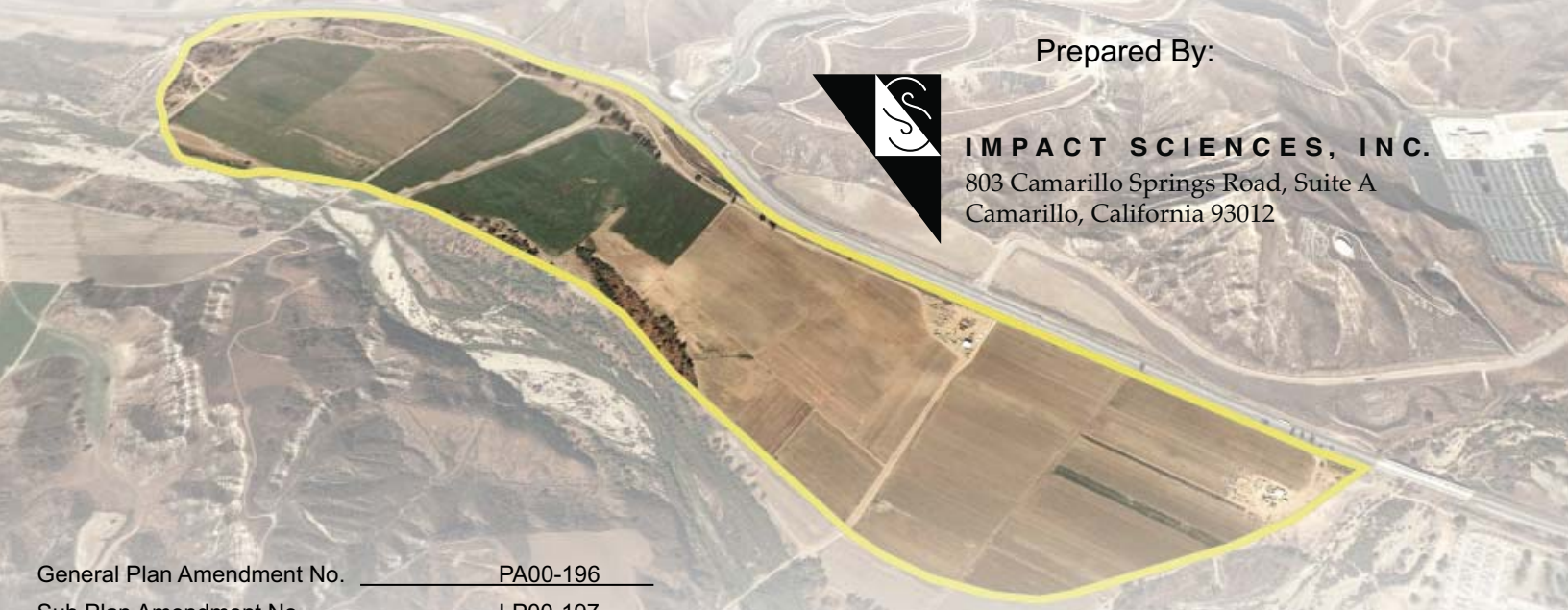
County of Los Angeles

Draft Environmental Impact Report

SCH No. 2004021002

Volume IX — Appendices
Appendix 4.11–Appendix 4.22

LANDMARK VILLAGE



Prepared By:

IMPACT SCIENCES, INC.
803 Camarillo Springs Road, Suite A
Camarillo, California 93012

General Plan Amendment No.	PA00-196
Sub Plan Amendment No.	LP00-197
Specific Plan Amendment No.	SP00-198
Vesting Tentative Tract Map No.	53108
SEA Conditional Use Permit No.	RCUP200500112
Oak Tree Permit No.	OTP00-196
Off-Site Materials Transport Approval No.	CUP00-196
Conditional Use Permit (Off-Site Grading)	CUP00-196

NEWHALL RANCH
Newhall Ranch Company

NOVEMBER 2006

DRAFT
ENVIRONMENTAL IMPACT REPORT

for
LANDMARK VILLAGE

SCH No. 2004021002

Volume IX - Appendices
Appendix 4.11–Appendix 4.22

Prepared for:

Los Angeles County
Department of Regional Planning
320 West Temple Street
Los Angeles, California 90012

Prepared by:

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803 Camarillo Springs Road, Suite A
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Phone: (805) 437-1900

