide, 4.5-ft-tall drainage with sandy soils that contributes to the main river system. The holly-leaf cherry scrub encompasses an area of approximately 1.00 ha (2.48 ac) of the BSA.

Dominant Plant Species

Holly-leaf cherry is the sole dominant species within this habitat. However, an associate, spiny redberry (*Rhamnus crocea*), is scattered throughout this community. There is also one individual coast live oak (*Quercus agrifolia*) present at the base of the canyon along the edge of the streambed.

Invasive Plant Species

The understory of this community is quite sparse. However, the vegetation consists of exotic invasive annuals such as foxtail chess and Russian thistle.

Common Wildlife Species

Due to its structural diversity, holly-leaf cherry scrub provides habitat for a variety of wildlife species. The understory of this vegetation type supports both the western whiptail and western fence lizard (*Sceloporus occidentalis*). Bird species typically observed within this habitat include phainopepla (*Phainopepla nitens*), western kingbird (*Tyrannus verticalis*), northern mockingbird (*Mimus polyglottos*), spotted towhee (*Pipilo erythrophthalmus*), western scrub jay (*Aphelocoma coerulescens*), and California thrasher (*Toxostoma redivivum*). Mammal species observed within holly-

leaf cherry scrub habitat within the BSA included southern mule deer and brush rabbit.

Big Sagebrush Scrub

Big sagebrush scrub is a moderately tall, fairly open shrubland found on well-drained gravelly soils. Dominant species include big sagebrush (*Artemisia tridentata)* and antelope bush (*Purshia tridentata)*. This community is widely distributed throughout the northern Mojave and Great Basin deserts as well as in isolated pockets in the Inner South Coast ranges.

Within the BSA, there are a few isolated patches of big sagebrush scrub found adjacent to the Santa Clara floodplain. These patches are characterized by having elevated slopes with well-drained granitic soils, which are adjacent to the active riverbed. With long periods of drought, this community can thrive very well and invade adjacent communities. Approximately 0.39 ha (0.96 ac) of big sagebrush scrub occurs within the BSA.

Dominant Plant Species

Onsite, big sagebrush is the sole dominant species found within this community. Other common associates are California sagebrush and California buckwheat.

Invasive Plant Species

The understory of this community consists of exotic invasive annuals such as foxtail chess, tocolate (*Centaurea melitensis*), shortpod mustard (*Hirschfeldia incana*), and Russian thistle.

Common Wildlife Species

Big sagebrush scrub within the BSA occurs adjacent to coastal sage scrub and alluvial fan scrub and thus supports a similar range of species as these two habitats. During general and focused wildlife surveys, wildlife species observed within big sagebrush scrub included the southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*), Bewick's wren, California towhee, California thrasher, and coyote (*Canis latrans*).

3.1.3.3. Native Communities – Wetland and Riparian Resources

Southern Riparian Scrub

Southern riparian scrub is an inclusive term for several riparian, shrub-dominated communities such as southern cottonwood willow riparian forest, southern willow scrub, mule fat scrub, and tamarisk scrub, which are highly mixed in a relatively

small area (Sawyer and Keeler-Wolf 1995). This general community best describes the mosaic patchwork found throughout the floodplain of the Santa Clara River. Primarily, this community is represented by narrow-leaf willow (*Salix exigua*), red willow (*Salix laevigata*), arroyo willow (*Salix lasiolepis*), mule fat (*Baccharis salicifolia*), Fremont's cottonwood (*Populus fremontii* var. *fremontii*), and highly invasive species like tamarisk (*Tamarix* sp.). Approximately 6.40 ha (15.81 ac) occur within the BSA.

Dominant Plant Species

The general dominance can be described as patchy areas of mule fat, narrow-leaved willow, and tamarisk. All populations of these species are mature and are approximately 3 m (10 ft) in height.

Invasive Plant Species

Tamarisk is the dominant exotic species found in this community. Although this species is encroaching on the native plant composition, most of the trees present are unhealthy and appear to be dying.

Common Wildlife Species

Southern riparian scrub supports a variety of resident and migrant wildlife species. Bird species commonly observed or detected within southern riparian scrub vegetation within the BSA include phainopepla, lazuli bunting (occurs as migrant; *Passerina amoena*), western kingbird, black phoebe (*Sayornis nigricans*), warbling vireo (occurs as migrant; *Vireo gilvus*) and western tanager (occurs as migrant; *Piranga ludoviciana*). The cottontail and coyote were observed frequently within the southern riparian scrub habitat within the BSA.

3.1.3.4. Other Land Cover Types

Nonwetland Waters of the U.S.

The majority of the BSA consists of the riverbed for the Santa Clara River and its tributaries. The riverbed is a periodically scoured wash that is unvegetated most of the time. This area has been classified as nonwetland waters of the U.S. Approximately 7.85 ha (19.40 ac) of this land cover type occur within the BSA.

Dominant Plant Species

There are very few native plant species in the areas classified as nonwetland waters of the U.S. as these areas are periodically scoured and do not support vegetation.

Invasive Plant Species

There are very few invasive plant species in the areas classified as nonwetland waters of the U.S. as these areas are periodically scoured and do not support vegetation.

Common Wildlife Species

Unvegetated nonwetland waters of the U.S. within the BSA support amphibian species including the western toad (*Bufo boreas*) and the Pacific treefrog (*Pseudacris regilla*). Bird species commonly observed or detected within the nonwetland waters of the U.S. within the BSA include the American crow (*Corvus brachyrhynchos*) and foraging raptors such as the red-tailed hawk (*Buteo jamaicensis*). The California ground squirrel (*Spermophilus beecheyi*) and coyote were observed frequently within the nonwetland waters of the U.S. within the BSA.

3.1.3.5. Nonnative Communities – Upland Resources

Ruderal

Ruderal communities are areas of high disturbance dominated by nonnative weedy forbs (herbaceous, nongrass species) that are adapted to a regime of frequent disturbances. Many of the species characteristic of ruderal areas are also indicator species of nonnative grasslands. Ruderal habitats occur throughout portions of the BSA and are areas that support nonnative weedy vegetation. Approximately 5.85 ha (14.47 ac) of this habitat occur within the BSA.

Dominant Plant Species

Mustard and tocalote are the two most common species observed in the nonnative weedy vegetation of the ruderal areas.

Invasive Plant Species

The common exotic species within the ruderal community are mentioned above in the dominant plant species section. Other invasive, exotic plant species found in the ruderal habitats are shortpod mustard and natal grass.

Common Wildlife Species

Disturbance-associated wildlife species were commonly observed within ruderal areas within the BSA. Wildlife commonly detected within ruderal habitat included western fence lizard, killdeer (*Charadrius vociferous*), northern mockingbird, house finch, and California ground squirrel.

Disturbed Habitat

Disturbed habitats refer to areas disturbed so frequently that they do not support any vegetation. Such areas include dirt trails and cleared areas. Approximately 0.36 ha (0.88 ac) of this habitat occurs within the BSA.

Dominant Plant Species

There are no native plant species in the disturbed areas. These areas lack vegetation.

Invasive Plant Species

There are no invasive plant species in the disturbed areas. These areas lack vegetation.

Common Wildlife Species

Disturbed habitat provides minimal biological resource value to wildlife species. However, a small number of wildlife species use these bare areas, including the coastal western whiptail and the red harvester ant (*Pogonomyrmex barbatus*).

3.1.3.6. Migration Corridors

In an urban context, a wildlife migration corridor can be defined as a linear landscape feature of sufficient width and buffer to allow wildlife movement between two patches of comparatively undisturbed habitat, or between a patch of habitat and some vital resources. Regional corridors are defined as those linking two or more large areas of natural open space, and local corridors are defined as those allowing resident wildlife to access critical resources (food, cover, and water) in a smaller area that might otherwise be isolated by urban development.

Wildlife migration corridors are essential in geographically diverse settings, and especially in urban settings, for the sustenance of healthy and genetically diverse wildlife communities. At a minimum, they promote colonization of habitat and genetic variability by connecting fragments of like habitat and help sustain individual species distributed in and among habitat fragments. Habitat fragments, by definition, are separated by otherwise foreign or inhospitable habitats, such as urban/suburban tracts. Isolation of populations can have many harmful effects and may contribute significantly to local species extinction.

A viable wildlife migration corridor consists of more than a path between habitat areas. To provide food and cover for transient species as well as resident populations of less mobile animals, a wildlife migration corridor must also include pockets of vegetation.

The BSA currently acts as a wildlife migration corridor for a variety of wildlife species. The Santa Clara River represents one of the last natural river systems in the region. The riparian and stream habitats of the Santa Clara River provide habitat for migrating wildlife to either temporarily stop to rest and forage, to use it for protective cover, or as their breeding grounds. The stretch of the Santa Clara River within the BSA is part of a diverse set of habitat linkages and movement corridors that connects pockets of open space throughout its length – from its headwaters in the Angeles National Forest, east of Soledad Canyon, all the way to the coast. The river provides connectivity to large tracts of open space such as the Santa Susana Mountains and the Santa Monica Mountains.

The California Wilderness Coalition's *Missing Linkages: Restoring Connectivity to the California Landscape* identifies the entire Santa Clara River as a landscape linkage, defined as a "large, regional connection between habitat blocks ('core areas') meant to facilitate animal movements" (2001). Additionally, the Coalition identifies several general areas along the river within Soledad Canyon as areas necessary for habitat connectivity for large mammalian carnivore species in the region. These areas were assessed by the Coalition as being threatened by development, but with an opportunity for conservation. Due to its position along the Santa Clara River, the BSA helps to provide connectivity between the coast and inland areas. The BSA is primarily part of an avian wildlife migration corridor, but it can also foster the movements of reptiles such as the western whiptail, or mammals like the coyote, bobcat (*Felis rufus*) and mule deer up and down the river, or across other tracts of open space.

3.2. Regional Species and Habitats of Concern

In a regional context, the proposed Golden Valley Road Bridge Project is located within the confines of the NRMP (Valencia 1998). The NRMP serves as a long-term management plan for infrastructure projects, such as the Golden Valley Road Bridge Project, expected to impact the Santa Clara River and its associated tributaries. Projects described in the plan include river bank protection, storm drain outlets, utility lines, and bridge widening and development.

In 1998, the Corps and CDFG approved the NRMP and issued a Section 404 Permit (No. 94-00504) and a 1603 Streambed Alteration Agreement (No. 5-502-97), respectively. The Corps' *Final Environmental Impact Statement/Environmental Impact Report* (1998a) and *Record of Decision* (ROD) (1998b) for the NRMP permits

outline specific avoidance and mitigation measures to minimize direct and indirect impacts to sensitive resources expected from the proposed activities described in the NRMP. These measures would be implemented in the project design for the proposed Golden Valley Road Bridge Project. Specific avoidance and mitigation measures for sensitive flora and fauna are discussed further in Sections 4.2 and 4.3. Measures for jurisdictional wetlands and waters are discussed further in Section 5.4.3.

The proposed project is also located within the Significant Ecological Area (SEA), specifically SEA 23 (City 2003). The SEA is defined by areas of high biological value within the city limits and managed by the City. These areas were characterized by the County of Los Angeles and adopted by the City as buffer zones for native ecological resources. Potential impacts in the SEA from the proposed action would be mitigated through the measures provided from the certified NRMP EIS/EIR (Corps 1998a) and ROD (Corps 1998b) upon approval by the City.

The sensitive plant and wildlife species that occur within the region of the BSA are represented below in Table 3-3. This summary table includes the regulatory status, presence or absence of the species or its habitat, and a brief discussion of its potential for occurrence within the proposed BSA.

Table 3-3: Sensitive Species Known to Occur or with the Potential to Occur within the BSA

Scientific Name	Common Name	Status[1]	General Habitat Description	Present/Absent within the BSA[2]	Rationale
Plants					
Astragalus braunontii	Braunton's milkvetch	FE, CNPS: 1B	Chaparral, coastal scrub, valley and foothill grassland, recent burn areas, and/or disturbed areas. Typically found in carbonate soils. Blooms March-July.	HP	Low probability to occur within the Biological Study Area (BSA). Less than 10 extant populations with fewer than 300 individuals as of 1997 (CNPS 2001). Habitat is present, but not carbonate soils. Not detected during the spring survey, which was conducted during the traditional blooming period of this species.
Berberis nevinii	Nevin's barberry	FE, SE, CNPS: 1B	Sandy soils of riparian scrub, coastal sage scrub, and chaparral. Blooms March-April.	HP	Low probability to occur within the BSA. Obvious perennial not detected during botanical surveys and therefore not expected to occur onsite. The closest known population is in San Francisquito Canyon 6.31 km (3.92 mi) northwest of the BSA (2003a).
Brodiaea filifolia	Thread-leaved brodiaea	FT, SE, CNPS: 1B	Chaparral openings, coastal scrub, valley and foothill grasslands, playas, vernal pools, in clay soils. Blooms March-June.	HP	Low probability to occur within the BSA. Habitat is present, but not clay soils. Not detected during the spring survey, which was conducted during the traditional blooming period of this species.
Calochortus clavatus var. *gracilis*	Slender mariposa lily	CNPS: 1B	Rocky slopes and serpentine soils of coastal sage scrub and chaparral. Blooms March-May.	P	Present onsite (Impact Sciences 2004). Three individuals were located south of the Castaic Lake Water Agency (CLWA) filtration plant within the BSA, but outside of the Area of Effect (AE). In addition, 33 individuals were detected adjacent to the BSA in 2004 and 12 were detected in 2006. Preconstruction surveys are recommended.
Calochortus plummerae	Plummer's mariposa lily	CNPS: 1B	Granitic substrate in chaparral, coastal sage scrub, cismontane woodland, lower montane coniferous forest, and foothill grasslands. Blooms May-July.	P	Present onsite. Approximately 28 individuals were detected east of the CLWA filtration plant within the BSA during the 2003 spring survey, and 35 were detected in 2006. There are 23 individuals within the AE. Preconstruction surveys are recommended.

Table 3-3: Sensitive Species Known to Occur or with the Potential to Occur within the BSA (Continued)

Scientific Name	Common Name	Status[1]	General Habitat Description	Habitat Present/Absent within the BSA[2]	Rationale
Calystegia peirsonii	Peirson's morning glory	CNPS: 4	Chaparral, cismontane woodland, chenopod scrub, lower montane coniferous forest, and valley and foothill grasslands. Blooms May-June.	P	Present onsite. Approximately 236 individuals were located within the BSA in 2003, but outside of the AE (Impact Sciences 2004), and 150 individuals were seen at this location in 2006. In addition, 71 individuals were detected adjacent to the BSA. Preconstruction surveys are recommended.
Chorizanthe parryi var. *fernandina*	San Fernando Valley spineflower	SE, CNPS: 1B	Sandy soils of coastal scrub. Blooms April-June.	HP	Low probability to occur within the BSA. Low amount of appropriate habitat within the BSA. Only known from two reported locations in Newhall, approximately 4.78 km (2.97 mi) south of the BSA (CDFG 2006a). This species was not detected during the spring survey, which was conducted during the traditional flowering period of this species. However, having such a close reference population, preconstruction surveys are recommended.
Deinandra minthornii	Santa Susana tarplant	SR, CNPS: 1B	Chaparral and coastal scrub in rocky outcrops. Blooms July-November.	HP	Low probability to occur within the BSA. Suitable but disturbed habitat is present. However, clay soils are absent. Not detected during the winter survey, which was conducted during the traditional blooming period of this species. Preconstruction surveys are recommended.
Delphinium parryi ssp. *blockmaniae*	Dune larkspur	CNPS: 1B	Coastal dunes and chaparral. Blooms April-May.	P	Present offsite to the west, with moderate probability to occur within the BSA based on habitat presence. This species could not be relocated at the offsite population in 2006 surveys. Preconstruction surveys are recommended.

Table 3-3: Sensitive Species Known to Occur or with the Potential to Occur within the BSA (Continued)

Scientific Name	Common Name	Status[1]	General Habitat Description	Habitat Present/Absent within the BSA[2]	Rationale
Dodecahema leptoceras	Slender-horned spineflower	FE, SE, CNPS: 1B	Chaparral, coastal scrub, alluvial fan sage scrub, dry washes, and cismontane woodlands. Blooms April–June.	HP	Low probability to occur within the BSA. Suitable but disturbed habitat within the BSA. Closest known population is Bee Canyon Wash 15.13 km (9.40 mi) to the north of the BSA (CDFG 2006a). Not observed during the spring survey, which was conducted during the traditional flowering period of this species. Preconstruction surveys are recommended.
Dudleya cymosa ssp. *agourensis*	Agoura Hills dudleya	FT, CNPS: 1B	Chaparral and cismontane woodland in rocky or volcanic soils. Blooms May-June.	HP	Low probability to occur within the BSA. Low amount of appropriate habitat and soils present onsite. This species was not detected during the spring survey, which was conducted during the traditional flowering period of this species. Preconstruction surveys are recommended.
Dudleya cymosa ssp. *marcescens*	Marcescent dudleya	FT, SR, CNPS: 1B	Chaparral in rocky soils. Blooms April-June.	HP	Low probability to occur within the BSA. Low amount of appropriate habitat and soils present. This species was not detected during the spring survey, which was conducted during the traditional flowering period of this species. Preconstruction surveys are recommended.
Dudleya cymosa ssp. *ovatifolia*	Santa Monica Mountains dudleya	FT, CNPS: 1B	Chaparral and coastal scrub in volcanic soils. Blooms March-June.	HP	Low probability to occur within the BSA. Low amount of appropriate habitat and soils present. This species was not detected during the spring survey, which was conducted during the traditional flowering period of this species. Preconstruction surveys are recommended.
Harpagonella palmeri var. *palmeri*	Palmer's grappling hook	CNPS: 4	Chaparral, coastal scrub, and valley and foothill grassland, in clay soils. Blooms March-April.	P	Present onsite. Approximately 30 individuals were observed in the BSA in 2004 (Impact Sciences 2004) and about 50 were seen at this site in 2006. No individuals were detected in the AE. In addition, there were 17 individuals detected adjacent to the BSA in 2003. Preconstruction surveys are recommended.

Table 3-3: Sensitive Species Known to Occur or with the Potential to Occur within the BSA (Continued)

Scientific Name	Common Name	Status[1]	General Habitat Description	Habitat Present/Absent within the BSA[2]	Rationale
Helianthus nuttallii ssp. *parishii*	Los Angeles sunflower	CNPS: 1A	Riparian habitats, such as salt or freshwater marshes and coastal swamps. Blooms August-October.	HP	Low probability to occur within the BSA. Potential habitat occurs in the BSA. Though not observed during either the winter or spring survey, a population was discovered in 2002, northwest of the BSA (CDFG 2006a). Preconstruction surveys are recommended.
Juglans californica var. *californica*	Southern California black walnut	CNPS: 4	Chaparral, cismontane woodland, coastal scrub, and alluvial scrubs. March-May.	HP	Low probability to occur within the BSA. Potential habitat occurs in the BSA. This obvious perennial was not detected during 2006 surveys. Preconstruction surveys are recommended.
Juncus acutus ssp. *leopoldii*	Southwestern spiny rush	CNPS: 4	Mesic soils in coastal dunes, in alkaline seeps of meadows and seeps, and in coastal salt of marshes and swamps. Blooms May-June	A	Not expected to occur within the BSA. No amount of appropriate habitat and soils present. This obvious perennial was not detected during both winter and spring surveys within the riparian habitats of the BSA.
Lotus nuttallianus	Nuttall's lotus	CNPS: 1B	Sandy soils of coastal scrub and chaparral. Blooms March-June.	HP	Low to moderate probability to occur within the BSA. Potential habitat occurs in the BSA. Closest known population is Soledad Canyon 0.56 km (0.35 mi) to the south of the BSA (PCR 2000). Preconstruction surveys are recommended.
Malacothamnus davidsonii	Davidson's bush mallow	CNPS: 1B	Chaparral, cismontane woodland, coastal sage scrub, and occasionally riparian woodlands. Blooms June-January.	HP	Low probability to occur within the BSA. Suitable but disturbed habitat present. Closest known population is Oak Spring Canyon 1.2 km (0.64 mi) to the north of the BSA (CDFG 2006a). Preconstruction surveys are recommended.
Navarretia fossalis	Spreading navarretia	FT, CNPS: 1B	Vernal pools, shallow freshwater marshes, and chenopod scrub. Blooms April-June.	A	Not expected to occur onsite. Vernal pool habitat absent from BSA. Small amount of disturbed chenopod scrub habitat occurs within the BSA. Not detected during the spring survey; however, preconstruction surveys are recommended in the chenopod scrub habitat located close to the AE.

Table 3-3: Sensitive Species Known to Occur or with the Potential to Occur within the BSA (Continued)

Scientific Name	Common Name	Status[1]	General Habitat Description	Habitat Present/Absent within the BSA[2]	Rationale
Opuntia basilaris var. *brachyclada*	Short-joint beavertail	CNPS: 1B	Sandy soil or coarse granitic loam of chaparral, creosote bush scrub, Mojavean desert scrub, pinyon-juniper woodland, and Joshua tree woodland. Blooms April-June.	HP	Low probability to occur within the BSA. Suitable but disturbed habitat present. Closest known population is Quigley Canyon 4.65 km (2.89 mi) to the south of the BSA (CDFG 2006a). Obvious perennial species not observed during the spring survey, which was conducted during the blooming period of this species.
Orcuttia californica	California Orcutt grass	FE, SE, CNPS: 1B	Vernal pools in clay soils. Blooms April-August.	A	Not expected to occur within the BSA. Appropriate habitat (ephemeral swales, vernal pools, mesic grasslands) does not appear to occur within the BSA. Not detected during the spring survey and therefore not expected to occur within the BSA. However, preconstruction surveys are recommended.
Pentachaeta lyonii	Lyon's pentachaeta	FE, SE, CNPS: 1B	Openings in chaparral, coastal scrub, and grasslands. Blooms March-August.	HP	Low probability to occur within the BSA. Suitable but disturbed habitat within the BSA. Known from only 20 locations in the Santa Monica Mountains and western Simi Hills (CNPS 2001). Not observed during the spring survey, which was conducted during the traditional flowering period of this species. Preconstruction surveys are recommended.
Perideridia pringlei	Pringle's yampah	CNPS: 4	Chaparral, cismontane woodland, coastal scrub, pinyon-juniper woodland in clay soils. Blooms April-August	A	Not expected to occur within the BSA due to absence of clay soils. Species was not observed within the BSA during spring surveys and is not expected to occur onsite. However, preconstruction surveys are recommended.
Quercus agrifolia	Coast live oak	SCM	Chaparral and coastal scrub in sandy, clay, or loamy soils.	P	Present onsite. One individual detected on the eastern portion of the BSA during the 2003 and 2006 surveys. This tree is located outside of the AE.

Table 3-3: Sensitive Species Known to Occur or with the Potential to Occur within the BSA (Continued)

Scientific Name	Common Name	Status[1]	General Habitat Description	Habitat Present/Absent within the BSA[2]	Rationale
Ribes divaricatum var. *parishii*	Parish's gooseberry	CNPS: 1B	Riparian habitats such as freshwater marsh, coastal swamp, and seeps. Blooms February-April.	A	Not expected to occur onsite. Appropriate but disturbed habitat occurs within the BSA. However, the only known population is in the Whitter Narrows Nature Center (CNPS 2001). Obvious perennial not detected during the spring survey and therefore not expected to occur within the BSA.
Senecio apahanactis	Rayless ragwort	CNPS: 2	Alkaline soils in coastal sage scrub, chaparral, and cismontane woodlands. Blooms January-April.	HP	Low to moderate probability to occur within the BSA. Potential habitat occurs in the BSA. Not observed during either the winter or spring survey; however, both surveys were conducted outside of the traditional flowering period of this species. Preconstruction surveys are recommended.
Stylocline masonii	Mason's neststraw	CNPS: 1B	Sandy soils within chenopod scrub and pinyon-juniper woodland. Blooms March-May.	HP	Low probability to occur within the BSA. Closest known population is Soledad Canyon 0.56 km (0.35 mi) to the south of the BSA (CDFG 2006a). Not observed during either the winter or spring survey; however, both surveys were conducted outside of the traditional flowering period of this species. Preconstruction surveys are recommended.
Wildlife					
Streptocephalus woottoni	Riverside fairy shrimp	FE	Restricted to deep vernal pools with long periods of inundation.	A	Not expected to occur within the BSA based on the lack of vernal pool habitat onsite.
Gila orcutti	Arroyo chub	SSC	Found in slowly moving sections of permanent, small to moderate-sized streams with moderate to high gradients where more than half of the habitat consists of shallow runs and pools and contains reaches of permanent water more than 2.41 km (1.5 mi) long.	A	Not expected to occur because there is no permanent stream flow onsite.

Table 3-3: Sensitive Species Known to Occur or with the Potential to Occur within the BSA (Continued)

Scientific Name	Common Name	Status[1]	General Habitat Description	Habitat Present/Absent within the BSA[2]	Rationale
Catostomus santaanae	Santa Ana sucker	FT SSC	Typically found in pools and small to medium-sized shallow streams with cool, clear water that flood periodically. This species is often associated with sand, rubble, and boulder substrates but can also occur on sandy or muddy bottoms.	A	Not expected to occur because water impoundments onsite contain high levels of urban runoff and contaminants.
Gasterosteus aculeatus williamsoni	Unarmored threespine stickleback	FE, SE, SFP	Inhabits cool, clear, slow-flowing streams with a sandy or muddy substrate and abundant aquatic vegetation.	A	Not expected to occur because water impoundments onsite contain high levels of urban runoff and contaminants.
Scaphiopus hammondii	Western spadefoot toad	SSC	Prefers sandy or gravelly soil in grasslands, open chaparral, and pine-oak woodlands. Breeds in vernal pools and ephemeral ponds.	P	Present onsite in 2003 and 2006. Preconstruction surveys are recommended.
Bufo californicus	Arroyo toad	FE, SSC	Prefers sandy or gravelly soil in grasslands, open chaparral, and pine-oak woodlands. Breeds in quiet streams with gravel or cobble substrate.	HP	Not expected to occur within the BSA based on lack of detection during focused surveys in 2003 and 2006 and low quality of habitat onsite. Preconstruction surveys are recommended.
Rana aurora draytonii	California red-legged frog	FT, SSC	Found in lowlands, damp woods, and meadows near the quiet, permanent waters of marshes and streams that are bordered by dense, shrubby, or emergent riparian vegetation.	A	Not expected to occur within the BSA because suitable habitat is not present onsite.
Rana mucosa	Mountain yellow-legged frog	FE, SSC	Found along stream courses with rocky, sloping banks and vegetation at the water's edge.	A	Not expected to occur within the BSA because suitable habitat is not present onsite.
Clemmys marmorata pallida	Southwestern pond turtle	SSC	Inhabits permanent or nearly permanent bodies of water and requires basking sites such as partially submerged logs, vegetation mats, or open mud banks.	A	Not expected to occur within the BSA based on the scarcity of permanent bodies of water and other habitat requirements. Although ponded water occurs within the BSA, this aquatic habitat is sustained through runoff containing observable amounts of urban contaminants.

Table 3-3: Sensitive Species Known to Occur or with the Potential to Occur within the BSA (Continued)

Scientific Name	Common Name	Status[1]	General Habitat Description	Habitat Present/Absent within the BSA[2]	Rationale
Phrynosoma coronatum frontale	California horned lizard	SSC	Found in several habitat types, including areas with exposed gravelly or sandy substrates with scattered shrubs, clearings in riparian woodlands, dry chamise chaparral, and annual grassland with scattered perennials.	HP	Moderate potential to occur within the BSA based on historical data for the region and presence of suitable habitat onsite. Preconstruction surveys are recommended.
Phrynosoma coronatum blainvillei	San Diego horned lizard	SSC	Prefers friable, rocky, or shallow sandy soils in coastal sage scrub, and chaparral in arid and semiarid climates.	HP	Moderate potential to occur within the BSA. Although no individuals were detected during initial assessment or general wildlife surveys, suitable habitat is present within the BSA. Preconstruction surveys are recommended.
Anniella pulchra pulchra	Silvery legless lizard	SSC	Prefers beaches, chaparral, and pine-oak woodland, and found near sycamores, cottonwoods, and oaks that grow on stream terraces. Requires moderately deep sand for protective cover.	HP	Moderate potential to occur within the BSA along the Santa Clara River in areas with deep, sandy soils. Preconstruction surveys are recommended.
Aspidoscelis tigris stejnegeri	Coastal western whiptail	SA	Occurs in openings of chaparral and near riparian habitats in arid and semiarid climates.	P	Present onsite. Observed during 2003 surveys. Preconstruction surveys are recommended.
Salvadora hexalepis virgultea	Coast patch-nosed snake	SSC	Inhabits areas with a sparse, low shrub structure where mammal burrows or woodrat nests are available to be used as overwintering sites.	HP	Low potential to occur within the BSA based on historical data for the region and limited availability of suitable habitat onsite. Preconstruction surveys are recommended.
Lampropeltus zonata pulchra	San Diego mountain kingsnake	SSC	Inhabits interior mountain ranges and coastal ranges. Along the coastal ranges, this species is found in riparian woodlands in rocky canyon bottoms below the edge of mixed oak-coniferous forest where western sycamore, Fremont's cottonwood, coast live oak, willows, wild rose, and blackberries occur.	HP	Low potential to occur within the BSA based on historical data for the region and limited availability of suitable habitat onsite. Preconstruction surveys are recommended.

Table 3-3: Sensitive Species Known to Occur or with the Potential to Occur within the BSA (Continued)

Scientific Name	Common Name	Status[1]	General Habitat Description	Habitat Present/Absent within the BSA[2]	Rationale
Thamnophis hammondii	Two-striped garter snake	SSC	Occurs in or near permanent fresh water, usually along steams with rocky beds bordered by willow and other riparian vegetation.	A	Not expected to occur within the BSA due to lack of suitable habitat onsite.
Ixobrychus exilis	Least bittern	SSC	Inhabits freshwater and brackish water marshes, usually near open water sources, and desert riparian habitats.	A	Not expected to occur within the BSA. Minor patches of freshwater marsh habitat at the mouth of box culverts within the BSA would not provide suitable nesting habitat for the species.
Gymnogyps californianus	California condor	FE, SE, SFP	Inhabits rocky and brushy areas in mountainous country at low to moderate elevations with grasslands, oak savannah, mountain plateaus, and canyons nearby for foraging.	A	Not expected to occur within the BSA based on the rarity of the species and lack of suitable habitat onsite.
Pandion haliaetus	Osprey	SSC	Prefers the coast and lakes in the coastal lowlands and rarely lakes in the foothills and mountain areas.	A	Not expected to occur within the BSA because the site lacks lakes and other large bodies of water.
Elanus leucurus majusculus	White-tailed kite	SFP	Inhabits riparian or oak woodland adjacent to grassland or open fields where it hunts rodents.	P	Present onsite in 2006. Historically known to nest just west of the BSA. Preconstruction surveys are recommended.
Circus cyaneus	Northern harrier	SSC	Occurs throughout Los Angeles County in grasslands and agricultural fields during migration and in winter.	HP	Moderate potential to occur within the BSA. Preconstruction surveys are recommended.
Accipiter striatus	Sharp-shinned hawk	SSC	Occupies woodlands and a variety of habitats surrounding those wooded areas and requires a certain amount of dense cover.	HP	Habitat present onsite. Detected just west of BSA by Impact Sciences in 2003. Preconstruction surveys are recommended.
Accipiter cooperii	Cooper's hawk	SSC	Uncommon migrant and winter visitor to woodlands, parks, and residential areas.	P	Present onsite in 2006. Preconstruction surveys are recommended.

Table 3-3: Sensitive Species Known to Occur or with the Potential to Occur within the BSA (Continued)

Scientific Name	Common Name	Status[1]	General Habitat Description	Habitat Present/Absent within the BSA[2]	Rationale
Buteo swainsoni	Swainson's hawk	ST	Found in savannah, open pine-oak woodland, and cultivated lands with scattered trees. During migration and winter, this species also uses grasslands and other open country.	HP	Low potential to occur within the BSA based on historical data from the region and limited availability of suitable habitat onsite. Preconstruction surveys are recommended.
Buteo regalis	Ferruginous hawk	SSC	Open tracts of grasslands, sagebrush flats, desert scrub, low foothills surrounding valleys, and fringes of pinyon-juniper habitats with elevated structures for nesting.	HP	Low potential to occur within the BSA based on historical data from the region and limited habitat availability within the survey area. Preconstruction surveys are recommended.
Aquila chrysaetos	Golden eagle	SSC, SFP	Uncommon resident forages over grassland and broken chaparral or sage scrub.	HP	Low potential to occur within the BSA because suitable habitat onsite is very limited. Preconstruction surveys are recommended.
Falco columbarius	Merlin	SSC	Inhabits grasslands and agricultural fields.	HP	Low potential to occur within the BSA because suitable habitat onsite is very limited. Preconstruction surveys are recommended.
Falco peregrinus anatum	American peregrine falcon	SE, SFP	Often observed along or near the coast, especially around mudflats, shores, or ponds where large numbers of water birds congregate. Occasionally seen further inland on the coastal slopes.	A	Not expected to occur within the BSA based on the lack of suitable habitat onsite and historical location data for the region.
Falco mexicanus	Prairie falcon	SSC	Often observed in open scrub and grassland habitats in open, arid regions with plains for foraging and cliffs for nesting.	HP	Low potential to occur within the BSA because of limited suitable habitat onsite and historical location data. Preconstruction surveys are recommended.
Coccyzus americanus occidentalis	Western yellow-billed cuckoo	SE	Inhabits willow and cottonwood forests along rivers and streams.	HP	Foraging habitat present onsite. Individual detected just west of BSA by Impact Sciences in 2003. Preconstruction surveys are recommended.
Athene cunicularia	Burrowing owl	SSC	Occurs in open, dry annual or perennial grasslands, and deserts and scrublands with low-growing vegetation. Utilizes the burrows of other fossorial animals.	HP	Low potential to occur within the BSA because area lacks suitable burrow habitat and large areas of foraging habitat required by this species. Preconstruction surveys are recommended.

Table 3-3: Sensitive Species Known to Occur or with the Potential to Occur within the BSA (Continued)

Scientific Name	Common Name	Status[1]	General Habitat Description	Habitat Present/Absent within the BSA[2]	Rationale
Strix occidentalis occidentalis	California spotted owl	SSC	Inhabits woodlands in both northern and southern California. In southern California, this species is almost always associated with oak and oak-conifer habitats.	A	Not expected to occur within the BSA because suitable habitat is not present onsite.
Asio otus	Long-eared owl	SSC	Inhabits open woodlands, forest edges, riparian strips along rivers, hedgerows, juniper thickets, woodlots, and wooded ravines and gullies.	HP	Low potential to occur within the BSA based on the limited amount of suitable habitat onsite. Preconstruction surveys are recommended.
Chaetura vauxi	Vaux's swift	SSC	Found in mature forests but also forages over open country, land, and water. During migration, this species often roosts in large flocks in hollow trees or chimneys.	P	Present onsite in 2006 as a flyover. Marginal suitable foraging habitat onsite. Preconstruction surveys are recommended.
Empidonax traillii extimus	Southwestern willow flycatcher	FE	Typically nests in riparian woodlands that are marshy or at water's edge.	A	Not expected to occur within the BSA based on the lack of appropriate nesting habitat onsite.
Eremophila alpestris actia	California horned lark	SSC	Inhabits grasslands and open woodlands with low, sparse vegetation.	HP	Moderate potential to occur within the BSA based on historical data for the region and presence of suitable habitat onsite. Preconstruction surveys are recommended.
Polioptila californica californica	Coastal California gnatcatcher	FT, SSC	A permanent resident of coastal sage scrub in arid washes, mesas, and slopes.	HP	Low potential to occur within the BSA. Although suitable habitat occurs within the BSA, focused protocol-level surveys did not detect the species within the BSA in 2002 or 2006. Preconstruction surveys are recommended.
Toxostoma bendirei	Bendire's thrasher	SSC	Inhabits dense chaparral, occasionally also using adjacent oak woodlands, sage scrub, and pine-juniper scrub.	HP	Low potential to occur within the BSA because the species is rare in the region, and there is limited availability of suitable habitat onsite. Preconstruction surveys are recommended.

Table 3-3: Sensitive Species Known to Occur or with the Potential to Occur within the BSA (Continued)

Scientific Name	Common Name	Status[1]	General Habitat Description	Habitat Present/Absent within the BSA[2]	Rationale
Lanius ludovicianus	Loggerhead shrike	SSC	Inhabits open country, typically lowland plains and gently sloping hillsides with short grass for foraging and scattered trees and shrubs that provide nesting and perching sites.	HP	Habitat present onsite. This species was detected just west of the BSA by Impact Sciences during 2003. Preconstruction surveys are recommended.
Vireo bellii pusillus	Least Bell's vireo	FE, SE	Summer resident of low riparian growth in the vicinity of water or in dry river bottoms. Nests are placed along the margins of bushes, usually *Salix*, *Baccharis*, or *Prosopis*.	A	Not expected to occur within the BSA because suitable habitat onsite is extremely limited. Preconstruction surveys are recommended.
Dendroica petechia brewsteri	Yellow warbler	SSC	Occupies marshes, swamps, streamside groves, willow and alder thickets, open woodlands with thickets, orchards, gardens, and open mangroves.	HP	Habitat present onsite. This species was detected just west of the BSA. Preconstruction surveys are recommended.
Icteria virens	Yellow-breasted chat	SSC	The breeding population is confined to riparian woodlands in the coastal lowlands.	P	Present onsite in 2006. This species likely uses the site as a stopover during migration. Preconstruction surveys are recommended.
Piranga rubra	Summer tanager	SSC	Occurs in pine-oak and oak forests, streamside willows and cottonwood trees, and dry open woodlands.	HP	Habitat present onsite. This species was detected just west of the BSA by Impact Sciences during 2003. Preconstruction surveys are recommended.
Aimophila ruficeps canescens	Southern California rufous-crowned sparrow	SSC	Uncommon to fairly common localized resident of sage scrub on steep rocky slopes.	P	Present onsite. A pair was observed in scrub habitats on the central portion of the BSA. Preconstruction surveys are recommended.
Amphispiza belli belli	Bell's sage sparrow	SSC	Coastal sage scrub and open chaparral habitats.	HP	Habitat present onsite. Moderate potential to occur onsite. This species was detected just west of the BSA by(Impact Sciences in 2003. Preconstruction surveys are recommended.
Agelaius tricolor	Tricolored blackbird	SSC	Localized resident; nests in large, dense colonies in freshwater marsh; forages in agricultural areas, lakeshores, and damp lawns.	HP	Marginal habitat present onsite. Low potential to occur onsite. This species was detected by Impact Sciences in 2003. Preconstruction surveys are recommended.

Table 3-3: Sensitive Species Known to Occur or with the Potential to Occur within the BSA (Continued)

Scientific Name	Common Name	Status[1]	General Habitat Description	Habitat Present/Absent within the BSA[2]	Rationale
Macrotus californicus	California leaf-nosed bat	SSC	Found in lowland desert scrub where it uses caves, abandoned mine tunnels, or natural rock shelters in canyon walls for rest sites during the day and buildings, bridges, rocks, and mines for temporary night roosts.	HP	Low potential to occur within the BSA because suitable foraging habitat is limited and roosting habitat is not present onsite. Preconstruction surveys are recommended.
Euderma maculatum	Spotted bat	SSC	Inhabits a variety of habitats from desert scrub to montane coniferous woodlands, including pinyon-juniper woodland, open ponderosa pine, canyon bottoms, open pasture, and hayfields.	HP	Low potential to occur within the BSA because suitable foraging habitat is limited and roosting habitat is not present onsite. Preconstruction surveys are recommended.
Corynorhinus townsendii pallescens	Pale big-eared bat	SSC	Inhabits a variety of habitats from desert scrub to deciduous and coniferous forests where it uses abandoned mines, buildings, hollow tree cavities, and snags as roosting sites.	HP	Low potential to occur within the BSA because suitable foraging habitat is limited and roosting habitat is not present onsite. Preconstruction surveys are recommended.
Corynorhinus townsendii townsendii	Townsend's western big-eared bat	SSC	Requires roosts in caves, tree hollows, mines, tunnels, buildings, or other structures.	HP	Low potential to occur within the BSA because suitable foraging habitat is limited and roosting habitat is not present onsite. Preconstruction surveys are recommended.
Antrozous pallidus	Pallid bat	SSC	Inhabits arid deserts and grasslands, usually near rocky outcroppings and water, and occasionally evergreen and mixed conifer woodland where it roosts most frequently in rock crevices or buildings but also uses caves, tree hollows, and mines as roosting sites.	HP	Moderate potential to occur within the BSA because suitable foraging habitat is limited and roosting habitat is not present onsite. Preconstruction surveys are recommended.
Eumops perotis californicus	California mastiff bat	SSC	Roosts in high crevices, tall buildings, and dams.	A	Not expected to occur within the BSA because suitable habitat is not present onsite.

Table 3-3: Sensitive Species Known to Occur or with the Potential to Occur within the BSA (Continued)

Scientific Name	Common Name	Status[1]	General Habitat Description	Habitat Present/Absent within the BSA[2]	Rationale
Lepus californicus bennettii	San Diego black-tailed jackrabbit	SSC	Habitats include coastal sage scrub, chaparral, and grasslands.	HP	Habitat present onsite. This species was observed just west of the BSA by Impact Sciences in 2003. Preconstruction surveys are recommended.
Neotoma lepida intermedia	San Diego desert woodrat	SSC	Occupies rocky habitats in association with chaparral and coastal sage scrub.	HP	Habitat present onsite. This species was observed just west of the BSA by Impact Sciences in 2003. Preconstruction surveys are recommended.
Odocoileus hemionus fuliginata	Southern mule deer	SG	Occurs in large, undisturbed tracts of coastal sage scrub, chaparral, mixed grassland/scrub vegetation, riparian and oak woodlands, and coniferous forest, especially in areas with a mosaic of vegetation that provide clearings interspersed with dense brush or tree thickets.	P	Present onsite. Three individuals observed moving through the BSA during project surveys. Preconstruction surveys are recommended.

[1]Sensitivity Status Key

FE Federally endangered
FT Federally threatened
SE State of California endangered
SR State Rare
ST State of California threatened
SFP State of California fully protected
SSC State of California Species of Concern
SG State of California regulated game species
SA State of California Special Animals
SCM Santa Clarita Municipal Code
CNPS: 1A California Native Plant Society List 1A species (considered extinct in California)
CNPS: 1B California Native Plant Society List 1B species (considered rare, threatened, or endangered in California and elsewhere)
CNPS: 2 California Native Plant Society List 2 species (considered rare, threatened, or endangered in California, but more common elsewhere)
CNPS: 4 California Native Plant Society List 4 species (Limited Distribution: A watch list)

[2]Present/Absent

HP Present: Habitat present during biological surveys.
P Present: Species present during biological surveys.
A Absent: Habitat and/or Species absent during biological surveys

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Chapter 4. Results: Biological Resources, Discussion of Impacts and Mitigation

4.1. Sensitive Resource Impact Analysis

Sensitive resources may be either directly or indirectly impacted by a project. Direct and indirect impacts may furthermore be either permanent or temporary in nature. These impacts are described below.

Direct: Any alteration, disturbance, or destruction of biological resources that would result directly from project-related activities is considered a direct impact. Examples include clearing vegetation and placing fill into wetlands.

Indirect: As a result of project-related activities, biological resources may be affected in a manner that is not direct. Examples include elevated noise and dust levels, shading from bridges, soil compaction, increased human activity, decreased water quality, and the introduction of invasive animals (domestic cats and dogs) and plants.

Permanent: All impacts that result in the irreversible removal of jurisdictional resources are considered permanent. For the purposes of this project, impacts are irreversible when placing fill results in a permanent elevation change or the creation of an impervious surface. Examples include constructing a building or permanent road on an area containing biological resources.

Temporary: Any impacts considered to have reversible effects on biological resources can be viewed as temporary. For the purpose of this project, if preconstruction contours are maintained and the original characteristics of the area can be reestablished in place, then the impact is considered temporary. Examples include removing vegetation for underground pipeline trenching activities and either revegetating or allowing the natural vegetation to recolonize the recontoured impact area, and placing and subsequently removing fill for the purpose of temporary construction access.