November 2006

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Luhdorf & Scalmanini Technical Memorandum: Potential Capture of Perchlorate Contamination, Valencia Water Company Wells E14-E17 April 26, 2006

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APPENDIX 4.11

Wastewater Disposal

Written Correspondence with Basil Hewitt, August 15, 2005

Subject: SCVJSS INFORMATION
Date: Monday, August 15, 2005 2:58 PM
From: Hewitt, Basil <BHewitt@lacsd.org>
To: <mschaefer@impactsciences.com>
Conversation: SCVJSS INFORMATION

Minta,

Per your request, below is some information on the Districts' water reclamation plants in the Santa Clarita Valley:

The Districts operate two water reclamation plants (WRPs), the Saugus WRP and the Valencia WRP, which provide wastewater treatment in the Santa Clarita Valley. These facilities are interconnected to form a regional treatment system known as the Santa Clarita Valley Joint Sewerage System (SCVJSS). The SCVJSS has a design capacity of 28.1 million gallons per day (mgd) and currently processes an average wastewater flow of 21.5 mgd. The phase 1 of the Saugus/Valencia expansion was completed in July 2004. The Saugus Water Reclamation Plant currently treats approximately 5.5 mgd of wastewater and the Valencia Water Reclamation Plant currently treats 16 mgd of wastewater.

Basil

Landmark Village Wastewater Generation

Land Use	Units	Quantity	Generation Factor (gpd)	Generation (gpd)	Generation (mgd)	AFY
Residential						
Single Family	du	308	260.00	80,080.00	0.0801	89.70112106
Multi-Family	du	1,136	195.00	221,520.00	0.2215	248.13427
Mobile Homes	du		195.00	0.00	0.0000	0
Non-Residential						0
Commercial Retail	tsf	1,033	100.00	103,300.00	0.1033	115.7108617
Hotel	sq.ft.		na			0
Hotel (1)	rooms		125.00	0.00	0.0000	0
School	tsf	20	200.00	4,000.00	0.0040	4.480575478
College	stdnts		20.00	0.00	0.0000	0
College	sq.ft.		na			0
Hospital	sq.ft.		na			0
Hospital (3)	beds		125.00	0.00	0.0000	0
Library (4)	tsf		50.00	0.00	0.0000	0
Church	tsf		50.00	0.00	0.0000	0
Business Park (7)	tsf		300.00	0.00	0.0000	0
Industrial/Manufacturing (5)	tsf		25.00	0.00	0.0000	0
Utilities	tsf		25.00	0.00	0.0000	0
Commercial/Medical Office	tsf		300.00	0.00	0.0000	0
Golf Course/Park	acres		0.00	0.00	0.0000	0
Golf Course/Park Imps	tsf		100.00	0.00	0.0000	0
Visitor Serving (8)	tsf		100.00	0.00	0.0000	0
Special Generator (9)	tsf		25.00	0.00	0.0000	0
			Totals	**408,900.00**	**0.4089**	**458.03**

gpd = gallons per day; mgd = million gallons per day; du = dwelling unit; tsf = thousand square feet; sq. ft. = square feet; stdnts = students

Source of wastewater generation factors is CDSLAC, Loadings for Each Class of Land Use (1992-93). This list is provided in Appendix 4.10.

(1) Number of hotel rooms is based upon an assumed 400 gross square feet per room.

(3) Number of hospital beds is based upon an assumed 500 gross square feet per bed.

(4) Uses same generation factor for library as used for church.

(5) Generation factor for industrial/manufacturing is based on dry manufacturing uses.

(7) Uses same generation factor as for professional building.

(8) Uses same generation factor as for commercial retail.

(9) Uses same generation factor as for industrial/manufacturing.

APPENDIX 4.12

Solid Waste

Solid Waste Information/Calculations

River Village Project Solid Waste Generation (No Recycling)

Land Use	Quantity	Units	Generation Rate		Total Waste Generated	
			(tpy) (1)	(lbs./day)	(tpy)	(lbs./day)
Residential Units						
Single-Family	308	du	2.0400	11.18	628	3,443
Multi-Family	1,136	du	1.1700	6.41	1,329	7,283
Commercial						
Commercial Retail	337,600	sq. ft.	0.0024	0.01	810	4,440
Commercial Office	702,400	sq. ft.	0.0014	0.01	983	5,388
School						
Elem./Middle Schools	436	students	0.1090	0.60	48	260
High School	151	students	0.1090	0.60	16	90
Parkland	16	acres	0.2000	1.10	3	18
				Totals	**3,818**	**20,922**

du = dwelling unit; sq.ft. - square feet; tpy = tons per year; lbs. = pounds

(1) The solid waste daily generation rates in tons per year are derived from the Ventura County Solid Waste Management Department's Guidelines for Preparation of Environmental Assessments for Solid Waste Impacts. These figures do not reflect any recycling activities on the part of the generator.