Permanent direct impacts from the proposed Bridge Alternative are depicted in Figures 7, 8, and 9. The zone of direct impact is characterized as the AE, which includes a permanent grading limit for the proposed bridge construction in the floodplain of the Santa Clara River. The direct impacts to sensitive vegetation and

species as a result of the proposed Bridge Alternative are presented in Tables 4-1 and 4-2 and described below.

Table 4-1: Habitat Direct Impact Matrix

Vegetation Community	Total Direct Impacts hectares (acres)
Big Sagebrush Scrub	0.06 (0.15)
Southern Riparian Scrub	0.91 (2.24)
Ruderal	0.01 (0.02)
Nonwetland Waters of the U.S.	0.84 (2.07)
Total	**1.82 (4.48)**

Note: Total area of vegetation communities within the BSA is shown in Table 3-2.

Indirect impacts are not quantified because there are no established standards to determine the extent of impacts from the point source (dust, sediment, lighting, runoff, illegal trespass, etc.).

Cumulative impacts cannot be determined at this time.

Indirect impacts such as dust, sediment, lighting, runoff, and illegal trespass are not quantified because there are no established standards to determine the extent of impacts from the point source. Indirect impacts due to shading from the proposed bridge would not have a significant impact on sensitive resources because this section of the river does not frequently flow with water. Shading effects are determined by how much area is covered by a bridge over standing or flowing water systems. With infrequent water flows, this portion of the river would not be significantly affected by the shadow of the proposed bridge. However, direct and indirect impacts related to the proposed project that significantly affect sensitive resources would require mitigation.

4.2 Avoidance and Mitigation Measures for Sensitive Resources

Avoidance and mitigation measures were determined in the ROD prepared by the Corps in December 1998 for the finalization of the NRMP and its proposed activities within the Santa Clara River and it tributaries. To minimize grading impacts to sensitive biological resources within the Golden Valley Road Bridge Project, the applicant would implement specific avoidance and mitigation measures outlined in the ROD. Appendix D includes *The Mitigation Monitoring and Reporting Program* (MMRP), which lists all avoidance and mitigation measures necessary to minimize project impacts proposed in the NRMP, including this project design.

Table 4-2: Sensitive Species Impact Matrix and Recommended Compensatory Mitigation

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Impacted within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
Slender Mariposa Lily	3 individuals	None.	3 individuals would be indirectly impacted.	Since there would not be any direct impacts to slender mariposa lily, no compensatory mitigation measures would be required. Potential temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard Best Management Practices (BMPs) such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Plummer's Mariposa Lily	35 individuals	None.	35 individuals would be indirectly impacted.	Since there would not be any direct impacts to Plummer's mariposa lily, no compensatory mitigation measures would be required. Potential temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Peirson's Morning Glory	236 individuals	None.	236 individuals would be indirectly impacted.	Since there would not be any direct impacts to Peirson's morning glory, no compensatory mitigation measures would be required. Potential temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

Table 4-2: Sensitive Species Impact Matrix and Recommended Compensatory Mitigation (Continued)

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Impacted within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
Palmer's Grappling Hook	50 individuals	None.	50 individuals would be indirectly impacted.	Since there would not be any direct impacts to Palmer's grappling hook, no compensatory mitigation measures would be required. Potential temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Coast Live Oak	1 individual	None.	1 individual would be indirectly impacted.	Since there would not be any direct impacts to coast live oak, no compensatory mitigation measures would be required. Potential temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the City of Santa Clarita and the resource agencies.
Western Spadefoot Toad	1 individual adult, hundreds of tadpoles	1.75 ha (4.31 ac)	A small breeding population would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

Table 4-2: Sensitive Species Impact Matrix and Recommended Compensatory Mitigation (Continued)

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Impacted within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
Coastal Western Whiptail	7 individuals	0.97 ha (2.39 ac)	7 individuals would be indirectly impacted.	Compensatory mitigation measures for direct impacts to coastal western whiptail would be riparian habitat-based for the seven individuals impacted. Potential temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
White-tailed Kite	1 individual	0.97 ha (2.39 ac)	1 individual would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Sharp-shinned Hawk	1 individual	0.97 ha (2.39 ac)	No individ-uals would be impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Cooper's Hawk	8 individuals	0.97 ha (2.39 ac)	8 individuals would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

Table 4-2: Sensitive Species Impact Matrix and Recommended Compensatory Mitigation (Continued)

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Impacted within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
Western Yellow-billed Cuckoo	1 individual	0.91 ha (2.24 ac)	1 individual would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Loggerhead Shrike	2 individuals	0.06 ha (0.15 ac)	2 individuals would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Yellow Warbler	1 individual	0.91 ha (2.24 ac)	1 individual would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Summer Tanager	1 individual	0.91 ha (2.24 ac)	1 individual would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

Table 4-2: Sensitive Species Impact Matrix and Recommended Compensatory Mitigation (Continued)

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Impacted within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
Southern California Rufous-crowned Sparrow	3 individuals	0.06 ha (0.15 ac)	3 individuals would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Bell's Sage Sparrow	1 individual	0.06 ha (0.15 ac)	1 individual would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Tricolored Blackbird	1 individual	0.91 ha (2.24 ac)	1 individual would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
San Diego Black-tailed Jackrabbit	2 individuals	0.97 ha (2.39 ac)	2 individuals would be indirectly impacted.	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

Table 4-2: Sensitive Species Impact Matrix and Recommended Compensatory Mitigation (Continued)

Species	Population Size Observed within the BSA	Suitable Habitat within AE	Impacted within AE	Potential Compensatory Mitigation Ratio or Rate	Maximum Compensatory Mitigation Amount or Area
San Diego Woodrat	2 individuals	0.97 ha (2.39 ac)	2 individuals would be indirectly impacted	Potential permanent and temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as preconstruction surveys, temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.
Southern Mule Deer	3 individuals	1.82 ha (4.48 ac)	3 individuals would be indirectly impacted.	Potential temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs such as temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan.	To be determined through discussions with the resource agencies.

The following sections in this chapter describe each of the sensitive resources detected within the Golden Valley Road Bridge Project BSA, specific avoidance measures, permanent and temporary project impacts, compensatory mitigation, and cumulative impacts derived from the proposed project design.

4.3. Natural Communities of Special Concern

Sensitive habitats are those that are considered rare within the region or are considered sensitive by the CDFG (2003). Communities listed on CNDDB as having the highest inventory priorities are also considered sensitive (CDFG 2006a), as well as wetland and/or riparian habitat regulated by the Corps under Section 404 of the Clean Water Act and by the CDFG under Section 1600 of the CDFG Code.

Within the BSA, the only sensitive community is the southern riparian scrub. This community is home to a number of sensitive species and is endemic to southern California. Descriptions of this sensitive community are provided below.

4.3.1. Discussion of Southern Riparian Scrub

Southern riparian scrub is considered sensitive by local and state agencies, and specifically by the CDFG (2003). Southern riparian scrub is considered sensitive because of the high number of sensitive species associated with this community and the recent losses due to urbanization. Southern riparian scrub is a very restricted community, only occurring in southern California counties. This community has been heavily impacted by urban and rural channelization and development.

4.3.1.1. Survey Results

The southern riparian scrub community can be found within the floodplain and along the upper edges of the Santa Clara River. Approximately 6.40 ha (15.81 ac) of southern riparian scrub habitat were observed within the BSA.

4.3.1.2. Avoidance and Minimization Efforts

Environmental consequences of the project on southern riparian scrub would be avoided and reduced to the extent feasible through project design. Efforts to further avoid and reduce impacts to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities as noted in the MMRP outlined in Appendix D. Specific avoidance measures in the MMRP include Measures BIO-1 (a-n) and BIO-2 (a-d). Additional measures such as preconstruction meetings, contractor awareness programs, temporary fencing and

signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard Best Management Practices (BMPs) developed in the NRMP are also recommended to avoid impacts to southern riparian scrub.

4.3.1.3. Project Impacts

Permanent grading activities would directly impact this sensitive habitat in areas of the proposed AE and indirectly impact habitat that persists adjacent to the AE. The Bridge Alternative would permanently impact 0.91 ha (2.24 ac) of southern riparian scrub habitat.

Indirect impacts to this community, outside of but adjacent to the AE, could arise from unauthorized construction trespass, erosion, sedimentation, and construction-generated fugitive dust.

4.3.1.4. Compensatory Mitigation

Unavoidable permanent direct and indirect impacts to the southern riparian scrub would require mitigation. Mitigation efforts to be implemented for permanent impacts to this vegetation community are outlined in Mitigation Measure BIO-5 (a-o), Riparian Habitat Mitigation Program, of the MMRP (Appendix D). Mitigation ratios for this vegetation will range from 1:1 to 3:1, depending upon the timing of implementation of southern riparian scrub restoration (see BIO-5a).

4.3.1.5. Cumulative Impacts

Implementation of the Golden Valley Road Bridge Project, as well as other projects within the region, would contribute to cumulative impacts to this vegetation community through direct, incremental loss of habitat and increasing indirect pressures on remaining dwindling habitats. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.4. Special Status Plant Species

Sensitive plants include those listed as threatened, endangered, or proposed for listing by the USFWS (2005), CDFG (2006b and 2006c), and CNPS (2001). The CNPS Listing is sanctioned by the CDFG and essentially serves as its list of candidate species for threatened or endangered status. All sensitive plant species detected within the BSA or that have a potential to occur within the BSA based on previously

recorded occurrences in the vicinity of the BSA, or the presence of suitable habitat, are listed in Table 4-2.

Species that are federally or state listed are afforded a degree of protection that entails a permitting process, including specific mitigation measures to compensate for impacts to the species. Species that are proposed to be listed by the USFWS are treated similarly to listed species by that agency. Recommendations of the USFWS, however, are advisory rather than mandatory in the case of proposed species. Species that are considered state species of special concern by the CDFG have a lesser degree of protection under CEQA. Plant species that are considered sensitive by the CNPS have a lesser degree of protection under CEQA. Under CEQA, avoidance of impacts to these species or implementation of measures such as preconstruction surveys could be required to reduce potential impacts.

Out of the 28 sensitive plant species with the potential to occur within the region, the BSA consists of suitable habitat for 26 species (Table 4-2). Only two species were observed during the late spring 2003 survey by EDAW, Plummer's mariposa lily and coast live oak. However, five other sensitive plant species were identified in regions of the BSA by Impact Sciences (2004), whose project site for the proposed Riverpark development is within and adjacent to the Golden Valley Road Bridge Project BSA. In the *Riverpark Environmental Impact Report* (Impact Sciences 2004), surveys conducted in spring 2003 documented locations of early annual sensitive plant species within the BSA, such as the slender mariposa lily, Peirson's morning glory, and Palmer's grappling hook. EDAW biologists conducted additional update surveys for these species during the spring of 2006. Four species were observed in 2006, the Plummer's mariposa lily, Pierson's morning glory, Palmer's grappling hook, and coast live oak. Figures 7 and 8 show the vegetation communities, sensitive plant locations, and the Bridge Alternative footprint. Below are individual discussions depicting the natural history of each species, potential of occurrence, survey results, avoidance and minimization efforts, anticipated project impacts, compensatory mitigation, and cumulative impacts for the proposed project. All avoidance and mitigation measures described below for each species are based on the NRMP (Valencia 1998) and ROD (Corps 1998b) to minimize all impacts to sensitive biological resources within the BSA. The MMRP from the ROD (Corps 1998b) is presented as Appendix D and includes the referenced avoidance and mitigation measures approved by the Corps and CDFG.

4.4.1. Discussion of Braunton's Milkvetch

The Braunton's milkvetch is a federally listed endangered species (UFWS 1999) endemic to southern California and is included on the CNPS List 1B. With less than 300 plants remaining since last reported in 1997, this perennial herb is restricted to carbonate soils in coastal scrub, chaparral, foothill and valley grassland habitats, and disturbed or recently burned areas (CNPS 2001). Limited in distribution, the Braunton's milkvetch can only be found in Los Angeles, Orange, and Ventura counties. The remaining populations are threatened by habitat loss due to the influx of development, agricultural activities, and grazing. The closest documented site of Braunton's milkvetch is located 26.47 km (16.45 mi) from the BSA (CDFG 2006a).

The Braunton's milkvetch was not observed within the BSA during the winter 2002 and spring 2003, or during spring 2006 surveys. The surveys were conducted during the traditional blooming period when the tall perennial herb would have been observable. The species was not detected and has a low potential to occur within the BSA due to the absence of suitable habitat, carbonate soils, and no known population in proximity to the BSA. The alteration of local fire regimes in the area may also have a negative effect on this species' distribution in the local vicinity of the BSA (CNPS 2001). As such, there is a very low probability for this species to be present in the BSA and avoidance, minimization, or compensatory mitigation measures would be required.

4.4.2. Discussion of Nevin's Barberry

The Nevin's barberry is a federally and state listed endangered species (USFWS 2005) endemic to southern California and is included on the CNPS List 1B. With less than 1,000 plants remaining since last reported in 1992, this evergreen shrub is restricted to sandy soils in riparian scrub, coastal sage scrub, and chaparral habitats (CNPS 2001). Limited in distribution, the Nevin's barberry can only be found in Los Angeles, Riverside, San Bernardino, and San Diego counties. The remaining populations are threatened by habitat loss due to the influx of development, agricultural activities, and grazing. The last documented site of the Nevin's barberry was recorded in 1987 in the San Francisquito Canyon approximately 6.31 km (3.92 mi) northwest of the BSA (CDFG 2006a).

The Nevin's barberry was not observed within the BSA during the winter 2002, spring 2003, and spring 2006 field surveys. Although the surveys were conducted outside of the traditional blooming period, this obvious perennial would have been

observable at any time of the year. The species was not detected and has a low potential to occur within the BSA. As such, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.4.3. Discussion of Thread-leaved Brodiaea

The thread-leaved brodiaea is a perennial herb in the lily family and is federally listed threatened, state listed endangered, and considered extremely rare (List 1B) by the CNPS (2001). This endemic monocot ranges from Los Angeles, Orange, Riverside, San Bernardino, and San Diego counties within grasslands, vernal pools, coastal sage scrub, and chaparral habitats. Typically, this species is known to grow in open areas on clay soils. Due to soil restrictions and habitat loss, this species is severely threatened by development and urbanization. The closest known location of this species is 67.27 km (41.80 mi) from the BSA (CDFG 2006a).

The thread-leaved brodiaea was not observed within the BSA during the winter 2002, spring 2003, and spring 2006 field surveys, which coincided with its traditional blooming period. Due to the limited amount of suitable habitat, which consists of openings in chaparral and/or sage scrub with clay soils, the thread-leaved brodiaea is not expected to occur in the BSA. As such, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.4.4. Discussion of Slender Mariposa Lily

The slender mariposa lily is a perennial herb in the lily family considered extremely rare (List 1B) by the CNPS (2001). This endemic monocot ranges within Los Angeles County with a total of only nine known occurrences found in coastal sage scrub and chaparral habitats. Typically, this species is known to grow on rocky slopes and/or in serpentine soils. Due to soil restrictions and habitat loss, this species is severely threatened by development and urbanization. Two of the nine occurrences in Los Angeles County are located in Soledad Canyon and San Francisquito Canyon, which are approximately 0.56 km (0.35 mi) and 6.31 km (3.92 mi), respectively, northwest of the BSA (CDFG 2006a).

4.4.4.1. Survey Results

The slender mariposa lily was not observed within the BSA during the winter 2002, spring 2003, or spring 2006 field surveys by EDAW. The surveys were conducted at the end of the blooming period for this species. At this time, fruit maturation begins and the species becomes fairly inconspicuous. However, surveys conducted by

Impact Sciences (2004) identified three individuals of this species within the BSA. Thirty-three individuals were also detected adjacent to and west of the BSA by Impact Sciences (2004) during spring 2003.

4.4.4.2. Avoidance and Minimization Efforts

Environmental consequences of the project on biological resources would be avoided and reduced to the extent feasible through project design. Additional measures to further avoid and reduce impacts to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities as noted in the MMRP. Such measures would include, but not be limited to, preconstruction surveys, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs.

4.4.4.3. Project Impacts

Impacts to the 12 individuals of slender mariposa lily detected in the BSA are not anticipated through the proposed project. All individuals detected are located outside of the AE where all grading activities would be confined. Therefore, no direct impacts to this species are expected to occur from the proposed Bridge Alternative.

4.4.4.4. Compensatory Mitigation

Potential direct impacts to slender mariposa lily would be mitigated at a 1:1 ratio for all individuals impacted in the AE and BSA (Valencia 1998). Mitigation Measures BIO-4 (a-c) and BIO-24 in the MMRP outline habitat-based mitigation for the permanent impacts to this species' habitat. For indirect impacts, mitigation measures would include standard BMPs such as temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan as directed in the NRMP.

4.4.4.5. Cumulative Impacts

Implementation of the Golden Valley Road Bridge Project, as well as other projects within the region, would contribute to cumulative impacts to this sensitive species through direct, incremental loss of populations and habitat, and increasing indirect pressures on remaining dwindling populations. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.4.5. Discussion of Plummer's Mariposa Lily

The Plummer's mariposa lily is another perennial herb in the lily family considered a List 1B species by the CNPS (2001). Typically, it is found in granitic substrate in chaparral, coastal sage scrub, cismontane woodland, lower montane coniferous forest, and foothill grasslands. Its distribution range includes Ventura, Los Angeles, Orange, Riverside, and San Bernardino counties, but known populations have reduced considerably due to habitat loss from urbanization (CNPS 2001).

4.4.5.1. Survey Results

The Plummer's mariposa lily was observed within the BSA during the 2003 and 2006 field surveys conducted by EDAW. Approximately 28 individuals were found within the BSA in 2003 and a total of 35 were found during the 2006 surveys (Figure 8). No individuals occur within the AE.

4.4.5.2. Avoidance and Minimization Efforts

Environmental consequences of the project on biological resources would be avoided and reduced to the extent feasible through project design and the measures outlined in the NRMP. Additional measures to further avoid and reduce impacts to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities as noted in the NRMP. Such measures would include, but not be limited to, preconstruction surveys, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs.

4.4.5.3. Project Impacts

Activities of the Bridge Alternative are not expected to impact any of the Plummer's mariposa lily individuals identified. No suitable habitat for this species occurs within the AE.

Indirect permanent and temporary impacts outside of but adjacent to the AE could arise from unauthorized construction trespass, erosion, sedimentation, and construction-generated fugitive dust.

4.4.5.4. Compensatory Mitigation

Potential direct impacts to Plummer's mariposa lily would be mitigated at a 1:1 ratio for all individuals impacted in the BSA (Corps 1998a). Mitigation Measures BIO-4 (a-c) and BIO-24 in the MMRP outline habitat-based mitigation for the permanent

impacts to this species' habitat. For indirect impacts, mitigation measures would include standard BMPs such as temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan as directed in the NRMP.

4.4.5.5. Cumulative Impacts

Implementation of the Golden Valley Road Bridge Project, as well as other projects within the region, would contribute to cumulative impacts to this sensitive species through direct, incremental loss of populations and habitat, and increasing indirect pressures on remaining dwindling populations. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.4.6. Discussion of Peirson's Morning Glory

The Peirson's morning glory is a perennial herb in the morning glory family considered a List 4 species by the CNPS (2001). Typically it is found in granitic, sandy substrate in chaparral, coastal sage scrub, and chenopod scrub. Its distribution range includes Ventura, Los Angeles, Orange, Riverside, and San Bernardino counties, but known populations have reduced considerably due to habitat loss from urbanization (CNPS 2001).

4.4.6.1. Survey Results

The Peirson's morning glory was observed within the BSA during spring 2003 field surveys conducted by Impact Sciences (2004) for the Riverpark EIR. Approximately 236 individuals were detected in the BSA (Figure 8), but of these, only 150 individuals could be relocated in 2006 surveys. Adjacent to the BSA, approximately 71 individuals were detected by Impact Sciences (2004) on south-facing slopes and flat areas in disturbed vegetation such as nonnative grasslands and coastal sage scrub.

4.4.6.2. Avoidance and Minimization Efforts

Environmental consequences of the project on biological resources would be avoided and reduced to the extent feasible through project design and the measures outlined in the NRMP. Additional measures to further avoid and reduce impacts to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities as noted in the NRMP. Such measures would include, but not be limited to, preconstruction surveys, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the

construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs.

4.4.6.3. Project Impacts

Impacts to the 236 individuals of Peirson's morning glory detected in the BSA are not anticipated through the proposed project. All individuals detected onsite are located outside of the AE where all grading activities would be confined. Therefore, no direct impacts to this species are expected to occur from the proposed Bridge Alternative. No suitable habitat occurs within the AE.

4.4.6.4. Compensatory Mitigation

Potential direct impacts to Peirson's morning glory would be mitigated at a 1:1 ratio for all individuals impacted in the AE and BSA (Corps 1998a). Mitigation Measures BIO-4 (a-c) and BIO-24 in the MMRP outline habitat-based mitigation for the permanent impacts to this species' habitat. For indirect impacts, mitigation measures would include standard BMPs such as temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan as directed in the NRMP.

4.4.6.5. Cumulative Impacts

Implementation of the Golden Valley Road Bridge Project, as well as other projects within the region, would contribute to cumulative impacts to this sensitive species through direct, incremental loss of populations and habitat, and increasing indirect pressures on remaining dwindling populations. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.4.7. Discussion of San Fernando Valley Spineflower

The San Fernando Valley spineflower is an annual herb considered to be a state endangered species (CDFG 2006b) and is considered extremely rare (List 1B) by the CNPS (2001). It is also listed as a candidate species for either endangered or threatened status by the USFWS (CDFG 2006c). Its distribution includes Ventura, Los Angeles, and Orange counties where it occurs in sandy soils within coastal scrub habitats. Believed to be extinct, the San Fernando Valley spineflower was rediscovered in 1999 (CNPS 2001). However, due to development and habitat loss, the sensitive endemic is only known from two reported locations in Newhall, Los Angeles County, approximately 4.78 km (2.97 mi) south of the BSA (CDFG 2006a).

4.4.7.1. Survey Results

The San Fernando Valley spineflower was not observed within the BSA during the botanical field surveys. Despite the low probability of occurrence within the AE, preconstruction surveys are recommended prior to project implementation based on the proximity to the known location just south of the BSA.

4.4.7.2. Avoidance and Minimization Efforts

Environmental consequences of the project on biological resources would be avoided and reduced to the extent feasible through project design. Additional measures to further avoid and reduce impacts to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities as noted in the NRMP. Such measures would include, but not be limited to, preconstruction surveys, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs.

4.4.7.3. Project Impacts

This species was not observed within the BSA and no suitable habitat occurs within the AE; therefore, no impacts to this species are anticipated.

4.4.7.4. Compensatory Mitigation

Since no impacts to this species are anticipated, no compensatory mitigation measures would be required.

4.4.7.5. Cumulative Impacts

Since this species would not be directly impacted by the Golden Valley Road Bridge Project, no cumulative direct impacts would occur.

4.4.8. Discussion of Santa Susana Tarplant

The Santa Susana tarplant is a deciduous shrub of the sunflower family considered rare by the CDFG (2006c). Labeled a List 1B species by the CNPS (2001), the Santa Susana tarplant is considered a sensitive species threatened by development within its range, which only includes Los Angeles and Ventura counties. This conspicuous species blooms from July to November and occurs in rocky substrates of chaparral and coastal scrub. There is only one known location approximately 17.30 km (10.75 mi) from the BSA (CDFG 2006a).

The Santa Susana tarplant was not observed within the BSA during the winter 2002, and spring 2003, or spring 2006 field surveys, which coincided with its traditional blooming period. This species has a low probability of occurrence and is not expected to occur within the BSA due to the small fragmented patches of suitable habitat and the lack of a reference population close to the vicinity of the BSA. As such, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.4.9. Discussion of Dune Larkspur

The dune larkspur is a perennial herb in the buttercup family considered a List 1B species by the CNPS (2001). Typically, it is found in sandy substrate in chaparral and coastal dunes. Its distribution range includes Ventura and Los Angeles counties, but known populations have reduced considerably due to habitat loss from urbanization (CNPS 2001).

4.4.9.1. Survey Results

The dune larkspur was observed within the BSA during the spring 2003 field surveys conducted by Impact Sciences (2004) for the Riverpark EIR. No individuals were observed within or adjacent to the BSA during 2006 surveys.

4.4.9.2. Avoidance and Minimization Efforts

Environmental consequences of the project on biological resources would be avoided and reduced to the extent feasible through project design and the measures outlined in the NRMP. Additional measures to further avoid and reduce impacts to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities as noted in the NRMP. Such measures would include, but not be limited to, preconstruction surveys, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs.

4.4.9.3. Project Impacts

This species was not observed within the BSA; therefore, no impacts to this species are anticipated.

4.4.9.4. Compensatory Mitigation

Since no impacts to this species are anticipated, no compensatory mitigation measures would be required.

4.4.9.5. Cumulative Impacts

Since this species would not be directly impacted by the Golden Valley Road Bridge Project, no cumulative direct impacts would occur.

4.4.10. Discussion of Slender-Horned Spineflower

The slender-horned spineflower is an annual of the buckwheat family and is considered endangered by the USFWS (2005) and CDFG (2006c). Labeled a List 1B species by CNPS (2001), the slender-horned spineflower is considered extremely rare with only a few occurrences left within its range, which includes Los Angeles, Riverside, and San Bernardino counties. Historically, it occurred in chaparral, coastal scrub, alluvial fan sage scrub, and cismontane woodlands. However, due to urbanization and campground development, most of the occurrences reported are found in sandy soils of dry washes, chaparral, and alluvial fan sage scrub within Los Angeles County (CDFG 2006a, CNPS 2001). There is one known location of this sensitive species near the BSA in Bee Canyon Wash, a tributary of the Santa Clara River. This site location is approximately 15.13 km (9.40 mi) away (CDFG 2006a).

The slender-horned spineflower was not observed within the BSA during the winter 2002, spring 2003, or spring 2006 field surveys, which coincided with its traditional blooming period. This species has a low probability of occurrence within the BSA and is not expected to occur within the AE due to the small amount of suitable, undisturbed habitat in the project area and no evidence of past years' growth. Reference populations near the site were in bloom in 2003 (Impact Sciences 2004), but no individuals were observed in the BSA. The slender-horned spineflower is not expected to occur within the project site. As such, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.4.11. Discussion of Agoura Hills Dudleya

The Agoura Hills dudleya is a perennial herb of the stonecrop family considered threatened by the USFWS (2005). Labeled a List 1B species by the CNPS (2001), this species is considered extremely rare with only a few occurrences left within Los Angeles and Ventura counties (CNPS 2001). Historically, it occurred in

chaparral and cismontane woodlands. However, due to urbanization and campground development, most of the occurrences reported are found in the isolated areas of the Santa Monica Mountains. The closest known location of this sensitive species near the BSA is approximately 37.98 km (23.60 mi) away (CDFG 2006a).

The Agoura Hills dudleya was not observed within the BSA during the winter 2002, spring 2003, or spring 2006 field surveys, which coincided with its traditional blooming period. This species has a low probability of occurrence within the BSA due to the small amount of suitable habitat and the distance to a known population. The Agoura Hills dudleya is not expected to occur within the project site. As such, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.4.12. Discussion of Marcescent Dudleya

The marcescent dudleya is another perennial herb of the stonecrop family considered threatened by the USFWS (2005) and rare by the CDFG (2006b). Labeled a List 1B species by CNPS (2001), this species is considered extremely rare with only eight occurrences left within the Santa Monica Mountains (CNPS 2001). It occurs in volcanic soils of chaparral. However, due to urbanization and campground development, this species is in severe decline. The closest known location of this sensitive species near the BSA is approximately 40.23 km (25.0 mi) away.

The marcescent dudleya was not observed within the BSA during the winter 2002, spring 2003, or spring 2006 field surveys, which coincided with its traditional blooming period. This species has a low probability of occurrence within the BSA due to the small amount of suitable habitat and the absence of a known population close to the project vicinity. As such, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.4.13. Discussion of Santa Monica Mountains Dudleya

The Santa Monica Mountains dudleya is a perennial herb of the stonecrop family considered threatened by the USFWS (2005). Labeled a List 1B species by the CNPS (2001), this species is considered extremely rare with only 10 occurrences left within Los Angeles and Orange counties (CNPS 2001). Historically, it occurred in chaparral and coastal scrub. However, due to urbanization, most of the occurrences reported are found in the isolated areas of the Santa Monica Mountains. The closest

known location of this sensitive species near the BSA is approximately 39.27 km (24.40 mi) away (CDFG 2006a).

The Santa Monica Mountains dudleya was not observed within the BSA during the winter 2002, spring 2003, or spring 2006 field surveys, which coincided with its traditional blooming period. This species has a low probability of occurrence within the BSA due to the small amount of suitable habitat and the absence of a known population close to the project vicinity. As such, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.4.14. Discussion of Palmer's Grappling Hook

The Palmer's grappling hook is an inconspicuous annual herb in the borage family and is considered a List 4 species by the CNPS (2001). Typically it is found in clay soils in chaparral, coastal sage scrub, and annual grasslands. Its distribution range includes Los Angeles, Orange, Riverside, and San Diego counties, but known populations have reduced considerably due to habitat loss from urbanization (CNPS 2001).

4.4.14.1. Survey Results

The Palmer's grappling hook was observed within the BSA during the spring 2003 and spring 2006 surveys. Approximately 30 individuals were detected in the BSA in the spring 2003 field survey by Impact Sciences (2004) and a total of 50 individuals were detected during EDAW's 2006 surveys (Figure 8). Additionally, Impact Sciences (2004) recorded 17 individuals adjacent to the BSA during 2003.

4.4.14.2. Avoidance and Minimization Efforts

Environmental consequences of the project on biological resources would be avoided and reduced to the extent feasible through project design and the measures outlined in the NRMP. Additional measures to further avoid and reduce impacts to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities as noted in the NRMP. Such measures would include, but not be limited to, preconstruction surveys, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs.

4.4.14.3. Project Impacts

Activities of the Bridge Alternative are not expected to directly impact individuals identified as Palmer's grappling hook.

Indirect permanent and temporary impacts outside of but adjacent to the AE could arise from unauthorized construction trespass, erosion, sedimentation, and construction-generated fugitive dust.

4.4.14.4. Compensatory Mitigation

Potential direct impacts to Palmer's grappling hook would be mitigated at a 1:1 ratio for all individuals impacted in the AE and BSA (Corps 1998b). Mitigation Measures BIO-4 (a-c) and BIO-24 in the MMRP outline habitat-based mitigation for the permanent impacts to this species' habitat. For indirect impacts, mitigation measures would include standard BMPs such as temporary construction fencing and signage, dust abatement measures, and implementation of an approved erosion control plan as directed in the NRMP.

4.4.14.5. Cumulative Impacts

Implementation of the Golden Valley Road Bridge Project, as well as other projects within the region, would contribute to cumulative impacts to this sensitive species through direct, incremental loss of populations and habitat, and increasing indirect pressures on remaining dwindling populations. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.4.15. Discussion of Los Angeles Sunflower

The Los Angeles sunflower was thought to be extinct since 1937 by CNPS (List 1A), until it was rediscovered in September 2002 (Fausset and Chambers 2002). The marsh-loving aster was found along the bank of the Santa Clara River, approximately 11 km (7 miles) west of the BSA. Historically known in coastal habitats such as salt or freshwater marshes and coastal swamps, the 10- to 12-ft-high sunflower used to range from Los Angeles County to San Bernardino County (CDFG 2006a). Currently, this one reported location is the only recent record of the sensitive species since 1937 (CNPS 2001).

4.4.15.1. Survey Results

The Los Angeles sunflower was not observed within the BSA during the winter 2002, spring 2003, or spring 2006 field surveys. The population found upstream is

characterized by tall individuals with a distinct leaf structure. Despite the low probability of occurrence within the AE, focused preconstruction surveys are recommended to ensure this rare endemic is not impacted by the proposed project.

4.4.15.2. Avoidance and Minimization Efforts

Environmental consequences of the project on biological resources would be avoided and reduced to the extent feasible through project design and the measures outlined in the NRMP. Additional measures to further avoid and reduce impacts to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities as noted in the NRMP. Such measures would include, but not be limited to, preconstruction surveys, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs.

4.4.15.3. Project Impacts

This species was not observed within the AE; therefore, no impacts to this species are anticipated.

4.4.15.4. Compensatory Mitigation

Since no impacts to this species are anticipated, no compensatory mitigation measures would be required.

4.4.15.5. Cumulative Impacts

Since this species would not be directly impacted by the Golden Valley Road Bridge Project, no cumulative direct impacts would occur.

4.4.16. Discussion of Southern California Black Walnut

The southern California black walnut is a conspicuous deciduous tree in its own family, known as the walnut family, and is considered a List 4 species by the CNPS (2001). Typically it is found in alluvial soils of coastal scrub and cismontane woodlands. Its distribution range includes Los Angeles, Orange, Riverside, and San Diego counties, but common populations have reduced considerably due to habitat loss from urbanization (CNPS 2001).

4.4.16.1. Survey Results

The southern California black walnut was not observed within the BSA during the 2003 field surveys conducted by Impact Sciences (2004) for the Riverpark EIR or during EDAW's 2006 surveys (Figure 8).

4.4.16.2. Avoidance and Minimization Efforts

Environmental consequences of the project on biological resources would be avoided and reduced to the extent feasible through project design and the measures outlined in the NRMP. Additional measures to further avoid and reduce impacts to these sensitive resources would be done during project implementation via responsible preconstruction surveys and construction activities as noted in the NRMP. Such measures would include, but not be limited to, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs.

4.4.16.3. Project Impacts

This species was not observed within the AE; therefore, no impacts to this species are anticipated.

4.4.16.4. Compensatory Mitigation

Since no impacts to this species are anticipated, no compensatory mitigation measures would be required.

4.4.16.5. Cumulative Impacts

Since this species would not be directly impacted by the Golden Valley Road Bridge Project, no cumulative direct impacts would occur.

4.4.17. Discussion of Southwestern Spiny Rush

The southwestern spiny rush is a perennial herb in the rush family considered a List 4 species by the CNPS (2001). It is found in alkaline and mesic substrates of coastal dunes, meadows, seeps, marshes, and swamps. Its distribution range includes Ventura, Los Angeles, Orange, and San Diego counties, but known populations have reduced considerably due to habitat loss from urbanization (CNPS 2001).

4.4.17.1. Survey Results

The southwestern spiny rush was not observed within the BSA during the winter 2002 and spring 2003 surveys conducted within the BSA.

4.4.17.2. Avoidance and Minimization Efforts

Environmental consequences of the project on biological resources would be avoided and reduced to the extent feasible through project design and the measures outlined in the NRMP. Additional measures to further avoid and reduce impacts to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities as noted in the NRMP. Such measures would include, but not be limited to, preconstruction surveys, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs.

4.4.17.3. Project Impacts

This species was not observed within the AE or BSA; therefore, no impacts to this species are anticipated.

4.4.17.4. Compensatory Mitigation

Since no impacts to this species are anticipated, no compensatory mitigation measures would be required.

4.4.17.5. Cumulative Impacts

Since this species would not be directly impacted by the Golden Valley Road Bridge Project, no cumulative direct impacts would occur.

4.4.18. Discussion of Nuttall's Lotus

The Nuttall's lotus is a threatened annual herb in the legume family considered extremely rare (List 1B) by CNPS (2001). Native to California, it ranges from southern California to Baja California, Mexico, growing in sandy soils of coastal scrub habitats. Declining at a rapid rate, there are fewer than 10 occurrences currently reported to the CDFG (2006a). The species is threatened not only by development, but also by nonnative plants and land management activities, particularly by the U.S. Navy at Silver Strand and Imperial Beach. There are unconfirmed records of the Nuttall's lotus within the chaparral communities near Soledad and Agua Dulce canyons, which range approximately 0.56 km (0.35 mi) and 18.56 km (11.53 mi), respectively, from the BSA (PCR 2000).

4.4.18.1. Survey Results

The Nuttall's lotus was not observed within the BSA during the winter 2002, spring 2003, or spring 2006 field surveys. This species is usually detectable during the

blooming period from March to June. Despite the low to moderate probability of occurrence within the AE, focused preconstruction surveys are recommended prior to project implementation based on the proximity to the known location just south of the BSA.

4.4.18.2. Avoidance and Minimization Efforts

Environmental consequences of the project on biological resources would be avoided and reduced to the extent feasible through project design and the measures outlined in the NRMP. Additional measures to further avoid and reduce impacts to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities as noted in the NRMP. Such measures would include, but not be limited to, preconstruction surveys, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs.

4.4.18.3. Project Impacts

This species was not observed within the AE; therefore, no impacts to this species are anticipated.

4.4.18.4. Compensatory Mitigation

Since no impacts to this species are anticipated, no compensatory mitigation measures would be required.

4.4.18.5. Cumulative Impacts

Since this species would not be directly impacted by the Golden Valley Road Bridge Project, no cumulative direct impacts would occur.

4.4.19. Discussion of Davidson's Bush Mallow

The Davidson's bush mallow is a deciduous shrub in the mallow family considered extremely rare (List 1B) by CNPS (2001). Ranging from Monterey to Los Angeles counties, the threatened mallow can be found in chaparral, cismontane woodland, coastal sage scrub, and occasionally riparian woodlands. Threatened by development and urbanization in Los Angeles County, the 6-month blooming mallow has been sited in Oak Spring Canyon, near the Santa Clara River, approximately 1.2 km (0.64 mi) north of the BSA (CDFG 2006a).

4.4.19.1. Survey Results

The Davidson's bush mallow was not observed within the BSA during both winter and spring surveys, which coincided with its traditional blooming period from June through January. With a low probability of occurrence due to limited suitable habitat within the AE, this species is not anticipated to occur. However, due to the close proximity of a reference population, preconstruction surveys are recommended.

4.4.19.2. Avoidance and Minimization Efforts

Environmental consequences of the project on biological resources would be avoided and reduced to the extent feasible through project design and the measures outlined in the NRMP. Additional measures to further avoid and reduce impacts to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities as noted in the NRMP. Such measures would include, but not be limited to, preconstruction surveys, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs.

4.4.19.3. Project Impacts

This species was not observed within the AE; therefore, no impacts to this species are anticipated.

4.4.19.4. Compensatory Mitigation

Since no impacts to this species are anticipated, no compensatory mitigation measures would be required.

4.4.19.5. Cumulative Impacts

Since this species would not be directly impacted by the Golden Valley Road Bridge Project, no cumulative direct impacts would occur.

4.4.20. Discussion of Short-joint Beavertail

The short-joint beavertail is a native succulent in the cactus family considered extremely rare (List 1B) by CNPS (2001). Recorded in only Los Angeles and San Bernardino counties, this threatened species is found in sandy soil or coarse granitic loam of chaparral, creosote bush scrub, Mojavean desert scrub, pinyon-juniper woodland, and Joshua tree woodland communities. The closest location of the short-joint beavertail is on the south side of Quigley Canyon, on the

north-facing slope, east of Newhall, approximately 4.65 km (2.89 mi) outside the BSA (CDFG 2006a).

The short-joint beavertail, an obvious perennial, was not observed within the BSA during the winter 2002, spring 2003, or spring 2006 field surveys. With the lack of suitable habitat and a low probability of occurrence within the BSA, it is not expected to occur in the project area. As such, no avoidance, minimization, and compensatory mitigation measures would be required for this species.

4.4.21. Discussion of Lyon's Pentachaeta

The Lyon's pentachaeta is an annual herb of the sunflower family considered endangered by the USFWS (2005) and CDFG (2006b). Labeled a List 1B species by CNPS (2001), this species is considered extremely rare with only a few occurrences left within Los Angeles and Ventura counties (CNPS 2001). Historically, it occurred in chaparral, coastal scrub, and grasslands. Due to urbanization, alteration of fire regimes, and recreational activities, this species is in severe decline. The closest known location of this sensitive species near the BSA is approximately 31.87 km (19.80 mi) away (CDFG 2006a).

The Lyon's pentachaeta was not observed within the BSA during the winter 2002, spring 2003, or spring 2006 field surveys, which coincided with its traditional blooming period. This species has a low probability of occurrence within the BSA due to the small fragmented, disturbed patches of suitable habitat and no local population close to the vicinity of the BSA. As such, no compensatory mitigation measures would be required for this species. Preconstruction surveys are recommended as an avoidance measure for this endangered species.

4.4.22. Discussion of Pringle's Yampah

The Pringle's yampah is a perennial herb of the carrot family considered a List 4 species by CNPS (2001). This species ranges from Kern, Ventura, and Los Angeles counties (CNPS 2001). Typically, it occurs in chaparral, coastal scrub, pinyon-juniper woodland, and cismontane woodlands. Due to urbanization and recreational activities, this species is in decline.

The Pringle's yampah was not observed within the BSA during the winter 2002, spring 2003, or spring 2006 field surveys, which coincided with its traditional blooming period. This species has a very low probability of occurrence within the

BSA due to the limited amount of suitable habitat and no local population close to the vicinity of the BSA. As such, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.4.23. Discussion of Coast Live Oak

The coast live oak is a California endemic tree considered a sensitive resource by the Santa Clarita Municipal Code (City 2006). The Oak Tree Preservation ordinance (Section 17.17.090) serves to protect and preserve all healthy oak trees in Santa Clarita. Found throughout California, the coast live oak is still too common for CNPS to consider listing it as a rare or threatened species. However, local city ordinances throughout the state of California have made it a priority to preserve these ancient trees as way of preserving the local heritage.

4.4.23.1. Survey Results

There is one individual of coast live oak trees found within the BSA, located in a tributary, northeast of the Santa Clara River basin (Figure 8). No coast live oak trees occur within the AE.

4.4.23.2. Avoidance and Minimization Efforts

Environmental consequences of the project on biological resources would be avoided and reduced to the extent feasible through project design and the measures outlined in the NRMP. Additional measures to further avoid and reduce impacts to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities as noted in the NRMP. Such measures would include, but not be limited to, preconstruction surveys, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs.

4.4.23.3. Project Impacts

Direct impacts are not expected to occur to the coast live oak individual.

4.4.23.4. Compensatory Mitigation

Potential temporary indirect impacts such as unauthorized construction-related trespass, construction-generated fugitive dust, erosion, and sedimentation would be mitigated through standard BMPs listed in the NRMP such as temporary construction

fencing and signage, dust abatement measures, and implementation of an approved Storm Water Pollution Prevention Plan.

4.4.23.5. Cumulative Impacts

Implementation of the Golden Valley Road Bridge Project, as well as other projects within the region, would contribute to cumulative impacts to this sensitive species through direct, incremental loss of populations and habitat and increasing indirect pressures on remaining dwindling populations. Since this species would not be directly impacted by the proposed project, the Project would not contribute to cumulative direct impacts to this species. However, cumulative indirect impacts may occur.

4.4.24. Discussion of Parish's Gooseberry

The Parish's gooseberry is a California endemic shrub considered extremely rare (List 1B) by CNPS (2001). Limited in distribution, this threatened species can only be found within riparian habitats located in Santa Barbara, Los Angeles, and San Bernardino counties. With less than five historical occurrences, which are now extirpated due to development, this CNPS List 1B species is thought to possibly be extinct (CNPS 2001). The last documented population was found in 1980 at the Whittier Narrows Nature Center (CNPS 2001). The species is threatened by habitat loss due to the influx of development and nonnative vegetation. There are no documented occurrences of the Parish's gooseberry within the vicinity of the BSA (CDFG 2006a).

The Parish's gooseberry was not observed within the BSA during field surveys. With a very low probability of occurrence within the BSA, it is not expected to occur in the project area. As such, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.4.25. Discussion of Rayless Ragwort

The rayless ragwort is a native annual herb in the aster family and is considered rare (List 2) by the CNPS (2001). It occurs on alkaline soils and substrates in coastal sage scrub, chaparral, and cismontane woodlands throughout southern California counties and Baja California. Threatened by development, agriculture, and nonnative vegetation, the rayless ragwort populations are decreasing rapidly. However, there is one historic occurrence of the sensitive species in the Newhall area, approximately 2.88 km (1.79 mi) outside of the BSA (CDFG 2006a).

4.4.25.1. Survey Results

The rayless ragwort was not observed within the BSA during the winter and spring surveys. However, the surveys were conducted just outside the traditional blooming time when this plant may not have been observable. This species is usually detectable during the blooming period from January to April. With a low to moderate probability of occurrence and limited suitable habitat within the BSA, focused preconstruction surveys are recommended prior to project implementation.