Prepared by Impact Sciences, Inc.
10/4/04

River Village Solid Waste Generation Cumulative + Project (No Recycling)

Land Use	Quantity	Units	Generation Rate (tpy) (1)	Generation Rate (lbs./day)	Total Waste Generated (tpy)	Total Waste Generated (lbs./day)
Residential Units:						
Single Family Detached	93,589	du	2.0400	11.18	190,922	1,046,146
Multi-Family or Attached	49,149	du	1.1700	6.41	57,504	315,092
Mobile Home	2,699	du	1.1700	6.41	3,158	17,303
Commercial/Industrial						
Commercial Retail	20,236,630	sq. ft.	0.0024	0.01	48,568	266,126
Sit Down Restaurant	283,790	sq. ft.	0.0108	0.06	3,065	16,794
Fast Food Restaurant	23,600	sq. ft.	0.0108	0.06	255	1,397
Car Dealership	411,000	sq. ft.	0.0051	0.03	2,096	11,485
Hotel	2,071	sq. ft.	0.0053	0.03	11	60
Movie Theater (2)	3,300	seats	0.2000	1.10	660	3,616
Health Club (2)	54,000	sq. ft.	0.0056	0.03	302	1,657
Medical Offices	133,730	sq. ft.	0.0027	0.01	361	1,978
Hospital	247,460	sq. ft.	0.0055	0.03	1,361	7,458
Business Park	8,424,330	sq. ft.	0.0014	0.01	11,794	64,625
Commercial Office	702,400	sq. ft.	0.0014	0.01	983	5,388
Elem./Middle Schools (3)	279,389	students	0.1090	0.60	30,453	166,868
High School (3)	12,994	students	0.1090	0.60	1,416	7,761
College (3)	29,948	students	0.1090	0.60	3,264	17,887
Day Care	785,000	sq. ft.	0.0013	0.01	1,021	5,592
Trans., Comm., Utilities	1,150,240	sq. ft.	0.0079	0.04	9,087	49,791
Special Generator (4)	413	sq. ft.	0.0079	0.04	3	18
Golf Course	1,209	acres	0.2000	1.10	242	1,325
Parkland	509	acres	0.2000	1.10	102	558
Library (5)	171,790	sq. ft.	0.0014	0.01	241	1,318
Manufacturing/Warehouse	3,932,470	sq. ft.	0.0050	0.03	19,662	107,739
Church (5)	501,190	sq. ft.	0.0014	0.01	702	3,845
Industrial Park (6)	501,190	sq. ft.	0.0010	0.01	501	2,746
Undeveloped Parkland	1,000	acres				
				Totals	**386,532**	**2,117,982**

du = dwelling unit; sq.ft. - square feet; tpy = tons per year; lbs. = pounds

(1) The solid waste daily generation rates in tons per year are derived from the Ventura County Solid Waste Management Department's Guidelines for Preparation of Environmental Assessments for Solid Waste Impacts, unless otherwise noted. These figures do not reflect any recycling activities on the part of the generator.

(2) California Integrated Waste Management Website, November 2002, which cites SWANA Technical Bulletin 85-6, Recovery Sciences 1987 and Santa Clarita SRRE, 1990.

(3) California Integrated Waste Management Website, November 2002, which cites SWANA Technical Bulletin 85-6, Recovery Sciences 1987 and Matrix Management Group "Best Management Practices Analysis for Solid Waste."

(4) Conservatively assumes same generation rate as utilities.

(5) Assumes same generation rate as for office.

(6) California Integrated Waste Management Website, November 2002, which cites City of Los Angeles Bureau of Solid Waste 1989.

Prepared by Impact Sciences, Inc.
10/4/04

APPENDIX 4.13
Police Services

Correspondence from Leroy Baca, January 14, 2003

LEROY D. BACA, SHERIFF

County of Los Angeles
Sheriff's Department Headquarters
4700 Ramona Boulevard
Monterey Park, California 91754-2169
(661) 255-1121

August 4, 2004

Ms. Julie Berger
Impact Sciences Incorporated
30343 Canwood Street, Suite 210
Agoura Hills, California 91301

Dear Ms. Berger:

DRAFT ENVIRONMENTAL IMPACT REPORT
RIVER VILLAGE, NEWHALL RANCH
TENTATIVE TRACT NO. 53108

The proposed Project consisting of 1,444 residential units located south of State Route 126 near the intersection with Chiquita Canyon Road is within the jurisdiction of the Los Angeles County Sheriff's Department, Santa Clarita Valley Station, 23740 Magic Mountain Parkway, Valencia, California. The station is located approximately 8-9 miles from the project site.

It is anticipated that the non-emergent response time to a request for service would be approximately 30-45 minutes. The priority response time would be approximately 10-15 minutes and the response time under emergent circumstances would be approximately 6-10 minutes. All response times are approximations, only, and would be dependent on both the deployment of area radio cars and traffic conditions.

This station serves an area of 656 square miles, which is made up of the City of Santa Clarita and unincorporated County area between the Los Angeles City Limits to the South, the Kern County Line to the North and involving all area between the Ventura County Line to the West and the township of Aqua Dulce to the East. The population served by our station is approximately 200,000 residents.

Our ideal officer to population ratio is one deputy per 1,000 residents and with our current staffing of 171 sworn deputies currently assigned, our ratio is less than ideal at one deputy per every 1,169 residents. Assuming a residential density of 3.01 persons per dwelling unit, this proposed project will generate a population increase of 4,346. Based on the above, this project located in the unincorporated area, would require four additional deputies to the station compliment.

Our primary concern is our ability to provide an adequate level of protection and service to all areas we police. Due to the rapidly expanding population of the Santa Clarita Valley and its record-setting home building, it is difficult to project the impact of this specific project on law enforcement.

Upon review of your documentation and our understanding of the Newhall Ranch area, there will be several more tracts proposed and ultimately built with a population increase of approximately 67,213, which would put our services in dire need of a new station facility located in the area, and an increase of 67 deputy personnel. Additionally, the increase in required field personnel will necessitate an increase in support resources such as detectives, front desk personnel, secretaries, administration, vehicles and portable radios.

While we do not oppose this project, or future projects for the Newhall Ranch area, we are seriously concerned about our ability to adequately police this valley with our current resources. Without a strong commitment from the Board of Supervisors to provide sufficient funding, we may face a situation where we cannot provide timely emergency services.

Adding this project and other projects in progress, either proposed, approved or committed in the Santa Clarita Valley, it is certain they will all significantly strain our departments ability to operate.

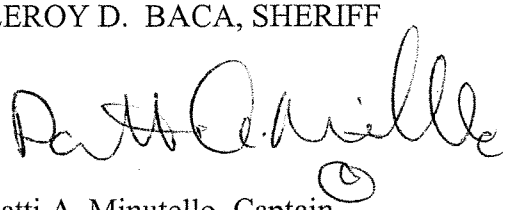
It is suggested, for the security and safety of the residents, that the following crime prevention measures be implemented during site and building layout design:

- Provide lighting in open areas and parking lots;
- Ensure the visibility of doors and windows from the street;
- Ensure that the required building address numbers are lighted and readily apparent from the street for emergency response agencies;

Should you have further questions, please feel free to call me at (661) 255-1121 extension 5102, or Deputy Patrick Rissler at extension 5159.

Sincerely,

LEROY D. BACA, SHERIFF



Patti A. Minutello, Captain
Santa Clarita Valley Station

PAM:par

Correspondence from the Department of California Highway Patrol, July 30, 2004

DEPARTMENT OF CALIFORNIA HIGHWAY PATROL
28648 The Old Road
Valencia, CA 91355
(661) 294-5540

(800) 735-2929 (TT/TDD)
(800) 735-2922 (Voice)

July 30, 2004

File No.: 540.10868.11822

Ms. Julie Berger
Project Planner
Impact Sciences
30343 Canwood Street, Suite 210
Aguora Hills, CA 91301

Dear Ms. Berger:

Our office received your letter dated June 21, 2004, regarding the River Village project in northwestern Los Angeles County. The proposed project will be located in the unincorporated area of Los Angeles County and within the jurisdiction of the California Highway Patrol. Therefore, traffic enforcement, emergency incident management, public service, assistance and accident investigation will be the responsibility of our agency.