4.4.25.2. Avoidance and Minimization Efforts

Environmental consequences of the project on biological resources would be avoided and reduced to the extent feasible through project design and the measures outlined in the NRMP. Additional measures to further avoid and reduce impacts to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities as noted in the NRMP. Such measures would include, but not be limited to, preconstruction surveys, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs.

4.4.25.3. Project Impacts

This species was not observed within the AE; therefore, no impacts to this species are anticipated.

4.4.25.4. Compensatory Mitigation

Since no impacts to this species are anticipated, no compensatory mitigation measures would be required.

4.4.25.5. Cumulative Impacts

Since this species would not be directly impacted by the Golden Valley Road Bridge Project, no cumulative direct impacts would occur.

4.4.26. Discussion of Mason's Neststraw

The Mason's neststraw is a native annual herb in the aster family considered extremely rare (List 1B) by the CNPS (2001). This species is typically known to occur in sandy soils within chenopod scrub and pinyon-juniper woodland in central California counties, including Los Angeles. Rarely seen, this species has only been collected once in 1991 since the last documentation in 1971 (CNPS 2001).

Consequently, the last reported location is in Soledad Canyon, approximately 0.56 km (0.35 mi) away from the BSA (CDFG 2006a).

4.4.26.1. Survey Results

The Mason's neststraw was not observed within the BSA during field surveys. However, the surveys were conducted just after its traditional blooming period when this plant may not have been observable. This species is usually detectable during the blooming period from March to May. Despite the low probability of occurrence within the BSA due to the lack of appropriate habitat, focused preconstruction surveys are recommended in the fourwing saltbush scrub and the surrounding habitats in the BSA.

4.4.26.2. Avoidance and Minimization Efforts

Environmental consequences of the project on biological resources would be avoided and reduced to the extent feasible through project design and the measures outlined in the NRMP. Additional measures to further avoid and reduce impacts to these sensitive resources would be done during project implementation via responsible preconstruction planning and construction activities as noted in the NRMP. Such measures would include, but not be limited to, preconstruction surveys, contractor awareness programs, temporary fencing and signage of all sensitive resource areas immediately adjacent to the AE, the presence of biological monitors during the construction activities adjacent to sensitive biological resources, and the implementation and strict adherence to standard BMPs.

4.4.26.3. Project Impacts

This species was not observed within the AE; therefore, no impacts to this species are anticipated.

4.4.26.4. Compensatory Mitigation

Since no impacts to this species are anticipated, no compensatory mitigation measures would be required.

4.4.26.5. Cumulative Impacts

Since this species would not be directly impacted by the Golden Valley Road Bridge Project, no cumulative direct impacts would occur.

4.4.27. Discussion of Spreading Navarretia

The spreading navarretia is a native annual herb considered federally threatened by the USFWS (2005) and extremely rare (List 1B) by CNPS (2001). Found in vernal

pools, shallow freshwater marshes, and chenopod scrub, the spreading navarretia occurs in San Luis Obispo, Los Angeles, Riverside, and San Diego counties as well as in Baja California. The sensitive annual of the phylox family is threatened by increased agriculture, grazing, flood control, and urbanization. The most recent occurrence of *Navarretia fossalis* in Los Angeles County was in 1995. It was found in a vernal pool system in the Newhall area near Cruzan Mesa (PCR 2000; CDFG 2006a). The species is not expected to occur within the BSA because of a lack of appropriate habitat; therefore, no impacts would occur to spreading navarretia are expected. As such, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.4.28. Discussion of California Orcutt Grass

The California Orcutt grass is a federally and state listed endangered species (USFWS 2005). Limited in distribution, this native annual herb of the grass family can only be found in Ventura, Los Angeles, Riverside, and San Diego counties. With less than 20 reported occurrences, this CNPS List 1B species is restricted to vernal pool microhabitats (CNPS 2001). The species is threatened by habitat loss due to the influx of development, agriculture, grazing, and nonnative vegetation. The one documented occurrence of the California Orcutt grass in the Newhall area is found in the same location on Cruzan Mesa as described above for the spreading navarretia (CDFG 2006a).

The California Orcutt grass was not observed within the BSA during the field surveys. With no vernal pool complexes detected in the BSA, the California Orcutt grass has a very low probability to occur within the BSA. As such, this species is not expected to occur and no avoidance

4.5. Special Status Wildlife Species Occurrences

Special status wildlife are species that are listed or proposed to be listed as threatened or endangered by the USFWS (2005) and CDFG (2006d); or are considered federal species of concern, protected species, fully protected species, or species of special concern by the CDFG (2006e). Species that are federally or state listed are afforded a degree of protection that entails a permitting process, requiring the implementation of mitigation measures to compensate for impacts to the species. Species that are proposed to be listed by the USFWS are treated similarly to species listed by that

agency; recommendations of the USFWS, however, are advisory rather than mandatory in the case of proposed species.

Additionally, the federal Migratory Bird Treaty Act (MBTA) provides legal protection for almost all breeding bird species occurring in the United States and, therefore, affords protection to the bird species nesting within the study area. The MBTA restricts the killing, taking, collecting, and selling or purchasing of native bird species or their parts, nests, or eggs. Certain game bird species can be hunted for specific periods determined by federal and state governments. The intent of the MBTA is to eliminate any commercial market for migratory birds, feathers, or bird parts, especially for eagles and other birds of prey. The proposed project is in compliance with the MBTA because the project would not facilitate the commercial market for any bird species.

Of the 55 sensitive wildlife species known to occur within the region, 8 sensitive wildlife species are known to occur in the BSA surrounding the proposed Golden Valley Road Bridge Project, including the southern mule deer, which is regulated by the state as a harvest species and is discussed in greater detail below. Five sensitive wildlife species were detected by EDAW within the BSA during the spring 2006 surveys: the western spadefoot toad (*Spea hammondii*), Cooper's hawk (*Accipiter cooperii*), white-tailed kite (*Elanus leucurus*), yellow-breasted chat (*Icteria virens*), and southern California rufous-crowned sparrow. Three sensitive wildlife species were detected by EDAW within the BSA during the spring 2003 surveys: the coastal western whiptail, yellow warbler (*Dendroica petechia brewsteri*), and the southern California rufous-crowned sparrow. In the Riverpark EIR (Impact Sciences 2004), eight other species were detected just west of the BSA: the sharp-shinned hawk (*Accipiter striatus*), western yellow-billed cuckoo (*Coccyzus americanus occidentalis*), loggerhead shrike (*Lanius ludovicianus*), summer tanager (*Piranga rubra*), Bell's sage sparrow (*Amphispiza belli belli*), tricolored blackbird (*Agelaius tricolor*), San Diego black-tailed jackrabbit (*Lepus californicus bennettii*), and San Diego woodrat (*Neotoma lepida intermedia*).

The southern mule deer was observed by EDAW within the BSA. The southern mule deer is discussed in this NESR because the presence or absence of the species in open space areas can be used as an indicator of how a project site functions as a local or regional wildlife movement corridor. The following discussion of sensitive species and potential impacts is based on field survey information, data obtained from the USFWS and CDFG, and existing environmental documentation for projects within

the region. All avoidance and mitigation measures described below for each species are based on the NRMP EIS/EIR (Corps 1998a) and ROD (Corps 1998b) to minimize all impacts to sensitive biological resources within the BSA. The MMRP from the ROD (Corps 1998b) is presented as Appendix D and includes the referenced avoidance and mitigation measures approved by the Corps and CDFG.

4.5.1. Discussion of Riverside Fairy Shrimp

The Riverside fairy shrimp (*Streptocephalus woottoni*) is a federally listed endangered species (USFWS 2005). It is restricted to deep vernal pools with long periods of inundation. This species is currently known from only five general locations within its range, including Temecula and Rancho California in Riverside County, Marine Corps Base Camp Pendleton, Marine Corps Air Station Miramar, Otay Mesa, and the city of Carlsbad. The species is not expected to occur within the BSA because of a lack of appropriate vernal pool habitat; therefore, no impacts would occur to the Riverside fairy shrimp. As such, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.5.2. Discussion of Arroyo Chub

The arroyo chub (*Gila orcutti*) is considered a state species of special concern (CDFG 2006e). It is found in slowly moving sections of permanent, small to moderate-sized streams with moderate to high gradients where more than half of the habitat consists of shallow runs and pools and also contains reaches of permanent water more than 2.41 km (1.50 mi) long. It feeds on aquatic vegetation and associated invertebrates. This species is native to many of southern California's coastal drainages, including the Santa Clara River. According to the CNDDB (CDFG 2006a), the arroyo chub was last reported from the Santa Clara River in 1998, approximately 4.82 km (3.00 mi) upstream from the Las Brisas Bridge. However, because normally no permanent stream flow is present onsite, this species is not expected to occur within the BSA. As such, no impacts to this species are expected; and therefore, no avoidance, minimization, or compensatory mitigation measures are required.

4.5.3. Discussion of Santa Ana Sucker

The Santa Ana sucker (*Catostomus santaanae*) is a federally listed threatened species (USFWS 2005) and a state species of special concern (CDFG 2006e). It is typically found in pools and small to medium-sized shallow streams with cool, clear water that flood periodically. This species is often associated with sand, rubble, and boulder

substrates but can also occur on sandy or muddy bottoms. The Santa Ana sucker is endemic to the Los Angeles basin south coastal streams, including the Santa Clara River. This species was last reported in the Santa Clara River in 1998, from San Francisquito Canyon to the vicinity of Santa Paula (CDFG 2006a). Within the BSA, a few small water impoundments do occur on the east side of the site; however, these waters contain high levels of urban runoff and contaminants and are not suitable habitat for the Santa Ana sucker. Due to the levels of contaminated pools onsite, the Santa Ana sucker is not expected to occur in the BSA. As such, no impacts to this species are expected; and therefore, no avoidance, minimization, or compensatory mitigation measures are required.

4.5.4. Discussion of Unarmored Threespine Stickleback

The unarmored threespine stickleback (*Gasterosteus aculeatus williamsoni*) is a federally listed endangered species (USFWS 2005) and a fully protected, state listed endangered species (CDFG 2006d). It inhabits cool, clear, slow-flowing streams with a sandy or muddy substrate and abundant aquatic vegetation. This species also occurs in deeper, weedy pools with slow currents. Historically, it was found throughout southern California in small streams; however, it is currently known from only a few drainages. Recent historical data show that the unarmored threespine stickleback has been reported from several locations along the Santa Clara River, including a small tributary in San Francisquito Canyon, which is part of the upper Santa Clara River drainage, and further downstream, in the Soledad Canyon and Del Valle area. However, the small water impoundments found on the east side of the BSA contain high levels of urban runoff and contaminants and are not suitable habitat for the unarmored threespine stickleback. In addition, the portion of the Santa Clara River that runs through the BSA currently contains no water. Due to these conditions, impacts are not expected to occur to the unarmored threespine stickleback. As such, no impacts to this species are expected; and therefore, no avoidance, minimization, or compensatory mitigation measures are required.

4.5.5. Discussion of Western Spadefoot Toad

The western spadefoot toad is considered a state species of special concern (CDFG 2006e). It prefers sandy or gravelly soil in grasslands, open chaparral, and pine-oak woodlands. This toad breeds during the winter months, from January to May, in the waters of quiet streams, ephemeral ponds, and vernal pools. It aestivates during the drier months in burrows in upland habitats adjacent to these pools. The species

ranges west of the coastal ranges, from Point Conception to northern Baja California, Mexico, and in the Central Valley of California.

4.5.5.1. Survey Results

One western spadefoot adult toad was heard and hundreds of tadpoles were observed during focused arroyo toad surveys conducted by EDAW within the BSA in 2006. One male was heard calling on May 4, 2006 and tadpoles were observed during the following survey, May 17, 2006. Observations were made within the central portion of the BSA within drainages (a combination of concrete and earthen-lined channels) fed by runoff from an adjacent industrial complex to the east of the proposed project. Surveys conducted by Impact Sciences in 2003 detected one individual within the BSA as well (Impact Sciences pers. comm. 2004).

4.5.5.2. Avoidance and Minimization Efforts

Within the BSA, potential impacts to suitable western spadefoot toad habitat would be minimized or avoided to the greatest extent feasible through project design. Avoidance measure BIO-2 (a-d) depicted in the MMRP, Sensitive Aquatic Species Avoidance, would be implemented to minimize impacts to this species during construction. These measures include preconstruction surveys in all construction areas, including riverbed areas within 300 ft of the construction site, presence of a biological monitor, stream flow diversions around the construction site, and no wetland vegetation removal to the greatest extent possible.

4.5.5.3. Project Impacts

The proposed project would impact 1.75 ha (4.31 ac) of habitat suitable for the western spadefoot toad.

4.5.5.4. Compensatory Mitigation

Mitigation would be required for this species in the form of habitat-based mitigation through Mitigation Measures BIO-4 (a-c) and BIO-5 (a-o) in the MMRP. These measures include habitat restoration, creation, and/or exotic habitat removal.

4.5.5.5. Cumulative Impacts

Implementation of the proposed project, as well as other projects in the region, would result in development and incremental loss of habitats suitable for the western spadefoot toad. Incremental loss of habitat adds to the long-term trend of increased disturbance and development of habitats suitable for the species. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.6. Discussion of Arroyo Toad

The arroyo toad (*Bufo californicus*) is a federally listed endangered species (USFWS 2005) and state species of special concern (CDFG 2006e). The species occurs along rivers and streams that sustain a flow sufficient to allow the development of tadpoles. Eggs and larvae develop best in the waters of slow-moving, quiet streams with sandy or gravelly banks. The arroyo toad aestivates during the drier months in burrows in upland habitats up to 914 m (3,000 ft) from these pools. The species is distributed along rivers and large creeks on the coastal slope from San Luis Obispo County south to northwestern Baja California, Mexico.

The USFWS survey protocol for the species can only be applied in areas that support slow-moving streams during the breeding season of the species. The portion of the Santa Clara River within the BSA lacked natural surface flow through the river at the time of the surveys. The only standing water within the BSA occurs within the drainage (a combination of concrete and earthen-lined channel) on the east end of the site fed by runoff from an adjacent industrial complex. Following approximately 3 days of precipitation from a heavy winter storm from November 8 through 11, 2002, a site visit was conducted to assess the surface hydrology of the river. No surface flows were noted for areas within and adjacent to the BSA, which would be required in order to conduct a focused breeding survey for the species, pursuant to the current USFWS protocol (USFWS 1999). The floral composition of this portion of the Santa Clara River, including stands of drought-tolerant cholla (*Opuntia* sp.) scattered within the channel, indicates arid conditions for extended periods of time along this portion of the drainage. Since the BSA did not support hydrological conditions required for this species' breeding habitat in 2002, it was determined that focused surveys would not be conducted. However, the proximity of the species detected in areas within the region in 2002 triggered the need for focused surveys in subsequent years (i.e., in 2003 and 2006) when conditions were appropriate.

The closest known population of arroyo toad is located approximately 11.27 km (7.00 mi) upstream of the BSA in the vicinity of Bee Canyon, at the Cemex gravel mine site. Recent data suggest that arroyo toads are able to migrate into suitable upland habitats up to 2.00 km (1.24 mi) from active breeding pools (USFWS 2001). Due to the relatively extreme distance of the BSA from the known breeding location, this species is not expected to be able to migrate onto the survey area.

No arroyo toad life stages were detected during the 2003 or 2006 survey periods which covered 20.4 ha (51.1 ac) of the BSA (Figure 8). Because the arroyo toad is

expected to be absent from the BSA, no impacts are expected to occur to this species. Preconstruction surveys are recommended to conclude the absence of this species from the BSA. Accordingly, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.5.7. Discussion of California Red-legged Frog

The California red-legged frog (*Rana aurora draytonii*) is a federally listed threatened species (USFWS 2005) and a state species of special concern (CDFG 2006e). It is often found in lowlands, damp woods, and meadows near quiet, permanent waters of marshes and streams that are bordered by dense, shrubby, or emergent riparian vegetation. Occasionally, this species also inhabits ephemeral pools where the water remains until late spring or early summer. The California red-legged frog aestivates during cold temperatures and hot, dry weather in small mammal burrows, leaf litter, or other moist areas within a few hundred feet of riparian areas. This species ranges from northwestern California south to northwestern Baja California, Mexico; a few have been reported from Los Angeles County. Because suitable habitat is not present onsite, this species is expected to be absent from the BSA; therefore, no impacts are expected to occur to this species. As such, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.5.8. Discussion of Mountain Yellow-legged Frog

The mountain yellow-legged frog (*Rana muscosa*) is a federally listed endangered species (USFWS 2005) and a state species of special concern (CDFG 2006e). At higher elevations, it is found along sunny riverbanks, meadow streams, isolated pools, and lake borders. In the lower elevations of southern California, it is found along stream courses with rocky, sloping banks and vegetation at the water's edge. This species is rarely encountered away from water; however, it may cross upland areas while migrating between summer and winter habitats. The mountain yellow-legged frog is expected to be absent from the BSA due to the lack of suitable habitat in or near the BSA; therefore, no impacts are expected to occur to this species. As such, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.5.9. Discussion of Southwestern Pond Turtle

The southwestern pond turtle (*Clemmys marmorata pallida*) is considered a state species of special concern (CDFG 2006e). It inhabits permanent or nearly permanent bodies of water and requires basking sites such as partially submerged logs, vegetation mats, or open mud banks. This subspecies ranges from southern California to northern Baja California, Mexico. The southwestern pond turtle is not expected to occur within the BSA because suitable habitat (i.e., large bodies of permanent water) is absent from the site; thus, no impacts are expected to occur to this species. Preconstruction surveys are recommended to conclude the absence of this species from the BSA. As such, if this species is not detected during the preconstruction surveys, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.5.10. Discussion of California Horned Lizard

The California horned lizard (*Phrynosoma coronatum frontale*) is considered a state species of special concern (CDFG 2006e). It is found in several habitat types, including areas with exposed gravely or sandy substrates with scattered shrubs, clearings in riparian woodlands, dry chamise chaparral, and annual grassland with scattered perennials. This species is endemic to California and ranges from northern California near Lake Shasta, Shasta County, southward along the edges of the Sacramento and San Joaquin valleys and the Sierra Nevada foothills and South Coast ranges into northern Los Angeles, Santa Barbara, and Ventura counties, from sea level to approximately 1,980 m (6,500 ft).

4.5.10.1. Survey Results

No California horned lizards or sign were detected during the general wildlife surveys conducted by EDAW within the BSA during the 2002, 2003, or 2006 field surveys. Historical location data and suitable habitat within the survey area indicate a moderate potential for this species to occur in low numbers within the BSA.

4.5.10.2. Avoidance and Minimization Efforts

Within the BSA, impacts to suitable California horned lizard habitat would be minimized or avoided to the greatest extent feasible through project design. Avoidance measure BIO-18 specifically states efforts to minimize impacts to this species, including preconstruction surveys to conclude the absence of this species from the BSA before construction activities are approved. If animals are detected during construction they should be removed to an area nearby with suitable habitat.

4.5.10.3. Project Impacts

The proposed project would impact 0.06 ha (0.15 ac) of habitat suitable for the California horned lizard.

4.5.10.4. Compensatory Mitigation

Preconstruction surveys will be conducted to conclude the presence/absence of this species, and to capture and relocate any detected individuals within the AE per mitigation measure BIO-18. If detected, compensatory mitigation is expected to be required. Mitigation requirements outlined in the MMRP, such as measure BIO-24, state that habitat for this species would be mitigated at a ratio of 1:1.

4.5.10.5. Cumulative Impacts

Implementation of the proposed project, as well as other projects in the region, would result in development and incremental loss of habitats suitable for the California horned lizard. Incremental loss of habitat adds to the long-term trend of increased disturbance and development of habitats suitable for the species. However, through the implementation of the mitigation measures outlined in the MMRP, riparian and upland habitat for the California horned lizard would be restored post-construction.

4.5.11. Discussion of San Diego Horned Lizard

The San Diego horned lizard (*Phyrnosoma coronatum blainvillei*) is considered a state species of special concern (CDFG 2006e). It prefers friable, rocky, or shallow sandy soils in coastal sage scrub and chaparral in arid and semiarid climates where there are open areas for sunning and bushes for cover, from sea level to elevations of over 2,438 m (8,000 ft). This lizard is primarily active in late spring and early summer (April to July), and harvester ants – the primary food item of the horned lizard – indicate potential for occurrence of the lizard in an area. This subspecies is endemic to extreme southwestern California, from Los Angeles County into Baja California, Mexico.

4.5.11.1. Survey Results

No San Diego horned lizards or sign were observed during EDAW wildlife surveys conducted for the project between May 22 and June 28, 2002, and the April through July 1, 2006, surveys. However, the presence of limited suitable habitat within the survey area and the known historical location data within the region indicate that there is a moderate potential for this species to occur in low numbers within the BSA.

4.5.11.2. Avoidance and Minimization Efforts

Avoidance and minimization measures in for the San Diego horned lizard would include biological monitoring during all phases of construction activity, relocation of any San Diego horned lizards found within the construction area, and project timing restrictions (see BIO-2 [a-d]). Monitoring should include morning surveys under equipment and materials before work begins. If animals are found they should be removed from the impact area to an area of suitable habitat. Impacts associated with the proposed project or any of the project alternatives would be minimized or avoided through design modifications. Preconstruction surveys are recommended to conclude the absence of this species from the BSA. Additional avoidance and minimization measures may be determined through consultation with the CDFG.

4.5.11.3. Project Impacts

The proposed project would impact approximately 0.06 ha (0.15 ac) of habitat suitable for the San Diego horned lizard.

4.5.11.4. Compensatory Mitigation

If preconstruction surveys rectify the presence of this species within the AE, compensatory mitigation is expected to be required. Measures BIO-4 (a-c) and BIO-5 (a-o) listed in the MMRP shall be implemented for impacts to the San Diego horned lizard if it is present before or during project implementation.

4.5.11.5. Cumulative Impacts

Implementation of proposed projects within the region would contribute to cumulative impacts to the San Diego horned lizard. Incremental loss of habitat adds to the long-term trend of increased disturbance and development of habitats suitable for the species. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.12. Discussion of Silvery Legless Lizard

The silvery legless lizard (*Anniella pulchra pulchra*) is considered a state species of special concern (CDFG 2006e). It occurs near beaches, chaparral, and pine-oak woodland, and near sycamores, cottonwoods, and oaks that grow on stream terraces, from sea level to 1,951 m (6,400 ft). This species prefers sandy or loose loamy soils with high moisture content. The range of the silvery legless lizard extends west of the Sierra Nevada from San Francisco to Baja California Norte, Mexico. It is also

known from Los Coronados and Todos Santos Islands of the coast of Baja California, Mexico.

4.5.12.1. Survey Results

No silvery legless lizards or sign were detected during the general wildlife surveys conducted within the BSA during the 2002, 2003, or 2006 surveys. However, limited suitable habitat is present within the survey area, indicating that there is a moderate potential for this species to occur in low numbers within the BSA.

4.5.12.2. Avoidance and Minimization Efforts

Within the BSA, impacts to suitable silvery legless lizard habitat would be minimized or avoided to the greatest extent feasible through project design. Preconstruction surveys are recommended to conclude the absence of this species from the BSA. It is most likely that this species would be detected during excavation for bridge supports; therefore, surveys could be focused during that aspect of the project. If present, avoidance measure BIO-2 (a-d) in the MMRP would be implemented to minimize potential impacts to the silvery legless lizard and its habitat.

4.5.12.3. Project Impacts

Implementation of the proposed project would result in impacts to approximately 0.06 ha (0.15 ac) of suitable silvery legless lizard habitat.

4.5.12.4. Compensatory Mitigation

If preconstruction surveys conclude the presence of this species within the AE, compensatory mitigation would be required. Mitigation requirements such as BIO-4 (a-c) and BIO-5 (a-o) in the MMRP include restoration or creation of suitable habitat for this species, biological monitoring, and/or exotic habitat removal.

4.5.12.5. Cumulative Impacts

Implementation of the proposed project, along with other projects in the region, would result in development and incremental loss of habitats suitable for the silvery legless lizard. Given the relatively small amount of impact and the marginal nature of the habitat for this species within the region along the edges of previously developed or disturbed areas, the impact is considered to be minor.

4.5.13. Discussion of Coastal Western Whiptail

The coastal western whiptail is a state special animal (CDFG 2006e). It is found in several semiarid to arid climates and various habitat types that have openings or clearings for movement. Typical habitats include riparian woodlands, open

chaparral, and annual grasslands with scattered perennials. This species is endemic to California and ranges throughout the state (except in the northwest) from sea level to approximately 2,290 m (7,500 ft).

4.5.13.1. Survey Results

Approximately three individuals of coastal western whiptail were detected within the BSA during the general wildlife surveys conducted by EDAW during 2002/2003 field surveys (Figure 8). No individuals were detected within the AE. No individuals were observed during the 2006 surveys of the Golden Valley Road Bridge Project site.

4.5.13.2. Avoidance and Minimization Efforts

Within the BSA, impacts to suitable coastal western whiptail habitat would be minimized or avoided to the greatest extent feasible through project design. Preconstruction surveys are recommended to conclude the locations of this species within the BSA and avoid direct impacts. Avoidance measure BIO-18 in the MMRP would be implemented in the project design to minimize potential impacts to this species. These measures include biological monitoring, preconstruction surveys, and species relocation plan.

4.5.13.3. Project Impacts

The proposed project would impact 0.97 ha (2.39 ac) of habitat suitable for the coastal western whiptail.

4.5.13.4. Compensatory Mitigation

Compensatory mitigation is expected to be required for direct and indirect impacts to the coastal western whiptail within the AE. Where impacts are unavoidable, habitat creation, restoration, or enhancement may be required. Mitigation efforts such as BIO-4 (a-c), BIO-5 (a-o), and BIO-24 in the MMRP include restoration/creation of suitable habitat for this species, biological monitoring plan, and/or exotic habitat removal.

4.5.13.5. Cumulative Impacts

Implementation of the proposed project, as well as other projects in the region, would result in development and incremental loss of habitats suitable for the coastal western whiptail. Incremental loss of habitat adds to the long-term trend of increased disturbance and development of habitats suitable for the species. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.14. Discussion of Coast Patch-nosed Snake

The coast patch-nosed snake (*Salvadora hexalepis virgultea*) is considered a state species of special concern (CDFG 2006e). It inhabits areas with a sparse, low shrub structure where mammal burrows or woodrat nests are available to be used as overwintering sites. This species ranges from San Luis Obispo, California, south into Baja California, Mexico, from sea level to 2,130 m (7,000 ft).

4.5.14.1. Survey Results

No coast patch-nosed snakes or sign were observed during the general wildlife surveys conducted for the project during the 2002, 2003, or 2006 field surveys. Historical location data for the region and limited habitat availability (e.g., few mammal burrows and woodrat nests) within the survey area indicate a low potential for this species to occur within the BSA.

4.5.14.2. Avoidance and Minimization Efforts

Project design modifications would minimize or avoid impacts to suitable coast patch-nosed snake habitat. Preconstruction surveys are recommended to conclude the absence of this species from the BSA, as well as daily morning checks under equipment and materials around the construction site. If present, avoidance measure BIO-2 (a-d) in the MMRP would be implemented to minimize potential impacts to the coast patch-nosed snake and its habitat.

4.5.14.3. Project Impacts

Implementation of the proposed project would impact approximately 0.06 ha (0.15 ac) of sage scrub habitats suitable to support the coast patched-nosed snake.

4.5.14.4. Compensatory Mitigation

If preconstruction surveys conclude the presence of this species within the AE, compensatory mitigation would be required. Mitigation efforts such as BIO-4 (a-c) and BIO-5 (a-o) in the MMRP include restoration/creation of suitable habitat for this species, biological monitoring plan, and/or exotic habitat removal.

4.5.14.5. Cumulative Impacts

The proposed project, as well as other projects within the region, would contribute cumulative impacts to the coast patch-nosed snake. Together with the proposed project, these projects would result in the incremental loss of suitable habitats for the species through direct habitat conversion and degradation. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.15. Discussion of San Diego Mountain Kingsnake

The San Diego mountain kingsnake (*Lampropeltis zonata puchra*) is considered a state species of special concern (CDFG 2006e). It inhabits interior mountain ranges and coastal ranges. Along the coastal ranges, this species is found in riparian woodlands in rocky canyon bottoms below the edge of mixed oak-coniferous forest where western sycamore, Fremont's cottonwood, coast live oak, willows, wild rose, and blackberries occur. It can also be found in narrow riparian woodlands in association with coastal sage scrub and chaparral vegetation communities. The San Diego mountain kingsnake is endemic to California from the Santa Monica Mountains, Los Angeles County, south along the coastal ranges to the Laguna Mountains, San Diego County, at elevations from sea level to 1,800 m (6,000 ft).

4.5.15.1. Survey Results

No San Diego mountain kingsnakes or sign were observed during the general wildlife surveys conducted for the project during the 2002, 2003, or 2006 field surveys. Historical location data for the region and limited habitat availability (e.g., lack of rocky canyon bottoms and riparian woodlands) within the survey area indicate a low potential for this species to occur within the BSA.

4.5.15.2. Avoidance and Minimization Efforts

Project design modifications would minimize or avoid impacts to suitable San Diego mountain kingsnake habitat. Preconstruction surveys are recommended to conclude the absence of this species, as well as daily morning checks under equipment and materials around the construction site. If present, avoidance measure BIO-2 (a-d) in the MMRP would be implemented to minimize potential impacts to the San Diego mountain kingsnake and its habitat.

4.5.15.3. Project Impacts

With the implementation of this proposed project, a total of 0.06 ha (0.15 ac) of potential San Diego mountain kingsnake habitat would be impacted.

4.5.15.4. Compensatory Mitigation

If preconstruction surveys conclude the presence of this species within the AE, compensatory mitigation would be required. Mitigation efforts such as BIO-4 (a-c) and BIO-5 (a-o) in the MMRP include restoration/creation of suitable habitat for this species, biological monitoring plan, and/or exotic habitat removal.

4.5.15.5. Cumulative Impacts

The proposed project, along with other projects within the region, would contribute to the development and incremental loss of habitats suitable for the San Diego mountain kingsnake. Within the region, marginal habitat for this species occurs along the edges of previously developed or disturbed areas; thus, the impact is considered to be minor. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.16. Discussion of Two-striped Garter Snake

The two-striped garter snake (*Thamnophis hammondii*) is considered a state species of special concern (CDFG 2006e). This highly aquatic species occurs in or near permanent fresh water, usually along streams with rocky beds bordered by willows and other riparian vegetation. This species ranges along coastal California from Monterey County south to northwestern Baja California, Mexico, at elevations below 2,286 m (7,500 ft). Several isolated populations also occur in Baja California Sur, Mexico. The two-striped garter snake is not expected to occur within the BSA because no permanent bodies of fresh water occur onsite. Although ponded water occurs within the BSA, this aquatic habitat is sustained through runoff containing observable amounts of urban contaminants. As such, no impacts are expected to occur to this species. However, preconstruction surveys are recommended to conclude the absence of this species within the BSA. If preconstruction surveys conclude the presence of this species, compensatory mitigation will be required. Mitigation efforts such as BIO-4 (a-c) and BIO-5 (a-o) of the MMRP include restoration/creation of suitable habitat for this species, biological monitoring plan, and/or exotic habitat removal.

4.5.17. Discussion of Least Bittern

The least bittern (*Ixobrychius exilis*) is considered a state species of special concern (CDFG 2006e). It inhabits freshwater and brackish water marshes, usually near open water sources, and desert riparian habitats. Most of the California population winters in Mexico and migrates in the spring and the summer to scattered locations in the western United States, including the Colorado River, Salton Sea, and coastal lowlands of southern California where some populations are resident. Because suitable habitat is not present onsite, the least bittern is not expected to occur within the BSA; thus, no impacts are expected to occur to this species. Accordingly, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.5.18. Discussion of California Condor

The California condor (*Gymnogyps californianus*) is a federally listed endangered species (USFWS 2005) and a fully protected, state listed endangered species (CDFG 2006d). It inhabits rocky and brushy areas in mountainous country at low to moderate elevations with grasslands, oak savannah, mountain plateaus, and canyons nearby for foraging. This species roosts in snags or tall trees near these foraging grounds and nests on the floor of cliff cavities or caves, along steep slopes, among boulders, or occasionally in cavities in the giant sequoias. Although historically widespread through North America, in the mid-1900s the California condor became restricted to southern California. In 1987, the remaining wild California condors were captured to begin a captive breeding program for the species. Reintroduction of captive-hatched condors into southern California began in mid-January 1992 and continues today. Very few exist in the wild today. Based on the rarity of this species and the lack of suitable habitat present onsite, the California condor is not expected to occur within the BSA. As such, no impacts are expected to occur and no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.5.19. Discussion of Osprey

The osprey (*Pandion haliaetus*) is considered a state species of special concern (CDFG 2006e). It forages in coastal estuaries, large lakes, and reservoirs that support forage fish populations and nests near these habitats in large, dead-topped trees, snags, cliffs, and man-made structures that can support their nesting platform. This species is widely distributed in North America. The osprey is not expected to occur within the BSA because suitable foraging habitat is not available onsite. Accordingly, no impacts are expected to occur and no avoidance, minimization, or compensatory mitigation measures are expected to occur to this species.

4.5.20. Discussion of White-tailed Kite

The white-tailed kite is a state fully protected species (CDFG 2006e). It inhabits riparian or oak woodland adjacent to grassland or open fields where it hunts rodents. This species occurs in North, Central, and South America; Australia; southern Eurasia; and Africa. In North America, the white-tailed kite is distributed along the Pacific Coast from Washington south to Baja California, Mexico, with a small population in southeast Arizona, and along the Gulf Coast from Florida south into Mexico. In California, kites are found along the coast and in the Central Valley.

4.5.20.1. Survey Results

One individual white-tailed kite was detected during July 2006 by EDAW, but there was no evidence of nesting. Survey results in 2003 by Impact Sciences (2004) also detected this species within the BSA and in 1999 at least one individual white-tailed kite was detected nesting just west of the BSA (Guthrie 1999).

4.5.20.2. Avoidance and Minimization Efforts

The white-tailed kite occurs in the BSA and has a moderate potential to breed within the BSA based on survey results from Dan Guthrie's report in 1999. Direct and indirect impacts to all winter perches and suitable foraging habitat within the survey area would be minimized or avoided through project design. Additional measures, specifically BIO-3 (a-c) and BIO-22, including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to white-tailed kite nesting and foraging habitat.

4.5.20.3. Project Impacts

The proposed project would result in impacts to 0.97 ha (2.39 ac) of suitable nesting and foraging habitat for the white-tailed kite.

4.5.20.4. Compensatory Mitigation

Habitat-based mitigation is expected to be required for this species. Any impacts to nesting and foraging habitat would be mitigated at a ratio of 1:1 for upland habitats and ratios ranging from 1:1 to 3:1 for riparian habitats depending on the timing of mitigation (see BIO-5 [a] and BIO-24).

4.5.20.5. Cumulative Impacts

Implementation of the proposed project, as well as other projects within the region, would contribute cumulative impacts to the white-tailed kite. Together with the proposed project, these projects would result in the incremental loss of suitable habitat for the species through direct habitat conversion and degradation. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.21. Discussion of Northern Harrier

The northern harrier (*Circus cyaneus*) is considered a state species of special concern (CDFG 2006e). It prefers to breed and forage in marshes, grasslands, agricultural fields, and open coastal sage scrub. This species is distributed throughout North America, Central America, and Eurasia. Within North America, San Diego County is the southwestern limit of the northern harrier's breeding locations.

4.5.21.1. Survey Results

No northern harriers were observed during the general wildlife surveys conducted within the BSA during the 2002, 2003, or 2006 field surveys. Historical location data and the presence of suitable habitat indicate that there is a moderate potential for this species to occur within the survey area during the winter.

4.5.21.2. Avoidance and Minimization Efforts

Although the northern harrier is not expected to breed within the BSA, impacts to all suitable foraging habitat and winter perches within the survey area would be minimized or avoided through project design.

4.5.21.3. Project Impacts

Within the AE, the proposed project would result in impacts to 0.07 ha (0.17 ac) of breeding and foraging habitat suitable for the northern harrier.

4.5.21.4. Compensatory Mitigation

Because the northern harrier was not detected within the BSA during general wildlife surveys conducted for the project and because suitable habitat within the BSA is limited, the population number for this species, if it occurs within the BSA, is expected to be extremely low. Any impacts to this species would be relatively minor in relation to its distribution and its habitat; therefore, no compensatory mitigation is expected to be required.

4.5.21.5. Cumulative Impacts

Implementation of proposed projects within the region would contribute to cumulative impacts to the northern harrier. Incremental loss of habitat adds to the long-term trend of increased disturbance and development of habitats suitable for the species.

4.5.22. Discussion of Sharp-shinned Hawk

The sharp-shinned hawk is considered a state species of special concern (CDFG 2006e). It is a woodland hawk that requires a certain amount of dense cover, but this can be localized and scattered through relatively open country. This species is distributed throughout North, Central, and South America. In California, it is a fairly common migrant and winter resident, although its breeding distribution is poorly documented. Sharp-shinned hawk populations have experienced a steady decline due to increased urbanization and habitat destruction.

4.5.22.1. Survey Results

No sharp-shinned hawks were observed during the 2006 surveys conducted by EDAW. However, one individual was detected just west of the BSA during general wildlife surveys conducted by Impact Sciences (2004) during 2003.

4.5.22.2. Avoidance and Minimization Efforts

Direct and indirect impacts to all winter perches and suitable foraging habitat within the survey area would be minimized or avoided through project design. Additional measures, specifically BIO-3 (a-c) and BIO-22, including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to sharp-shinned hawk habitat.

4.5.22.3. Project Impacts

Implementation of this project would result in impacts to 0.97 ha (2.39 ac) of suitable perching and foraging habitat for the sharp-shinned hawk.

4.5.22.4. Compensatory Mitigation

Habitat-based mitigation is expected to be required for this species. Any impacts to nesting and foraging habitat would be mitigated at a ratio of 1:1 for upland habitats and ratios ranging from 1:1 to 3:1 for riparian habitats depending on the timing of mitigation (see BIO-5 [a] and BIO-24).

4.5.22.5. Cumulative Impacts

Implementation of the proposed project, along with other projects in the region, would result in development and incremental loss of habitats suitable for the sharp-shinned hawk. Given the relatively small amount of impact and the marginal nature of the habitat for this species within the region along the edges of previously developed or disturbed areas, the impact is considered minor.

4.5.23. Discussion of Cooper's Hawk

The Cooper's hawk is considered a state species of special concern (CDFG 2006e). It prefers to breed in dense stands of oak or riparian woodland and, on a limited basis, suburban exotic woodlands. This species ranges throughout much of the United States, from southern Canada to northern Mexico.

4.5.23.1. Survey Results

One Cooper's hawk was observed within the BSA during the 2006 EDAW surveys. Additionally, surveys conducted by Impact Sciences (2004) detected 8 Cooper's hawks just west of the BSA during 2003.

4.5.23.2. Avoidance and Minimization Efforts

Direct and indirect impacts to all winter perches and suitable foraging habitat within the BSA would be minimized or avoided through project design. Additional measures, specifically BIO-3 (a-c) and BIO-22, including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to Cooper's hawk habitat.

4.5.23.3. Project Impacts

The proposed project would result in impacts to 0.97 ha (2.39 ac) of suitable perching and foraging habitat for this species.

4.5.23.4. Compensatory Mitigation

Habitat-based mitigation is expected to be required for this species. Any impacts to nesting and foraging habitat would be mitigated at a ratio of 1:1 for upland habitats and ratios ranging from 1:1 to 3:1 for riparian habitats depending on the timing of mitigation (see BIO-5 [a] and BIO-24).

4.5.23.5. Cumulative Impacts

Implementation of proposed projects within the region would contribute to cumulative impacts to the Cooper's hawk. Incremental loss of habitat adds to the long-term trend of increased disturbance and development of habitats suitable for the species. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.24. Discussion of Swainson's Hawk

Swainson's hawk (*Buteo swainsoni*) is a state listed threatened species (CDFG 2006d). It is found in savannah, open pine-oak woodland, and cultivated lands with scattered trees. During migration and winter, this species also uses grasslands and other open country. It nests in a bush, solitary tree, or small grove, frequently on old black-billed magpie nests. The Swainson's hawk breeds in western North America, from east-central Alaska, through western Canada and northern United States, south to the southwestern United States, and into northwestern Mexico. This species winters in Central and South America.

4.5.24.1. Survey Results

No Swainson's hawks were observed during the general wildlife surveys conducted for the project during the 2002, 2003, or 2006 field surveys. Historical location data for the region and limited habitat availability (e.g., lack of savannah, woodlands, and

cultivated lands) within the survey area indicate a low potential for this species to occur within the BSA.

4.5.24.2. Avoidance and Minimization Efforts

Although the Swainson's hawk is not expected to breed within the BSA, impacts to all suitable foraging habitat and winter perches within the survey area would be minimized or avoided through project design. Additional measures, specifically BIO-3 (a-c) and BIO-22, including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to Swainson's hawk habitat.

4.5.24.3. Project Impacts

Implementation of the proposed project would result in impacts to 0.91 ha (2.24 ac) of suitable Swainson's hawk foraging habitat.

4.5.24.5. Compensatory Mitigation

Because the Swainson's hawk was not detected within the BSA during general wildlife surveys conducted for the project and because suitable habitat within the BSA is limited, the population number for this species, if it occurs within the BSA, is expected to be extremely low. However, preconstruction surveys shall be conducted as an avoidance measure to minimize potential impacts to this species. Should this species be present, mitigation measures in the MMRP (BIO-3 [a-c] and BIO-24) shall be implemented.

4.5.24.5. Cumulative Impacts

The proposed project, along with other projects within the region, would contribute to the development and incremental loss of habitats suitable for the Swainson's hawk. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.25. Discussion of Ferruginous Hawk

The ferruginous hawk (*Buteo regalis*) is a state species of special concern (CDFG 2006e). It inhabits sagebrush; saltbush-greasewood scrubland; edges of pinyon-juniper and other woodland; desert; and open country such as prairies, plains, and badlands. This species nests in tall trees or willows along streams or on steep slopes, river-cut banks, power line towers, cliff ledges, hillsides, and occasionally on sloped ground or on mounds in open desert. The ferruginous hawk breeds throughout

western North America and winters primarily in the southwestern and south-central United States south into Baja California and central mainland Mexico.

4.5.25.1. Survey Results

No ferruginous hawks were detected during the various general wildlife surveys conducted within the BSA during the 2002, 2003, or 2006 surveys. Because suitable foraging and nesting habitat within the BSA is limited, there is a low potential for this species to occur within the survey area.

4.5.25.2. Avoidance and Minimization Efforts

The ferruginous hawk is not expected to breed within the BSA. However, impacts to all winter perches and suitable foraging habitat within the survey area would be minimized or avoided through project design. Additional measures, specifically BIO-3 (a-c) and BIO-22, including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to any ferruginous hawk habitat.

4.5.25.3. Project Impacts

Within the AE, implementation of the proposed project would result in impacts to 0.91 ha (2.24 ac) of suitable perching and foraging habitat for this species.

4.5.25.4. Compensatory Mitigation

Limited suitable habitat availability and lack of evidence of occupation during general wildlife surveys conducted for the project suggest that, should the ferruginous hawk occur within the BSA, the population size of this species would be very low. However, preconstruction surveys shall be conducted as an avoidance measure to minimize potential impacts to this species. Should this species be present, mitigation measures in the MMRP (BIO-3 [a-c] and BIO-24) shall be implemented.

4.5.25.5. Cumulative Impacts

The proposed project, as well as other projects within the region, would contribute cumulative impacts to the ferruginous hawk. Together with the proposed project, these projects would result in the incremental loss of suitable habitats for the species through direct habitat conversion and degradation. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.26. Discussion of Golden Eagle

The golden eagle (*Aquila chrysaetos*) is considered a fully protected, state species of special concern (CDFG 2006e). It is found primarily in prairies, arctic and alpine tundra, open wooded areas, and barren areas, particularly in hilly or mountainous regions where it nests on rocky cliff ledges or in large trees. Although this species occasionally breeds in the northeastern United States, it breeds mainly in western North America, including northern and western Alaska, western Canada, the western United States, and northern Mexico. It winters throughout much of its breeding range.

4.5.26.1. Survey Results

No golden eagles were detected during general wildlife surveys conducted within the BSA during the 2002, 2003, or 2006 surveys. Lack of suitable habitat features (e.g., hills and mountains) within the survey area indicates a low potential for this species to occur within the BSA.

4.5.26.2. Avoidance and Minimization Efforts

Although the golden eagle is not expected to breed within the BSA, impacts to all suitable foraging habitat and winter perches within the survey area would be minimized or avoided through project design. Additional measures, specifically BIO-3 (a-c) and BIO-22, including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species' habitat.

4.5.26.3. Project Impacts

The proposed project would result in impacts to 0.91 ha (2.24 ac) of minimal foraging and winter perching habitat for the golden eagle.

4.5.26.4. Compensatory Mitigation

Preconstruction surveys shall be conducted as an avoidance measure to minimize potential impacts to this species. Should this species be present, mitigation measures in the MMRP (BIO-3 [a-c] and BIO-24) shall be implemented.

4.5.26.5. Cumulative Impacts

The proposed project, along with other projects within the region, would contribute to the development and incremental loss of habitats suitable for the golden eagle. Within the region, marginal habitat for this species occurs along the edges of previously developed or disturbed areas; thus, the impact is considered to be minor.

4.5.27. Discussion of Merlin

The merlin (*Falco columbarius*) is considered a state species of special concern (CDFG 2006e). It inhabits grasslands and agricultural fields. This species can be found in North America, tropical America, and Eurasia. In North America, it breeds from Alaska east to Newfoundland and south to Wyoming, Montana, and northeastern Maine. It winters mainly in the southern United States north to British Columbia and down the west coast and east to southern New England. This species only occurs in California in the winter and is near its southwestern distributional limits in San Diego County.

4.5.27.1. Survey Results

No merlins were observed during the general wildlife surveys conducted within the BSA during the 2002, 2003, or 2006 surveys. These surveys, however, were conducted during late spring, a time during which this species is not present in southern California. Historical location data for the region and limited habitat availability (e.g., lack of grasslands and agricultural fields) within the survey area indicate a low potential for the species to occur within the BSA during the winter.

4.5.27.2. Avoidance and Minimization Efforts

The merlin is not expected to breed within the BSA. However, impacts to all winter perches and suitable foraging habitat within the survey area would be minimized or avoided through project design. Additional measures, specifically BIO-3 (a-c) and BIO-22, including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species' habitat.

4.5.27.3. Project Impacts

Within the AE for the proposed project, no impacts would occur to suitable merlin foraging habitat.

4.5.27.4. Compensatory Mitigation

Lack of evidence of occupation during general wildlife surveys conducted for the project suggests that, if the merlin occurs within the BSA, the population size will be very low. However, preconstruction surveys shall be conducted as an avoidance measure to minimize potential impacts to this species. Should this species be present, mitigation measures in the MMRP (BIO-3 [a-c] and BIO-24) shall be implemented.

4.5.27.5. Cumulative Impacts

Implementation of the proposed project, as well as other projects in the region, would result in development and incremental loss of habitats suitable for the merlin. Given the relatively small amount of impact and the marginal nature of the habitat for this species within the region along the edges of previously developed or disturbed areas, the impact is considered to be minor.

4.5.28. Discussion of American Peregrine Falcon

The American peregrine falcon (*Falco peregrinus anatum*) is a fully protected, state listed endangered species (CDFG 2006d). It is often observed along or near the coast, especially around mudflats, shores, or ponds where large numbers of water birds congregate. This species is also occasionally seen farther inland near reservoirs or on the coastal slopes. The American peregrine falcon ranges throughout North, Central, and South America; Africa; and Australia. Although this species was once widely distributed in North America, pesticide poisoning has led to its extirpation from the eastern United States and southeastern Canada. Its current North American range extends from Alaska southeast into Canada and south to Baja California and northern Mexico. This species is not expected to occur within the BSA because appropriate American peregrine falcon habitat is not present; therefore, no impacts are expected to occur to this species. As such, no avoidance, minimization, or compensatory mitigation would be required for this species.

4.5.29. Discussion of Prairie Falcon

The prairie falcon (*Falco mexicanus*) is considered a state species of special concern (CDFG 2006e). It is most often observed in open scrub and grassland habitats in open, arid regions with plains for foraging and cliffs for nesting. This species is found only in the western United States, Baja California, and northern Mexico. Prairie falcon populations have experienced a steady decline due to increased urbanization and habitat destruction.

4.5.29.1. Survey Results

No prairie falcons were observed during the general wildlife surveys conducted within the BSA during the 2002, 2003, or 2006 surveys. These surveys, however, were conducted during late spring when this species is not present in southern California. Lack of suitable habitat and historical location data indicate a low potential for this species to occur within the survey area.

4.5.29.2. Avoidance and Minimization Efforts

Although the prairie falcon is not expected to breed within the BSA, impacts to all suitable foraging habitat and winter perches within the survey area would be minimized or avoided through project design. Additional measures, specifically BIO-3 (a-c) and BIO-22, including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species' habitat.

4.5.29.3. Project Impacts

The proposed project would result in impacts to 0.07 ha (0.17 ac) of foraging habitat suitable for the prairie falcon.

4.5.29.4. Compensatory Mitigation

Because the prairie falcon was not detected within the BSA during general wildlife surveys conducted for the project and because suitable habitat within the BSA is limited, the population number for this species, if it occurs within the BSA, is expected to be extremely low. However, preconstruction surveys shall be conducted as an avoidance measure to minimize potential impacts to this species. Should this species be present, mitigation measures in the MMRP (BIO-3 [a-c] and BIO-24) shall be implemented.

4.5.29.5. Cumulative Impacts

The proposed project, as well as other projects within the region, would contribute cumulative impacts to the prairie falcon. Together with the proposed project, these projects would result in the incremental loss of suitable habitats for the species through direct habitat conversion and degradation. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.30. Discussion of Western Yellow-Billed Cuckoo

The western yellow-billed cuckoo is considered a federal candidate species (USFWS 2005) and a state listed endangered species (CDFG 2006d). It inhabits willow and cottonwood forests along rivers and streams. This subspecies is found in the western United States, west of the Rocky Mountains, and in northwestern Mexico. It breeds in southern California along the South Fork Kern, Santa Ana, Amargosa, Owens, and Colorado rivers, and the Prado Basin in Los Angeles County.

4.5.30.1. Survey Results

No western yellow-billed cuckoos were detected during the April – July 2006 surveys. However surveys conducted by Impact Sciences (2004) detected the species just west of the BSA within riparian habitat during 2003.

4.5.30.2. Avoidance and Minimization Efforts

Direct and indirect impacts to all winter perches and suitable foraging habitat within the survey area would be minimized or avoided through project design. Additional measures; specifically BIO-3 (a-c), including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to western yellow-billed cuckoo nesting and foraging habitat.

4.5.30.3. Project Impacts

The proposed project would result in impacts to 0.91 ha (2.24 ac) of foraging habitat suitable for the western yellow-billed cuckoo.

4.5.30.4. Compensatory Mitigation

Habitat-based mitigation is expected to be required for this species. Any impacts to nesting and foraging habitat would be mitigated at a ratio of 1:1 for upland habitats and ratios ranging from 1:1 to 3:1 for riparian habitats depending on the timing of mitigation (see BIO-5 [a] and BIO-24).

4.5.30.5. Cumulative Impacts

The proposed project, as well as other projects within the region, would contribute cumulative impacts to the western yellow-billed cuckoo. Together with the proposed project, these projects would result in the incremental loss of suitable habitats for the species through direct habitat conversion and degradation. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.31. Discussion of Burrowing Owl

The burrowing owl is a state species of special concern (CDFG 2006e). It inhabits open, dry annual or perennial grasslands, pastures, coastal dunes, desert scrub, and the edges of agriculture fields. It uses rodent burrows for shelter from weather and predators and for nesting. This western subspecies extends from southern Canada into the western half of the United States and down into Baja California and central Mexico. The burrowing owl has a low potential to occur within the BSA because suitable habitat for the species is absent from the area. Preconstruction surveys are recommended to conclude the absence of this species within the BSA. As such, no

impacts are expected to occur to this species. If preconstruction surveys conclude the presence of this species, compensatory mitigation would be required. Mitigation efforts such as BIO-3 (a-c) and BIO-20 of the MMRP include restoration/creation of suitable habitat for this species, biological monitoring plan, and/or exotic habitat removal.

4.5.32. Discussion of California Spotted Owl

The California spotted owl (*Strix occidentalis occidentalis*) is considered a state species of special concern (CDFG 2006e). It inhabits woodlands in both northern and southern California. In southern California, this species is almost always associated with oak and oak-conifer habitats and ranges from San Luis Obispo County south to San Diego County. Because habitat for this species is not present within the BSA, the California spotted owl is not expected to occur onsite, nor are impacts to this species expected. However, if preconstruction surveys conclude the presence of this species, compensatory mitigation would be required. Avoidance and mitigation efforts such as BIO-3 (a-c) and BIO-20 in the MMRP include restoration/creation of suitable habitat for this species, biological monitoring plan, and/or exotic habitat removal.

4.5.33. Discussion of Long-Eared Owl

The long-eared owl (*Asio otus*) is considered a state species of special concern (CDFG 2006e). It inhabits open woodlands, forest edges, riparian strips along rivers, hedgerows, juniper thickets, woodlots, and wooded ravines and gullies. This species is widely distributed in North America, Eurasia, and northern Africa. It breeds from central British Columbia, southern Mackenzie, and Quebec south to California, Arkansas, and Virginia and winters in the southern part of its breeding range and in the southern states.

4.5.33.1. Survey Results

No long-eared owls were detected during the various general wildlife surveys conducted within the BSA during the 2002, 2003, or 2006 surveys. Because suitable habitat (e.g., woodlands and forests) within the BSA is limited, there is a low potential for this species to occur within the survey area.

4.5.33.2. Avoidance and Minimization Efforts

Within the BSA, impacts to suitable long-eared owl habitat would be minimized or avoided to the greatest extent possible through project design. Additional measures,

specifically BIO-3 (a-c) and BIO-20, including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species' habitat.

4.5.33.3. Project Impacts

Implementation of the proposed project would result in impacts to 0.91 ha (2.24 ac) of suitable long-eared owl habitat.

4.5.33.4. Compensatory Mitigation

Preconstruction surveys shall be conducted as an avoidance measure to minimize potential impacts to this species. Should this species be present, mitigation measures in the MMRP (BIO-3 [a-c] and BIO-24) shall be implemented.

4.5.33.5. Cumulative Impacts

The proposed project, along with other projects within the region, would contribute to the development and incremental loss of habitats suitable for the long-eared owl. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.34. Discussion of Vaux's Swift

Vaux's swift (*Chaetura vauxi*) is considered a state species of special concern (CDFG 2006e). It can be found in mature forests but also forages over open country, land, and water. During migration, this species often roosts in large flocks in hollow trees or chimneys. Within North America, Vaux's swift breeds from southeastern Alaska, southern British Columbia, northern Idaho, and western Montana south to central California and winters casually in California, southern Louisiana, and western Florida.

Because suitable habitat for this species is not present onsite, Vaux's swift is not expected to occur within the BSA. Therefore, no impacts to this species are expected. As such, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.5.34.1. Survey Results

Vaux's swift was detected during one of the April – July 2006 surveys but was most likely observed flying over during migration or on foraging forays. The population size of this species within the BSA is expected to be very low. Limited suitable habitat availability suggests that the occurrence of the Vaux's swift within the BSA is occasional, during migration or foraging forays.

4.5.34.2. Avoidance and Minimization Efforts

Within the BSA, impacts to suitable Vaux's swift habitat would be minimized or avoided to the greatest extent possible through project design. Additional measures, specifically BIO-3 (a-c) and BIO-20, including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species' habitat.

4.5.34.3. Project Impacts

Implementation of the proposed project would result in impacts to 1.76 ha (4.33 ac) of suitable Vaux's swift foraging habitat.

4.5.34.4. Compensatory Mitigation

Preconstruction surveys shall be conducted as an avoidance measure to minimize potential impacts to this species. Should this species be present, mitigation measures in the MMRP (BIO-3 [a-c] and BIO-24) shall be implemented.

4.5.34.5. Cumulative Impacts

The proposed project, along with other projects within the region, would contribute to the development and incremental loss of habitats suitable for the Vaux's swift. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.35. Discussion of Southwestern Willow Flycatcher

The southwestern willow flycatcher (*Empidonax traillii extimus*) is a federally listed endangered species (USFWS 2005). It is restricted to willow-dominated riparian habitats, usually in proximity to water. In the southwestern United States, this subspecies' range is limited to a few major river drainages, with the largest population in southern California located on the south fork of the Kern River in Kern County. The southwestern willow flycatcher is not expected to occur within the BSA because the site lacks suitable habitat; therefore, no impacts are expected to occur to this species. Accordingly, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.5.36. Discussion of California Horned Lark

The California horned lark (*Eremophila alpestris actia*) is considered a state species of special concern (CDFG 2006e). It inhabits grasslands and open woodlands with low, sparse vegetation. Although this species historically ranged from northern

coastal California south to Mexico and east into the central valley, its current distribution is unknown.

4.5.36.1. Survey Results

No California horned larks were detected during the general wildlife surveys conducted by EDAW during the 2002, 2003, or 2006 surveys. Historical location data and suitable habitat within the survey area indicate a moderate potential for this species to occur within the BSA in low numbers.

4.5.36.2. Avoidance and Minimization Efforts

Within the BSA, impacts to suitable California horned lark habitat would be minimized or avoided to the greatest extent possible through project design. Additional measures, specifically BIO-3 (a-c) and BIO-19, including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species' habitat.

4.5.36.3. Project Impacts

Implementation of the proposed project would result in impacts to 0.07 ha (0.17 ac) of habitat suitable for the California horned lark.

4.5.36.4. Compensatory Mitigation

Preconstruction surveys shall be conducted as an avoidance measure to minimize potential impacts to this species. Should this species be present, mitigation measures in the MMRP (BIO-19 and BIO-24) shall be implemented.

4.5.36.5. Cumulative Impacts

Implementation of the proposed project, as well as other projects in the region, would result in development and incremental loss of habitats suitable for the California horned lark. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.37. Discussion of Coastal California Gnatcatcher

The coastal California gnatcatcher is a federally listed threatened species (USFWS 2005) and a state species of special concern (CDFG 2006e). This subspecies is usually found in association with coastal sage scrub communities, particularly coastal sage scrub, occurring on gentle slopes within the maritime and coastal climate zones, generally below 1,000 ft elevation. Often, California sagebrush and flat-top buckwheat are the dominant plant species in the area. The coastal California

gnatcatcher's range is restricted to the coastal slopes of southern California, from Los Angeles County south to El Rosario, Baja California, Mexico. In addition, critical habitat for this subspecies has been designated, the closest of which occurs approximately 0.8 km (0.5 mi) to the northeast of the site.

Approximately 4.4 ha (10.8 ac) of suitable habitat for this subspecies exists onsite. Focused protocol-level gnatcatcher surveys were conducted by EDAW in the spring 2002 and spring 2006 and concluded that California gnatcatcher is absent from the BSA. Thus, no impacts are expected to occur to this subspecies. Preconstruction surveys are recommended to conclude the absence of this species from the BSA. Accordingly, no avoidance, minimization, or compensatory mitigation measures would be required for this species.

4.5.38. Discussion of Bendire's Thrasher

Bendire's thrasher (*Toxostoma bendirei*) is considered a state species of special concern (CDFG 2006e). It inhabits dense chaparral, occasionally also using adjacent oak woodlands, sage scrub, and pine-juniper scrub. This species is endemic to coastal and foothill areas of California and Baja California, Mexico.

4.5.38.1. Survey Results

No Bendire's thrashers were observed within the BSA during the 2002, 2003, or 2006 surveys. Based on the limited amount of suitable habitat within the study area, there is a low potential for this species to occur within the BSA.

4.5.38.2. Avoidance and Minimization Efforts

Impacts to suitable Bendire's thrasher habitat would be minimized to the greatest extent feasible through project design. Where impacts are unavoidable, all construction activities would be required to avoid the breeding season (March 1 through September 30) in order to comply with the MBTA. Additional measures, specifically BIO-3 (a-c), including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species' habitat.

4.5.38.3. Project Impacts

Within the AE, the proposed project would impact 0.06 ha (0.15 ac) of habitats suitable to support Bendire's thrasher.

4.5.38.4. Compensatory Mitigation

Preconstruction surveys shall be conducted as an avoidance measure to minimize potential impacts to this species. Should this species be present, mitigation measure BIO-24 in the MMRP shall be implemented in the form of habitat-based mitigation at a 1:1 ratio.

4.5.38.5. Cumulative Impacts

The proposed project, as well as other projects within the region, would contribute cumulative impacts to Bendire's thrasher. Together with the proposed project, these projects would result in the incremental loss of suitable habitats for the species through direct habitat conversion and degradation. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.39. Discussion of Loggerhead Shrike

The loggerhead shrike is considered a state species of special concern (CDFG 2006e). It inhabits open country, typically lowland plains and gently sloping hillsides with short grass for foraging and scattered trees and shrubs that provide nesting and perching sites. This species occurs throughout most of North America, except in the northeastern United States, northern Rocky Mountains, and Cascade Range, and in southern Alberta, Saskatchewan, and Manitoba.

4.5.39.1. Survey Results

No loggerhead shrikes were detected during the general wildlife surveys conducted within the BSA during the 2002, 2003, or 2006 EDAW surveys. However, surveys conducted by Impact Sciences in 2003 detected this species within the BSA (Impact Sciences 2004).

4.5.39.2. Avoidance and Minimization Efforts

Impacts to suitable loggerhead shrike habitat within the BSA would be minimized or avoided through project design modifications. Should impacts be unavoidable, all construction activities would be required by the federal and state regulatory agencies to avoid the breeding season (March 1 through September 30) to comply with the MBTA. Additional measures, specifically BIO-3 (a-c) and BIO-19, including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species' habitat.

4.5.39.3. Project Impacts

Implementation of the proposed project would result in impacts to 0.06 ha (0.15 ac) of suitable loggerhead shrike habitat.

4.5.39.4. Compensatory Mitigation

Mitigation measures BIO-19 and BIO-24 in the MMRP shall be implemented for impacts to this species. Efforts include preconstruction surveys 30 days prior to construction to detect the presence of nesting individuals. If nesting individuals are present, construction will be delayed until the fledglings leave the nest. Other measures include habitat-based mitigation at a ratio of 1:1 and a restoration monitoring plan.

4.5.39.5. Cumulative Impacts

Implementation of proposed projects within the region would contribute to cumulative impacts to the loggerhead shrike. Incremental loss of habitat adds to the long-term trend of increased disturbance and development of habitats suitable for the species. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.40. Discussion of Least Bell's Vireo

The least Bell's vireo (*Vireo bellii pusillus*) is a federally listed endangered (USFWS 2005) and state listed endangered species (CDFG 2006d). It is limited to semiopen willow-mule fat-dominated riparian woodlands with dense shrub understory in southern California and northern Baja California, Mexico. Because suitable riparian woodland onsite is limited in its extent, this subspecies is not expected to occur within the BSA. However, preconstruction surveys are recommended to conclude the absence of this species onsite.

4.5.41. Discussion of Yellow Warbler

The yellow warbler is considered a state species of special concern (CDFG 2006e). It occupies marshes, swamps, streamside groves, willow and alder thickets, open woodlands with thickets, orchards, gardens, and open mangroves. This species breeds from Alaska to Newfoundland and south to western South Carolina and northern Georgia, and west sporadically through the southwest to the Pacific Coast. The yellow warbler is highly migratory and winters in Central America and the West Indies south to northern Peru. The yellow warbler is a summer visitor in California.

4.5.41.1. Survey Results

No yellow warblers were detected within the BSA during the 2002, 2003, or 2006 field surveys. The species was detected during general wildlife surveys just west of the BSA in riparian vegetation during 2003 surveys for the Cross Valley Connector Project. A lack of large areas of suitable habitat features (e.g., marshes, thickets, orchards) within the survey area indicates that the population for this species west the BSA is likely to be very small.

4.5.41.2. Avoidance and Minimization Efforts

All impacts to suitable yellow warbler habitat would be avoided to the greatest extent possible through project design modifications. As required by the resource agencies, all construction activities would avoid the breeding season (March 1 through September 30) to comply with the MBTA. Additional measures, specifically BIO-3 (a-c), including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species' habitat.

4.5.41.3. Project Impacts

The proposed project would result in impacts to 0.91 ha (2.24 ac) of habitat suitable for the yellow warbler.

4.5.41.4. Compensatory Mitigation

Mitigation measure BIO-5 in the MMRP shall be implemented for impacts to this species. Efforts include preconstruction surveys 30 days prior to construction to detect the presence of individuals. Other measures include habitat-based mitigation at a ratio of 1:1 and a restoration monitoring plan.

4.5.41.5. Cumulative Impacts

The proposed project, as well as other projects within the region, would contribute cumulative impacts to the yellow warbler. Together with the proposed project, these projects would result in the incremental loss of suitable habitats for the species through direct habitat conversion and degradation. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.42. Discussion of Yellow-Breasted Chat

The yellow-breasted chat (*Icteria virens*) is considered a state species of special concern (CDFG 2006e). It is an uncommon but locally abundant resident of riparian woodland in coastal lowlands and foothills of California.

4.5.42.1. Survey Results

A yellow-breasted chat was detected on April 24, 2006, within the BSA. Historical location data for the region and limited habitat availability (e.g., lack of riparian woodlands) within the survey area indicate this species likely uses the BSA as a stopover during migration in low numbers.

4.5.42.2. Avoidance and Minimization Efforts

Within the BSA, impacts to suitable yellow-breasted chat habitat would be avoided to the greatest extent feasible through project design. The federal and state regulatory agencies require that all construction activities avoid the breeding season (March 1 through September 30) to comply with the MBTA. Additional measures, specifically BIO-3 (a-c), including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species' habitat.

4.5.42.3. Project Impacts

Within the AE, the proposed project would impact 0.91 ha (2.24 ac) of marginally suitable yellow-breasted chat habitat.

4.5.42.4. Compensatory Mitigation

Mitigation measure BIO-5 (a-o) in the MMRP shall be implemented for impacts to this species. Efforts include preconstruction surveys 30 days prior to construction to detect the presence of individuals. Other measures include habitat-based mitigation at a ratio of 1:1 and a restoration monitoring plan.

4.5.42.5. Cumulative Impacts

The proposed project, along with other projects within the region, would contribute to the development and incremental loss of habitats suitable for the yellow-breasted chat. Within the region, marginal habitat for this species occurs along the edges of previously developed or disturbed areas; thus, the impact is considered to be minor.

4.5.43. Discussion of Summer Tanager

The summer tanager is considered a state species of special concern (CDFG 2006e). It occurs in pine-oak and oak forests, streamside willows and cottonwood trees, and dry open woodlands. This species breeds from southeastern California and southern Nevada to central Oklahoma, and from southeastern Nebraska to New Jersey south to the Gulf Coast and northern Mexico. It winters mainly from Mexico to Bolivia. Summer tanager populations have experienced a steady decline over the past several years due to increased urbanization and habitat destruction (Unitt 2004).

4.5.43.1. Survey Results

No summer tanagers were observed during the general wildlife surveys conducted within the BSA during the 2002, 2003, or 2006 EDAW surveys. However, surveys conducted by Impact Sciences in 2003 detected this species in the BSA (Impact Sciences 2004).

4.5.43.2. Avoidance and Minimization Efforts

All impacts to suitable summer tanager habitat would be avoided to the greatest extent possible through project design modifications. As required by the resource agencies, all construction activities would avoid the breeding season (March 1 through September 30) to comply with the MBTA. Additional measures, specifically BIO-3 (a-c), including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species' habitat.

4.5.43.3. Project Impacts

The proposed project would result in impacts to 0.91 ha (2.24 ac) of suitable summer tanager foraging habitat.

4.5.43.4. Compensatory Mitigation

Mitigation measure BIO-5 (a-o) in the MMRP shall be implemented for impacts to this species. Efforts include preconstruction surveys 30 days prior to construction to detect the presence of individuals. Other measures include habitat-based mitigation at a ratio of 1:1 and a restoration monitoring plan.

4.5.43.5. Cumulative Impacts

The proposed project, as well as other projects within the region, would contribute cumulative impacts to the summer tanager. Together with the proposed project, these projects would result in the incremental loss of suitable habitats for the species through direct habitat conversion and degradation. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.44. Discussion of Southern California Rufous-Crowned Sparrow

The southern California rufous-crowned sparrow is considered a state species of concern (CDFG 2006e). It is an uncommon to fairly common, localized resident of sage scrub on steep rocky slopes of the coastal plain of southern California and Baja California, Mexico, from sea level to 1,800 ft.

4.5.44.1. Survey Results

A pair of southern California rufous-crowned sparrows was observed exhibiting breeding behavior within the BSA during 2006 surveys conducted by EDAW. Three individuals were observed during general wildlife surveys conducted by EDAW during 2002. This species is expected to occur in low numbers throughout the suitable upland scrub communities within the BSA.

4.5.44.2. Avoidance and Minimization Efforts

All impacts to suitable southern California rufous-crowned sparrow habitat would be avoided to the greatest extent possible through project design modifications. As required by the resource agencies, all construction activities would avoid the breeding season (March 1 through September 30) to comply with the MBTA. Additional measures, specifically BIO-3 (a-c), including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species' habitat.

4.5.44.3. Project Impacts

The proposed project would result in impacts to 0.06 ha (0.15 ac) of scrub habitats suitable for the southern California rufous-crowned sparrow.

4.5.44.5. Compensatory Mitigation

Mitigation measures BIO-5 (a-o) and BIO-24 in the MMRP shall be implemented for impacts to this species. Efforts include preconstruction surveys 30 days prior to construction to detect the presence of individuals. Other measures include habitat-based mitigation at a ratio of 1:1 and a restoration monitoring plan.

4.5.44.5. Cumulative Impacts

The regional projects would contribute cumulative impacts to the southern California rufous-crowned sparrow. Implementation of these projects, together with the proposed project, would result in the incremental loss of habitats suitable for the species through direct habitat conversion and degradation. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.45. Discussion of Bell's Sage Sparrow

Bell's sage sparrow is considered a state species of special concern (CDFG 2006e). It occupies dense coastal sage scrub and open chaparral habitats. This subspecies ranges from the Cascade Mountains to Baja California, Mexico.

4.5.45.1. Survey Results

No Bell's sage sparrows were detected during 2006 surveys conducted by EDAW. Surveys conducted by Impact Sciences (2004) detected this species just west of the BSA during 2003. There is a high potential for this species to occur on-site.

4.5.45.2. Avoidance and Minimization Efforts

Impacts to Bell's sage sparrow would be avoided to the greatest extent feasible through project design modifications. As required by the resource agencies, all construction activities would avoid the breeding season (March 1 through September 30) to comply with the MBTA. Additional measures, specifically BIO-3 (a-c), including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species' habitat.

4.5.45.3. Project Impacts

Bell's sage sparrow populations have experienced a steady decline due to increased urbanization and habitat destruction. The proposed project would result in impacts to 0.06 ha (0.15 ac) of suitable scrub habitats that could support this species.

4.5.45.4. Compensatory Mitigation

Preconstruction surveys shall be conducted as an avoidance measure to minimize potential impacts to this species. Should this species be present, mitigation measure BIO-24 in the MMRP shall be implemented in the form of habitat-based mitigation at a ratio of 1:1.

4.5.45.5. Cumulative Impacts

Implementation of proposed projects within the region would contribute to cumulative impacts to Bell's sage sparrow. Incremental loss of habitat adds to the long-term trend of increased disturbance and development of habitats suitable for the species. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.46. Discussion of Tricolored Blackbird

The tricolored blackbird is considered a state species of special concern (CDFG 2006e). It nests in large, dense colonies in freshwater marsh and riparian scrub habitats and forages in agricultural areas, lakeshores, and damp lawns. This species' distribution is centered in the Sacramento/San Joaquin valleys of California.

4.5.46.1. Survey Results

No tricolored blackbirds were detected during 2006 surveys conducted by EDAW. Surveys conducted by Impact Sciences (2004) detected this species just west of the BSA during 2003.

4.5.46.2. Avoidance and Minimization Efforts

Impacts to tricolored blackbird would be avoided to the greatest extent feasible through project design modifications. As required by the resource agencies, all construction activities would avoid the breeding season (March 1 through September 30) to comply with the MBTA. Additional measures, specifically BIO-3 (a-c) and BIO-21, including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species' habitat.

4.5.46.3. Project Impacts

Tricolored blackbird populations have experienced a steady decline due to increased urbanization and habitat destruction. The proposed project would result in impacts to 0.91 ha (2.24 ac) of suitable scrub habitats that could support this species.

4.5.46.4. Compensatory Mitigation

Preconstruction surveys shall be conducted as an avoidance measure to minimize potential impacts to this species. Should this species be present, mitigation measure BIO-24 in the MMRP shall be implemented in the form of habitat-based mitigation at a ratio of 1:1.

4.5.46.5. Cumulative Impacts

Implementation of proposed projects within the region would contribute to cumulative impacts to tricolored blackbird. Incremental loss of habitat adds to the long-term trend of increased disturbance and development of habitats suitable for the species. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.47. Discussion of California Leaf-Nosed Bat

The California leaf-nosed bat (*Macrotus californicus*) is considered a state species of special concern (CDFG 2006e). It is found in lowland desert scrub where it uses caves, abandoned mine tunnels, or natural rock shelters in canyon walls for rest sites during the day and buildings, bridges, rocks, and mines for temporary night roosts. This species ranges from southern California, southern and western Arizona, and southern Nevada south to Baja California, Sonora, and northern Sinaloa, Mexico.

The California leaf-nosed bat has a low potential to occur within the BSA because suitable habitat is highly restricted onsite. However, preconstruction surveys are recommended. If this species is present, avoidance and mitigation measures outlined in the MMRP, such as species relocation and habitat-based mitigation, would be implemented.

4.5.48. Discussion of Spotted Bat

The spotted bat (*Euderma maculatum*) is considered a state species of special concern (CDFG 2006e). It inhabits a variety of habitats from desert scrub to montane coniferous woodlands, including pinyon-juniper woodland, open ponderosa pine, canyon bottoms, open pasture, and hayfields. This species is found throughout western North America, from southern British Colombia south through the western United States, and into central Mexico. The spotted bat has a low potential to occur within the BSA because suitable habitat is highly restricted onsite. However, preconstruction surveys are recommended. If this species is present, avoidance and mitigation measures outlined in the MMRP, such as species relocation and habitat-based mitigation, would be implemented.

4.5.49. Discussion of Pale Big-Eared Bat

The pale big-eared bat (*Corynorhinus townsendii pallescens*) is considered a state species of special concern (CDFG 2006e). It inhabits a variety of habitats from desert scrub to deciduous and coniferous forests where it uses abandoned mines, buildings, hollow tree cavities, and snags as roosting sites. This species is found throughout western North America, from British Columbia south through the central and western United States, east onto the Edwards Plateau, and into Mexico. The pale big-eared bat has a low potential to occur within the BSA because suitable habitat is highly restricted onsite; therefore, no impacts to this species are expected. However, preconstruction surveys are recommended. If this species is present, avoidance and mitigation measures outlined in the MMRP, such as species relocation and habitat-based mitigation, would be implemented.

4.5.50. Discussion of Townsend's Western Big-Eared Bat

Townsend's western big-eared bat (*Corynorhinus townsendii townsendii*) is considered a state species of concern (CDFG 2006e). It roosts in caves, tree hollows, mines, tunnels, buildings, and other structures in oak woodland, riparian woodland, and chaparral, with roosting areas the limiting factor. This species occurs throughout

California, but information on the details of its distribution is limited. Because suitable habitat is limited onsite, Townsend's big-eared bat has a low potential to occur within the BSA. However, preconstruction surveys are recommended. If this species is present, avoidance and mitigation measures outlined in the MMRP, such as species relocation and habitat-based mitigation, would be implemented.

4.5.51. Discussion of Pallid Bat

The pallid bat (*Antrozous pallidus*) is considered a state species of special concern (CDFG 2006e). It inhabits arid deserts, grasslands, usually near rocky outcroppings and water. Occasionally it may be found in shrublands, and evergreen and mixed conifer woodland where it roosts most frequently in rock crevices or buildings, but it also uses caves, tree hollows, and mines as roost sites. This species is found in western North America, from south-central British Columbia south through the western United States and into southern Baja California and central Mexico. Because suitable foraging habitat and limited roosting habitat are present onsite, the pallid bat has a low to moderate potential to occur within the BSA.

4.5.51.1. Survey Results

No pallid bats were detected during EDAW wildlife surveys conducted for the project during the 2002, 2003, or 2006 field surveys. However, focused bat surveys were not conducted. The presence of suitable foraging habitat within the survey area and the known historical location data within the region indicate that there is a low to moderate potential for this species to occur within the BSA.

4.5.51.2. Avoidance and Minimization Efforts

Impacts to the pallid bat would be avoided to the greatest extent feasible through project design modifications. Avoidance measures such as nighttime preconstruction surveys are recommended 30 days before construction. Other efforts such as species relocation and biological monitoring during the grading phase would be implemented if the species is present onsite during construction.

4.5.51.3. Project Impacts

Pallid bat populations have experienced a steady decline due to increased urbanization and habitat destruction. The proposed project would result in impacts to 1.82 ha (4.48 ac) of suitable habitats that could support this species.

4.5.51.4. Compensatory Mitigation

Preconstruction surveys shall be conducted as an avoidance measure to minimize potential impacts to this species. Should this species be present, mitigation measures such as habitat-based mitigation would be implemented at a 1:1 ratio and a habitat restoration monitoring plan would be required.

4.5.51.5. Cumulative Impacts

The proposed project, as well as other projects within the region, would contribute cumulative impacts to the pallid bat habitat. Together with the proposed project, these projects would result in the incremental loss of suitable habitats for the species through direct habitat conversion and degradation. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.52. Discussion of California Mastiff Bat

The California mastiff bat (*Eumops perotis californicus*) is considered a state species of special concern (CDFG 2006e). It is found in arid and semiarid, rocky canyons where it roosts in crevices and shallow caves on the sides of cliffs and rock walls. It occurs from central California southeast to southern Nevada, central Arizona, and west Texas and south into northern Baja California, northern Sinaloa, and Zacatecas, Mexico. The California mastiff bat is not expected to occur within the BSA because suitable habitat is not present onsite. However, preconstruction surveys are recommended. If this species is present, avoidance and mitigation measures outlined in the MMRP, such as species relocation and habitat-based mitigation, would be implemented.

4.5.53. Discussion of San Diego Black-Tailed Jackrabbit

The San Diego black-tailed jackrabbit is considered a state species of special concern (CDFG 2006e). It inhabits arid regions, including desert scrub, desert dunes, open coastal sage scrub, early stages of chaparral, prairies, and farmlands.

4.5.53.1. Survey Results

No San Diego black-tailed jackrabbits were observed and no sign were detected during the general wildlife surveys conducted by EDAW within the BSA during 2006. However, surveys conducted by Impact Sciences in 2003 detected this species just west of the BSA (Impact Sciences 2004).

4.5.53.2. Avoidance and Minimization Efforts

Impacts to suitable San Diego black-tailed jackrabbit habitat within the BSA would be minimized or avoided through project design modifications. Additional measures, specifically BIO-23, including preconstruction surveys, outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species' habitat.

4.5.53.3. Project Impacts

Within the AE, the proposed project would result in impacts to 0.97 ha (2.39 ac) of suitable San Diego black-tailed jackrabbit habitat.

4.5.53.4. Compensatory Mitigation

Preconstruction surveys shall be conducted 30 days prior to construction as an avoidance measure to minimize potential impacts to this species. Should this species be present, mitigation measure BIO-24 in the MMRP shall be implemented in the form of habitat-based mitigation at a ratio of 1:1.

4.5.53.5. Cumulative Impacts

Implementation of proposed projects within the region would contribute to cumulative impacts to the San Diego black-tailed jackrabbit. However, preconstruction surveys are recommended. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.54. Discussion of San Diego Desert Woodrat

The San Diego desert woodrat (*Neotoma lepida intermedia*) is considered a state species of special concern (CDFG 2006e). It occupies rocky habitats in association with chaparral and coastal sage scrub. This subspecies is restricted to southern California from San Luis Obispo south to northwestern Baja California, Mexico.

4.5.54.1. Survey Results

No San Diego desert woodrats were detected during the various general wildlife surveys conducted within the BSA during 2006. However, surveys conducted by Impact Sciences in 2003 detected this species west of the BSA (Impact Sciences 2004).

4.5.54.2. Avoidance and Minimization Efforts

Within the BSA, impacts to suitable San Diego desert woodrat habitat would be minimized or avoided to the greatest extent feasible through project design.

Preconstruction surveys outlined in the MMRP shall be incorporated into the project design to further minimize potential impacts to this species.

4.5.54.3. Project Impacts

Implementation of the proposed project would result in impacts to 10.92 ha (26.98 ac) of habitats suitable to support the San Diego desert woodrat.

4.5.54.4. Compensatory Mitigation

Preconstruction surveys shall be conducted 30 days prior to construction as an avoidance measure to minimize potential impacts to this species. Should this species be present, mitigation measure BIO-24 in the MMRP shall be implemented in the form of habitat-based mitigation at a ratio of 1:1.

4.5.54.5. Cumulative Impacts

The proposed project, as well as other projects within the region, would contribute cumulative impacts to the San Diego desert woodrat. Together with the proposed project, these projects would result in the incremental loss of suitable habitats for the species through direct habitat conversion and degradation. However, through the implementation of the mitigation measures outlined in the MMRP, these impacts would be reduced to the greatest extent feasible.

4.5.55. Discussion of Southern Mule Deer

The southern mule deer is a state regulated game species. It occurs in large, undisturbed tracts of coastal sage scrub, chaparral, mixed grassland/scrub vegetation, riparian and oak woodlands, and coniferous forest, especially in areas with a mosaic of vegetation that provide clearings interspersed with dense brush or tree thickets. Mule deer range from the Southern Yukon Territory and Mackenzie in Canada, south through the western United States to Wisconsin and western Texas, and throughout Baja California and northern Mexico. In California, mule deer occur throughout the state with the exception of the San Joaquin Valley and some southeastern desert areas. Most of the California population is migratory, moving to lower elevations in the fall.

4.5.55.1. Survey Results

The southern mule deer was observed and detected within the BSA during the various general wildlife surveys of the study area conducted during 2002, 2003, and 2006. Southern mule deer sign (tracks and scat) were documented along the Santa Clara River, and individual mule deer were observed on multiple occasions in the river and

on the scrub-covered slopes immediately west of the Castaic Lake Water Agency filtration plant. Since the southern mule deer was observed and detected within the survey area during general wildlife surveys conducted for the project, and suitable foraging, shelter, and dispersal habitat occurs throughout the BSA, it is expected that the project would impact this species through the disruption of dispersal corridors and loss of habitat.

4.5.55.2. Avoidance and Minimization Efforts

Impacts to suitable southern mule deer habitat within the BSA would be minimized or avoided through project design modifications. If impacts are unavoidable, habitat creation, restoration, or enhancement may be required. Additional measures may be determined through consultation with the CDFG.

4.5.55.3. Project Impacts

Within the AE, the proposed project would result in impacts to 1.82 ha (4.48 ac) of habitats suitable to support the southern mule deer.

4.5.55.4. Compensatory Mitigation

Compensatory mitigation is expected to be required through the development and implementation of wildlife movement corridor features into the project plans. The design of the wildlife corridor would be approved by the CDFG prior to its implementation.

4.5.55.5. Cumulative Impacts

Implementation of proposed projects within the region would contribute to cumulative impacts to the southern mule deer. Incremental loss of habitat adds to the long-term trend of increased disturbance and development of habitats suitable for the species.

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Chapter 5. Results: Permits and Technical Studies for Special Laws or Conditions

There are several federal and state regulations that require obtaining permits from the jurisdictional agencies if a proposed project meets certain criteria. In a general context, Section 5.1 defines the regulatory requirements for projects with potential impacts to sensitive resources including sensitive habitats, endangered and threatened species, and wetlands and waters.

5.1. Regulatory Requirements

Federal Endangered Species Act. Under the Federal Endangered Species Act (FESA), *take* (defined as *hunt, pursue, catch, capture, or kill; or attempt to hunt, pursue, catch, capture, or kill*) of listed species is prohibited unless authorized by the USFWS. Therefore, the applicant would be required to consult with the USFWS, pursuant to Section 7 of the FESA, to determine whether the project would jeopardize the continued existence of any of these federally regulated species. As part of the Section 7 consultation process, a Biological Assessment is required to be submitted to the USFWS outlining the potential impacts to federally listed, proposed, and candidate species and would also suggest mitigation measures for unavoidable impacts to these species. The USFWS would issue a Biological Opinion (BO) to document the effects of the proposed project on the long-term viability of the species affected and any incidental *take* provisions. The BO *take* statement is referred to as the "incidental *take* permit."

Migratory Bird Treaty Act. The MBTA restricts the killing, taking, collecting, and selling or purchasing of native bird species or their parts, nests, or eggs. Certain gamebird species are allowed to be hunted for specific periods determined by federal and state governments. The intent of the MBTA is to eliminate any commercial market for migratory birds, feathers, or bird parts, especially for eagles and other birds of prey. Although no permit is issued under the MBTA, if vegetation removal within the project area occurs during the breeding season for raptors and migratory birds (February 15 through September 15), the USFWS requires that surveys be conducted to locate active nests within the construction area. If active raptor or migratory bird nests are detected, project activities may be temporarily curtailed or halted.

California Endangered Species Act. The California Endangered Species Act (CESA) parallels the FESA. As a responsible agency, the CDFG has regulatory authority over state listed endangered and threatened species. Since the proposed project may affect species that are listed as threatened or endangered under both CESA and FESA, the applicant should encourage the CDFG to participate to the greatest extent practicable in the FESA Section 7 consultation process. The state legislature encourages cooperative and simultaneous findings between state and federal agencies. Further, the General Counsel for the CDFG has issued a memorandum to CDFG regional managers and division chiefs, clarifying the CESA consultation process. This clarification states that if a federal BO has been prepared for a species, the CDFG must use the BO in lieu of its own findings unless it is inconsistent with the CESA. Participation in the federal consultation and adoption of a federal BO is authorized by CDFG Code Section 2095. By adopting the federal BO, the CDFG need not issue a take permit per Section 2081 of the state code. If the federal BO is consistent with the CESA, the CDFG would complete a 2095 form in finalizing the adoption of the BO. If the federal BO is found to be inconsistent with the CESA, the CDFG would issue its own BO per Section 2090 of the state code and may issue a 2081 take permit with conditions of approval.

Section 404 of the Clean Water Act. Pursuant to Section 404 of the Clean Water Act, the Corps regulates the discharge of dredged or fill material into waters of the U.S. Waters of the U.S. have been defined as:

> "…(1) all waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect interstate or foreign commerce including such waters: (i) which are or could be used by interstate or foreign travelers for recreational or other purposes; or (ii) from which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or (iii) which are used or could be used for industrial purposes by industries in interstate commerce; (4) all impoundments of waters otherwise defined as waters of the United States under the definition; (5) tributaries of waters identified in paragraphs (1) through

> (4) of this section; (6) the territorial seas; and (7) wetlands adjacent to waters identified in paragraphs (1) through (6) …" (33 CFR 328.3[b]; 40 CFR 230.3[t]).

However, as a result of a recent U.S. Supreme Court decision (*Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers*, No. 99-1178, January 9, 2001), the Corps no longer has direct regulatory authority over many isolated intrastate waters, including wetlands.

The Corps defines wetlands as:

> "Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas" (33 CFR 328.3[b]; 40 CFR 230.3[t]).

The Corps has developed standard methods (*Corps of Engineers Wetland Delineation Manual*, Environmental Laboratory 1987) to identify and delineate wetland boundaries for the purpose of Section 404 regulation. A wetland determination is based on the presence of hydrophytic vegetation, hydric soils, and wetland hydrology. The Corps' delineation manual uses primarily field-based indicators to determine whether the three parameters are present. The presence of positive indicators of all three parameters is necessary for a site to qualify as jurisdictional wetlands.