The Santa Clarita Valley (SCV) is the fastest growing region in Southern California and the fifth fastest growing region in the State. The city of Santa Clarita has grown from a population of 110,000 in 1990 to 187,000 in 2002. More recent estimates indicate a population of 226,346. The area has a projected population growth of 5.63% per year and is anticipated to increase to 353,733 by 2010. During that time period there are plans to build more than 34,000 new homes, most of which will occur in the unincorporated areas. In addition, there is currently 12 million feet of industrial space which is expected to grow at a rate of 16% a year.

In response to your specific questions regarding the California Highway Patrol's operations, the following information is provided:

1) Our current staffing level (position and numbers) at the Newhall CHP Area Office (uniform/non-uniform) is:

a) 1 Captain, 2 Lieutenants, 7 Sergeants, 64 Officers, 9 non-uniforms, 15 senior volunteers.

The Newhall CHP area of responsibility has seen a 15% increase in total number of traffic collisions since 2001. Year-to-date, we have an 11% increase in traffic collisions as compared to the same period in 2003. Even though the traffic in the Area has increased substantially in the last decade, it has been over twenty (20) years since there has been an increase in the personnel strength in the Newhall CHP Area. Accordingly, the Newhall CHP Area has asked for 20 additional officers and two additional sergeant positions; however, due to budgetary constrains, no additional personnel are anticipated in the near future.

2) The Newhall CHP Area issued 9,626 citations, investigated 445 traffic collisions, and affected 346 arrests within the proposed proximity of the River Village project.

3) The Newhall CHP Area is tasked with completing the mission of the Department with available staffing and equipment; however, additional resources are very desirable. There are no upgrades to the station that are planned.

4 & 5) The proposed project will directly affect the CHP's ability to serve the existing community. The amount of proposed dwelling units in the area is 1,444 units. The addition of these dwellings, coupled with the proposed commercial development sites and others, will undoubtedly strain existing resources.

6) The River Ranch project will increase traffic volume on SR-126, Interstate 5, The Old Road, and other bordering surface streets. The increased traffic will ultimately cause delays in emergency response times. Additionally, we have great concern for the proposed additional roadways which would necessitate additional resources and officers to provide traffic enforcement, emergency incident management, public service, assistance and accident investigation. The CHP is concerned with traffic disruption, congestion, and any proposed detours or reduction in lane widths during the construction phase.

7) The information provided to you previously by Lieutenant Hoose is correct with the exception of the information regarding the non-uniform layoffs and hiring freeze. The Department's academy has reopened and the hiring freeze was lifted.

Safety during the "borrow site" phase of the proposed construction in which dirt movers will be crossing the SR-126 several times daily is a safety concern for the CHP. The SR-126 is a heavily traveled state route, with two traffic lanes in each direction. The posted speed limit for the SR-126 in the Newhall CHP Area is 60 MPH. Due to the heavy traffic volume and the high speed limits in the area, several construction signs will need to be posted with a reduced construction zone speed limit. Another consideration to make this phase of construction safer would be to hire CHP officers on a reimbursable services contract to provide traffic control and additional traffic enforcement for the area.

Lieutenant M. Odle will be our Department's contact person for the project. If you have any questions or concerns, he may be reached at the above address or telephone number.

Thank you for allowing us the opportunity to comment on this project.

Sincerely,

for E. CONLEY, Captain
Commander
Newhall Area

APPENDIX 4.14

Fire Protection Services

Correspondence from David R. Leninger, August 2, 2004

COUNTY OF LOS ANGELES

FIRE DEPARTMENT

1320 NORTH EASTERN AVENUE
LOS ANGELES, CALIFORNIA 90063-3294
(323) 890-4330

P. MICHAEL FREEMAN
FIRE CHIEF
FORESTER & FIRE WARDEN

August 2, 2004

Ms. Julie Berger
Impact Sciences
30343 Canwood Street, Suite 210
Agoura Hills, CA 91301

Dear Ms. Berger:

QUESTIONNAIRE REGARDING DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE "RIVER VILLAGE" DEVELOPMENT PROJECT LOCATED IN NORTHWESTERN LOS ANGELES COUNTY – "SANTA CLARITA"(EIR #2042/2004)

The Questionnaire related to the Draft Environmental Impact Report for the aforementioned project has been reviewed by the Planning Division, Land Development Unit, and Forestry Division of the County of Los Angeles Fire Department. The following are their comments:

PLANNING DIVISION:

The following are the closest existing fire stations to the project site, besides Station 76, the jurisdictional station for the area:

- Station 124, located at 25870 Hemingway Avenue, Stevenson Ranch. It has a 3-person engine company and a 2-person paramedic squad.
- Station 126, located at 26320 Citrus Avenue, Santa Clarita. It has a 3-person engine company and a 4-person quint (a combination engine/ladder truck apparatus). In addition, this station houses a battalion chief and a division chief.
- Station 149, located at 31770 Ridge Route, Castaic. It has a 3-person engine company, a 2-person paramedic squad, and a 1-person patrol that is staffed only during severe fire weather.

A 3-person fire company consists of a captain, a fire fighter specialist, and a fire fighter. A 4-person fire company has one (1) additional fire fighter. If the station houses a paramedic squad, one (1) fire fighter position on the engine is filled by a fire fighter paramedic.

We have no plans for any upgrades to these stations. There were no calls for services during the 2003 calendar year for the project area.

We would need a detailed map showing how the proposed roads intersect with existing roads in order to calculate response distances/times from existing fire stations.

As stated in your letter, discussions are underway with the applicant regarding fire protection mitigation measures for this project. Following are the requirements being discussed:

- Station at the Fire Department's "Del Valle" site needs to be constructed and operational prior to the issuance of the 723rd certificate of occupancy for the project.
- Applicant may desire to construct the fire station to the Fire District's specifications.
- If the applicant provides funding to the Fire Department to construct the station, the environmental review, architectural, and construction processes take 4± years upon receipt of funding.
- Size of fire station facility to be 8,250± square feet.
- Applicant must provide paved access acceptable to the Fire Department from the Del Valle fire station to Chiquito Canyon Road.

LAND DEVELOPMENT UNIT:
The County of Los Angeles Fire Department, Land Development Unit has no additional comments regarding this project. The conditions that were detailed in the letter dated December 31, 2002 (EIR #1535/2002) have not been changed at this time. See enclosed copy of letter. Should any questions arise regarding subdivision, water systems or access, please contact Inspector Marvin Dorsey at (323) 890-4243.

FORESTRY DIVISION:
The statutory responsibilities of the County of Los Angeles Fire Department, Forestry Division include erosion control, watershed management, rare and endangered species, vegetation, fuel modification for Very High Fire Hazard Severity Zones or Fire Zone 4, archeological and cultural resources, and the County Oak Tree Ordinance. This property is located within the area described by the Forester and Fire Warden as a Very High Fire Hazard Severity Zone or Fire Zone 4. The development of this project must comply with all Very High Fire Hazard Severity Zone code and ordinance requirements for fuel modification.

As required by Section 1117.2.1 of the County of Los Angeles Fire Code, a fuel modification plan, a landscape plan, and an irrigation plan shall be submitted with any subdivision of land or prior to any new construction, remodeling, modification or reconstruction where such activities increase the square footage of the existing structure by at least 50% within a 12-month period and where said structure or subdivision is located within an area designated as a Very High Fire Hazard Severity Zone or within Fire Zone 4.

A fuel modification plan, a landscape plan, and an irrigation plan shall be developed and approved prior to construction. Said plans shall be reviewed and approved by the County of Los Angeles Fire Department, Forestry Division. Specific questions regarding fuel modification requirements should be directed to the Fuel Modification Office at (626) 969-5205. These items should be fully addressed in the Draft Environmental Impact Report.

If you have any additional questions, please contact this office at (323) 890-4330.

Very truly yours,

DAVID R. LEININGER, CHIEF, FORESTRY DIVISION
PREVENTION BUREAU

DRL:sc

Enclosure

Correspondence from David R. Leninger, December 31, 2002

COUNTY OF LOS ANGELES

FIRE DEPARTMENT

1320 NORTH EASTERN AVENUE
LOS ANGELES, CALIFORNIA 90063-3294

(323) 890-4330

P. MICHAEL FREEMAN
FIRE CHIEF
FORESTER & FIRE WARDEN

December 31, 2002

Rosemarie B. Mamaghani, AICP
Impact Sciences
12909 Abra Drive
San Diego, CA 92128

Dear Ms. Mamaghani:

REQUEST FOR INFORMATION -- VESTING TENTATIVE TRACT #53108, RIVER VILLAGE PROJECT, NEWHALL RANCH, "CITY OF SANTA CLARITA VALLEY" (EIR #1535/2002)

The request for information on the proposed River Village Project has been reviewed by the Planning Section, Land Development Unit, and Forestry Division of the County of Los Angeles Fire Department. The following are their comments:

PLANNING DIVISION:

The terms "first alarm response stations" and "backup response stations" are undefined and should be avoided. The number and kind of response units dispatched in the first alarm depend on the incident type and the response policy. The response policy, as well as station staffing and equipment, can change over time. Thus, even the list of stations contributing units to a particular incident type, such as a single-family house fire, will change. The closest available units are always dispatched to an incident anywhere within the Fire Department's emergency response area. Therefore, it would be more accurate to identify certain stations as being the closest to the project and hence the likeliest to respond to an incident at the site.