In the absence of wetlands, the limits of Corps jurisdiction in nontidal waters, such as rivers, streams, lakes, and ponds, extends to the OHWM, which is defined as:

> "…that line on the shore established by the fluctuation of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas" (33 CFR 328.3[e]).

A Regulatory Guidance Letter issued by the Corps on June 27, 1987, further clarified the definition:

> "The OHWM is the physical evidence (shelving, debris lines, etc.) established by normal fluctuations of water level. For rivers and streams, the OHWM is meant to mark the within-channel height flows, not the average annual flood elevation that generally extends beyond the channel" (RGL No. 88-6).

The OHWM can also be conceptualized as the lateral extent of the active channel, usually the area just below the first terrace. The criteria for frequency and duration for OHWM, however, have not been defined under the Clean Water Act or any guidance from the Corps for field delineators.

Section 1600 of the California Fish and Game Code. Under Sections 1600-1607 of the CDFG Code, the CDFG regulates activities that would alter the flow, bed, channel, or bank of streams and lakes. The limits of CDFG jurisdiction are defined in the code as the "bed, channel or bank of any river, stream or lake designated by the department in which there is at any time an existing fish or wildlife resource or from which these resources derive benefit." The California Code of Regulations (14 CCR 1.72) defines a stream as:

> "[A] stream is a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having a surface or subsurface flow that supports or has supported riparian vegetation."

In practice, the CDFG usually extends its jurisdictional limit to the top of a stream or lake bank, or outer edge of the riparian vegetation, whichever is wider. Riparian habitats do not always have identifiable hydric soils, or clear evidence of wetland hydrology as defined by the Corps. Therefore, CDFG wetland boundaries often extend beyond Corps wetland boundaries, which sometimes include only portions of the riparian habitat adjacent to a river, stream, or lake. Jurisdictional boundaries under Sections 1600-1607 may encompass an area that is greater than that under the jurisdiction of Section 404 (Cylinder et al. 1995).

Section 401 of the Clean Water Act. The RWQCB has primary authority for permit and enforcement activities under the Porter-Cologne Water Quality Control Act (Cal. Water Code 13000-13999.10) and the Clean Water Act. Section 401 of the Clean Water Act requires certification from the California RWQCB that the proposed project is in compliance with established water quality standards. Projects that have

the potential to discharge pollutants are required to comply with established water quality objectives.

Under Section 401 of the Clean Water Act, the RWQCB implements the water quality certification process for any activity that requires a federal permit or license and that may result in the discharge of pollutants into waters of the U.S., including wetlands. The RWQCB reviews the proposal to determine whether the activity would comply with state water quality objectives and, subsequently, either issues a certification with conditions or denies the certification. Water quality standards, according to the Clean Water Act (40 CFR 131), include beneficial uses, water quality objectives, and the antidegradation policy.

No license or permit may be issued by a federal agency until certification required by Section 401 has been granted. Under the Clean Water Act, Corps Section 404 permits are subject to RWQCB Section 401 water quality regulation. The Corps cannot issue an individual or nationwide 404 permit until a 401 certification has been obtained from the RWQCB.

In terms of the nexus between Sections 404 and 401 of the Clean Water Act, if waters of the U.S. (e.g., creek, drainage with or without water flow, wetland) are present within the project area, and the proposed project would discharge dredge or fill material into waters of the U.S., then a 401 water quality certification is required. For the 401 certification process, the RWQCB typically uses the delineation verified by the Corps as the basis for determining impacts to waters of the U.S.

5.2. Federal Endangered Species Act Consultation Summary

The FESA Section 7 consultation process has not been initiated. Caltrans, as the agent for the FHWA, the federal project proponent lead agency, must make a formal request to the USFWS to initiate the consultation.

5.3. California Endangered Species Act Consultation Summary

The CESA consultation process has not been initiated. The City of Santa Clarita, as the state project proponent lead agency, must make a formal request to the CDFG to initiate the consultation and participate in the federal consultation process.

5.4. Wetlands and Other Waters Coordination Summary

In considering the potential wetlands impacts of the Golden Valley Road Bridge Project, it is recognized that the bridge crossing of the Santa Clara River has already been permitted by the Corps and CDFG (Corps 1998b). The Valencia Company applied to these agencies for approval of the NRMP, which includes certain channel, drainage, river bank protection, and bridge crossing improvements along a portion of the Santa Clara River and its tributaries. The NRMP improvements were the subject of the joint Environmental Impact Statement/Environmental Impact Report (EIS/EIR) prepared by these agencies (Corps 1998a). The impacts resulting from the proposed crossing of the Santa Clara River under the Bridge Alternative are a portion of the 9.1 ha (22.23 ac) of bridge crossing impacts to habitat under jurisdiction of the two agencies analyzed in the EIS/EIR. For coordination and initiation of the proposed project under the permits of the NRMP, the applicant must submit a Verification Request Letter to the Corps and CDFG. For approval, this letter must prove that the measures proposed in the project design are consistent with the measures outlined in the NRMP. Once this request is approved, bridge construction may commence.

5.4.1. Results and Conclusions

In all instances, the results and conclusions presented in this section are based upon the application of standard delineation techniques, the data collected, and the delineators' knowledge of wetland science. This delineation will need to be reviewed and verified by the Corps and CDFG before it can be considered final. Wetland vegetation communities, sample point locations, and jurisdictional determinations are displayed in Figure 9.

Results of the wetland delineation are summarized by sample point in Table 5-1. For further information on vegetation, soils, and hydrology data at each sample point, please refer to the Routine Wetland Determination Data Forms found in Appendix E. (Note: The vegetation communities, southern cottonwood-willow riparian forest, and alluvial fan sage scrub reported in the wetland determination data forms have now been combined into the southern riparian scrub community for consistency with the vegetation classification reported in the draft Riverpark EIR document [Impact Sciences 2004].)

Table 5-1: Summary of Jurisdictional Determinations

Sample Point	Vegetation Community	Wetland Criterion			Jurisdiction	
		Hydrophytic Vegetation	Wetland Hydrology	Hydric Soils	Corps	CDFG
S1	Southern Riparian Scrub	-	-	*	No	Yes[1]
S2	Southern Riparian Scrub	+	+	*	Yes	Yes
S3	Southern Riparian Scrub	+	+	*	Yes	Yes
S4	Big Sagebrush Scrub	-	-	-	No	No
S5	Southern Riparian Scrub	-	+	-	No	Yes[1]
S6	Disturbed Wetland	+	+	+	Yes	Yes
S7	Ruderal	-	-	-	No	No
S8	Nonwetland Waters of the U.S.	NA	+	*	Yes	Yes
S9	Nonwetland Waters of the U.S.	NA	+	*	Yes	Yes
S10	Riversidian Coastal Sage Scrub	-	-	-	No	No
S11	Holly-Leaf Cherry Scrub	-	-	-	No	No
S12	Nonnative Grassland	-	-	-	No	No
S13	Big Sagebrush Scrub	-	-	-	No	No

+ = Present
– = Absent
* = Recent and ongoing deposition of sand prevents hydric soil conditions from developing.
[1]Yes = Within 100-year floodplain or tributary of Santa Clara River and riparian vegetation present; CDFG jurisdiction.
NA=Not applicable due to primarily unvegetated flood channel

Based on observations, data collected at the Santa Clara River and its tributaries, and referenced data from the Riverpark EIR (Impact Sciences 2004), several general trends were identified for mapping jurisdictional boundaries. Generally, the soils within the Santa Clara River floodplain are mapped as Sandy Alluvial Lands and Riverwash by the U.S. Soil Conservation Service (1970). These soils have not developed hydric characteristics because of the dynamic nature of the flood channel and the ongoing deposition and/or removal of sand. Therefore, the delineation relied primarily on vegetation and hydrology indicators for jurisdictional determinations.

Corps jurisdictional wetlands located within the Santa Clara River floodplain include a relatively large area of southern riparian scrub (Table 5-1). In some locations along the river edge, southern riparian scrub was determined to be outside of Corps jurisdiction (sample point S1). This habitat was located on higher flood terraces, which lacked wetland hydrology and adequate hydrophytic vegetation indicators. These areas are within the 100-year floodplain that are regulated by the CDFG, but that did not display hydrophytic vegetation or wetland hydrology indicators, therefore the CDFG would retain jurisdiction.

Nonwetland waters of the U.S. under Corps and CDFG jurisdiction were delineated for the main, active flood channel of the Santa Clara River on the eastern end of the project at the proposed river crossing (sample point S8). This area has only about 10

percent vegetative cover including primarily mule fat, scale broom, and giant reed. The vegetation is hydrophytic; however, the channel is too sparse to be delineated as wetland with 90 percent open sand.

One small tributary to the Santa Clara River was delineated within the BSA at the eastern end and is sparsely vegetated with scattered patches of nonhydrophytic vegetation (primarily scale broom) within the ordinary OHWM; this area was delineated as Corps nonwetland waters of the U.S. and CDFG unvegetated streambed (sample point S9).

Most of the remaining tributaries include disturbed or altered drainages or ditches but also include portions of natural drainages.

The areas of Corps and CDFG jurisdiction within the BSA are summarized below in Table 5-2.

Table 5-2: Extent of Corps and CDFG Jurisdiction Within the BSA[1]

Jurisdiction	Area[1]
Corps and CDFG (subtotal)	10.07 (24.86)
Wetlands	2.24 (5.53)
Nonwetland Waters of the U.S.	7.83 (19.33)
CDFG Wetlands Only	2.68 (6.62)
GRAND TOTAL	**12.72 (31.48)**

[1]All measurements are in hectares (acres).

U.S. Army Corps of Engineers. A total of 10.07 ha (24.86 ac) of Corps jurisdiction occurs within the BSA. This total includes both vegetated wetlands (2.24 ha [5.53 ac]) and nonwetland waters of the U.S. (7.83 ha [19.33 ac]). Corps wetlands occur predominately within the Santa Clara River, but smaller patches of wetland were delineated within the tributaries and drainage ditches connecting with the Santa Clara River. Portions of the southern riparian scrub are the only vegetation community qualifying as Corps jurisdictional wetlands.

California Department of Fish and Game. Approximately 12.72 ha (31.48 ac) of CDFG jurisdiction occurs within the BSA. The Corps jurisdictional wetlands and waters described above are also CDFG jurisdictional streambed. In addition to the areas described above, areas with riparian vegetation associated with the Santa Clara River or its tributary drainages, but lacking hydrophytic vegetation, hydrology, or soil indicators, were mapped as CDFG jurisdiction. Portions of the southern riparian scrub are the only vegetation community qualifying as CDFG jurisdictional wetlands.

Regional Water Quality Control Board. As stated earlier, the area within the jurisdiction of the RWQCB is considered to be the same as the area within the jurisdiction of the Corps (10.07 ha [24.86 ac]).

5.4.2. Wetland Impact Analysis

Jurisdictional resources may be either directly or indirectly impacted by a project. Direct and indirect impacts may furthermore be either permanent or temporary in nature. These impacts are defined below.

Direct: Any alteration, disturbance, or destruction of biological resources that would result directly from project-related activities is considered a direct impact. Examples include clearing vegetation and placing fill into wetlands.

Indirect: As a result of project-related activities, biological resources may be affected in a manner that is not direct. Examples include elevated noise and dust levels, shading from bridges, soil compaction, increased human activity, decreased water quality, and the introduction of invasive animals (domestic cats and dogs) and plants.

Permanent: All impacts that result in the irreversible removal of jurisdictional resources are considered permanent. For the purposes of this project, impacts are irreversible when placing fill results in a permanent elevation change or the creation of an impervious surface. Examples include constructing a building or permanent road on an area containing biological resources.

Temporary: Any impacts considered to have reversible effects on biological resources can be viewed as temporary. For the purpose of this project, if preconstruction contours are maintained and the original characteristics of the area can be reestablished in place, then the impact is considered temporary. Examples include removing vegetation for underground pipeline trenching activities and either revegetating or allowing the natural vegetation to recolonize the recontoured impact area, and placing and subsequently removing fill for the purpose of temporary construction access.

The direct impacts to jurisdictional wetlands and nonwetland waters as a result of the proposed alternatives are presented in Table 5-3 and described below. Indirect impacts are not quantified because there are no established standards to determine the extent of impacts from the point source (dust, sediment, lighting, runoff, illegal

trespass, etc.). Direct impacts to native riparian and wetland communities and other waters would require mitigation (see Section 5.4.3).

Table 5-3: Impacts to Corps and CDFG Jurisdictional Resources

Direct Impacts	Corps and CDFG in hectares (acres)	CDFG only in hectares (acres)	Total CDFG in hectares (acres)
Permanent	1.0 (2.49)	0.59 (1.46)	1.59 (3.95)

It is assumed that the placement of bridge piles and ground disturbance within the jurisdictional wetlands and other waters would be the nexus for Corps and CDFG involvement. Permanent direct impacts to wetland and nonwetland waters/unvegetated streambed would occur.

Impacts to Corps and CDFG Jurisdictions. As shown in Table 5-3, impacts to Corps and CDFG jurisdictional resources would permanently impact 1.0 ha (2.49 ac) of Corps and CDFG jurisdictional waters (Figure 9). Impacts to CDFG jurisdictional specific resources would permanently affect 0.59 ha (1.46 ac). These impacts are a portion of the impacts allowable under the terms of a 404 Permit and 1601 Agreement issued for the NRMP.

5.4.3. Wetland Mitigation

The direct impacts to federal and state jurisdictional waters and streambed, including wetlands, as a result of permanent road fill and bridge structures would require mitigation. These impacts, and the corresponding mitigation, have already been covered in an individual permit issued by the Corps, pursuant to Section 404 of the Clean Water Act, and a Streambed Alteration Agreement issued by the CDFG pursuant to Section 1601 of the Fish and Game Code. Mitigation for these impacts to jurisdictional waters and streambed is specified in the permit and agreement. As noted by the Riparian Habitat Mitigation Program in the MMRP, mitigation for jurisdictional areas will be performed at a ratio varying from 1:1 to 3:1 depending upon the timing of its implementation (see BIO-5 [a-o] in Appendix D).

5.4.3.1. Mitigation Strategies

Compensatory mitigation for permanent impacts to wetlands may include a combination of the strategies described below, as indicated in the MMRP in Appendix D. For any permanent impact to wetlands, however, mitigation must include enough wetland creation to offset the permanent loss of wetland function and area, typically a minimum ratio of 1:1 creation/restoration. The definitions below use

the term "wetland" generically to refer to either Corps or CDFG jurisdictional wetlands.

Restoration: Reestablishment of wetland characteristics and functions at a site that was historically, but is not currently, a wetland. This is the Corps' preferred strategy (USEPA and Corps 1990). This strategy can be used to mitigate the minimum 1:1 ratio for permanent losses of wetland function.

Creation: Establishment of a wetland in an area that was not historically, and is not currently, a wetland. This strategy can be used to mitigate the minimum 1:1 ratio for permanent losses of wetland function. The resource agencies typically give the same credit for creation as they do for restoration.

Enhancement: Activities conducted in existing wetlands resulting in an increase in one or more wetland functions. This usually involves removal of nonnative invasive plants followed by replanting with native species.

Compensatory wetland mitigation requirements can be satisfied through a combination of wetland creation/restoration and enhancement, as outlined in Mitigation Measure BIO-5, known as the Riparian Habitat Mitigation Program and established for the NRMP. Permanent direct impacts to vegetated wetlands should be compensated at a minimum 1:1 mitigation ratio if mitigation is completed 2 years or more prior to project impacts (MMRP). If mitigation for permanent impacts is completed less than 2 years in advance of impact, the mitigation ratio would vary between 1:1 and 3:1 depending on the value of habitat. Mitigation for all permanent impacts to wetlands will include a minimum 1:1 creation/restoration component. Minimum wetland mitigation requirements are discussed below. Compensatory mitigation ratios must be reviewed and approved by the resource agencies before being considered final.

5.4.3.2. Minimum Compensatory Mitigation Requirements

The Corps' policy of no net loss applies specifically to wetlands. "No net loss of wetlands" refers to a no net loss of both wetland area and function (USEPA and Corps 1990). The CDFG also requires replacement of impacted habitat, typically at ratios similar to the Corps. Mitigation requirements for the Golden Valley Road Bridge Project's impacts to jurisdictional waters and streambed have already been determined by the permit and agreement issued for the NRMP. Mitigation for jurisdictional areas will be performed at a ratio varying from 1:1 to 3:1 depending upon the timing of its implementation.

5.4.3.3. Mitigation Site Selection and Design

A qualified wetland and restoration ecologist should conduct the selection, design, implementation, and monitoring of the offsite mitigation site(s). It would be preferable to select a site(s) that is in proximity to existing native habitat to maximize habitat connectivity and interspersion functions.

The habitats created, restored, enhanced, and preserved should result in no net loss of wetland function and area. A functional assessment methodology, such as the Hydrogeomorphic (HGM) approach to the assessment of wetland function (Brinson et al. 1995; Smith et al. 1995; Lee et al. 1997; Brinson and Rheinhardt 1996), could be used to evaluate the replacement of functional capacity at the mitigation site relative to the loss of functional capacity at the construction site. HGM-based performance standards could be used in conjunction with standard wetland mitigation performance standards to evaluate the success of the wetland mitigation program.

A draft mitigation plan will be prepared prior to construction. The final mitigation plan must be reviewed and approved by Caltrans, the FHWA, and the resource agencies prior to the initiation of construction. A 5-year maintenance and monitoring plan will also be prepared and implemented to measure success of the mitigation and allow sign-off by the resource agencies upon completion of the monitoring period.

5.4.4. Wetland Permitting

The wetland permitting necessary to implement the proposed bridge crossing of the Santa Clara River has already been accomplished via an individual permit issued by the Corps, pursuant to Section 404 of the Clean Water Act, and a Streambed Alteration Agreement issued by the CDFG pursuant to Section 1601 of the Fish and Game Code. For coordination and initiation of the proposed project under these permits of the NRMP, the applicant must submit a Verification Request Letter to the Corps and CDFG. For approval, this letter must prove that the wetland measures proposed in the project design are consistent to the wetland measures outlined in the NRMP. Once this request is approved, bridge construction may be implemented.

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Appendix A U.S. Fish and Wildlife Services Letter

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United States Department of the Interior

FISH AND WILDLIFE SERVICE
Ventura Fish and Wildlife Office
2493 Portola Road, Suite B
Ventura, California 93003

IN REPLY REFER TO:
PAS 3028.4606.6313

September 29, 2006

Erin Riley
EDAW, Inc.
1420 Kettner Boulevard, Suite 620
San Diego, California 92101

Subject: Species List for the Proposed Golden Valley Bridge Project, City of Santa Clarita, Los Angeles County

Dear Ms Riley:

We are responding to your request, dated August 10, 2006, and received in our office on August 17, 2006, for information on endangered, threatened, proposed, and candidate species that may be present in the vicinity of the proposed Golden Valley Bridge project. The bridge would connect Soledad Canyon Road with the newly extended Newhall Road and span the Santa Clara River in the City of Santa Clarita.

The U.S. Fish and Wildlife Service's (Service) responsibilities include administering the Endangered Species Act of 1973, as amended (Act), including sections 7, 9, and 10. Section 9 of the Act prohibits the taking of any federally listed endangered or threatened species. Section 3(18) of the Act defines take to mean to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. Service regulations (50 CFR 17.3) define harm to include significant habitat modification or degradation which actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering. Harassment is defined by the Service as an intentional or negligent action that creates the likelihood of injury to wildlife by annoying it to such an extent as to significantly disrupt normal behavior patterns which include, but are not limited to, breeding, feeding, or sheltering. The Act provides for civil and criminal penalties for the unlawful taking of listed species.

Exemptions to the prohibitions against take may be obtained through coordination with the Service through interagency consultation for projects with Federal involvement pursuant to section 7 or through the issuance of an incidental take permit under section 10(a)(1)(B) of the Act. If the subject project is to be funded, authorized, or carried out by a Federal agency and may affect a listed species, the Federal agency must consult with the Service, pursuant to section 7(a)(2) of the Act. If a proposed project does not involve

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a Federal agency but may result in the take of a listed animal species, the project proponent should apply for an incidental take permit, pursuant to section 10(a)(1)(B) of the Act. Once you have determined if the proposed project will have a lead Federal agency, we can provide you with more detailed information regarding the section 7 or 10(a)(1)(B) permitting process.

The federally endangered arroyo toad (*Bufo californicus*), unarmored threespine stickleback (*Gasterosteus aculeatus williamsoni*), least Bell's vireo (*Vireo bellii pusillus*) and the threatened coastal California gnatcatcher (*Polioptila californica californica*) are the listed species that may occur within the area of the proposed project. Designated critical habitat for the coastal California gnatcatcher exists within the proposed project area.

Only listed species receive protection under the Act. However, sensitive species should be considered in the planning process in the event they become listed or proposed for listing prior to project completion. We recommend that you review information in the California Department of Fish and Game's Natural Diversity Data Base. You can contact the California Department of Fish and Game at (916) 324-3812 for information on other sensitive species that may occur in this area.

If you have any questions regarding this letter, please contact Christine Hamilton of my staff at (805) 644-1766, extension 369.

Sincerely,

Carl T. Benz
Assistant Field Supervisor
Southern Santa Barbara/Ventura/Los Angeles

Appendix B Wildlife Species List

Wildlife Species Observed or Detected within and adjacent to the Golden Valley Road Bridge Project Biological Study Area

Scientific Name	Common Name
LEPIDOPTERA	**BUTTERFLIES**
Papilionidae	
Papilio glaucus	tiger swallowtail
Pieridae	
Pieris rapae	cabbage white
Nymphalidae	
Limenitis archippus	viceroy
HYMENOPTERA	**WASPS AND BEES**
Myrmicinae	
Pogonomyrmex barbatus	red harvester ant
Mutillidae	
Mutilla sp.	velvet ant
ANURA	**FROGS AND TOADS**
Pelobatidae	
Scaphiopus hammondii	western spadefoot
Bufonidae	
Bufo boreas	western toad
Hylidae	
Pseudacris regilla	Pacific chorus frog
SQUAMATA	**LIZARDS AND SNAKES**
Iguanidae	
Sceloporus occidentalis	western fence lizard
Uta stansburiana	side-blotched lizard
Teiidae	
Cnemidophorus tigris multiscutatus	coastal western whiptail

Scientific Name	Common Name
GALLIFORMES	**MEGAPODES, CURASSOWS, PHEASANTS, AND RELATIVES**
Odontophoridae	
Callipepla californica	California quail
CICONIIFORMES	**STORKS, HERONS, AND RELATIVES**
Cathartidae	
Cathartes aura	turkey vulture
FALCONIFORMES	**VULTURES, HAWKS, AND FALCONS**
Accipitridae	
Elanus leucurus	white-tailed kite
Accipiter striatus	sharp-shinned hawk
Accipiter cooperii	Cooper's hawk
Buteo lineatus	red-shouldered hawk
Buteo jamaicensis	red-tailed hawk
Falconidae	
Falco sparverius	American kestrel
CHARADRIIFORMES	**SHOREBIRDS, GULLS, AND RELATIVES**
Charadriidae	
Charadrius vociferus	killdeer
COLUMBIFORMES	**PIGEONS AND DOVES**
Columbidae	
Columba livia	rock pigeon
Zenaida macroura	mourning dove
CUCULIFORMES	**CUCKOOS AND RELATIVES**
Cuculidae	
Coccyzus americanus occidentalis	western yellow-billed cuckoo
Geococcyx californianus	greater roadrunner
STRIGIFORMES	**OWLS**
Strigidae	
Tyto alba	barn owl

Scientific Name	Common Name
APODIFORMES	**SWIFTS AND HUMMINGBIRDS**
Apodidae	
Chaetura vauxi	Vaux's swift
Aeronautes saxatalis	white-throated swift
Trochilidae	
Calypte anna	Anna's hummingbird
Calypte costae	Costa's hummingbird
PICIFORMES	**WOODPECKERS AND RELATIVES**
Picidae	
Picoides nuttallii	Nuttall's woodpecker
Colaptes auratus	northern flicker
PASSERIFORMES	**PERCHING BIRDS**
Tyrannidae	
Empidonax difficilis	Pacific-slope flycatcher
Sayornis nigricans	black phoebe
Myiarchus cinerascens	ash-throated flycatcher
Tyrannus verticalis	western kingbird
Laniidae	
Lanius ludovicianus	loggerhead shrike
Vireonidae	
Vireo gilvus	warbling vireo
Corvidae	
Aphelocoma californica	western scrub-jay
Corvus brachyrhynchos	American crow
Corvus corax	common raven
Hirundinidae	
Stelgidopteryx serripennis	northern rough-winged swallow
Petrochelidon pyrrhonota	cliff swallow
Aegithalidae	
Psaltriparus minimus	bushtit
Troglodytidae	
Thryomanes bewickii	Bewick's wren
Troglodytes aedon	house wren

Scientific Name	Common Name
Timaliidae	
Chamaea fasciata	wrentit
Mimidae	
Mimus polyglottos	northern mockingbird
Toxostoma redivivum	California thrasher
Sturnidae	
Sturnus vulgaris	European starling
Ptilogonatidae	
Phainopepla nitens	phainopepla
Parulidae	
Vermivora ruficaipilla	Nashville warbler
Dendroica petechia	yellow warbler
Dendroica townsendi	Townsend's warbler
Icteria virens	yellow-breasted chat
Thraupidae	
Piranga rubra	summer tanager
Piranga ludoviciana	western tanager
Emberizidae	
Pipilo erythrophthalmus	spotted towhee
Pipilo crissalis	California towhee
Aimophila ruficeps canescens	southern California rufous-crowned sparrow
Amphispiza belli belli	Bell's sage sparrow
Melospiza melodia	song sparrow
Zonotrichia leucophrys	white-crowned sparrow
Icteridae	
Agelaius phoeniceus	red-winged blackbird
Agelaius tricolor	tricolored blackbird
Xanthocephalus xanthocephalus	yellow-headed blackbird
Euphagus cyanocephalus	Brewer's blackbird
Icterus cucullatus	hooded oriole
Icterus bullockii	Bullock's oriole

Scientific Name	Common Name
Cardinalidae	
Carduelis psaltria	black-headed grosbeak
Passerina amoena	lazuli bunting
Fringillidae	
Carpodacus mexicanus	house finch
Carduelis psaltria	lesser goldfinch
Carduelis lawrencei	Lawrence's goldfinch
Carduelis tristis	American goldfinch
CARNIVORA	**CARNIVORES**
Canidae	
Canis latrans	coyote
Procyonidae	
Procyon lotor	raccoon
Felidae	
Felis rufus	bobcat
RODENTIA	**SQUIRRELS, RATS, MICE, AND RELATIVES**
Sciuridae	
Spermophilus beecheyi	California ground squirrel
Muridae	
Neotoma lepida intermedia	San Diego desert woodrat
LAGOMORPHA	**RABBITS, HARES, AND PIKAS**
Leporidae	
Lepus californicus bennettii	San Diego black-tailed jackrabbit
Sylvilagus audubonii	desert cottontail
Sylvilagus bachmani	brush rabbit
PERISSODACTYLA	**HORSES, TAPIRS, AND RELATIVES**
Equidae	
Equus sp.	horse
ARTIODACTYLA	**EVEN-TOED UNGULATES**
Cervidae	
Odocoileus hemionus	mule deer

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Appendix C Plant Species List

Plant Species Observed or Detected within the Golden Valley Road Bridge Project Biological Study Area

Scientific Name	Common Name
ANGIOSPERMAE	
Dicotyledoneae	
Anacardiaceae - Sumac Family	
Rhus trilobata var. *pilolissima*	pubescent basketbush
Malosma laurina	laurel sumac
Asteraceae - Sunflower Family	
Ambrosia psilostachya	western ragweed
Ambrosia confertiflora	weak leaf burbush
Artemisia californica	California sagebrush
Artemisia douglasiana	mugwort
Artemisia dracunculus	tarragon
Artemisia tridentata ssp. *tridentata*	big sagebrush
Baccharis emoryi	baccharis
Baccharis pilularis var. *consanguinea*	coyote brush
Baccharis salicifolia	mule fat
Baccharis sarothroides	broom baccharis
Centauria melitensis	tecolote
Chrysothamnus nauseosus	rubber rabbitbrush
*Cichorium intybus**	chicory
Corethrogyne filaginifolia	sand aster
Encelia farinosa	desert encelia
Filago spp.	filago
Gnaphalium sp.	everlasting
Hedypnois cretica	Crete hedypnois
Heterotheca grandiflora	telegraph weed
Hypochaeris glabra	smooth cat’s ears
Lepidospartum squamatum	scale-broom
Stephanomeria sp.	wreath-plant

Scientific Name	Common Name
Stylocline gnaphalioides	wooly stylocline
Xanthium strumarium var. *canadense*	eastern cocklebur
Boraginaceae - Borage Family	
Amsinkia intermedia	fiddleneck
Cryptantha sp.	popcorn flower
Harpagonella palmeri var. *palmeri*	Palmer's grappling hook
Heliotropium curassavicum	Chinese pusley
Brassicaceae - Mustard Family	
*Brassica nigra**	black mustard
*Hirschfeldia incana**	perennial mustard
*Raphanus sativa**	wild radish
Cactaceae - Cactus Family	
Opuntia littoralis	coastal prickly-pear
Opuntia sp.	
Caprifoliaceae - Honeysuckle Family	
Sambucus mexicana	blue elderberry
Chenopodiaceae - Goosefoot Family	
Atriplex canescens ssp. *canescens*	four-winged saltbush
*Atriplex semibaccata**	Australian saltbush
*Salsola tragus**	Russian-thistle
Convolvulaceae – Morning Glory Family	
Calystegia peirsonii	Peirson's morning glory
Cuscutaceae - Dodder Family	
Cuscuta californica	dodder
Fabaceae - Pea Family	
Astragalus sp.	milkvetch
Acacia sp.*	acacia
Melilotus sp.*	sweetclover
Lotus scoparius var. *scoparius*	coastal deerweed
Lotus strigosus	annual lotus
Fagaceae - Oak Family	
Quercus agrifolia var. *agrifolia*	coast live oak

Scientific Name	Common Name
Hydrophyllaceae - Waterleaf Family	
Emmenanthe penduliflora	Chinese bells
Eriodictyon trichocalyx	yerba santa
Phacelia sp.	Phacelia
Juglandaceae – Walnut Family	
Juglans californica var. *californica*	Southern California black walnut
Lamiaceae - Mint Family	
Salvia apiana	white sage
Salvia mellifera	black sage
Malvaceae - Mallow Family	
Malva parviflora	cheese weed
Malacothamnus densiflorus	bush mallow
Myoporaceae - Myoporum Family	
*Myoporum laetum**	myoporum
Myrtaceae - Myrtle Family	
Eucalyptus sp.	eucalyptus
Nyctaginaceae - Four O'Clock Family	
Mirabilis californica	wishbone bush
Onagraceae - Evening Primrose Family	
Camissonia bistorta	sun cup
Epilobium sp.	fushia
Plumbaginaceae - Leadwort Family	
Limonium californicum	western marsh-rosemary
*Limonium perezii**	statice
Polemoniaceae - Phlox Family	
Eriastrum densifolium	eriastrum
Navarretia hamata ssp. *hamata*	skunkweed
Polygonaceae - Buckwheat Family	
Eriogonum fasciculatum ssp. *foliolosum*	flat-top buckwheat
Eriogonum sp.	buckwheat
Pterostegia drymariodides	prostrate pterostegia

Scientific Name	Common Name
Rhamnaceae – Buckthorn Family	
Rhamnus crocea	spiny redberry
Ranunculaceae – Buttercup family	
Delphinium parryi ssp. *blockmaniae*	dune larkspur
Rosaceae - Rose Family	
Adenostoma fasciculatum	chamise
Prunus ilicifolia ssp. *ilicifolia*	holly-leaf cherry
Salicaceae - Willow Family	
Populus fremontii	western cottonwood
Salix exigua	narrow-leaved willow
Salix lucida ssp. *lasiandra*	yellow willow
Salix goodingii	black willow
Scrophulariaceae - Figwort Family	
Castilleja sp.	paintbrush
Mimulus aurantiacus	yellow bush monkeyflower
Scrophularia californica	red scrophularia
Solanaceae - Nightshade Family	
Datura wrightii	jimson weed
*Nicotiana glauca**	tree tobacco
Solanum xanti	purple nightshade
Tamaricaceae - Tamarisk Family	
Tamarix sp.*	tamarisk
Verbenaceae - Vervain Family	
Verbena lasiostachys var. *lasiostachys*	western vervain
Monocotyledoneae	
Cyperaceae -Sedge Family	
Cyperus sp.*	umbrella sedge
Scirpus sp.	bulrush
Juncaceae - Rush Family	
Juncus mexicanus	Mexican rush
Liliaceae - Lily Family	
Calochortus clavatus var. *gracilis*	slender mariposa lily

Scientific Name	Common Name
Calochortus plummerae	Plummer's mariposa lily
Chlorogalum parviflora	soap plant
Yucca schidigera	Mojave yucca
Yucca whipplei ssp. *whipplei*	our lord's candle
Poaceae - Grass Family	
*Avena barbata**	slender wild oat
*Arundo donax**	giant reed
*Bromus diandrus**	ripgut grass
*Bromus hordeaceous**	soft chess
Bromus madritensis ssp. *rubens**	foxtail chess
*Cynodon dactylon**	Bermuda grass
Gastridium sp.*	gastridium
Melica imperfecta	small-flowered melic
Muhlenbergia rigens	deer grass
Nassella sp.	needlegrass
Phragmites australis	common reed
*Polypogon monspeliensis**	annual beard grass
*Schismus barbatus**	bearded schismus
Typhaceae - Cattail Family (= Sparganiaceae)	
Typha latifolia	broad-leaved cattail

*nonnative species

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Appendix D Mitigation Monitoring and Reporting Program

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MITIGATION MONITORING AND REPORTING PROGRAM
VALENCIA COMPANY
REVISED NATURAL RIVER MANAGEMENT PLAN
November 18, 1998

Mitigation Measure	Timing of Mitigation	Monitoring Action, Party, and Method of Documentation	Timing of Reporting	Enforcement Agency/ Status
WATER QUALITY				
WQ-1 The engineering design and operational criteria of the proposed water quality wetlands and filters shall be reviewed by the Regional Board staff during the 401 certification review for individual projects. The final designs should consider optimal size, retention time, internal flow patterns, use of a forebay, selection of appropriate plants, and location of inlets and outlets.	401 certification process	Corps confirms issuance of 401 certification or waiver from Regional Water Quality Control Board to the applicant	Upon issuance of 401 certification or waiver	Corps and RWQCB
WQ-2 The design of the proposed treatment control BMPs must meet the requirements of any similar treatment control BMP that is formally adopted by the Regional Board for the then current municipal stormwater permit for Los Angeles County or the City of Santa Clarita.	Approval of Verification Request Letter by the Corps	Corps confirms that the treatment control BMPs included in each project meets the current requirements of NPDES municipal stormwater permit for Los Angeles County and the City of Santa Clarita	Upon approval of each Verification Request Letter	Corps and RWQCB
BIOLOGY - AQUATIC HABITAT AND WATER QUALITY DURING CONSTRUCTION				
BIO-1 (a) Construction activities shall be limited to the following areas of temporary disturbance: (1) an 85-foot-wide zone that extends into the river from the base of the rip-rap or gunite bank protection where it intercepts the river bottom; (2) 60 feet on either side of the outer edge of a new bridge or bridge to be modified; (3) 50-foot-wide corridor for all utility lines; and (4) 20-foot-wide temporary access ramps and roads to reach construction sites. The locations of these temporary construction sites and the routes of all access roads shall be shown on maps submitted with the Verification Request Letters for individual projects that are submitted to the CDFG and Corps. Any variation from these limits shall be noted, with a justification for a variation. The construction plans should indicate what type of vegetation, if any, would be temporarily disturbed, and the post-construction activities to facilitate natural revegetation of the	During plan preparation and construction	Permittee shows initial compliance on project plans and in the Verification Request Letter. Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	Upon receipt of Verification Request Letter, and after construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG

temporarily disturbed areas. The boundaries of the construction site and any temporary access roads within the riverbed shall be marked in the field with stakes and flagging. No construction activities, vehicular access, equipment storage, stockpiling, or significant human intrusion shall occur outside the work area and access roads.				
BIO-1 (b) Equipment shall not be operated in areas of ponded or flowing water unless there are no practicable alternative methods to accomplish the construction work, and only after prior approval by the CDFG and the Corps. Approval shall be acquired by submitting a request to CDFG and Corps no later than 30 days prior to construction. The request must contain a biological evaluation demonstrating that no sensitive fish, amphibians, and/or reptiles are currently present, or likely to be present during construction, at the construction site or along access roads. This request may be included in the Verification Request Letters for individual projects that are submitted to the CDFG and Corps.	During plan preparation and construction	Permittee shows initial compliance on project plans and in the Verification Request Letter. Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	Upon receipt of Verification Request Letter, and after construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (c) Temporary sediment retention ponds shall be constructed downstream of construction sites that are located in the riverbed under the following circumstances: (1) the construction site contains flowing or ponded water that drains off-site into the undisturbed streamflow or ponds, as allowed for certain areas under BIO-1a above; or (2) streamflow is diverted around the construction site, but the work is occurring in the period November 1st through April 15th when storm flows could inundate the construction site. The sediment ponds shall be constructed of riverbed material and shall prevent sediment-laden water from reaching undisturbed ponds or streamflows. To the extent feasible, ponds shall be located in barren or sandy riverbottom areas devoid of existing riparian scrub, riparian woodland, or aquatic habitat. The ponds shall be maintained and repaired after flooding events, and shall be restored to pre-construction grades and substrate conditions within 30 days after construction has ended at that particular site. The location and design of sediment retention ponds shall be included in the Storm Water Pollution Prevention Plan (SWPPP) prepared by Valencia Company for all construction activities that require a NPDES General Construction Activity Storm Water Permit.	During plan preparation and construction	Permittee shows initial compliance on project plans and in the Verification Request Letter. Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	Upon receipt of Verification Request Letter, and after construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (d) Installation of bridges, culverts, or other structures shall not impair movement of fish and aquatic life. Bottoms of temporary culverts shall be placed at or below channel grade. Bottoms of permanent culverts shall be placed below	During construction of individual	Permittee documents compliance based on field observations by permittee's	After construction of a project is completed, and	Corps and CDFG

channel grade.	projects	compliance personnel. Compliance documented in Annual Permit Status Letter Report.	Corps and CDFG have received monitoring documentation from permittee.	
BIO-1 (e) Water containing mud, silt, or other pollutants from construction activities shall not be allowed to enter a flowing stream or placed in locations that may be subject to normal storm flows during periods when storm flows can reasonably be expected to occur.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (f) Vehicles shall not be driven or equipment operated in areas of ponded or flowing water, or where wetland vegetation, riparian vegetation, or aquatic organisms may be destroyed, except as otherwise provided for in the 404 permit or 1603 Agreement.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (g) Silt settling basins, installed during the construction process, shall be located away from areas of ponded or flowing water to prevent discolored, silt-bearing water from reaching areas of ponded or flowing water during normal flow regimes.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (h) If a stream channel has been altered during the construction and/or maintenance operations, its low flow channel shall be returned as nearly as practical to pre-project topographic conditions without creating a possible future bank erosion problem, or a flat wide channel or sluice like area. The gradient of the streambed shall be returned to pre-project grade, to the extent practical, unless it is represents a wetland restoration area.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (i) Temporary structures and associated materials not designed to withstand high seasonal flows shall be removed to areas above the high water	During construction of	Permittee documents compliance based on field	After construction of a project is	Corps and CDFG

mark before such flows occur.	individual projects	observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	completed, and Corps and CDFG have received monitoring documentation from permittee.	
BIO-1 (j) Staging/storage areas for construction equipment and materials shall be located outside of the ordinary high water mark.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (k) Any equipment or vehicles driven and/or operated within or adjacent to the stream shall be checked and maintained daily, to prevent leaks of materials that if introduced to water could be deleterious to aquatic life.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (l) Stationary equipment such as motors, pumps, generators, and welders which may be located within the riverbed construction zone shall be positioned over drip pans. No fuel storage tanks shall be allowed in the riverbed.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1(m) No debris, bark, slash sawdust, rubbish, cement or concrete or washing thereof, oil, petroleum products, or other organic material from any construction, or associated activity of whatever nature, shall be allowed to enter into, or be placed where it may be washed by rainfall or runoff into, watercourses included in the permit When construction operations are completed, any excess materials or debris shall be removed from the work area.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (n) No equipment maintenance shall be done within or near any stream	During	Permittee documents	After construction	Corps and

where petroleum products or other pollutants from the equipment may enter these areas with stream flow.	construction of individual projects	compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	CDFG
BIOLOGY: SENSITIVE AQUATIC SPECIES AVOIDANCE DURING CONSTRUCTION				
BIO-2 (a) Prior to initiating construction for the installation of bridges, storm drain outlets, utility lines, and/or bank protection, all construction sites and access roads within the riverbed, as well as all riverbed areas within 300 feet of the construction site and access road, shall be inspected at the appropriate season, as determined in consultation with CDFG, by a qualified biologist for the presence of the unarmored three-spine stickleback, arroyo chub, Santa Ana sucker, arroyo toad, two-striped garter snake, and southwestern pond turtle. The Corps and the CDFG shall be notified of the inspection and shall have the option of attending. If either agency is not represented, the biologist shall file a written report of the inspection with the agency not in attendance within 14 days of the survey and no sooner than 30 days prior to any construction work in the riverbed.	Prior to and during construction of individual projects	Biologist conducts field survey and documents in a report to the agencies.	No sooner than 30 days prior to construction.	Corps and CDFG
BIO-2 (b) Construction work areas and access roads shall be cleared of the species listed in BIO-2a immediately before the prescribed work is to be carried out, immediately before any equipment is moved into or through the stream or habitat areas, and immediately before diverting any stream water. The removal of such species shall be conducted by a qualified biologist using procedures approved by the Corps and CDFG, and with the appropriate collection and handling permits. Species shall be relocated to nearby suitable habitat areas. A plan to relocate these species shall be submitted to the Corps and CDFG for review and approval no later than 30 days prior to construction. This plan can also be included in the Verification Request Letters submitted to the Corps and CDFG for individual project approvals. Under no circumstances shall the unarmored three-spine stickleback be collected or relocated, unless USFWS personnel or their agents implement this measure.	Prior to and during construction of individual projects	Plan to relocate species submitted to agencies with Verification Request Letter. Biologist conducts relocation and documents in a report to the agencies.	Upon receipt of the relocation plan in the Verification Request Letter and upon receipt of the Annual Permit Status Report, documenting final compliance.	Corps and CDFG
BIO-2 (c) All stream flows traversing a construction site or temporary access road shall be diverted around the site and under access roads (using a temporary culverts or crossings that allow fish passage). A temporary diversion channel shall be constructed using the least damaging method possible, such as blading a narrow pilot channel through an open sandy river bottom. The removal of wetland and riparian vegetation to construct the channel shall be avoided to the greatest extent feasible. The temporary channel shall be connected to a natural	Prior to and during construction of individual projects	Plans for diversion submitted to agencies with Verification Request Letter. Permittee's compliance personnel monitor during construction, then document compliance in Annual Permit Status Letter	Upon receipt of the plans in the Verification Request Letter and upon receipt of the Annual Permit Status	Corps and CDFG

channel downstream of the construction site prior to diverting the stream. The integrity of the channel and diversion shall be maintained throughout the construction period. The stream channel alignment shall be restored after construction, in consultation with CDFG. A temporary stream diversion plan shall be included in the Verification Request Letters submitted to the Corps and CDFG for individual project approvals. This procedure can only be implemented if: (1) there are assurances by Valencia Company that the fully protected unarmored three-spine stickleback will not be taken or possessed, or (2) if USFWS personnel or their agents implement this measure.		Report.	Report, documenting final compliance.	
BIO-2 (d). A qualified biologist shall be present when any stream diversion takes place, and shall patrol the areas both within, upstream, and downstream of the work area to rescue any species stranded by the diversion of the stream water. Species that are collected shall be relocated to suitable downstream of the work area. Under no circumstances shall the unarmored three-spine stickleback be collected or relocated, unless USFWS personnel or their agents implement this measure.	During construction of individual projects	Permittee's compliance personnel monitor stream diversion and species relocation, then document compliance in Annual Permit Status Letter Report.	Upon receipt of the plans in the Verification Request Letter and upon receipt of the Annual Permit Status Report, documenting final compliance.	Corps and CDFG
BIOLOGY: SENSITIVE BIRD SPECIES AVOIDANCE DURING CONSTRUCTION				
BIO-3 (a) Existing maps of suitable riparian habitat for the least Bell's vireo, southwestern willow flycatcher, western yellow-billed cuckoo, yellow warbler, and yellow-breasted chat shall be updated on an as-needed basis, and submitted to the Corps and CDFG for review and approval as part of the annual riparian breeding bird status report submitted to the Corps and CDFG on October 1st of each year. The removal of any riparian habitat suitable for breeding, nesting, foraging, and temporary usage during migration by the species of interest from the project footprint (i.e., boundaries of temporary and permanent impacts) shall be mitigated through the creation or enhancement of similar riparian habitat at an approved mitigation site, or by the removal of exotic species from an area of existing similar habitat. The requirement for replacing suitable habitat by either creating new habitat or removing exotic species from existing habitat shall follow the replacement ratios and timing requirements in BIO-5. Habitat to be created to mitigate for the loss of riparian habitat that is suitable for the species of interest shall be designed specifically to replicate the appropriate species mixture and vegetative structure for these species. Existing habitat to be weeded as mitigation for the loss of riparian habitat suitable for the species of interest must be located adjacent to habitat occupied by these species and infested with invasive weeds. The first priority for habitat mitigation for sensitive bird species will be the	Restoration can occur at any time before a project, but no later than concurrent with the project.	Maps of suitable habitat: Issued to agencies as part of Annual Riparian Breeding Bird Status Report. Replacement of riparian habitat: Plans reviewed as part of Verification Request Letter, and success monitored through Annual Mitigation Status Report.	Upon receipt of Annual Breeding Bird Status Report, Verification Request letter, and Annual Mitigation Status Report.	Corps and CDFG

creation or restoration of habitat rather than weed removal. If weed removal is used for mitigation for sensitive species habitat replacement, the weed removal must result in habitat conditions suitable for the affected sensitive species. The final habitat replacement or exotic removal plans for impacts to these types of habitats shall be reviewed by the Corps and CDFG as described in BIO-5.				
BIO-3 (b) Beginning thirty (30) or more days prior to the removal of any suitable riparian habitat (mapped under BIO-3a) that will occur during the riparian bird breeding and nesting season of March 15th through September 1st, Valencia Company shall arrange for weekly bird surveys to detect the sensitive riparian bird species listed in BIO-3a in the habitats to be removed, and any other such habitat within 300 feet of the construction work areas. The surveys shall be conducted by a qualified biologist using CDFG and/or USFWS survey protocols. The surveys shall continue on a weekly basis, with the last survey being conducted no more than 7 days prior to the initiation of construction work. In the event that one of the species listed in BIO-3a is observed in the habitats to be removed or in other habitats within 300 feet of the construction work areas, Valencia Company has the option of delaying all construction work in the suitable habitat or within 300 feet of the suitable habitat until after September 1st, or continuing the surveys in order to locate any nests. If an active nest is found, clearing and construction within 300 feet of the nest shall be postponed until the nest is vacated and juveniles have fledged, and when there is no evidence of a second attempt at nesting. Limits of construction to avoid a nest site shall be established in the field with flagging and stakes or construction fencing. Construction personnel shall be instructed on the ecological sensitivity of the area. Locating and determining the status of a nest shall be performed in accordance with approved procedures by the USFWS and CDFG, including the possible need for an endangered species permit to accurately observe and monitor a nest of a listed or proposed species. The Corps and CDFG shall be notified at least 14 days prior to the first scheduled survey and shall have the option of attending. Results of the surveys, including surveys to locate nests, shall be provided to the Corps and CDFG no later than 5 days prior to construction. The results shall include a description of any nests located and measures to be implemented to avoid nest sites. No surveys will be necessary if the work is completed outside of the riparian bird breeding and nesting season, i.e., from September 1st through March 15th.	Prior to construction.	Permittee's qualified biologist will prepare a report based on field surveys, and submit to agencies.	Upon receipt of permittee's bird survey report.	Corps and CDFG
BIO-3 (c) As new land development projects included in the NRMP are	Ongoing, as new	Compliance to be documented	Upon receipt of	Corps and

constructed adjacent to the Santa Clara River or San Francisquito Creek, Valencia Company shall use best efforts (within the control of Valencia Company, taking into consideration land ownership) to restrict public access into the bottom of the Santa Clara River and San Francisquito Creek that could adversely affect sensitive fish and wildlife resources, particularly listed or proposed species. These actions shall include, among other things, posting signs identifying an ecologically sensitive area, promoting public education and awareness of such ecological sensitivities, coordinating with the City of Santa Clarita on the placement of trails and public access routes to and along the river to avoid conflicts with sensitive biological resources, and the maintenance of fences and barricades to prevent unauthorized or unrestricted access to the river bottom.	projects are constructed	in Annual Permit Status Letter Report.	Annual Permit Status Letter Report.	CDFG
BIOLOGY RESTORATION OF TEMPORARILY DISTURBED AREAS				
BIO-4 (a) Construction activities in the riverbed shall be restricted to the following areas of temporary disturbance: (1) an 85-foot-wide zone that extends into the river from the base the rip-rap or gunite bank protection where it intercepts the river bottom; (2) 60 feet on either side of the outer edge of a new bridge or bridge to be modified; (3) 50-foot-wide corridor for all utility lines; and (4) 20-foot-wide temporary access ramps and roads to reach construction sites. The locations of these temporary construction sites and the routes of all access roads shall be shown on maps submitted with the Verification Request Letter submitted to the Corps and CDFG for individual project approval. Any variation from these limits shall be noted, with a justification for a variation. The construction plans should indicate what type of vegetation, if any, would be temporarily disturbed and the post-construction activities to facilitate natural revegetation of the temporarily disturbed areas.	During plan preparation and construction	Permittee shows initial compliance on project plans and in the Verification Request Letter. Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	Upon receipt of Verification Request Letter, and after construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-4 (b) All native riparian trees in temporary construction areas with a 4-inch dbh or greater shall be replaced at a 3:1 ratio using 1 or 5 gallon container plants in the temporary construction areas in the winter following the construction disturbance. The growth and survival of the replacement trees shall meet the performance standards specified in BIO-5(e) and (f). In addition, the growth and survival of the planted trees shall be monitored for five years in accordance with the methods and reporting procedures specified in Mitigation Measure BIO-5.	After construction is completed.	Tree replacement plans to be reviewed as part of Verification Request Letter, and success monitored through Annual Mitigation Status Report.	Upon receipt of Verification Request Letter, and Annual Mitigation Status Report.	Corps and CDFG
BIO-4 (c) Native vegetation within temporary construction areas shall be mulched and spread over the temporary impact areas once construction is completed in order to facilitate revegetation. Areas temporarily disturbed by construction activities shall also be weeded annually, as needed, for up to five years following construction. These areas shall be annually monitored for five years after construction to document colonization by weeds and native plants. Weeds shall be removed by hand, an approved herbicide application, and/or by equipment. In the	After construction is completed.	Mulching plans to be reviewed as part of Verification Request Letter. Weeding to be monitored annual by the permittee and documented in the Annual Mitigation Status Report.	Upon receipt of Verification Request Letter, and Annual Mitigation Status Report.	Corps and CDFG

event that native plant cover does not reach 50 percent of the pre-construction native plant cover within three years, Valencia Company shall revegetate the temporary construction area in accordance with the methods specified in BIO-5. Annual monitoring reports on the status of the natural recovery of temporarily disturbed areas shall be submitted to the Corps and CDFG as part of the Annual Mitigation Status Report and Mitigation Accounting Form to be submitted to the Corps and CDFG by April 1st of each year.				
BIOLOGY: RIPARIAN HABITAT MITIGATION PROGRAM				
BIO-5 (a) The permanent removal of riparian habitats (EIS mapping units 1 - 4, and 5-8) in the riverbed and "upland impact zone" (as defined in the EIR/EIS) shall be replaced by creating riparian habitats of similar functions and values in the project area. Wetland restoration shall be in-kind and at a 1:1 replacement ratio (except as indicated in BIO-5d) for new habitat installed two years in advance of the removal of habitat at the construction site. If replacement habitat cannot be installed two years in advance of the project, the ratios listed below will apply. As described in BIO-5d, lower replacement ratios may be appropriate if a Corps-approved hydrogeomorphic method (HGM) of assessing replacement ratios indicates lower ratios would ensure replacement of habitat values and functions. ▪ Habitat installation completed 2 years or more prior to construction impact, for all habitats = 1:1 ratio. ▪ Habitat installation completed less than 2 years in advance of impact. Low value habitat = 1:1 ratio, moderate value habitat = 2:1 ratio, high value habitat = 3:1 ratio. High value habitat = EIS/EIR mapping units 1,2,3,6; Medium value habitat = EIS/EIR mapping units 4,7; and Low value habitat = EIS/EIR mapping units 5, 8. **BIO-5 (b)** Valencia Company shall mitigate for the removal of riparian habitats contiguous with riverbed riparian habitat (EIS/EIR mapping units 2, 3, 4, 6, and 7) that may occur outside the "upland impact zone." The replacement of these types of habitats would occur in association with the development of a project identified in the NRMP, and shall follow the procedures for the replacement of in-channel habitats, as described in this mitigation measure. **BIO-5 (c)** Creation of new riparian habitats shall occur at suitable sites in or	Restoration or weed removal can occur at any time before a project, but no later than concurrent with the project.	Restoration or weeding plans reviewed as part of Verification Request Letter, and success monitored through Annual Mitigation Status Report and Mitigation Accounting Form.	Upon receipt of Annual Verification Request Letter, Annual Mitigation Status Report, and Mitigation Accounting Form	Corps and CDFG

adjacent to the watercourses included in the NRMP. Habitat restoration sites in the riverbed shall only be located in areas where the predominant habitats present are dry open floodplain (EIS/EIR mapping unit 5), weedy herbaceous (EIS/EIR mapping unit 9), or their functional equivalent. The highest priority habitat restoration sites should be new riverbed areas created during the excavation of uplands for bank protection projects in the NRMP. Restoration sites may also occur at locations outside the riverbed where there is appropriate hydrologic conditions to create a self-sustaining riparian habitat and where upland and riparian habitat values are absent or very low. All sites shall contain suitable hydrological conditions and surrounding land uses to ensure a self-sustaining functioning riparian habitat. Candidate restoration sites shall be selected by Valencia Company and described in the Annual Mitigation Status Report that will be submitted to the Corps by April 1st of each year. Sites will be approved when restoration plans are submitted to the Corps and CDFG as part of the Verification Request Letters submitted for individual projects, or as part of the Annual Mitigation Status Report and Mitigation Accounting Form. **BIO-5 (d)** Replacement habitat shall be designed to replace the functions and values of the habitats being removed. The replacement habitat shall be restored in accordance with the acreage replacement ratios described in BIO-5a. The replacement habitats shall have similar dominant trees and understory shrubs and herbs as the affected habitats. In addition, the replacement habitats shall be designed to replicate the density and structure of the affected habitats once the replacement habitats have reached mature status. Replacement ratios that are lower than those listed in BIO-5a may be used if a Corps-approved hydrogeomorphic method (HGM) is applied in which habitat functions and values of both affected habitat and the replacement habitat are quantified to ensure adequate replacement of habitat values and functions. **BIO-5 (e)** Average plant spacing shall be determined based on an analysis of habitats to be replaced. Typical plant spacing is presented below for use in developing willow-cottonwood woodland habitat (EIS/EIR mapping unit 3) as an example only. Valencia Company shall develop similar tree spacing specifications for other habitats to be restored, such as wet mixed scrub (EIS/EIR mapping unit 2), dry willow scrub (EIS/EIR mapping unit 4), cottonwood woodland (EIS/EIR mapping unit 6), scalebroom scrub (EIS/EIR mapping unit 7), and wet herbaceous (EIS/EIR mapping unit 1). Plant spacing specifications shall be reviewed and approved by the Corps and CDFG when restoration plans are submitted to the Corps as part of the Verification Request Letters submitted to				

the Corps and CDFG for individual projects or as part of the Annual Mitigation Status Report and Mitigation Accounting Form.

Average spacing (feet), height (feet) after 3 years, and height (feet) after 5 years, respectively:

Arroyo willow	8	10	15
Black willow	8-10	12	18
Sandbar willow	8	4	6
Red willow	8	9	15
Cottonwood	20	7	12

BIO-5 (f) Each tree and shrub species used in restoration shall have a minimum of 80% survival after three years and 70% survivorship after five years. Key indicator tree species to be used in the riparian restoration program shall achieve a minimum growth at the end of three years and five years as described above in BIO5e. Performance standards for cover shall be developed by Valencia Company for each individual habitat type being created, based on the observed natural cover in undisturbed habitats in the project area. Performance standards shall be established by Valencia Company for each habitat type to be replaced and shall require approval of the Corps and CDFG after these agencies have reviewed the Annual Mitigation Status Report and Mitigation Accounting Form. Minimum growth, survivorship, and cover performance at the mitigation sites shall be measured based on random samples taken during years three and five at each individual mitigation site, or at other sampling intervals if the Corps' hydrogeomorphic methodology is used by Valencia Company.

BIO-5 (g) If the minimum growth, survivorship, and/or cover are not achieved at the time of the three and five year evaluations, then Valencia Company shall be responsible for taking the appropriate corrective measures as to achieve the specified growth, survivorship, and/or cover criteria. Valencia Company shall be responsible for any costs incurred during the revegetation or in subsequent corrective measures. If acts of God (flood, fires, or drought) occur after the vegetation has met the three-year criteria for growth, survival, and cover, Valencia Company will not be responsible for replanting damaged areas. If these events occur prior to the plants meeting the three-year criteria, Valencia Company shall be responsible for replanting the area one time only.

BIO-5 (h) Valencia Company shall be responsible for weeding all restoration

sites to prevent an infestation of non-native weeds for a period of five years after the initial habitat restoration, regardless of the success of the planted species. The cover of non-native plant species at the mitigation sites shall not exceed 10 percent at any time, within this five year period. **BIO- 5 (i)** Temporary irrigation shall be installed, as necessary, for plant establishment. Irrigation shall continue as needed to meet the three and five year performance criteria regarding survivorship and growth. Irrigation shall be terminated in the winter to provide the least stress to plants. Removal of the irrigation system shall occur in conjunction with an appropriate "weaning" procedures to minimize plant stress in consultation with CDFG. Irrigation shall be terminated at the earliest opportunity after achieving the five-year criteria. **BIO-5 (j)** As an alternative to the restoration of habitats to compensate for permanent removal of riparian habitats, Valencia Company (at the discretion of the Corps and CDFG on a project-by-project basis) may remove exotic plant species from the project area in locations: (1) where there is an infestation of exotics such as *Arundo* such that the natural habitat functions and values are substantially degraded and at risk, and where the cover of exotics is equal to or exceeds 25 percent of the ground; or (2) other areas where exotic removal would be strategic in a watershed approach to weed management, as determined by the Corps and CDFG. The weed removal sites shall be selected in logical manner to ensure that the eradication of weeds from specific sites will contribute to the overall control of exotics in the NRMP watercourses. Removal areas shall be kept free of exotic plant species for five years after initial treatment. In addition, native riparian vegetation must become established through natural colonization and meet the revegetation plant cover goals established by the Corps and CDFG under BIO-5f after five years. **BIO-5 (k)** The removal program shall utilize methods and procedures approved by the Corps and CDFG to remove exotics, including but not limited to, mechanical equipment in specific areas, handcutting, and the application of herbicides to stumps. Exotic plant species removal credit will be given as shown below (except when weed removal is used to mitigate for loss of habitat for sensitive riparian bird species where the Corps and CDFG may require higher ratios). Weed eradication plans shall be submitted to the Corps and CDFG for approval as part of the Verification Request Letters submitted to the Corps and CDFG for individual projects or as part of the Annual Mitigation Status Report and Mitigation Accounting Form. The plans shall describe the proposed methods				

and the conditions of the site to be treated. A monitoring program shall be implemented to document the effectiveness of the removal and the natural establishment of native vegetation in the weeded area.

Value of Riparian Habitat to be Removed	Mitigation Ratios for Exotic Removal	
	2 yrs in advance	< 2 yrs in advance
High (EIS/EIR mapping units 1,2,3,6)	3:1	4:1
Medium (EIS/EIR mapping units 4,7)	2:1	3:1
Low (EIS/EIR mapping unit 5,8)	1:1	2:1

BIO-5 (l) In order to provide an accurate and reliable accounting system for mitigation, Valencia Company shall file a Mitigation Accounting Form annually with the Corps and CDFG by April 1st. This form shall document the amount of vegetation planted during the past year, the status of all mitigation credits to date, and any credits subtracted by projects implemented during the past year. Valencia Company will keep detailed records and provide the Mitigation Accounting Form to the Corps and CDFG annually for review for the life of the permit, or until all credits have been used up for individual projects. The Corps and CDFG shall provide concurrence within 30 working days, including written verification for all restoration and weed removal sites that meet the specified performance criteria. If there are any question regarding the accounting, a meeting with will be scheduled between Valencia Company, the Corps, and the CDFG.

BIO-5 (m) If Valencia Company does not have sufficient mitigation credits for an upcoming project, and is therefore planning to restore habitat or remove exotics concurrent with project implementation, project-specific plans for restoring riparian habitats or for removing exotics from existing habitats shall be submitted to the Corps and CDFG as part of the Verification Request Letters for individual project approvals.

BIO-5 (n) An Annual Mitigation Status Report shall be submitted to the Corps and CDFG by April 1st of each year for the life of the permit, or until five years

after all mitigation has been completed. This report shall include any required plans for plant spacing, locations of candidate restoration and weed removal sites, restoration methods, weed removal plans, and habitat restoration performance standards. For active habitat creation sites, the report shall include the survival, percent cover, and height of planted species, the number by species of plants replaced, an overview of the revegetation effort and its success in meeting performance criteria, the method used to assess these parameters, and photographs. For active exotics removal sites, the report shall include an assessment of weed removal; a description of the relative cover of native vegetation, bare areas, and exotic vegetation; colonization by native plants; and photographs. The report shall also include the Mitigation Accounting Form (see BIO-5l above) which outlines accounting information related to species planted or exotic removed, and mitigation credit remaining. **BIO-5 (o)** The mitigation program shall incorporate applicable principles in the interagency "Federal Guidance for the Establishment, Use, and Operation of Mitigation Banks" (FR 60; 58605-58614), to the extent feasible and appropriate, particularly the guidance on administration and accounting. Nothing in the 404 permit shall preclude Valencia Company from selling mitigation credits to other parties wishing to use the 404 permit for a project and/or maintenance activity included in the 404 permit.				
BIOLOGY ROUTINE MAINTENANCE GENERAL MEASURES				
BIO-6 (a) Temporary access roads to the work site shall be routed to avoid, to the extent feasible, riparian vegetation, live streams, and wetted areas. The boundaries of the maintenance site and any temporary access roads within the riverbed shall be marked in the field with stakes and flagging. No maintenance activities, vehicular access, equipment storage, stockpiling, or human intrusion shall occur outside the work area and access roads. If a live stream or pond is located within the maintenance site or access roads, the procedures described below in Measure BIO-7 to identify and relocate endangered species from live streams or ponded water would be followed. **BIO-6 (b)** Equipment shall not be operated in areas of ponded or flowing water unless there are no practicable alternative methods to accomplish the maintenance work, and only after prior approval by the CDFG and the Corps based on a request included in the Maintenance Notification submitted to these agencies 30 days before the planned maintenance work. **BIO-6 (c)** Temporary sediment retention ponds shall be constructed downstream	Prior to, during, and after maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG

of maintenance sites which involve grading or excavating and that contain flowing or ponded water that drains off-site into the undisturbed streamflow or ponds. The sediment ponds shall be constructed of riverbed material and shall prevent sediment-laden water from reaching undisturbed ponds or streamflows. To the extent feasible, ponds shall be located in barren or sandy riverbottom areas devoid of existing riparian scrub, riparian woodland, or aquatic habitat. The ponds shall be maintained and repaired after flooding events, and shall be restored to pre-disturbance grades and substrate conditions within 30 days after maintenance work has ended. **BIO-6 (d)** Repair of in-channel facilities shall not impair movement of fish and aquatic life. Bottoms of temporary culverts shall be placed at or below channel grade. **BIO-6 (e)** Water containing mud, silt, or other pollutants from maintenance activities shall not be allowed to enter a flowing stream or placed in locations that may be subject to normal storm flows during the period November 1st through April 15th. **BIO-6 (f)** If a stream channel has been altered during maintenance, the low flow channel shall be returned as nearly as practical to pre-project topographic conditions. **BIO-6 (g)** Temporary structures and associated materials not designed to withstand high seasonal flows shall be removed to areas above the high water mark before such flows occur. **BIO-6 (h)** Staging/storage areas for maintenance equipment and materials shall be located outside of the ordinary high water mark. **BIO-6 (i)** Any equipment or vehicles driven and/or operated within or adjacent to the stream shall be checked and maintained daily, to prevent leaks of materials that if introduced to water could be deleterious to aquatic life. **BIO-6 (j)** Stationary equipment such as motors, pumps, generators, and welders, located within the riverbed maintenance zone shall be positioned over drip pans. No fuel tanks shall be allowed in the riverbed. **BIO-6 (k)** No debris, bark, slash sawdust, rubbish, cement or concrete or washing				

thereof, oil, petroleum products, or other organic material from any maintenance activity shall be allowed to enter into, or be placed where it may be washed by rainfall or runoff into, watercourses included in the NRMP. When maintenance is completed, any excess materials or debris shall be removed from the work area. **BIO-6 (l)** No equipment maintenance shall be conducted within 50 feet of a watercourse.				
BIOLOGY: ROUTINE MAINTENANCE: SENSITIVE AQUATIC SPECIES: AVOIDANCE				
BIO-7 (a) Prior to initiating in-channel maintenance activities, all work sites and access roads within the riverbed, as well as all riverbed areas within 300 feet of the maintenance site and access road, shall be inspected by a qualified biologist for the presence of the unarmored three-spine stickleback, arroyo chub, Santa Ana sucker, arroyo toad, two-striped garter snake, and southwestern pond turtle. The Corps and the CDFG shall be notified of the inspection and shall have the option of attending. **BIO-7 (b)** Except in portions of the river or creek where the unarmored three-spine stickleback is present, maintenance work areas and access roads shall be cleared of the species listed in BIO-7a immediately before the prescribed work is to be carried out, immediately before any equipment is moved into or through the stream or habitat areas, and immediately before diverting any stream water. The removal of such species shall be conducted by a qualified biologist using procedures approved by the Corps and CDFG, and with the appropriate collection and handling permits. Species shall be relocated to nearby suitable habitat areas. A plan to relocate these species shall be submitted to the Corps and CDFG with the Maintenance Notification. **BIO-7 (c)** All stream flows traversing a maintenance work site or temporary access road shall be diverted around the site and under access roads (using a temporary culverts or crossings that allow fish passage). A temporary diversion channel shall be constructed using the least damaging method possible, such as blading a narrow pilot channel through an open sandy river bottom. The removal of wetland and riparian vegetation to construct the channel shall be avoided to the greatest extent feasible. The temporary channel shall be connected to a natural channel downstream of the maintenance site prior to diverting the stream. The original stream channel alignment shall be restored after maintenance work. **BIO-7 (d)** A qualified biologist shall be present when any stream diversion takes place, and shall patrol the areas both within, upstream, and downstream of the	Prior to, during, and after maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG

work area to rescue any species stranded by the diversion of the stream water. Species that are collected shall be relocated to suitable area downstream of the work area.				
BIOLOGY ROUTINE MAINTENANCE SENSITIVE BIRD AVOIDANCE				
BIO-8 All maintenance and repair work, excluding emergency work, shall occur between August 1st and March 15th (which is outside of the breeding season for sensitive riparian birds such as the least Bell's vireo) for facilities along the Santa Clara River downstream of Bouquet Canyon Bridge, and along San Francisquito Creek between Newhall Ranch Road and its confluence with the Santa Clara River. In-channel maintenance work that must occur between March 15th through August 1st in these areas shall follow the procedures in Mitigation Measure BIO-3.	Prior to and during maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG
BIOLOGY ROUTINE MAINTENANCE RESTORATION OF TEMPORARILY DISTURBED AREAS				
BIO-9 Native vegetation within temporary maintenance work areas shall be mulched and spread over the temporary impact areas once maintenance work is complete in order to facilitate revegetation.	After maintenance events	LACDPW monitors compliance in the field, and then reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the post-maintenance compliance report	Corps and CDFG
BIOLOGY ROUTINE MAINTENANCE CHANNEL CLEARING NEAR BRIDGES				
BIO-10 Vegetation and/or debris will be removed from around the following bridges, on an as-needed basis, as determined by LACDPW: Bouquet Canyon Road Bridge - 50 feet upstream and 50 feet downstream; McBean Parkway Bridge - 50 feet upstream and 50 feet downstream; The Old Road Bridge - 50 feet upstream and 50 feet downstream. Vegetation and debris may be removed by heavy equipment. Equipment within the river shall be operated within the above-described removal areas which shall be demarcated with temporary fencing or staking.	Prior to maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies.	Upon receipt of the Maintenance Notification.	Corps and CDFG
BIOLOGY ROUTINE MAINTENANCE REMOVAL OF VEGETATION FROM RIP-RAP				
BIO-11 For existing and new rip-rap constructed under the 404 permit and 1603 Agreement, LACDPW may remove trees that grow in levees, and may remove large trees, defined as trees with trunks 4 inches in diameter at breast height (dbh), within 15 feet of the levee toe in order to maintain the structural integrity of the levees. Whenever possible this work shall be performed from the levee access road. If access to the bottom of the river is required, the work area shall be limited to a 30-foot-wide zone extending outward from the levee at the invert and 15 feet upstream and downstream on either side of the tree to be removed. Hand held equipment shall be used.	Prior to and during maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG

BIOLOGY: ROUTINE MAINTENANCE: CLEANING STORM DRAIN OUTLETS				
BIO-12 Sediment buildup at existing side drains shall be removed on an as needed basis as determined by the LACDPW. The County shall use light equipment to create a swale up to 75 feet long and 10 feet wide, to allow water to drain. Light equipment such as a Caterpillar D-8 or equivalent may enter areas of the river as long as they avoid areas of ponded or flowing water (not including water discharging from the side drain) to remove sediment. Large riparian trees defined as trees with trunks in excess of four inches in diameter at breast height (dbh) shall be avoided. The maintenance area shall be demarcated with flagging. New side drains shall be designed with a rock apron to maintain a clear area large enough to provide hydraulic capacity to maintain flow from a side drain. Equipment shall be introduced into the river by means of an earth ramp constructed on the sideslope in the immediate vicinity, or from an adjacent invert access ramp if within 1,000 feet of the area to be maintained. If the equipment must access the riverbed, care will be taken to minimize impacts to vegetation and to avoid destruction of large trees, defined as trees with trunks in excess of four inches in diameter.	Prior to and during maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG
BIOLOGY: ROUTINE MAINTENANCE: CONTROL OF ODOR FROM PONDS				
BIO-13 In order to drain stagnant water that is causing an odor problem, LACDPW shall dig a swale using a Caterpillar D-6 or its equivalent or may hand shovel a swale, up to 75 feet long and 10 feet wide to allow ponded water to percolate. LACDPW shall notify the Corps and CDFG prior to performing this work. The procedures described in Measure BIO-7 to identify and relocate endangered species from live streams and ponded water shall be followed.	Prior to and during maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG
BIOLOGY: ROUTINE MAINTENANCE: BRIDGE REPAIR				
BIO-14 Whenever practical, repairs to bridges shall be made from the bridge deck. If this is not practical, minimum encroachment upstream and/or downstream of the bridge will be acceptable. The maintenance work area for structural repairs shall be limited to 30 feet on either side of the bridge and under the bridge itself. Equipment shall be introduced into the river by means of an earth ramp constructed on the sideslope in the immediate vicinity, or from an adjacent invert access ramp if within 1,000 feet of the bridge. If the equipment must access the river bed, care shall be taken to minimize impacts to vegetation and to avoid destruction of large trees, defined as trees with trunks in excess of four inches in diameter at breast height (dbh).	Prior to and during maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG

BIOLOGY ROUTINE MAINTENANCE REPAIRS TO BANK PROTECTION				
BIO-15 Structural repairs to levees, side drains, water quality facilities, utility crossings, etc. shall be performed on an as-needed basis to maintain the integrity of the structures. The work area shall be limited to the section of the structure, plus a 30-foot work area extending out from the levee at the invert and upstream and downstream within the 30-foot width of the structure to be repaired.	Prior to and during maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG
BIOLOGY ROUTINE MAINTENANCE MAINTENANCE OF WATER QUALITY FILTERS AND WETLANDS				
BIO-16 Water quality wetland basins and filters shall be installed outside of the river. These facilities shall be planted with wetland plants. The water quality wetland basins and filters shall be maintained on a regular basis, including periodic sediment removal and harvesting removal of wetland plants. Maintenance of these facilities shall occur between August 1st and March 15th. For those basins and filters constructed in areas not subject to Corps or CDFG jurisdiction, and that have not been abandoned or otherwise unmaintained, the Corps and CDFG will not exert jurisdiction unless other circumstances require otherwise.	Prior to and during maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG
BIOLOGY ROUTINE MAINTENANCE NOTIFICATION PROCEDURES				
BIO-17 The Corps and CDFG shall be notified of individual maintenance activities on an ongoing basis, using the notification procedures described in Section 2.13.2. Prior to any maintenance activities, LACDPW shall submit a Maintenance Notification to the Corps and CDFG containing the following information: map showing the maintenance area, current vegetation and impacts, limits of construction disturbance, stream diversions and any pertinent environmental protection measures; description of maintenance activities and schedule; statement on the consistency with NRMP, EIS/EIR, and 404 permit, including compliance with environmental protection measures for threatened and endangered species, water quality, and riparian habitat; description of post-construction restoration efforts. The notification shall be submitted to the Corps and CDFG at least 30 calendar days prior to the planned activities. The Corps and CDFG must respond within the 30 day period, either notifying LACDPW that: (1) the maintenance activities can proceed as planned because they are consistent with the NRMP, EIS/EIR, and conditions of the 404 permit or 1603 Agreement; or (2) the activities cannot proceed as planned. In the latter circumstance, the Corps and CDFG shall encourage LACDPW to submit a revised notification, and/or meet with the Corps and CDFG staffs to discuss inconsistencies or problems. The Corps and CDFG have the discretion to add conditions to the	Prior to maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies	Upon receipt of the Maintenance Notification	Corps and CDFG

authorization for any maintenance activities if needed to ensure compliance with the applicable state and federal laws, regulations, and codes.				
BIOLOGY PROTECTION FOR UPLAND SPECIES AND HABITATS				
BIO-18 Thirty days prior to construction activities in areas of the "upland impact zone" associated with individual NRMP projects, a qualified biologist shall conduct a survey to capture and relocate individual coast horned lizards and coastal western whiptails in order to avoid or minimize take of these sensitive species. Individuals shall be relocated to nearby undisturbed areas with suitable habitat. Pre-construction surveys shall only be conducted in areas dominated by coastal sage scrub or Great Basin sage scrub or if construction will occur within 300 feet of native upland habitat. Results of the surveys and relocation efforts shall be provided to CDFG in the Annual Mitigation Status Report. Collection and relocation of animals shall only occur with the proper scientific collection and handling permits. **BIO-19** Thirty days prior to construction activities in areas of the "upland impact zone" associated with individual NRMP projects, a qualified biologist shall conduct a survey to determine if loggerhead shrike and/or horned lark are nesting. If no nesting is occurring, construction work can proceed. If nesting is occurring, construction work within 300 feet shall be delayed until fledglings have left the nest. Pre-construction surveys shall only be conducted in areas dominated by coastal sage scrub, grassland, or Great Basin sage scrub, or if such habitats would occur within 300 feet of the construction zone. Results of the surveys and relocation efforts shall be provided to CDFG in the Annual Mitigation Status Report. **BIO-20** Thirty days prior to construction activities in areas of the "upland impact zone" associated with individual NRMP projects, a qualified biologist shall conduct a survey to determine if the burrowing owl is present at the site, and the nesting status of the individuals at the site. If nesting is not occurring, construction work can proceed after any owls have been evacuated from the site using CDFG-approved burrow closure procedures and after alternative nest sites have been provided in accordance with the CDFG Staff Report on Burrowing Owl Mitigation (10-17-95). If nesting is occurring, construction work within 500 feet shall be delayed until fledglings have left the nest. Pre-construction surveys shall only be conducted in areas dominated by field crops and grassland, or if such habitats occur within 500 feet of a construction zone. Results of the surveys and relocation efforts shall be provided to CDFG in the Annual Mitigation Status Report.	Prior to construction	Permitee's biologist conducts surveys and relocation efforts, then documents results in Annual Mitigation Status Report to the agencies.	Upon receipt of Annual Mitigation Status Report	CDFG

BIO-21 Thirty days prior to construction activities in all riparian areas within or adjacent to the riverbed, a qualified biologist shall conduct a survey to determine if any tri-colored blackbirds are present at the site, and the status of nesting. If no nesting is occurring, construction work can proceed. If nesting is occurring, construction work shall be delayed until fledglings have left the nest. Results of the surveys shall be provided to CDFG in the Annual Mitigation Status Report. If a riparian or wetland habitat used by blackbirds for nesting is to be removed, it shall be replaced per the procedures in Mitigation Measure BIO-5. **BIO-22** Thirty days prior to construction activities in all riparian areas within or adjacent to the riverbed, a qualified biologist shall conduct a survey to determine if any of the following raptors are nesting in large trees: golden eagle, sharp-shinned hawk, white-tailed kite, northern harrier, and Cooper's hawk. If nesting is not occurring, construction work can proceed. If an active nest is present, construction work within 500 feet shall be delayed until fledglings have left the nest. Results of the surveys and relocation efforts shall be provided to CDFG in the Annual Mitigation Status Report. If an area of riparian woodland used by raptors for nesting is to be removed, it shall be replaced per the procedures and replacement ratios for such woodlands described in Mitigation Measure BIO-5. **BIO-23** Thirty days prior to construction activities in areas of the "upland impact zone" associated with individual NRMP projects, a qualified biologist shall conduct a survey to determine if the San Diego black-tailed jackrabbit is present at the site. If the species is present, a qualified biologist shall capture and relocate individuals to avoid or minimize impacts to this species. Individuals shall be relocated to nearby undisturbed areas with suitable habitat. Pre-construction surveys shall only be conducted in areas dominated by coastal sage scrub or grassland. Results of the surveys and relocation efforts shall be provided to CDFG in the Annual Mitigation Status Report. Collection and relocation of animals shall only occur with the proper scientific collection and handling permits.				
BIO-24 All upland habitats to be permanently removed that support the upland sensitive species noted in measures BIO-18, 19, 20, 21, 22, and 23 shall be replaced on a 1:1 basis concurrent with construction of the project at one of the following locations: (1) in the upland buffer zone at any location within the NRMP project area; or (2) at another disturbed or unvegetated upland locations, such as within utility rights of way, subject to approval by the Corps and CDFG. A restoration and monitoring plan for upland habitat replacement shall be submitted with each Verification Request Forms indicating the nature and	During construction	Upland restoration plans to be reviewed as part of Verification Request Letter.	Upon receipt of Verification Request Letter	CDFG

location of the proposed upland habitat restoration. If some or all of the upland buffer zone is planted with native plants to create upland habitats as part of adjacent land development projects, this habitat can be used for mitigating losses of upland habitats for subsequent projects, subject to the approval of the Corps and CDFG.				
VISUAL RESOURCES				
VS-1 Valencia Company shall utilized ungrouted rip-rap with colors and textures that are harmonious with the natural riverbed and bank materials. The same type, color, and size or rip-rap shall be used throughout the project area, as feasible.	Prior to construction	Permittee includes information on rip-rap design in Verification Request Letter	Upon receipt of Verification Request letters	Corps and CDFG
CULTURAL RESOURCES				
CR-1 Under the Corps' procedures for considering historic properties (33 CFR 325, Appendix C, 5(f)), the Corps is only required to identify, but not evaluate, potentially eligible historic properties within the "permit area" that would be directly affected by upland activities related to the proposed permit. Site CA-LAN-351 occurs in upland portions of the "permit area." Hence, there is no immediate requirement to assess the site's eligibility for listing on the National Register. However, prior to authorizing the installation of bank protection in the vicinity of the site, the Corps shall require Valencia Company to conduct a Phase II evaluation of the site's eligibility. This evaluation must be conducted in coordination with the SHPO and Corps. If the site is determined to be ineligible for listing on the National Register or California Register, no further investigation or data recovery shall be required. If the site appears to be eligible for listing, the Corps shall formally consult with the SHPO to assess the magnitude and type of potential effect. This coordination shall result in a determination of "no effect," "no adverse effect," or "adverse effect." If an adverse effect is identified, the Corps shall notify the Advisory Council for Historic Preservation (ACHP) and coordinate with the SHPO to seek ways to mitigate the impact, such as capping, data recovery, and archival research. Under this circumstance, Corps shall develop a Memorandum of Agreement among the SHPO and ACHP regarding treatment of the site. Upon successful completion of the terms of the MOA, the Corps may proceed with authorizing the installation of bank protection at the site as proposed, or re-locating the bank protection to reduce impacts to the site, as appropriate.	Prior to construction	Permittee provides results of study in Verification Request Letter for this particular area	Upon receipt of the Verification Request Letter	Corps
AIR QUALITY				
AQ-1 A construction traffic and vehicular emissions management plan shall be prepared that incorporates the elements listed below. Copies of the plans must	Prior to construction	Permittee provides plans to local lead agency, Corps, and	Upon receipt of the Verification	Corps and CDFG

also be submitted to the local lead agency for information purposes each time the applicant notifies the Corps and CDFG of an individual project under the permit. At anytime during the construction of the projects under the permit, the applicant must provide reasonable documentation or other evidence of compliance with the plan elements. a. Provide temporary traffic control during all phases of construction activities that affect circulation on public roads to maintain traffic flow b. Schedule construction activities that affect traffic flow on the arterial system to off-peak hours c. Maintain equipment and vehicle engines in good condition and in proposed tune as per manufacturers' specifications and per AQMD rules d. Use electricity from existing nearby power lines rather than from temporary diesel- or gasoline-powered generators, to the extent feasible e. Use propane- or butane-powered on-site mobile equipment instead of gasoline-powered equipment, to the extent feasible **AQ-2** A fugitive dust control plan shall be prepared that incorporates the elements listed below. Copies of the plans must also be submitted to the local lead agency for information purposes each time the applicant notifies the Corps and CDFG of an individual project under the permit. At anytime during the construction of the projects under the permit, the applicant must provide reasonable documentation or other evidence of compliance with the plan elements. a. Apply USEPA approved non-toxic chemical soil stabilizers to all inactive construction areas (i.e., previously graded areas inactive for 5 days or more) b. Water active grading and parking areas at least twice daily during dry season of the year (May 1st through November 1st) c. Enclose, cover, water twice daily, or apply approved soil binders to		CDFG with each Verification Request Letter	Request Letter	

all inactive construction areas (i.e., previously graded areas inactive for 5 days or more) b. Water active grading and parking areas at least twice daily during dry season of the year (May 1st through November 1st) c. Enclose, cover, water twice daily, or apply approved soil binders to exposed stockpiles d. Suspend all excavation and grading operations when instantaneous wind speeds reach 25 mph e. All trucks hauling dirt, sand, silt or other loose materials should be covered or should maintain at least two feet of freeboard f. Sweep paved streets at the end of the day if visible soil material is carried over to adjacent paved roads g. Install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash off mud from trucks leaving the site				
BIOLOGY-CUMULATIVE				
A wildlife conservation easement shall be recorded over approximately 1200 acres on the Santa Clara River from its confluence with Castaic Creek to one-half mile above the Los Angeles Aqueduct and those portions of San Francisquito Creek and the South Fork of the Santa Clara River under Valencia Company's and/or Newhall's ownership, in accordance with and as further described in Section 8 and Exhibit 12 of the Streambed Alteration Agreement, no later than November 1, 2018 to protect existing fish and wildlife resources in perpetuity.	Possibly in phases, but not later than November 1, 2018.	CDFG will approve the form and content of the wildlife conservation easement(s). The conservation easement(s) will be recorded with the Los Angeles County Clerk.	Reporting will be performed at the time the conservation easement is transferred to CDFG.	CDFG

Appendix E Routine Wetland Delineation Data Forms

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DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E1

Project/Site: Cross Valley Connector	Date: 11/13/02
Applicant/Owner: Caltrans	County: LA
Investigator(s): Bonnie Hendricks, Danielle Janowski	State: CA
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Tract No.: –
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Photograph No.: 21, 26 (upstream)
Is the area a potential Problem Area? ☐ Yes ☒ No	Flagged: –
(If needed, explain on reverse.)	Community ID: SCWRF

VEGETATION

Dominant Plant Species	Relative Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1.* Populus fremontii	100%	T	FACW	9.			
2.* Baccharis salicifolia	100%	S	FACW	10.			
3.* Bromus madritensis	50%	H	UPL	11.			
4.* Hirschfeldia incana	50%	H	UPL	12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 2/4 = 50%

Remarks: Cottonwood-Willow Riparian Forest. Dense understory of upland annual species.

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

X Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- X Aerial Photographs
- ____ Other

____ No Recorded Data Available

Field Observations: Moist to ~12"

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- ____ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Within the banks of Santa Clara River floodplain, but outside the ordinary high water of Santa Clara River.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E2

Project/Site: Cross Valley Connector	Date: 11/13/02
Applicant/Owner: Caltrans	County: Los Angeles
Investigator(s): Bonni Dendrick, Danielle Lanourje	State: CA
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Tract No.: —
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Photograph No.: 22
Is the area a potential Problem Area? ☒ Yes ☐ No	Flagged: —
(If needed, explain on reverse.) Drought year promoted upland annual species	Community ID: MFS

VEGETATION

Dominant Plant Species	Relative Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. *Baccharis salicifolia	50%	shrub	FACW	9.			
2. *Tamarix sp.	35%	"	FAC to FACW	10.			
3. Eriogonum fasci.	10%	"	UPL	11.			
4. Artemisia dracu.	5%	"	UPL	12.			
5. *Bromus madrit.	40%	herb	UPL	13.			
6. Hirschfeldia incana	15%	herb	UPL	14.			
7. *Eriastrum densifolium	45%	herb	UPL	15.			
8.				16.			

Bare ground absolute ~80%

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 2/4 = 50% or 2/2 = 100% excluding annuals!

Remarks: Very open mulefat / tamarisk within river floodplain. Understory is sparse cover of upland annual species. Extreme drought conditions over the last year has promoted growth of upland annuals. Excluding annual species vegetation would be dominated by 100% hydrophytic species.