The following changes in facilities, equipment, and staffing have occurred in the last two years. New Fire Station 126 is now in operation. It is temporarily located at 27400 Tourney Road, Valencia, CA 91355 until spring, 2003, when the permanent fire station will be opened on Citrus Street at Magic Mountain Parkway. Fire Station 126 is staffed by a 4-person engine company. Fire Station 73 now has one 3-person engine company as well as the truck company. Station 124 has been relocated to 25870 Hemingway Avenue, Stevenson Ranch, CA 91381.

The fire camps play a supportive role in wildland fire suppression. Camp crews are not staffed by firefighters. Unlike the fire stations and their staffing and equipment, the camps do not contribute to the Fire Department's emergency response capabilities in the project area.

Additional facilities, manpower, and equipment will be needed to serve this development. The Fire Department has negotiated an agreement with the developer of Newhall Ranch to provide new fire stations to adequately serve the project. In addition, the Department's 5-year plan currently includes two future stations in the surrounding area: one in the Hasley Canyon development and one in the Stevenson Ranch Phase V development.

SERVICE RESPONSIBILITY:

Due to the fact that only limited information is available on this project at the present time, we are not able to respond completely as to how this project will affect our Department. We would like to reserve the right to respond further at a future date when more specific information is available. In particular, we would need a detailed map showing the location of proposed land uses and existing and proposed roads to calculate response distances/times.

LAND DEVELOPMENT UNIT -- GENERAL REQUIREMENTS:

The proposed development may necessitate multiple ingress/egress access for the circulation of traffic, and emergency response issues. The Department may condition future development to provide additional means of access.

The development of this project must comply with all applicable code and ordinance requirements for construction, access, water mains, fire flows and hydrants. Specific fire and life safety requirements for the construction phase will be addressed at the building fire plan check. There may be additional fire and life safety requirements during this time.

Every building constructed shall be accessible to Fire Department apparatus by way of access roadways, with an all-weather surface of not less than the prescribed width, unobstructed, clear-to-sky. The roadway shall be extended to within 150 feet of all portions of the exterior walls when measured by an unobstructed route around the exterior of the building.

When a bridge is required, to be used as part of a fire access road, it shall be constructed and maintained in accordance with nationally recognized standards and designed for a live load sufficient to carry a minimum of 75,000 pounds.

The maximum allowable grade shall not exceed 15% except where the topography makes it impractical to keep within such grade, and then an absolute maximum of 20% will be allowed for up to 150 feet in distance. The average maximum allowed grade, including topography difficulties, shall be no more than 17%. Grade breaks shall not exceed 10% in 10 feet.

When involved with a subdivision, Fire Department requirements for access, fire flows and hydrants are addressed at the Los Angeles County Subdivision Committee meeting, during the subdivision tentative map stage.

Fire sprinkler systems are required in some residential and most commercial occupancies. For those occupancies not requiring fire sprinkler systems, it is strongly suggested that fire sprinkler systems be installed. This will reduce potential fire and life losses. Systems are now technically and economically feasible for residential use.

NON-RESIDENTIAL - COMMERCIAL - INSTITUTIONAL:

Development may require fire flows up to 5,000 gallons per minute at 20 pounds per square inch residual pressure for up to a five-hour duration. Final fire flows will be based on the size of the buildings, their relationship to other structures, property lines, and types of construction used. Fire hydrant spacing shall be 300 feet and shall meet the following requirements:

1. No portion of lot frontage shall be more than 200 feet via vehicular access from a public fire hydrant.

2. No portion of a building shall exceed 400 feet via vehicular access from a properly spaced public fire hydrant.

3. Additional hydrants will be required if hydrant spacing exceeds specified distances.

4. When cul-de-sac depth exceeds 200 feet on a commercial street, hydrants shall be required at the corner and mid-block.