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

X Recorded Data (Describe in Remarks):
- X Stream, Lake, or Tide Gauge
- X Aerial Photographs
- ___ Other

___ No Recorded Data Available HEC-RAS data

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ___ Inundated
- ___ Saturated in Upper 12 Inches
- ___ Water Marks
- ___ Drift Lines
- ___ Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 Inches
- ___ Water-Stained Leaves
- ___ Local Soil Survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks: Within Ordinary High Water Line of Santa Clara River

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E3

Project/Site: Cross Valley Connector Applicant/Owner: Caltrans Investigator(s): Bonnie Hendricks & Danielle Jannourji	Date: 11/14/02 County: Los Angeles State: CA
Do Normal Circumstances exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No Is the area a potential Problem Area? ☐ Yes ☒ No (If needed, explain on reverse.)	Tract No.: — Photograph No.: 23 Flagged: — Community ID: SWS

VEGETATION

Dominant Plant Species	relative Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1.* Salix exigua	50%	S	OBL	9.			
2.* Arundo donax	50%	S	FACW	10.			
3.* Bromus madritensis	95%	H	UPL	11.			
4. Hirschfeldia incana	5%	H	UPL	12.			
5. Moss spp.	100%	Crypto	?	13.			
6.				14.			
7.				15.			
8.				16.			

bare sand = 60% absolute

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 2/3 = 67%

Remarks: Southern willow scrub - open habitat

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

X Recorded Data (Describe in Remarks):
- X Stream, Lake, or Tide Gauge
- X Aerial Photographs
- ___ Other

___ No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Moist on surface

Wetland Hydrology Indicators:

Primary Indicators:
- ___ Inundated
- ___ Saturated in Upper 12 Inches
- ___ Water Marks
- ___ Drift Lines
- X Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 Inches
- ___ Water-Stained Leaves
- ___ Local Soil Survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks: Within high water mark (OHW) of Santa Clara River

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E4

Project/Site: Cross Valley Connector	Date: 11/14/02
Applicant/Owner: Caltrans	County: Los Angeles
Investigator(s): Bonnie Hendricks + Danielle Tanouryi	State: CA
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Tract No.: —
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Photograph No.: 24
Is the area a potential Problem Area? ☐ Yes ☒ No	Flagged: —
(If needed, explain on reverse.)	Community ID: Mulefat Scrub

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1.* Baccharis salicifolia	75%	S	FACW	9.			
2.* Tamarix sp.	20%	S	FAC to FACW	10.			
3. ~~Salix exigua~~	~~5%~~	~~S~~		11.			
4.* Bromus madritensis	100%	H	UPL	12.			
5. Artemisia dracunc.	5%	S	UPL	13.			
6. Moss spp.	100%	crypto	?	14.			
7. Arundo donax (common outside radius)			FACW	15.			
8.				16.			

~ 50% bare sand w/ cryptogammic crusts

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 2/3 = 67%

Remarks: Mulefat/Tamarisk within river floodplain.

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

X Recorded Data (Describe in Remarks):
- X Stream, Lake, or Tide Gauge
- X Aerial Photographs
- ____ Other

____ No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: ____ (in.)

Depth to Saturated Soil: ____ (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- X Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Moist on surface. Within ordinary high water of Santa Clara River

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E5

Project/Site: Cross Valley Connector Applicant/Owner: Caltrans Investigator(s): Bonnie Hendricks, Danielle Tanouyil	Date: 11/14/02 County: Los Angeles State: CA
Do Normal Circumstances exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No Is the area a potential Problem Area? ☐ Yes ☒ No (If needed, explain on reverse.)	Tract No.: — Photograph No.: 15 + 16 Flagged: — Community ID: MFS

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1.* Baccharis salicifolia	95%	S	FACW	9.			
2. Artemisia tridentata	2	S	NI	10.			
3. Corethrogyne filag.	2	S	UPL	11.			
4. Populus fremontii	1	S	FACW	12.			
5. (dead sapling)				13.			
6.* bare sand				14.			
7.* Bromus mad.	mostly bare	H	UPL	15.			
8. Nitrophilia occ.	"	H	UPL	16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 1/1 = 100% (in 4' interior channel) mostly bare sand
1/2 = 50% (in 12' exterior to channel)

Remarks: No herbaceous layer in sandy channel; however Bromus madritensis co-occurs with Baccharis salicifolia in high areas

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- X Drainage Patterns in Wetlands only for 3-4' wide

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Small tributary to Santa Clara River, parallel to berm. Culvert through another berm built for road. Disking adjacent to channel. Wetland hydrology only for interior 3-4' width.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker Eb

Project/Site:	Cross Valley Connector	Date:	11/14/02
Applicant/Owner:	Caltrans	County:	L.A.
Investigator(s):	Bonnie Hendricks, Danielle Tanouryi	State:	CA

Do Normal Circumstances exist on the site?	☒ Yes	☐ No	Tract No.:	–
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Photograph No.:	
Is the area a potential Problem Area?	☐ Yes	☒ No	Flagged:	–
(If needed, explain on reverse.)			Community ID:	MFS

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1.* Baccharis salic.	100%	S	FACW	9.			
2.* Muhlenbergia rigens	80%	H	UPL	10.			
3.* Brassica nigra	10%	H	UPL	11.			
4. Nasella sp	10%	H	UPL	12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 1/3 = 33%

Remarks: Dead thatch layer. Herbaceous spp. not identifiable
bunchgrass ~~[illegible]~~; Muhlenbergia rigens should be rated as FAC, but not included in National Wetland List.

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

____ Recorded Data (Describe in Remarks):	Wetland Hydrology Indicators:
____ Stream, Lake, or Tide Gauge	Primary Indicators:
____ Aerial Photographs	____ Inundated
____ Other	____ Saturated in Upper 12 Inches
X No Recorded Data Available	____ Water Marks
	____ Drift Lines
	____ Sediment Deposits
Field Observations:	X Drainage Patterns in Wetlands
	Secondary Indicators (2 or more required):
Depth of Surface Water: NA (in.)	____ Oxidized Root Channels in Upper 12 Inches
	____ Water-Stained Leaves
Depth to Free Water in Pit: NA (in.)	____ Local Soil Survey Data
	____ FAC-Neutral Test
Depth to Saturated Soil: NA (in.)	____ Other (Explain in Remarks)

Remarks: Earthen drainage channel parallel to road, but only narrow 3' channel associated with wider riparian scrub.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Central area of site

Greenwich/GPS Time _____

Aerial Marker E7

Project/Site:	Cross Valley Connector	Date:	11/14/02
Applicant/Owner:	Caltrans	County:	Los Angeles
Investigator(s):	Bonnie Hendricks, Danielle Tanouryi	State:	CA

Do Normal Circumstances exist on the site?	☒ Yes	☐ No	Tract No.:	—
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Photograph No.:	18
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes	☒ No	Flagged:	—
			Community ID:	MFS

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. *Baccharis salic.	90%	S	FACW	9.			
2. Populus fremo	5%	S	FACW	10.			
3. Salix lasiol	5%	S	OBL	11.			
4. *Melilotus sp.	50%	H	FAC to FACU	12.			
5. *Polypogon mon	50%	H	FACW	13.			
6. Cyperus sp.	1%	H	FACW to OBL	14.			
7. Xanthium strum.	1%	H	FAC+	15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 2/3 = 67%

Remarks:

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: — (in.)

Depth to Free Water in Pit: — (in.)

Depth to Saturated Soil: saturated on surface (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- X Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- + FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Some pooling water in center of MFS (remaining from flow from earlier rain this fall or runoff)

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E8

Project/Site: Cross Valley Connector Applicant/Owner: Caltrans Investigator(s): Bonnie Hendricks + Danielle Tanouye	Date: 11/14/02 County: Los Angeles State: CA
Do Normal Circumstances exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No Is the area a potential Problem Area? ☐ Yes ☒ No (If needed, explain on reverse.)	Tract No.: — Photograph No.: — Flagged: — Community ID: NNG

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1.* Bromus hord	60	H	UPL	9.			
2.* Heterotheca grand	20	H	UPL	10.			
3. Eriogonum fas	15	S	UPL	11.			
4.* Artemisia cal	30	S	UPL	12.			
5.* Croton setig	55	S	UPL	13.			
6.* Centaurea mel	20	H	UPL	14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 0/5 = 0%

Remarks: Predominantly herbaceous w/ short shrub layer

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- ____ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: toe of slope on flat near MFS but no hydrology indicators

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E9

Project/Site: Cross Valley Connector	Date: 11/14/02
Applicant/Owner: Caltrans	County: Los Angeles
Investigator(s): Bonnie Hendricks, Danielle Tanowitz	State: CA
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Tract No.: —
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Photograph No.: —
Is the area a potential Problem Area? ☐ Yes ☒ No	Flagged: —
(If needed, explain on reverse.)	Community ID: CWRF

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Populus fremo.	100	T	FACW	9.			
2. Baccharis sal	100	S	FACW	10.			
3. Cyperus sp.	100	H	FACW/OBL	11.			
4.				12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 3/3 = 100%

Remarks: Narrow, steep sided drainage

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: ~~NA~~ 23" (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: Surface (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- X Saturated in Upper 12 Inches
- ____ Water Marks
- X Drift Lines
- ____ Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Flowing water in channel

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E 10

Project/Site:	Cross Valley Connector	Date:	11/14/02
Applicant/Owner:	Caltrans	County:	Los Angeles
Investigator(s):	Bonnie Hendricks, Danielle Tanaurji	State:	CA

Do Normal Circumstances exist on the site?	☒ Yes	☐ No	Tract No.:	—
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Photograph No.:	—
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes	☒ No	Flagged:	—
			Community ID:	CWRF

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Populus fremontii	100%	T	FACW	9.			
2. Baccharis salicifolia	80%	S	FACW	10.			
3. Artemisia tridentata	20%	S	NI	11.			
4. Bromus diandrus	100%	H	UPL	12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 2/4 = 50%

Remarks: Outer, higher bench area of CWRF

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:
- Depth of Surface Water: N/A (in.)
- Depth to Free Water in Pit: N/A (in.)
- Depth to Saturated Soil: N/A (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- ____ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Higher bench outside channel. No hydrology indicators

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E11

Project/Site:	Cross Valley Connector	Date:	11/14/02
Applicant/Owner:	Caltrans	County:	Los Angeles
Investigator(s):	Bonnie Hendricks, Danielle Tanouji	State:	CA

Do Normal Circumstances exist on the site?	☒ Yes	☐ No	Tract No.:	—
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Photograph No.:	18
Is the area a potential Problem Area?	☐ Yes	☒ No	Flagged:	—
(If needed, explain on reverse.)			Community ID:	MFS

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Baccharis salicifolia	80	S	FACW	9.			
2. Salix exigua	20	S	OBL	10.			
3.				11.			
4.				12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 2/2 = 100%

Remarks: Dense mulefat cover, no understory

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: Surface (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- X Saturated in Upper 12 Inches
- ____ Water Marks
- X Drift Lines
- X Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Tributary to Santa Clara River.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____

Aerial Marker E12
In line with E7

Project/Site: Cross Valley Connector Applicant/Owner: Caltrans Investigator(s): Bonnie Bendrulis, Danielle Tarangioli	Date: 11/14/02 County: Los Angeles State: CA
Do Normal Circumstances exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No Is the area a potential Problem Area? ☐ Yes ☒ No (If needed, explain on reverse.)	Tract No.: — Photograph No.: 18 Flagged: — Community ID: MFS

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Baccharis salicifolia	100	S	FACW	9.			
2. Melilotus sp.	50	H	FAC or FACU	10.			
3. Polypogon monspeliensis	20	H	FACW	11.			
4. Cyperus sp.	20	H	FACW to OBL	12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

20% bare sand in channel

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 3/4 = 75%

Remarks: Mulefat Scrub

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: surface (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- X Saturated in Upper 12 Inches
- ____ Water Marks
- X Drift Lines
- X Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Part of same MFS area as E7 and E11.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E13

Project/Site:	Cross Valley Connector	Date:	11/14/02
Applicant/Owner:	Caltrans	County:	Los Angeles
Investigator(s):	Bonnie Hendricks, Danielle Tarowji	State:	CA

Do Normal Circumstances exist on the site?	☐ Yes ☒ No	Tract No.:	—
Is the site significantly disturbed (Atypical Situation)? Asphalt piles encroaching on edge	☒ Yes ☐ No	Photograph No.:	19
Is the area a potential Problem Area?	☐ Yes ☒ No	Flagged:	—
(If needed, explain on reverse.)		Community ID:	MFS

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. *Baccharis salic.	90%	S	FACW	9.			
2. Eucalyptus	5%	S		10.			
3. *Polygonum mon.	100%	H	FACW	11.			
4. Cyperus dist	100% relative cover			12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 2/2 = 100%

Remarks: Mulefat scrub. Edge is disturbed by dumping of asphalt pile. Only encroaches into channel by a few feet in places.

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

_____ Recorded Data (Describe in Remarks):
- _____ Stream, Lake, or Tide Gauge
- _____ Aerial Photographs
- _____ Other

X No Recorded Data Available

Field Observations:

Depth of Surface Water: — (in.)

Depth to Free Water in Pit: — (in.)

Depth to Saturated Soil: surface (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- _____ Inundated
- _____ Saturated in Upper 12 Inches
- _____ Water Marks
- _____ Drift Lines
- _____ Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- _____ Oxidized Root Channels in Upper 12 Inches
- _____ Water-Stained Leaves
- _____ Local Soil Survey Data
- _____ FAC-Neutral Test
- _____ Other (Explain in Remarks)

Remarks: Straight drainage with artificial berm on one side and asphalt piles on other side.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E14

Project/Site: Cross Valley Connector Applicant/Owner: Caltrans Investigator(s): Bonnie Dunbucks & Danielle Tanouye	Date: 11/14/02 County: Los Angeles State: CA
Do Normal Circumstances exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No Is the area a potential Problem Area? ☐ Yes ☒ No (If needed, explain on reverse.)	Tract No.: — Photograph No.: — Flagged: — Community ID: MFS

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1.* Baccharis sal	40	S	FACW	9.			
2.* Ribes sp.	20	S	unknown	10.			
3.* Sambucus mex	20	S	FAC	11.			
4.* Artemisia cali	20	S	UPL	12.			
5. ~~[illegible]~~				13.			
6.* Hirschfeldia	50	H	UPL	14.			
7.* Bromus rub	50	H	UPL	15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 2/5 = 40%

Remarks:

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: 5' channel with scouring + bare cobble. Total 15' width of riparian scrub includes banks and area not flooded.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Near Centerline

Greenwich/GPS Time _____

Aerial Marker E15

Project/Site:	Cross Valley Connector	Date:	11/14/02
Applicant/Owner:	Caltrans	County:	Los Angeles
Investigator(s):	Bonnie Hendricks & Danielle Tanouye	State:	CA

Do Normal Circumstances exist on the site?	☒ Yes	☐ No		Tract No.:	—
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No		Photograph No.:	20
Is the area a potential Problem Area?	☐ Yes	☒ No		Flagged:	—
(If needed, explain on reverse.)				Community ID:	Southern Riparian Scrub

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1.* Baccharis salicifolia	40	S	FACW	9.			
2.* Populus fremontii	40	S	FACW	10.			
3. Salix exigua	10	S	OBL	11.			
4. Tamarix sp	10	S	FACW to OBL	12.			
5.* Muhlenbergia rigens	20	H	?	13.			
6.* Bromus hal.	80	H	UPL	14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 2/4 = 50%

Remarks: 300 feet × 12 feet

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- X Drainage Patterns in Wetlands Only in 2' wide

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: 2' wide scoured channel; 12' wide habitat, very dry. No indicators in broader habitat area. Trib.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E16

Project/Site:	Cross Valley Connector	Date:	11/15/02
Applicant/Owner:	Caltrans	County:	Los Angeles
Investigator(s):	Bonnie Hendricks	State:	CA

Do Normal Circumstances exist on the site?	☒ Yes	☐ No	Tract No.:	—
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Photograph No.:	—
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes	☒ No	Flagged:	—
			Community ID:	MFS

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. *Baccharis salicifolia	100%	S	FACW	9.			
2. Moss spp.				10.			
3.				11.			
4.				12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 1/1 = 100 %

Remarks: Dense mulefat, no understory.

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

X Recorded Data (Describe in Remarks):
- X Stream, Lake, or Tide Gauge
- X Aerial Photographs
- ___ Other

___ No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ___ Inundated
- ___ Saturated in Upper 12 Inches
- ___ Water Marks
- ___ Drift Lines
- ___ Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 Inches
- ___ Water-Stained Leaves
- ___ Local Soil Survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks: Within ordinary high water for Santa Clara River.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E17

Project/Site:	Cross Valley Connector	Date:	11/15/02
Applicant/Owner:	Caltrans	County:	LA
Investigator(s):	Bonnie Hendricks	State:	CA

Do Normal Circumstances exist on the site?	☒ Yes	☐ No	Tract No.:	—
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Photograph No.:	—
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes	☒ No	Flagged:	—
			Community ID:	SWS/MFS

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1.* Arundo donax	50%	S	FACW	9.			
2.* Baccharis salicifolia	50%	S	FACW	10.			
3. Salix exigua	5%	S	OBL	11.			
4.* Populus fremontii	100%	T	FACW	12.			
5.* Bromus madritensis	50%	H	UPL	13.			
6.* Erastrum sp.	50%	H	UPL	14.			
7.				15.			
8.				16.			

50% bare sand / drainage lines within floodplain

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 3/5 = 60%

Remarks: Open arundo, mulefat / southern willow scrub

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

X Recorded Data (Describe in Remarks):
- X Stream, Lake, or Tide Gauge
- X Aerial Photographs
- ___ Other

___ No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ___ Inundated
- ___ Saturated in Upper 12 Inches
- ___ Water Marks
- ___ Drift Lines
- X Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 Inches
- ___ Water-Stained Leaves
- ___ Local Soil Survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks: within Ordinary high water of Santa Clara River

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker EB

Project/Site: Cross Valley Connector		Date: 11/15/02	
Applicant/Owner: Caltrans		County: LA	
Investigator(s): Bonnie Hendricks		State: CA	
Do Normal Circumstances exist on the site?	☒ Yes ☐ No	Tract No.: —	
Is the site significantly disturbed (Atypical Situation)?	☐ Yes ☒ No	Photograph No.: —	
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes ☒ No	Flagged: —	
		Community ID: NNG	

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Bromus madritensis	50%	H	UPL	9.			
2. Centaurea sp.	25%	H	UPL	10.			
3. Hirschfeldia incana	25%	H	UPL	11.			
4.				12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 0/3 = 0%

Remarks: Non-native grassland on edge of CSS + edge of MFS

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- ____ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Just outside floodplain of Santa Clara River. No indicators

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E 19

Project/Site: Cross Valley Connector	Date: 11/15/02
Applicant/Owner: Caltrans	County: LA
Investigator(s): Bonnie Hendricks	State: CA
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Tract No.: —
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No Yes filled + plowed but historic condition	Photograph No.: 1
Is the area a potential Problem Area? ☐ Yes ☒ No (If needed, explain on reverse.)	Flagged: Overhang of CWRF Community ID: (Ruderal)

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1.* Bromus mediterensis	75%	H	UPL	9.			
2.* Hirschfeldia incana	20%	H	UPL	10.			
3. Centaurea melitensis	5%	H	UPL	11.			
4. Marrubium?		H	UPL	12.			
5. Avena sp.		H	UPL	13.			
6.* Populus fremontii	100%	T	FACW	14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 1/3 = 30%

Remarks: Just outside river floodplain. Disked field adjacent. Cottonwood willow riparian forest - canopy overhang

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- ____ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: About 5' above floodplain. No hydro indicators.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E20

Project/Site:	Cross Valley Connector	Date:	11/15/02
Applicant/Owner:	Caltrans	County:	LA
Investigator(s):	Bonnie Hendricks	State:	CA

Do Normal Circumstances exist on the site?	☒ Yes	☐ No	Tract No.:	—
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Photograph No.:	2
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes	☒ No	Flagged:	–
			Community ID:	CWRF

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1.* Baccharis salicifolia	100%	T	FACW	9.			
2.* Populus fremontii	100%	T	FACW	10.			
3.				11.			
4.				12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 2/2 = 100 %

Remarks: Cottonwoods rooted in Santa Clara River floodplain channel with dense mulefat. No understory within area.

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

X Recorded Data (Describe in Remarks):
- X Stream, Lake, or Tide Gauge
- X Aerial Photographs
- ____ Other

____ No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Within ordinary high water of Santa Clara River.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E21

Project/Site:	Cross Valley Connector	Date:	11/15/02
Applicant/Owner:	Caltrans	County:	LA
Investigator(s):	Bonnie Hendricks	State:	CA

Do Normal Circumstances exist on the site?	☒ Yes	☐ No	Tract No.:	—
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Photograph No.:	3 ?
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes	☐ No	Flagged:	—
			Community ID:	CWRF

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1.* Populus fremontii	100%	T	FACW	9.			
2. Tamarix sp.	10%	S	FAC to FACW	10.			
3. Baccharis salicifolia	10%	S	FACW	11.			
4.* Sambucus mexicana	50%	S	FAC	12.			
5.* Marrub.	30%	S	UPL	13.			
6.* Bromus madritensis	60%	H	UPL	14.			
7.* Hirschfeldia incana	40%	H	UPL	15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 2/5 = 40%

Remarks: Upper floodplain Cottonwood willow riparian forest

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- ____ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: upper floodplain; not within ordinary high water or Santa Clara River

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E22

Project/Site: Cross Valley Connector	Date: 11/15/02
Applicant/Owner: Caltrans	County: LA
Investigator(s): Bonnie Hendricks	State: CA
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Tract No.: —
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Photograph No.: 4
Is the area a potential Problem Area? ☐ Yes ☐ No	Flagged: —
(If needed, explain on reverse.)	Community ID: AFS (~120' wide)

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1.* Bromus mediterensis	80	H	UPL	9.			
2.* Hirschfeldia incana	20	H	UPL	10.			
3.* Eriodiction trichocalyx	30	S	UPL	11.			
4.* Opuntia sp.	20	S	UPL	12.			
5.* Artemisia tridentata	30	S	UPL	13.			
6.* Baccharis salicifolia	20	S	FACW	14.			
7. Lepidospartum (outside)		S	NI	15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 1/6 = 17%

Remarks: alluvial fan scrub

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

____ Recorded Data (Describe in Remarks):	Wetland Hydrology Indicators:
____ Stream, Lake, or Tide Gauge	Primary Indicators:
____ Aerial Photographs	____ Inundated
____ Other	____ Saturated in Upper 12 Inches
X No Recorded Data Available	____ Water Marks
	____ Drift Lines
	____ Sediment Deposits
Field Observations:	____ Drainage Patterns in Wetlands
Depth of Surface Water: NA (in.)	Secondary Indicators (2 or more required):
	____ Oxidized Root Channels in Upper 12 Inches
Depth to Free Water in Pit: NA (in.)	____ Water-Stained Leaves
	____ Local Soil Survey Data
Depth to Saturated Soil: NA (in.)	____ FAC-Neutral Test
	____ Other (Explain in Remarks)

Remarks: Upper floodplain of Santa Clara River, not within ordinary high water. No indicators

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker E23

Project/Site:	Cross Valley Connector	Date:	11/15/02
Applicant/Owner:	Caltrans	County:	LA
Investigator(s):	Bonnie Hendricks	State:	CA

Do Normal Circumstances exist on the site?	☒ Yes	☐ No	Tract No.:	—
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Photograph No.:	5
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes	☒ No	Flagged:	—
			Community ID:	MFS

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Baccharis salicif.	100%	S	FACW	9.			
2. Hirschfeldia incana	100%	H	UPL	10.			
3.				11.			
4.				12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 1/2 = 50%

Remarks: Isolated area of Mulefat Scrub-disturbed

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- ____ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Outside floodplain of Santa Clara River, opposite side of road. Road severed Isolated levee area. No hydrology indicators

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____

Aerial Marker (S1) E 24

Project/Site: Cross Valley Connector		Date: 11/15/02	
Applicant/Owner: Caltrans		County: LA	
Investigator(s): Bonnie Hendricks		State: CA	
Do Normal Circumstances exist on the site?	☐ Yes	☒ No	Tract No.:
Is the site significantly disturbed (Atypical Situation)? Soil disturbance from heavy equipment	☒ Yes	☐ No	Photograph No.:
Is the area a potential Problem Area? more recent than last flood event in this higher area.	☐ Yes	☒ No	Flagged:
(If needed, explain on reverse.)			Community ID: AFS

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. *Lepidospartum squ.	30%	S	NI	9.			
2. *Baccharis salicifolia	30%	S	FACW	10.			
3. Eriodictyon trichocalyx	20%	S	UPL	11.			
4. Eriogonum fasc.	20%	S	UPL	12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 1/2 = 50%

Remarks: Sparse to no understory. Where present, Hirschfeldia incana and Eriastrum

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- ____ No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- ____ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Within 100-yr floodplain of Santa Clara River, but no evidence of recent flooding or saturation

(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____

Aerial Marker S(2)

Project/Site: Cross Valley Connector Santa Clara River	Date: June 27 2002
Applicant/Owner: City of Santa Clarita	County: Los Angeles
Investigator(s): Ryan Roberts	State: CA
Do Normal Circumstances exist on the site? ☑ Yes ☐ No	Tract No.:
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☑ No	Photograph No.: 2 + 3
Is the area a potential Problem Area? ☐ Yes ☑ No	Flagged:
(If needed, explain on reverse.)	Community ID: Mule Fat Scrub (wet mixed scrub)

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Baccharis salicifolia		S	FacW	9.			
2.				10.			
3. Salix lasiandra		T	FacW	11.			
4.				12.			
5. Bromus madritensis		G	UPl	13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 2/3 = 66% of Dominants are Obl, Facw, Fac

Remarks: Bromus madritensis is dominant relative to other ground layer species, but is not a dominant plant relative to all other vegetation.

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: — (in.)

Depth to Free Water in Pit: — (in.)

Depth to Saturated Soil: — (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- X Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data ✓
- X FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Sampling point is within the ordinary high water mark for the Santa Clara River.

(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____

Aerial Marker (3)

Project/Site:	Cross Valley Connector, Santa Clara River	Date:	June 27 2002
Applicant/Owner:	The City of Santa Clarita	County:	Los Angeles
Investigator(s):	Ryan Roberts	State:	CA

Do Normal Circumstances exist on the site?	☑ Yes	☐ No	Tract No.:
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☑ No	Photograph No.: 4, 5, 7, 8
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes	☑ No	Flagged:
			Community ID: Southern willow scrub (Dry willow woodland)

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Salix lasiandra		T	FacW	9.			
2.				10.			
3. Baccharis salicifolia		S	FacW	11.			
4.				12.			
5. Bromus madritensis		G	UPl	13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 2/3 = 66% of dominants are Obl, FacW, Fac

Remarks: Bromus madritensis is dominant relative to the other ground layer species, but is not a dominant plant relative to all other vegetation.

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: – (in.)

Depth to Free Water in Pit: – (in.)

Depth to Saturated Soil: – (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- X Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- X FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Sampling Point is within the ordinary high water mark for the Santa Clara river.

Small drainage flows into this community at the South east end
See sheet (5) and Photos 7 + 8

(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____

Aerial Marker S(4)

Project/Site:	Gross Valley Connector	Date:	June 27 2002
Applicant/Owner:	The City of Santa Clarita	County:	Los Angeles
Investigator(s):	Ryan Roberts	State:	Ca

Do Normal Circumstances exist on the site?	☑ Yes	☐ No	Tract No.:
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☑ No	Photograph No.: 6
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes	☑ No	Flagged:
			Community ID: Great Basin Scrub

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Artemisia tridentada		S	NI	9.			
2.				10.			
3. Bromus madritensis		G	UPl	11.			
4.				12.			
5. Brassica Nigra		G	NI	13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 0/3 = 0% of dominants are Obl, Facw or Fa

Remarks: No wetland vegetation

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: — (in.)

Depth to Free Water in Pit: — (in.)

Depth to Saturated Soil: — (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- ____ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: No Hydrology Sign. Higher bermed area.

(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____

Aerial Marker 5(5)

Project/Site:	Cross Valley Connector Santa Clara River	Date:	June 27 2002
Applicant/Owner:	The City of Santa Clarita	County:	Los Angeles
Investigator(s):	Ryan Roberts	State:	Ca

Do Normal Circumstances exist on the site?	☑ Yes	☐ No	Tract No.:	
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☑ No	Photograph No.:	6
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes	☑ No	Flagged:	
			Community ID:	Mule Fat Scrub (wet mixed scrub)

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Baccharis salicifolia		S	Facw	9.			
2. Artemisia tridentada		S	NI	10.			
3.				11.			
4.				12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 1/2 = 50% of dominants are obl, Facw or Fa

Remarks:

• = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):

- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

- Depth of Surface Water: — (in.)
- Depth to Free Water in Pit: — (in.)
- Depth to Saturated Soil: — (in.)

Wetland Hydrology Indicators:

Primary Indicators:

- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- X FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Small drainage 2½ feet - 5 feet wide between power line clearing and man-made Berm. Plants are ≈ 50 feet long.

(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____

Aerial Marker 5 (6)

Project/Site:	Cross Valley Connector Santa Clara River	Date:	June 28 2002
Applicant/Owner:	The City of Santa Clarita	County:	Los Angeles
Investigator(s):	Ryan Roberts	State:	CA

Do Normal Circumstances exist on the site?	☑ Yes	☐ No	Tract No.:
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☑ No	Photograph No.: 9, 10
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes	☑ No	Flagged:
			Community ID: Wet herbaceous

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Polygogon monospeliensis		G	FacW	9.			
2.				10.			
3.				11.			
4.				12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 1/1 = 100% of Dominant species are FacW

Remarks:

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

— Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other

— No Recorded Data Available

Field Observations:

Depth of Surface Water: _____ (in.)

Depth to Free Water in Pit: 5 (in.)

Depth to Saturated Soil: 1 (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- X Saturated in Upper 12 Inches
- ____ Water Marks
- X Drift Lines
- X Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- X FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks:

(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____ Aerial Marker 5(7)

Project/Site:	Cross Valley Connector Santa Clara River	Date:	June 28 2002
Applicant/Owner:	The City of Santa Clarita	County:	Los Angeles
Investigator(s):	Ryan Roberts	State:	CA

Do Normal Circumstances exist on the site?	☒ Yes	☐ No	Tract No.:	
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Photograph No.:	—
Is the area a potential Problem Area?	☐ Yes	☒ No	Flagged:	
(If needed, explain on reverse.)			Community ID:	Ruderal

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Salsola tragus		G	FACU	9.			
2. Brassica sp.		G	NI	10.			
3.				11.			
4.				12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 0% = 0% of dominant species obl, facw or fac

Remarks:

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: — (in.)

Depth to Free Water in Pit: — (in.)

Depth to Saturated Soil: — (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- ____ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: No Sign of Hydrology

(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____

Aerial Marker 5 (8)

Project/Site:	Cross Valley Connector/Santa Clara River	Date:	June 28 2002
Applicant/Owner:	The City of Santa Clarita	County:	Los Angeles
Investigator(s):	Ryan Roberts	State:	CA

Do Normal Circumstances exist on the site?	☑ Yes ☐ No	Tract No.:	
Is the site significantly disturbed (Atypical Situation)?	☐ Yes ☑ No	Photograph No.:	10
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes ☑ No	Flagged:	
		Community ID:	Dry open floodplain

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. —				9.			
2.				10.			
3.				11.			
4.				12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks: Baccharis salicifolia and Arundo donax occur within stream but scattered in the polygon. Not in sufficient cover to warrant Dominance determination

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):

- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water: — (in.)

Depth to Free Water in Pit: — (in.)

Depth to Saturated Soil: — (in.)

Wetland Hydrology Indicators:

Primary Indicators:

- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: Sampling point within active channel

(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____

Aerial Marker S(9)

Project/Site:	Cross Valley Connector / Santa Clara River	Date:	June 28 2002
Applicant/Owner:	The City of Santa Clarita	County:	Los Angeles
Investigator(s):	Ryan Roberts	State:	CA

Do Normal Circumstances exist on the site?	☑ Yes	☐ No	Tract No.:	
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☑ No	Photograph No.:	13
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes	☑ No	Flagged:	unvegetated wus
			Community ID:	~~Scrub~~

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Artemisia tridentada		S	NI	9.			
2. Lepidium squamatum		S	NI	10.			
3.				11.			
4. Bromus madritensis		G	UPl	12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 0/3 = 0% of dominant species Obl, Facw or Fa

Remarks: Lepidium squamatum is labeled NI indicating insuffecient information, ~~however it is well known that this plant is at least a Facw~~ However, channel is primarily (>75%) unvegetated

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):

- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

- Depth of Surface Water: – (in.)
- Depth to Free Water in Pit: – (in.)
- Depth to Saturated Soil: – (in.)

Wetland Hydrology Indicators:

Primary Indicators:

- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- X Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks:

(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____

Aerial Marker S (16)

Project/Site:	Cross Valley Connector Santa Clara River	Date:	June 28 2002
Applicant/Owner:	The City of Santa Clarita	County:	Los Angeles
Investigator(s):	Ryan Roberts	State:	CA

Do Normal Circumstances exist on the site?	☑ Yes	☐ No	Tract No.:
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☑ No	Photograph No.: 14
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes	☑ No	Flagged:
			Community ID: Chaparral / Coastal Scrub (Alluvial Fan Scrub)

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Eriodyction crassifolium		S	NI	9.			
2. Adenostoma fasciculatum		S	NI	10.			
3. Artemisia californica		S	NI	11.			
4.				12.			
5.				13.			
6.				14.			
7. Bromus madritensis		G	UPI	15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 0/4 = 0% dominant species are Fac, FacW or OBL

Remarks:

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

____ Recorded Data (Describe in Remarks):	Wetland Hydrology Indicators:
____ Stream, Lake, or Tide Gauge	Primary Indicators:
____ Aerial Photographs	____ Inundated
____ Other	____ Saturated in Upper 12 Inches
X No Recorded Data Available	____ Water Marks
	____ Drift Lines
Field Observations:	____ Sediment Deposits
Depth of Surface Water: — (in.)	____ Drainage Patterns in Wetlands
Depth to Free Water in Pit: — (in.)	Secondary Indicators (2 or more required):
Depth to Saturated Soil: — (in.)	____ Oxidized Root Channels in Upper 12 Inches
	____ Water-Stained Leaves
	____ Local Soil Survey Data
	____ FAC-Neutral Test
	____ Other (Explain in Remarks)

Remarks: No Hydrology indicators

(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____

Aerial Marker 5(11)

Project/Site:	Cross Valley Connector Santa Clara River	Date:	June 28 2002
Applicant/Owner:	City of Santa Clarita	County:	Los Angeles
Investigator(s):	Ryan Roberts	State:	CA

Do Normal Circumstances exist on the site?	☒ Yes	☐ No	Tract No.:
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Photograph No.: 15
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes	☒ No	Flagged:
			Community ID: Alluvial Fan Scrub (Mainland Cherry Forest

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Prunus ilicifolia		S	(NI)	9.			
2.				10.			
3. Bromus madritensis		G	UPI	11.			
4.				12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 0/2 = 0% dominant species OBL, FACW or FAC

Remarks:

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):

- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

- Depth of Surface Water: — (in.)
- Depth to Free Water in Pit: — (in.)
- Depth to Saturated Soil: — (in.)

Wetland Hydrology Indicators:

Primary Indicators:

- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- ____ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: No Signs of Hydrology

(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____

Aerial Marker 5/(12)

Project/Site: Cross Valley Connector, Santa Clara River Applicant/Owner: The City of Santa Clarita Investigator(s): Ryan Roberts	Date: July 28 2002 County: Los Angeles State: CA
Do Normal Circumstances exist on the site? ☑ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☑ No Is the area a potential Problem Area? ☐ Yes ☐ No (If needed, explain on reverse.)	Tract No.: — Photograph No.: — Flagged: — Community ID: Non-Native grassland

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Bromus madritensis		G	Val	9.			
2. Brassica sp.		G	NI	10.			
3.				11.			
4.				12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 0/2 = 0% dominant species OBL, FACW or Fa

Remarks:

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):
- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:
- Depth of Surface Water: — (in.)
- Depth to Free Water in Pit: — (in.)
- Depth to Saturated Soil: — (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- ____ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: No Hydrology indicators

(1987 COE Wetlands Delineation Manual)

Greenwich/GPS Time _____

Aerial Marker 5 (13)

Project/Site:	Cross Valley Connector	Date:	June 28 2002
Applicant/Owner:	The City of Santa Clarita	County:	Los Angeles
Investigator(s):	Ryan Roberts	State:	California

Do Normal Circumstances exist on the site?	☑ Yes	☐ No	Tract No.:	—
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☑ No	Photograph No.:	—
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐ Yes	☑ No	Flagged:	—
			Community ID:	Great Basin Scrub

VEGETATION

Dominant Plant Species	Plant Cover (%)	Stratum	Indicator	Dominant Plant Species	Plant Cover (%)	Stratum	Indicator
1. Artemisia tridentada		S	NI	9.			
2.				10.			
3. Bromus madritensis		G	UPL	11.			
4.				12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 0% 0% dominant species are FACW, OBL or FAC

Remarks:

* = Dominant Species; T = Tree; S = Shrub; H = Herbaceous

HYDROLOGY

Recorded Data (Describe in Remarks):

- ____ Stream, Lake, or Tide Gauge
- ____ Aerial Photographs
- ____ Other
- X No Recorded Data Available

Field Observations:

- Depth of Surface Water: — (in.)
- Depth to Free Water in Pit: — (in.)
- Depth to Saturated Soil: — (in.)

Wetland Hydrology Indicators:

Primary Indicators:

- ____ Inundated
- ____ Saturated in Upper 12 Inches
- ____ Water Marks
- ____ Drift Lines
- ____ Sediment Deposits
- ____ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

- ____ Oxidized Root Channels in Upper 12 Inches
- ____ Water-Stained Leaves
- ____ Local Soil Survey Data
- ____ FAC-Neutral Test
- ____ Other (Explain in Remarks)

Remarks: No Hydrology indicators

MITIGATION MONITORING AND REPORTING PROGRAM
VALENCIA COMPANY
REVISED NATURAL RIVER MANAGEMENT PLAN
November 18, 1998

Mitigation Measure	Timing of Mitigation	Monitoring Action, Party, and Method of Documentation	Timing of Reporting	Enforcement Agency/ Status
WATER QUALITY				
WQ-1 The engineering design and operational criteria of the proposed water quality wetlands and filters shall be reviewed by the Regional Board staff during the 401 certification review for individual projects. The final designs should consider optimal size, retention time, internal flow patterns, use of a forebay, selection of appropriate plants, and location of inlets and outlets.	401 certification process	Corps confirms issuance of 401 certification or waiver from Regional Water Quality Control Board to the applicant	Upon issuance of 401 certification or waiver	Corps and RWQCB
WQ-2 The design of the proposed treatment control BMPs must meet the requirements of any similar treatment control BMP that is formally adopted by the Regional Board for the then current municipal stormwater permit for Los Angeles County or the City of Santa Clarita.	Approval of Verification Request Letter by the Corps	Corps confirms that the treatment control BMPs included in each project meets the current requirements of NPDES municipal stormwater permit for Los Angeles County and the City of Santa Clarita	Upon approval of each Verification Request Letter	Corps and RWQCB
BIOLOGY - AQUATIC HABITAT AND WATER QUALITY DURING CONSTRUCTION				
BIO-1 (a) Construction activities shall be limited to the following areas of temporary disturbance: (1) an 85-foot-wide zone that extends into the river from the base of the rip-rap or gunite bank protection where it intercepts the river bottom; (2) 60 feet on either side of the outer edge of a new bridge or bridge to be modified; (3) 50-foot-wide corridor for all utility lines; and (4) 20-foot-wide temporary access ramps and roads to reach construction sites. The locations of these temporary construction sites and the routes of all access roads shall be shown on maps submitted with the Verification Request Letters for individual projects that are submitted to the CDFG and Corps. Any variation from these limits shall be noted, with a justification for a variation. The construction plans should indicate what type of vegetation, if any, would be temporarily disturbed, and the post-construction activities to facilitate natural revegetation of the	During plan preparation and construction	Permittee shows initial compliance on project plans and in the Verification Request Letter. Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	Upon receipt of Verification Request Letter, and after construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG

temporarily disturbed areas. The boundaries of the construction site and any temporary access roads within the riverbed shall be marked in the field with stakes and flagging. No construction activities, vehicular access, equipment storage, stockpiling, or significant human intrusion shall occur outside the work area and access roads.				
BIO-1 (b) Equipment shall not be operated in areas of ponded or flowing water unless there are no practicable alternative methods to accomplish the construction work, and only after prior approval by the CDFG and the Corps. Approval shall be acquired by submitting a request to CDFG and Corps no later than 30 days prior to construction. The request must contain a biological evaluation demonstrating that no sensitive fish, amphibians, and/or reptiles are currently present, or likely to be present during construction, at the construction site or along access roads. This request may be included in the Verification Request Letters for individual projects that are submitted to the CDFG and Corps.	During plan preparation and construction	Permittee shows initial compliance on project plans and in the Verification Request Letter. Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	Upon receipt of Verification Request Letter, and after construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (c) Temporary sediment retention ponds shall be constructed downstream of construction sites that are located in the riverbed under the following circumstances: (1) the construction site contains flowing or ponded water that drains off-site into the undisturbed streamflow or ponds, as allowed for certain areas under BIO-1a above; or (2) streamflow is diverted around the construction site, but the work is occurring in the period November 1st through April 15th when storm flows could inundate the construction site. The sediment ponds shall be constructed of riverbed material and shall prevent sediment-laden water from reaching undisturbed ponds or streamflows. To the extent feasible, ponds shall be located in barren or sandy riverbottom areas devoid of existing riparian scrub, riparian woodland, or aquatic habitat. The ponds shall be maintained and repaired after flooding events, and shall be restored to pre-construction grades and substrate conditions within 30 days after construction has ended at that particular site. The location and design of sediment retention ponds shall be included in the Storm Water Pollution Prevention Plan (SWPPP) prepared by Valencia Company for all construction activities that require a NPDES General Construction Activity Storm Water Permit.	During plan preparation and construction	Permittee shows initial compliance on project plans and in the Verification Request Letter. Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	Upon receipt of Verification Request Letter, and after construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (d) Installation of bridges, culverts, or other structures shall not impair movement of fish and aquatic life. Bottoms of temporary culverts shall be placed at or below channel grade. Bottoms of permanent culverts shall be placed below	During construction of individual	Permittee documents compliance based on field observations by permittee's	After construction of a project is completed, and	Corps and CDFG

channel grade.	projects	compliance personnel. Compliance documented in Annual Permit Status Letter Report.	Corps and CDFG have received monitoring documentation from permittee.	
BIO-1 (e) Water containing mud, silt, or other pollutants from construction activities shall not be allowed to enter a flowing stream or placed in locations that may be subject to normal storm flows during periods when storm flows can reasonably be expected to occur.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (f) Vehicles shall not be driven or equipment operated in areas of ponded or flowing water, or where wetland vegetation, riparian vegetation, or aquatic organisms may be destroyed, except as otherwise provided for in the 404 permit or 1603 Agreement.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (g) Silt settling basins, installed during the construction process, shall be located away from areas of ponded or flowing water to prevent discolored, silt-bearing water from reaching areas of ponded or flowing water during normal flow regimes.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (h) If a stream channel has been altered during the construction and/or maintenance operations, its low flow channel shall be returned as nearly as practical to pre-project topographic conditions without creating a possible future bank erosion problem, or a flat wide channel or sluice like area. The gradient of the streambed shall be returned to pre-project grade, to the extent practical, unless it is represents a wetland restoration area.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (i) Temporary structures and associated materials not designed to withstand high seasonal flows shall be removed to areas above the high water	During construction of	Permittee documents compliance based on field	After construction of a project is	Corps and CDFG

mark before such flows occur.	individual projects	observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	completed, and Corps and CDFG have received monitoring documentation from permittee.	
BIO-1 (j) Staging/storage areas for construction equipment and materials shall be located outside of the ordinary high water mark.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (k) Any equipment or vehicles driven and/or operated within or adjacent to the stream shall be checked and maintained daily, to prevent leaks of materials that if introduced to water could be deleterious to aquatic life.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (l) Stationary equipment such as motors, pumps, generators, and welders which may be located within the riverbed construction zone shall be positioned over drip pans. No fuel storage tanks shall be allowed in the riverbed.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1(m) No debris, bark, slash sawdust, rubbish, cement or concrete or washing thereof, oil, petroleum products, or other organic material from any construction, or associated activity of whatever nature, shall be allowed to enter into, or be placed where it may be washed by rainfall or runoff into, watercourses included in the permit When construction operations are completed, any excess materials or debris shall be removed from the work area.	During construction of individual projects	Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	After construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-1 (n) No equipment maintenance shall be done within or near any stream	During	Permittee documents	After construction	Corps and

where petroleum products or other pollutants from the equipment may enter these areas with stream flow.	construction of individual projects	compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	CDFG
BIOLOGY: SENSITIVE AQUATIC SPECIES AVOIDANCE DURING CONSTRUCTION				
BIO-2 (a) Prior to initiating construction for the installation of bridges, storm drain outlets, utility lines, and/or bank protection, all construction sites and access roads within the riverbed, as well as all riverbed areas within 300 feet of the construction site and access road, shall be inspected at the appropriate season, as determined in consultation with CDFG, by a qualified biologist for the presence of the unarmored three-spine stickleback, arroyo chub, Santa Ana sucker, arroyo toad, two-striped garter snake, and southwestern pond turtle. The Corps and the CDFG shall be notified of the inspection and shall have the option of attending. If either agency is not represented, the biologist shall file a written report of the inspection with the agency not in attendance within 14 days of the survey and no sooner than 30 days prior to any construction work in the riverbed.	Prior to and during construction of individual projects	Biologist conducts field survey and documents in a report to the agencies.	No sooner than 30 days prior to construction.	Corps and CDFG
BIO-2 (b) Construction work areas and access roads shall be cleared of the species listed in BIO-2a immediately before the prescribed work is to be carried out, immediately before any equipment is moved into or through the stream or habitat areas, and immediately before diverting any stream water. The removal of such species shall be conducted by a qualified biologist using procedures approved by the Corps and CDFG, and with the appropriate collection and handling permits. Species shall be relocated to nearby suitable habitat areas. A plan to relocate these species shall be submitted to the Corps and CDFG for review and approval no later than 30 days prior to construction. This plan can also be included in the Verification Request Letters submitted to the Corps and CDFG for individual project approvals. Under no circumstances shall the unarmored three-spine stickleback be collected or relocated, unless USFWS personnel or their agents implement this measure.	Prior to and during construction of individual projects	Plan to relocate species submitted to agencies with Verification Request Letter. Biologist conducts relocation and documents in a report to the agencies.	Upon receipt of the relocation plan in the Verification Request Letter and upon receipt of the Annual Permit Status Report, documenting final compliance.	Corps and CDFG
BIO-2 (c) All stream flows traversing a construction site or temporary access road shall be diverted around the site and under access roads (using a temporary culverts or crossings that allow fish passage). A temporary diversion channel shall be constructed using the least damaging method possible, such as blading a narrow pilot channel through an open sandy river bottom. The removal of wetland and riparian vegetation to construct the channel shall be avoided to the greatest extent feasible. The temporary channel shall be connected to a natural	Prior to and during construction of individual projects	Plans for diversion submitted to agencies with Verification Request Letter. Permittee's compliance personnel monitor during construction, then document compliance in Annual Permit Status Letter	Upon receipt of the plans in the Verification Request Letter and upon receipt of the Annual Permit Status	Corps and CDFG

channel downstream of the construction site prior to diverting the stream. The integrity of the channel and diversion shall be maintained throughout the construction period. The stream channel alignment shall be restored after construction, in consultation with CDFG. A temporary stream diversion plan shall be included in the Verification Request Letters submitted to the Corps and CDFG for individual project approvals. This procedure can only be implemented if: (1) there are assurances by Valencia Company that the fully protected unarmored three-spine stickleback will not be taken or possessed, or (2) if USFWS personnel or their agents implement this measure.		Report.	Report, documenting final compliance.	
BIO-2 (d). A qualified biologist shall be present when any stream diversion takes place, and shall patrol the areas both within, upstream, and downstream of the work area to rescue any species stranded by the diversion of the stream water. Species that are collected shall be relocated to suitable downstream of the work area. Under no circumstances shall the unarmored three-spine stickleback be collected or relocated, unless USFWS personnel or their agents implement this measure.	During construction of individual projects	Permittee's compliance personnel monitor stream diversion and species relocation, then document compliance in Annual Permit Status Letter Report.	Upon receipt of the plans in the Verification Request Letter and upon receipt of the Annual Permit Status Report, documenting final compliance.	Corps and CDFG
BIOLOGY: SENSITIVE BIRD SPECIES AVOIDANCE DURING CONSTRUCTION				
BIO-3 (a) Existing maps of suitable riparian habitat for the least Bell's vireo, southwestern willow flycatcher, western yellow-billed cuckoo, yellow warbler, and yellow-breasted chat shall be updated on an as-needed basis, and submitted to the Corps and CDFG for review and approval as part of the annual riparian breeding bird status report submitted to the Corps and CDFG on October 1st of each year. The removal of any riparian habitat suitable for breeding, nesting, foraging, and temporary usage during migration by the species of interest from the project footprint (i.e., boundaries of temporary and permanent impacts) shall be mitigated through the creation or enhancement of similar riparian habitat at an approved mitigation site, or by the removal of exotic species from an area of existing similar habitat. The requirement for replacing suitable habitat by either creating new habitat or removing exotic species from existing habitat shall follow the replacement ratios and timing requirements in BIO-5. Habitat to be created to mitigate for the loss of riparian habitat that is suitable for the species of interest shall be designed specifically to replicate the appropriate species mixture and vegetative structure for these species. Existing habitat to be weeded as mitigation for the loss of riparian habitat suitable for the species of interest must be located adjacent to habitat occupied by these species and infested with invasive weeds. The first priority for habitat mitigation for sensitive bird species will be the	Restoration can occur at any time before a project, but no later than concurrent with the project.	Maps of suitable habitat: Issued to agencies as part of Annual Riparian Breeding Bird Status Report. Replacement of riparian habitat: Plans reviewed as part of Verification Request Letter, and success monitored through Annual Mitigation Status Report.	Upon receipt of Annual Breeding Bird Status Report, Verification Request letter, and Annual Mitigation Status Report.	Corps and CDFG

creation or restoration of habitat rather than weed removal. If weed removal is used for mitigation for sensitive species habitat replacement, the weed removal must result in habitat conditions suitable for the affected sensitive species. The final habitat replacement or exotic removal plans for impacts to these types of habitats shall be reviewed by the Corps and CDFG as described in BIO-5.				
BIO-3 (b) Beginning thirty (30) or more days prior to the removal of any suitable riparian habitat (mapped under BIO-3a) that will occur during the riparian bird breeding and nesting season of March 15th through September 1st, Valencia Company shall arrange for weekly bird surveys to detect the sensitive riparian bird species listed in BIO-3a in the habitats to be removed, and any other such habitat within 300 feet of the construction work areas. The surveys shall be conducted by a qualified biologist using CDFG and/or USFWS survey protocols. The surveys shall continue on a weekly basis, with the last survey being conducted no more than 7 days prior to the initiation of construction work. In the event that one of the species listed in BIO-3a is observed in the habitats to be removed or in other habitats within 300 feet of the construction work areas, Valencia Company has the option of delaying all construction work in the suitable habitat or within 300 feet of the suitable habitat until after September 1st, or continuing the surveys in order to locate any nests. If an active nest is found, clearing and construction within 300 feet of the nest shall be postponed until the nest is vacated and juveniles have fledged, and when there is no evidence of a second attempt at nesting. Limits of construction to avoid a nest site shall be established in the field with flagging and stakes or construction fencing. Construction personnel shall be instructed on the ecological sensitivity of the area. Locating and determining the status of a nest shall be performed in accordance with approved procedures by the USFWS and CDFG, including the possible need for an endangered species permit to accurately observe and monitor a nest of a listed or proposed species. The Corps and CDFG shall be notified at least 14 days prior to the first scheduled survey and shall have the option of attending. Results of the surveys, including surveys to locate nests, shall be provided to the Corps and CDFG no later than 5 days prior to construction. The results shall include a description of any nests located and measures to be implemented to avoid nest sites. No surveys will be necessary if the work is completed outside of the riparian bird breeding and nesting season, i.e., from September 1st through March 15th.	Prior to construction.	Permittee's qualified biologist will prepare a report based on field surveys, and submit to agencies.	Upon receipt of permittee's bird survey report.	Corps and CDFG
BIO-3 (c) As new land development projects included in the NRMP are	Ongoing, as new	Compliance to be documented	Upon receipt of	Corps and

constructed adjacent to the Santa Clara River or San Francisquito Creek, Valencia Company shall use best efforts (within the control of Valencia Company, taking into consideration land ownership) to restrict public access into the bottom of the Santa Clara River and San Francisquito Creek that could adversely affect sensitive fish and wildlife resources, particularly listed or proposed species. These actions shall include, among other things, posting signs identifying an ecologically sensitive area, promoting public education and awareness of such ecological sensitivities, coordinating with the City of Santa Clarita on the placement of trails and public access routes to and along the river to avoid conflicts with sensitive biological resources, and the maintenance of fences and barricades to prevent unauthorized or unrestricted access to the river bottom.	projects are constructed	in Annual Permit Status Letter Report.	Annual Permit Status Letter Report.	CDFG
BIOLOGY RESTORATION OF TEMPORARILY DISTURBED AREAS				
BIO-4 (a) Construction activities in the riverbed shall be restricted to the following areas of temporary disturbance: (1) an 85-foot-wide zone that extends into the river from the base the rip-rap or gunite bank protection where it intercepts the river bottom; (2) 60 feet on either side of the outer edge of a new bridge or bridge to be modified; (3) 50-foot-wide corridor for all utility lines; and (4) 20-foot-wide temporary access ramps and roads to reach construction sites. The locations of these temporary construction sites and the routes of all access roads shall be shown on maps submitted with the Verification Request Letter submitted to the Corps and CDFG for individual project approval. Any variation from these limits shall be noted, with a justification for a variation. The construction plans should indicate what type of vegetation, if any, would be temporarily disturbed and the post-construction activities to facilitate natural revegetation of the temporarily disturbed areas.	During plan preparation and construction	Permittee shows initial compliance on project plans and in the Verification Request Letter. Permittee documents compliance based on field observations by permittee's compliance personnel. Compliance documented in Annual Permit Status Letter Report.	Upon receipt of Verification Request Letter, and after construction of a project is completed, and Corps and CDFG have received monitoring documentation from permittee.	Corps and CDFG
BIO-4 (b) All native riparian trees in temporary construction areas with a 4-inch dbh or greater shall be replaced at a 3:1 ratio using 1 or 5 gallon container plants in the temporary construction areas in the winter following the construction disturbance. The growth and survival of the replacement trees shall meet the performance standards specified in BIO-5(e) and (f). In addition, the growth and survival of the planted trees shall be monitored for five years in accordance with the methods and reporting procedures specified in Mitigation Measure BIO-5.	After construction is completed.	Tree replacement plans to be reviewed as part of Verification Request Letter, and success monitored through Annual Mitigation Status Report.	Upon receipt of Verification Request Letter, and Annual Mitigation Status Report.	Corps and CDFG
BIO-4 (c) Native vegetation within temporary construction areas shall be mulched and spread over the temporary impact areas once construction is completed in order to facilitate revegetation. Areas temporarily disturbed by construction activities shall also be weeded annually, as needed, for up to five years following construction. These areas shall be annually monitored for five years after construction to document colonization by weeds and native plants. Weeds shall be removed by hand, an approved herbicide application, and/or by equipment. In the	After construction is completed.	Mulching plans to be reviewed as part of Verification Request Letter. Weeding to be monitored annual by the permittee and documented in the Annual Mitigation Status Report.	Upon receipt of Verification Request Letter, and Annual Mitigation Status Report.	Corps and CDFG

event that native plant cover does not reach 50 percent of the pre-construction native plant cover within three years, Valencia Company shall revegetate the temporary construction area in accordance with the methods specified in BIO-5. Annual monitoring reports on the status of the natural recovery of temporarily disturbed areas shall be submitted to the Corps and CDFG as part of the Annual Mitigation Status Report and Mitigation Accounting Form to be submitted to the Corps and CDFG by April 1st of each year.				
BIOLOGY: RIPARIAN HABITAT MITIGATION PROGRAM				
BIO-5 (a) The permanent removal of riparian habitats (EIS mapping units 1 - 4, and 5-8) in the riverbed and "upland impact zone" (as defined in the EIR/EIS) shall be replaced by creating riparian habitats of similar functions and values in the project area. Wetland restoration shall be in-kind and at a 1:1 replacement ratio (except as indicated in BIO-5d) for new habitat installed two years in advance of the removal of habitat at the construction site. If replacement habitat cannot be installed two years in advance of the project, the ratios listed below will apply. As described in BIO-5d, lower replacement ratios may be appropriate if a Corps-approved hydrogeomorphic method (HGM) of assessing replacement ratios indicates lower ratios would ensure replacement of habitat values and functions. ▪ Habitat installation completed 2 years or more prior to construction impact, for all habitats = 1:1 ratio. ▪ Habitat installation completed less than 2 years in advance of impact. Low value habitat = 1:1 ratio, moderate value habitat = 2:1 ratio, high value habitat = 3:1 ratio. High value habitat = EIS/EIR mapping units 1,2,3,6; Medium value habitat = EIS/EIR mapping units 4,7; and Low value habitat = EIS/EIR mapping units 5, 8. **BIO-5 (b)** Valencia Company shall mitigate for the removal of riparian habitats contiguous with riverbed riparian habitat (EIS/EIR mapping units 2, 3, 4, 6, and 7) that may occur outside the "upland impact zone." The replacement of these types of habitats would occur in association with the development of a project identified in the NRMP, and shall follow the procedures for the replacement of in-channel habitats, as described in this mitigation measure. **BIO-5 (c)** Creation of new riparian habitats shall occur at suitable sites in or	Restoration or weed removal can occur at any time before a project, but no later than concurrent with the project.	Restoration or weeding plans reviewed as part of Verification Request Letter, and success monitored through Annual Mitigation Status Report and Mitigation Accounting Form.	Upon receipt of Annual Verification Request Letter, Annual Mitigation Status Report, and Mitigation Accounting Form	Corps and CDFG

adjacent to the watercourses included in the NRMP. Habitat restoration sites in the riverbed shall only be located in areas where the predominant habitats present are dry open floodplain (EIS/EIR mapping unit 5), weedy herbaceous (EIS/EIR mapping unit 9), or their functional equivalent. The highest priority habitat restoration sites should be new riverbed areas created during the excavation of uplands for bank protection projects in the NRMP. Restoration sites may also occur at locations outside the riverbed where there is appropriate hydrologic conditions to create a self-sustaining riparian habitat and where upland and riparian habitat values are absent or very low. All sites shall contain suitable hydrological conditions and surrounding land uses to ensure a self-sustaining functioning riparian habitat. Candidate restoration sites shall be selected by Valencia Company and described in the Annual Mitigation Status Report that will be submitted to the Corps by April 1st of each year. Sites will be approved when restoration plans are submitted to the Corps and CDFG as part of the Verification Request Letters submitted for individual projects, or as part of the Annual Mitigation Status Report and Mitigation Accounting Form. **BIO-5 (d)** Replacement habitat shall be designed to replace the functions and values of the habitats being removed. The replacement habitat shall be restored in accordance with the acreage replacement ratios described in BIO-5a. The replacement habitats shall have similar dominant trees and understory shrubs and herbs as the affected habitats. In addition, the replacement habitats shall be designed to replicate the density and structure of the affected habitats once the replacement habitats have reached mature status. Replacement ratios that are lower than those listed in BIO-5a may be used if a Corps-approved hydrogeomorphic method (HGM) is applied in which habitat functions and values of both affected habitat and the replacement habitat are quantified to ensure adequate replacement of habitat values and functions. **BIO-5 (e)** Average plant spacing shall be determined based on an analysis of habitats to be replaced. Typical plant spacing is presented below for use in developing willow-cottonwood woodland habitat (EIS/EIR mapping unit 3) as an example only. Valencia Company shall develop similar tree spacing specifications for other habitats to be restored, such as wet mixed scrub (EIS/EIR mapping unit 2), dry willow scrub (EIS/EIR mapping unit 4), cottonwood woodland (EIS/EIR mapping unit 6), scalebroom scrub (EIS/EIR mapping unit 7), and wet herbaceous (EIS/EIR mapping unit 1). Plant spacing specifications shall be reviewed and approved by the Corps and CDFG when restoration plans are submitted to the Corps as part of the Verification Request Letters submitted to				

the Corps and CDFG for individual projects or as part of the Annual Mitigation Status Report and Mitigation Accounting Form.

Average spacing (feet), height (feet) after 3 years, and height (feet) after 5 years, respectively:

Arroyo willow	8	10	15
Black willow	8-10	12	18
Sandbar willow	8	4	6
Red willow	8	9	15
Cottonwood	20	7	12

BIO-5 (f) Each tree and shrub species used in restoration shall have a minimum of 80% survival after three years and 70% survivorship after five years. Key indicator tree species to be used in the riparian restoration program shall achieve a minimum growth at the end of three years and five years as described above in BIO5e. Performance standards for cover shall be developed by Valencia Company for each individual habitat type being created, based on the observed natural cover in undisturbed habitats in the project area. Performance standards shall be established by Valencia Company for each habitat type to be replaced and shall require approval of the Corps and CDFG after these agencies have reviewed the Annual Mitigation Status Report and Mitigation Accounting Form. Minimum growth, survivorship, and cover performance at the mitigation sites shall be measured based on random samples taken during years three and five at each individual mitigation site, or at other sampling intervals if the Corps' hydrogeomorphic methodology is used by Valencia Company.

BIO-5 (g) If the minimum growth, survivorship, and/or cover are not achieved at the time of the three and five year evaluations, then Valencia Company shall be responsible for taking the appropriate corrective measures as to achieve the specified growth, survivorship, and/or cover criteria. Valencia Company shall be responsible for any costs incurred during the revegetation or in subsequent corrective measures. If acts of God (flood, fires, or drought) occur after the vegetation has met the three-year criteria for growth, survival, and cover, Valencia Company will not be responsible for replanting damaged areas. If these events occur prior to the plants meeting the three-year criteria, Valencia Company shall be responsible for replanting the area one time only.

BIO-5 (h) Valencia Company shall be responsible for weeding all restoration

sites to prevent an infestation of non-native weeds for a period of five years after the initial habitat restoration, regardless of the success of the planted species. The cover of non-native plant species at the mitigation sites shall not exceed 10 percent at any time, within this five year period. **BIO- 5 (i)** Temporary irrigation shall be installed, as necessary, for plant establishment. Irrigation shall continue as needed to meet the three and five year performance criteria regarding survivorship and growth. Irrigation shall be terminated in the winter to provide the least stress to plants. Removal of the irrigation system shall occur in conjunction with an appropriate "weaning" procedures to minimize plant stress in consultation with CDFG. Irrigation shall be terminated at the earliest opportunity after achieving the five-year criteria. **BIO-5 (j)** As an alternative to the restoration of habitats to compensate for permanent removal of riparian habitats, Valencia Company (at the discretion of the Corps and CDFG on a project-by-project basis) may remove exotic plant species from the project area in locations: (1) where there is an infestation of exotics such as *Arundo* such that the natural habitat functions and values are substantially degraded and at risk, and where the cover of exotics is equal to or exceeds 25 percent of the ground; or (2) other areas where exotic removal would be strategic in a watershed approach to weed management, as determined by the Corps and CDFG. The weed removal sites shall be selected in logical manner to ensure that the eradication of weeds from specific sites will contribute to the overall control of exotics in the NRMP watercourses. Removal areas shall be kept free of exotic plant species for five years after initial treatment. In addition, native riparian vegetation must become established through natural colonization and meet the revegetation plant cover goals established by the Corps and CDFG under BIO-5f after five years. **BIO-5 (k)** The removal program shall utilize methods and procedures approved by the Corps and CDFG to remove exotics, including but not limited to, mechanical equipment in specific areas, handcutting, and the application of herbicides to stumps. Exotic plant species removal credit will be given as shown below (except when weed removal is used to mitigate for loss of habitat for sensitive riparian bird species where the Corps and CDFG may require higher ratios). Weed eradication plans shall be submitted to the Corps and CDFG for approval as part of the Verification Request Letters submitted to the Corps and CDFG for individual projects or as part of the Annual Mitigation Status Report and Mitigation Accounting Form. The plans shall describe the proposed methods				

and the conditions of the site to be treated. A monitoring program shall be implemented to document the effectiveness of the removal and the natural establishment of native vegetation in the weeded area.

Value of Riparian Habitat to be Removed	Mitigation Ratios for Exotic Removal	
	2 yrs in advance	< 2 yrs in advance
High (EIS/EIR mapping units 1,2,3,6)	3:1	4:1
Medium (EIS/EIR mapping units 4,7)	2:1	3:1
Low (EIS/EIR mapping unit 5,8)	1:1	2:1

BIO-5 (l) In order to provide an accurate and reliable accounting system for mitigation, Valencia Company shall file a Mitigation Accounting Form annually with the Corps and CDFG by April 1st. This form shall document the amount of vegetation planted during the past year, the status of all mitigation credits to date, and any credits subtracted by projects implemented during the past year. Valencia Company will keep detailed records and provide the Mitigation Accounting Form to the Corps and CDFG annually for review for the life of the permit, or until all credits have been used up for individual projects. The Corps and CDFG shall provide concurrence within 30 working days, including written verification for all restoration and weed removal sites that meet the specified performance criteria. If there are any question regarding the accounting, a meeting with will be scheduled between Valencia Company, the Corps, and the CDFG.

BIO-5 (m) If Valencia Company does not have sufficient mitigation credits for an upcoming project, and is therefore planning to restore habitat or remove exotics concurrent with project implementation, project-specific plans for restoring riparian habitats or for removing exotics from existing habitats shall be submitted to the Corps and CDFG as part of the Verification Request Letters for individual project approvals.

BIO-5 (n) An Annual Mitigation Status Report shall be submitted to the Corps and CDFG by April 1st of each year for the life of the permit, or until five years

after all mitigation has been completed. This report shall include any required plans for plant spacing, locations of candidate restoration and weed removal sites, restoration methods, weed removal plans, and habitat restoration performance standards. For active habitat creation sites, the report shall include the survival, percent cover, and height of planted species, the number by species of plants replaced, an overview of the revegetation effort and its success in meeting performance criteria, the method used to assess these parameters, and photographs. For active exotics removal sites, the report shall include an assessment of weed removal; a description of the relative cover of native vegetation, bare areas, and exotic vegetation; colonization by native plants; and photographs. The report shall also include the Mitigation Accounting Form (see BIO-5l above) which outlines accounting information related to species planted or exotic removed, and mitigation credit remaining. **BIO-5 (o)** The mitigation program shall incorporate applicable principles in the interagency "Federal Guidance for the Establishment, Use, and Operation of Mitigation Banks" (FR 60; 58605-58614), to the extent feasible and appropriate, particularly the guidance on administration and accounting. Nothing in the 404 permit shall preclude Valencia Company from selling mitigation credits to other parties wishing to use the 404 permit for a project and/or maintenance activity included in the 404 permit.				
BIOLOGY ROUTINE MAINTENANCE GENERAL MEASURES				
BIO-6 (a) Temporary access roads to the work site shall be routed to avoid, to the extent feasible, riparian vegetation, live streams, and wetted areas. The boundaries of the maintenance site and any temporary access roads within the riverbed shall be marked in the field with stakes and flagging. No maintenance activities, vehicular access, equipment storage, stockpiling, or human intrusion shall occur outside the work area and access roads. If a live stream or pond is located within the maintenance site or access roads, the procedures described below in Measure BIO-7 to identify and relocate endangered species from live streams or ponded water would be followed. **BIO-6 (b)** Equipment shall not be operated in areas of ponded or flowing water unless there are no practicable alternative methods to accomplish the maintenance work, and only after prior approval by the CDFG and the Corps based on a request included in the Maintenance Notification submitted to these agencies 30 days before the planned maintenance work. **BIO-6 (c)** Temporary sediment retention ponds shall be constructed downstream	Prior to, during, and after maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG

of maintenance sites which involve grading or excavating and that contain flowing or ponded water that drains off-site into the undisturbed streamflow or ponds. The sediment ponds shall be constructed of riverbed material and shall prevent sediment-laden water from reaching undisturbed ponds or streamflows. To the extent feasible, ponds shall be located in barren or sandy riverbottom areas devoid of existing riparian scrub, riparian woodland, or aquatic habitat. The ponds shall be maintained and repaired after flooding events, and shall be restored to pre-disturbance grades and substrate conditions within 30 days after maintenance work has ended. **BIO-6 (d)** Repair of in-channel facilities shall not impair movement of fish and aquatic life. Bottoms of temporary culverts shall be placed at or below channel grade. **BIO-6 (e)** Water containing mud, silt, or other pollutants from maintenance activities shall not be allowed to enter a flowing stream or placed in locations that may be subject to normal storm flows during the period November 1st through April 15th. **BIO-6 (f)** If a stream channel has been altered during maintenance, the low flow channel shall be returned as nearly as practical to pre-project topographic conditions. **BIO-6 (g)** Temporary structures and associated materials not designed to withstand high seasonal flows shall be removed to areas above the high water mark before such flows occur. **BIO-6 (h)** Staging/storage areas for maintenance equipment and materials shall be located outside of the ordinary high water mark. **BIO-6 (i)** Any equipment or vehicles driven and/or operated within or adjacent to the stream shall be checked and maintained daily, to prevent leaks of materials that if introduced to water could be deleterious to aquatic life. **BIO-6 (j)** Stationary equipment such as motors, pumps, generators, and welders, located within the riverbed maintenance zone shall be positioned over drip pans. No fuel tanks shall be allowed in the riverbed. **BIO-6 (k)** No debris, bark, slash sawdust, rubbish, cement or concrete or washing				

thereof, oil, petroleum products, or other organic material from any maintenance activity shall be allowed to enter into, or be placed where it may be washed by rainfall or runoff into, watercourses included in the NRMP. When maintenance is completed, any excess materials or debris shall be removed from the work area. **BIO-6 (l)** No equipment maintenance shall be conducted within 50 feet of a watercourse.				
BIOLOGY: ROUTINE MAINTENANCE: SENSITIVE AQUATIC SPECIES: AVOIDANCE				
BIO-7 (a) Prior to initiating in-channel maintenance activities, all work sites and access roads within the riverbed, as well as all riverbed areas within 300 feet of the maintenance site and access road, shall be inspected by a qualified biologist for the presence of the unarmored three-spine stickleback, arroyo chub, Santa Ana sucker, arroyo toad, two-striped garter snake, and southwestern pond turtle. The Corps and the CDFG shall be notified of the inspection and shall have the option of attending. **BIO-7 (b)** Except in portions of the river or creek where the unarmored three-spine stickleback is present, maintenance work areas and access roads shall be cleared of the species listed in BIO-7a immediately before the prescribed work is to be carried out, immediately before any equipment is moved into or through the stream or habitat areas, and immediately before diverting any stream water. The removal of such species shall be conducted by a qualified biologist using procedures approved by the Corps and CDFG, and with the appropriate collection and handling permits. Species shall be relocated to nearby suitable habitat areas. A plan to relocate these species shall be submitted to the Corps and CDFG with the Maintenance Notification. **BIO-7 (c)** All stream flows traversing a maintenance work site or temporary access road shall be diverted around the site and under access roads (using a temporary culverts or crossings that allow fish passage). A temporary diversion channel shall be constructed using the least damaging method possible, such as blading a narrow pilot channel through an open sandy river bottom. The removal of wetland and riparian vegetation to construct the channel shall be avoided to the greatest extent feasible. The temporary channel shall be connected to a natural channel downstream of the maintenance site prior to diverting the stream. The original stream channel alignment shall be restored after maintenance work. **BIO-7 (d)** A qualified biologist shall be present when any stream diversion takes place, and shall patrol the areas both within, upstream, and downstream of the	Prior to, during, and after maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG

work area to rescue any species stranded by the diversion of the stream water. Species that are collected shall be relocated to suitable area downstream of the work area.				
BIOLOGY ROUTINE MAINTENANCE SENSITIVE BIRD AVOIDANCE				
BIO-8 All maintenance and repair work, excluding emergency work, shall occur between August 1st and March 15th (which is outside of the breeding season for sensitive riparian birds such as the least Bell's vireo) for facilities along the Santa Clara River downstream of Bouquet Canyon Bridge, and along San Francisquito Creek between Newhall Ranch Road and its confluence with the Santa Clara River. In-channel maintenance work that must occur between March 15th through August 1st in these areas shall follow the procedures in Mitigation Measure BIO-3.	Prior to and during maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG
BIOLOGY ROUTINE MAINTENANCE RESTORATION OF TEMPORARILY DISTURBED AREAS				
BIO-9 Native vegetation within temporary maintenance work areas shall be mulched and spread over the temporary impact areas once maintenance work is complete in order to facilitate revegetation.	After maintenance events	LACDPW monitors compliance in the field, and then reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the post-maintenance compliance report	Corps and CDFG
BIOLOGY ROUTINE MAINTENANCE CHANNEL CLEARING NEAR BRIDGES				
BIO-10 Vegetation and/or debris will be removed from around the following bridges, on an as-needed basis, as determined by LACDPW: Bouquet Canyon Road Bridge - 50 feet upstream and 50 feet downstream; McBean Parkway Bridge - 50 feet upstream and 50 feet downstream; The Old Road Bridge - 50 feet upstream and 50 feet downstream. Vegetation and debris may be removed by heavy equipment. Equipment within the river shall be operated within the above-described removal areas which shall be demarcated with temporary fencing or staking.	Prior to maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies.	Upon receipt of the Maintenance Notification.	Corps and CDFG
BIOLOGY ROUTINE MAINTENANCE REMOVAL OF VEGETATION FROM RIP-RAP				
BIO-11 For existing and new rip-rap constructed under the 404 permit and 1603 Agreement, LACDPW may remove trees that grow in levees, and may remove large trees, defined as trees with trunks 4 inches in diameter at breast height (dbh), within 15 feet of the levee toe in order to maintain the structural integrity of the levees. Whenever possible this work shall be performed from the levee access road. If access to the bottom of the river is required, the work area shall be limited to a 30-foot-wide zone extending outward from the levee at the invert and 15 feet upstream and downstream on either side of the tree to be removed. Hand held equipment shall be used.	Prior to and during maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG

BIOLOGY: ROUTINE MAINTENANCE: CLEANING STORM DRAIN OUTLETS				
BIO-12 Sediment buildup at existing side drains shall be removed on an as needed basis as determined by the LACDPW. The County shall use light equipment to create a swale up to 75 feet long and 10 feet wide, to allow water to drain. Light equipment such as a Caterpillar D-8 or equivalent may enter areas of the river as long as they avoid areas of ponded or flowing water (not including water discharging from the side drain) to remove sediment. Large riparian trees defined as trees with trunks in excess of four inches in diameter at breast height (dbh) shall be avoided. The maintenance area shall be demarcated with flagging. New side drains shall be designed with a rock apron to maintain a clear area large enough to provide hydraulic capacity to maintain flow from a side drain. Equipment shall be introduced into the river by means of an earth ramp constructed on the sideslope in the immediate vicinity, or from an adjacent invert access ramp if within 1,000 feet of the area to be maintained. If the equipment must access the riverbed, care will be taken to minimize impacts to vegetation and to avoid destruction of large trees, defined as trees with trunks in excess of four inches in diameter.	Prior to and during maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG
BIOLOGY: ROUTINE MAINTENANCE: CONTROL OF ODOR FROM PONDS				
BIO-13 In order to drain stagnant water that is causing an odor problem, LACDPW shall dig a swale using a Caterpillar D-6 or its equivalent or may hand shovel a swale, up to 75 feet long and 10 feet wide to allow ponded water to percolate. LACDPW shall notify the Corps and CDFG prior to performing this work. The procedures described in Measure BIO-7 to identify and relocate endangered species from live streams and ponded water shall be followed.	Prior to and during maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG
BIOLOGY: ROUTINE MAINTENANCE: BRIDGE REPAIR				
BIO-14 Whenever practical, repairs to bridges shall be made from the bridge deck. If this is not practical, minimum encroachment upstream and/or downstream of the bridge will be acceptable. The maintenance work area for structural repairs shall be limited to 30 feet on either side of the bridge and under the bridge itself. Equipment shall be introduced into the river by means of an earth ramp constructed on the sideslope in the immediate vicinity, or from an adjacent invert access ramp if within 1,000 feet of the bridge. If the equipment must access the river bed, care shall be taken to minimize impacts to vegetation and to avoid destruction of large trees, defined as trees with trunks in excess of four inches in diameter at breast height (dbh).	Prior to and during maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG

BIOLOGY ROUTINE MAINTENANCE REPAIRS TO BANK PROTECTION				
BIO-15 Structural repairs to levees, side drains, water quality facilities, utility crossings, etc. shall be performed on an as-needed basis to maintain the integrity of the structures. The work area shall be limited to the section of the structure, plus a 30-foot work area extending out from the levee at the invert and upstream and downstream within the 30-foot width of the structure to be repaired.	Prior to and during maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG
BIOLOGY ROUTINE MAINTENANCE MAINTENANCE OF WATER QUALITY FILTERS AND WETLANDS				
BIO-16 Water quality wetland basins and filters shall be installed outside of the river. These facilities shall be planted with wetland plants. The water quality wetland basins and filters shall be maintained on a regular basis, including periodic sediment removal and harvesting removal of wetland plants. Maintenance of these facilities shall occur between August 1st and March 15th. For those basins and filters constructed in areas not subject to Corps or CDFG jurisdiction, and that have not been abandoned or otherwise unmaintained, the Corps and CDFG will not exert jurisdiction unless other circumstances require otherwise.	Prior to and during maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies, then monitors compliance in the field, and reports results to the agencies in a report completed after the maintenance event.	Upon receipt of the Maintenance Notification, and then the post-maintenance compliance report	Corps and CDFG
BIOLOGY ROUTINE MAINTENANCE NOTIFICATION PROCEDURES				
BIO-17 The Corps and CDFG shall be notified of individual maintenance activities on an ongoing basis, using the notification procedures described in Section 2.13.2. Prior to any maintenance activities, LACDPW shall submit a Maintenance Notification to the Corps and CDFG containing the following information: map showing the maintenance area, current vegetation and impacts, limits of construction disturbance, stream diversions and any pertinent environmental protection measures; description of maintenance activities and schedule; statement on the consistency with NRMP, EIS/EIR, and 404 permit, including compliance with environmental protection measures for threatened and endangered species, water quality, and riparian habitat; description of post-construction restoration efforts. The notification shall be submitted to the Corps and CDFG at least 30 calendar days prior to the planned activities. The Corps and CDFG must respond within the 30 day period, either notifying LACDPW that: (1) the maintenance activities can proceed as planned because they are consistent with the NRMP, EIS/EIR, and conditions of the 404 permit or 1603 Agreement; or (2) the activities cannot proceed as planned. In the latter circumstance, the Corps and CDFG shall encourage LACDPW to submit a revised notification, and/or meet with the Corps and CDFG staffs to discuss inconsistencies or problems. The Corps and CDFG have the discretion to add conditions to the	Prior to maintenance events	LACDPW describes compliance plans in Maintenance Notification to the agencies	Upon receipt of the Maintenance Notification	Corps and CDFG

authorization for any maintenance activities if needed to ensure compliance with the applicable state and federal laws, regulations, and codes.				
BIOLOGY PROTECTION FOR UPLAND SPECIES AND HABITATS				
BIO-18 Thirty days prior to construction activities in areas of the "upland impact zone" associated with individual NRMP projects, a qualified biologist shall conduct a survey to capture and relocate individual coast horned lizards and coastal western whiptails in order to avoid or minimize take of these sensitive species. Individuals shall be relocated to nearby undisturbed areas with suitable habitat. Pre-construction surveys shall only be conducted in areas dominated by coastal sage scrub or Great Basin sage scrub or if construction will occur within 300 feet of native upland habitat. Results of the surveys and relocation efforts shall be provided to CDFG in the Annual Mitigation Status Report. Collection and relocation of animals shall only occur with the proper scientific collection and handling permits. **BIO-19** Thirty days prior to construction activities in areas of the "upland impact zone" associated with individual NRMP projects, a qualified biologist shall conduct a survey to determine if loggerhead shrike and/or horned lark are nesting. If no nesting is occurring, construction work can proceed. If nesting is occurring, construction work within 300 feet shall be delayed until fledglings have left the nest. Pre-construction surveys shall only be conducted in areas dominated by coastal sage scrub, grassland, or Great Basin sage scrub, or if such habitats would occur within 300 feet of the construction zone. Results of the surveys and relocation efforts shall be provided to CDFG in the Annual Mitigation Status Report. **BIO-20** Thirty days prior to construction activities in areas of the "upland impact zone" associated with individual NRMP projects, a qualified biologist shall conduct a survey to determine if the burrowing owl is present at the site, and the nesting status of the individuals at the site. If nesting is not occurring, construction work can proceed after any owls have been evacuated from the site using CDFG-approved burrow closure procedures and after alternative nest sites have been provided in accordance with the CDFG Staff Report on Burrowing Owl Mitigation (10-17-95). If nesting is occurring, construction work within 500 feet shall be delayed until fledglings have left the nest. Pre-construction surveys shall only be conducted in areas dominated by field crops and grassland, or if such habitats occur within 500 feet of a construction zone. Results of the surveys and relocation efforts shall be provided to CDFG in the Annual Mitigation Status Report.	Prior to construction	Permitee's biologist conducts surveys and relocation efforts, then documents results in Annual Mitigation Status Report to the agencies.	Upon receipt of Annual Mitigation Status Report	CDFG

BIO-21 Thirty days prior to construction activities in all riparian areas within or adjacent to the riverbed, a qualified biologist shall conduct a survey to determine if any tri-colored blackbirds are present at the site, and the status of nesting. If no nesting is occurring, construction work can proceed. If nesting is occurring, construction work shall be delayed until fledglings have left the nest. Results of the surveys shall be provided to CDFG in the Annual Mitigation Status Report. If a riparian or wetland habitat used by blackbirds for nesting is to be removed, it shall be replaced per the procedures in Mitigation Measure BIO-5. **BIO-22** Thirty days prior to construction activities in all riparian areas within or adjacent to the riverbed, a qualified biologist shall conduct a survey to determine if any of the following raptors are nesting in large trees: golden eagle, sharp-shinned hawk, white-tailed kite, northern harrier, and Cooper's hawk. If nesting is not occurring, construction work can proceed. If an active nest is present, construction work within 500 feet shall be delayed until fledglings have left the nest. Results of the surveys and relocation efforts shall be provided to CDFG in the Annual Mitigation Status Report. If an area of riparian woodland used by raptors for nesting is to be removed, it shall be replaced per the procedures and replacement ratios for such woodlands described in Mitigation Measure BIO-5. **BIO-23** Thirty days prior to construction activities in areas of the "upland impact zone" associated with individual NRMP projects, a qualified biologist shall conduct a survey to determine if the San Diego black-tailed jackrabbit is present at the site. If the species is present, a qualified biologist shall capture and relocate individuals to avoid or minimize impacts to this species. Individuals shall be relocated to nearby undisturbed areas with suitable habitat. Pre-construction surveys shall only be conducted in areas dominated by coastal sage scrub or grassland. Results of the surveys and relocation efforts shall be provided to CDFG in the Annual Mitigation Status Report. Collection and relocation of animals shall only occur with the proper scientific collection and handling permits.				
BIO-24 All upland habitats to be permanently removed that support the upland sensitive species noted in measures BIO-18, 19, 20, 21, 22, and 23 shall be replaced on a 1:1 basis concurrent with construction of the project at one of the following locations: (1) in the upland buffer zone at any location within the NRMP project area; or (2) at another disturbed or unvegetated upland locations, such as within utility rights of way, subject to approval by the Corps and CDFG. A restoration and monitoring plan for upland habitat replacement shall be submitted with each Verification Request Forms indicating the nature and	During construction	Upland restoration plans to be reviewed as part of Verification Request Letter.	Upon receipt of Verification Request Letter	CDFG

location of the proposed upland habitat restoration. If some or all of the upland buffer zone is planted with native plants to create upland habitats as part of adjacent land development projects, this habitat can be used for mitigating losses of upland habitats for subsequent projects, subject to the approval of the Corps and CDFG.				
VISUAL RESOURCES				
VS-1 Valencia Company shall utilized ungrouted rip-rap with colors and textures that are harmonious with the natural riverbed and bank materials. The same type, color, and size or rip-rap shall be used throughout the project area, as feasible.	Prior to construction	Permittee includes information on rip-rap design in Verification Request Letter	Upon receipt of Verification Request letters	Corps and CDFG
CULTURAL RESOURCES				
CR-1 Under the Corps' procedures for considering historic properties (33 CFR 325, Appendix C, 5(f)), the Corps is only required to identify, but not evaluate, potentially eligible historic properties within the "permit area" that would be directly affected by upland activities related to the proposed permit. Site CA-LAN-351 occurs in upland portions of the "permit area." Hence, there is no immediate requirement to assess the site's eligibility for listing on the National Register. However, prior to authorizing the installation of bank protection in the vicinity of the site, the Corps shall require Valencia Company to conduct a Phase II evaluation of the site's eligibility. This evaluation must be conducted in coordination with the SHPO and Corps. If the site is determined to be ineligible for listing on the National Register or California Register, no further investigation or data recovery shall be required. If the site appears to be eligible for listing, the Corps shall formally consult with the SHPO to assess the magnitude and type of potential effect. This coordination shall result in a determination of "no effect," "no adverse effect," or "adverse effect." If an adverse effect is identified, the Corps shall notify the Advisory Council for Historic Preservation (ACHP) and coordinate with the SHPO to seek ways to mitigate the impact, such as capping, data recovery, and archival research. Under this circumstance, Corps shall develop a Memorandum of Agreement among the SHPO and ACHP regarding treatment of the site. Upon successful completion of the terms of the MOA, the Corps may proceed with authorizing the installation of bank protection at the site as proposed, or re-locating the bank protection to reduce impacts to the site, as appropriate.	Prior to construction	Permittee provides results of study in Verification Request Letter for this particular area	Upon receipt of the Verification Request Letter	Corps
AIR QUALITY				
AQ-1 A construction traffic and vehicular emissions management plan shall be prepared that incorporates the elements listed below. Copies of the plans must	Prior to construction	Permittee provides plans to local lead agency, Corps, and	Upon receipt of the Verification	Corps and CDFG

also be submitted to the local lead agency for information purposes each time the applicant notifies the Corps and CDFG of an individual project under the permit. At anytime during the construction of the projects under the permit, the applicant must provide reasonable documentation or other evidence of compliance with the plan elements. a. Provide temporary traffic control during all phases of construction activities that affect circulation on public roads to maintain traffic flow b. Schedule construction activities that affect traffic flow on the arterial system to off-peak hours c. Maintain equipment and vehicle engines in good condition and in proposed tune as per manufacturers' specifications and per AQMD rules d. Use electricity from existing nearby power lines rather than from temporary diesel- or gasoline-powered generators, to the extent feasible e. Use propane- or butane-powered on-site mobile equipment instead of gasoline-powered equipment, to the extent feasible **AQ-2** A fugitive dust control plan shall be prepared that incorporates the elements listed below. Copies of the plans must also be submitted to the local lead agency for information purposes each time the applicant notifies the Corps and CDFG of an individual project under the permit. At anytime during the construction of the projects under the permit, the applicant must provide reasonable documentation or other evidence of compliance with the plan elements. a. Apply USEPA approved non-toxic chemical soil stabilizers to all inactive construction areas (i.e., previously graded areas inactive for 5 days or more) b. Water active grading and parking areas at least twice daily during dry season of the year (May 1st through November 1st) c. Enclose, cover, water twice daily, or apply approved soil binders to		CDFG with each Verification Request Letter	Request Letter	

all inactive construction areas (i.e., previously graded areas inactive for 5 days or more) b. Water active grading and parking areas at least twice daily during dry season of the year (May 1st through November 1st) c. Enclose, cover, water twice daily, or apply approved soil binders to exposed stockpiles d. Suspend all excavation and grading operations when instantaneous wind speeds reach 25 mph e. All trucks hauling dirt, sand, silt or other loose materials should be covered or should maintain at least two feet of freeboard f. Sweep paved streets at the end of the day if visible soil material is carried over to adjacent paved roads g. Install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash off mud from trucks leaving the site				
BIOLOGY-CUMULATIVE				
A wildlife conservation easement shall be recorded over approximately 1200 acres on the Santa Clara River from its confluence with Castaic Creek to one-half mile above the Los Angeles Aqueduct and those portions of San Francisquito Creek and the South Fork of the Santa Clara River under Valencia Company's and/or Newhall's ownership, in accordance with and as further described in Section 8 and Exhibit 12 of the Streambed Alteration Agreement, no later than November 1, 2018 to protect existing fish and wildlife resources in perpetuity.	Possibly in phases, but not later than November 1, 2018.	CDFG will approve the form and content of the wildlife conservation easement(s). The conservation easement(s) will be recorded with the Los Angeles County Clerk.	Reporting will be performed at the time the conservation easement is transferred to CDFG.	CDFG