5. A cul-de-sac shall not be more than 500 feet in length, when serving land zoned for commercial use.

6. A Fire Department approved turning area shall be provided at the end of a cul-de-sac.

Turning radii shall not be less than 32 feet. This measurement shall be determined at the centerline of the road. A Fire Department approved turning area shall be provided for all driveways exceeding 150 feet in length and at the end of all cul-de-sacs. All on-site driveways shall provide a minimum unobstructed width of 26 feet, clear-to-sky. The on-site driveway is to be within 150 feet of all portions of the exterior walls of the first story of any building. Driveway width for non-residential developments shall be increased when any of the following conditions will exist:

1. Provide 28 feet in width, when a building has three or more stories, or is more than 35 feet in height, above access level. Also, for using fire truck ladders, the centerline of the access roadway shall be located parallel to, and within 30 feet of the exterior wall on one side of the proposed structure.

2. Provide 34 feet in width, when parallel parking is allowed on one side of the access roadway/driveway. Preference is that such parking is not adjacent to the structure.

3. Provide 42 feet in width, when parallel parking is allowed on each side of the access roadway/driveway.

4. "Fire Lanes" are any ingress/egress, roadway/driveway with paving less than 34 feet in width, and will be clear-to-sky. All "Fire Lanes" will be depicted on the final map.

5. For streets or driveways with parking restrictions: The entrance to the street/driveway and intermittent spacing distances of 150 feet shall be posted with Fire Department approved signs stating "NO PARKING - FIRE LANE" in three-inch high letters. Driveway labeling is necessary to ensure access for Fire Department use.

HIGH DENSITY RESIDENTIAL:

Development may require fire flows up to 5,000 gallons per minute at 20 pounds per square inch residual pressure for up to a five-hour duration. Final fire flows will be based on the size of the buildings, their relationship to other structures, property lines, and types of construction used. Fire hydrant spacing shall be 300 feet and shall meet the following requirements:

1. No portion of lot frontage shall be more than 200 feet via vehicular access from a public fire hydrant.

2. No portion of a building shall exceed 400 feet via vehicular access from a properly spaced fire hydrant.

3. When cul-de-sac depth exceeds 200 feet, hydrants will be required at the corner and mid-block.

4. Additional hydrants will be required if the hydrant spacing exceeds specified distances.

Turning radii shall not be less than 32 feet. This measurement shall be determined at the centerline of the road. A Fire Department approved turning area shall be provided for all driveways exceeding 150 feet in length and at the end of all cul-de-sacs. When serving land zoned for residential uses having a density of more than four units per net acre:

1. A cul-de-sac shall be a minimum of 34 feet in width and shall not be more than 700 feet in length.

2. The length of the cul-de-sac may be increased to 1,000 feet if a minimum of 36 feet in width is provided.

3. A Fire Department approved turning area shall be provided at the end of a cul-de-sac.

All on-site driveways shall provide a minimum unobstructed width of 26 feet, clear-to-sky. The on-site driveway is to be within 150 feet of all portions of the exterior walls of the first story of any building. The 26 feet width does not allow for parking, and shall be designated as a "Fire Lane," and have appropriate signage. The 26 feet in width shall be increased to:

1. Provide 34 feet in width when parallel parking is allowed on one side of the access way.

2. Provide 36 feet in width when parallel parking is allowed on both sides of the access way.

3. Any access way less than 34 feet in width shall be labeled "Fire Lane" on the final recording map, and final building plans.

4. For streets or driveways with parking restrictions: The entrance to the street/driveway and intermittent spacing distances of 150 feet shall be posted with Fire Department approved signs stating "NO PARKING - FIRE LANE" in three-inch high letters. Driveway labeling is necessary to ensure access for Fire Department use.

SINGLE-FAMILY DWELLING UNITS:

Single-family detached homes shall require a fire flow of 1,250 gallons per minute at 20 pounds per square inch residual pressure for a two-hour duration. Fire hydrant spacing shall be 600 feet and shall meet the following requirements:

1. No portion of lot frontage shall be more than 450 feet via vehicular access from a public fire hydrant.

2. No portion of a structure should be placed on a lot where it exceeds 750 feet via vehicular access from a properly spaced public fire hydrant.

3. When cul-de-sac depth exceeds 450 feet on a residential street, hydrants shall be required at the corner and mid-block.

4. Additional hydrants will be required if hydrant spacing exceeds specified distances.

Fire Department access shall be provided to within 150 feet of all portions of the exterior walls of the first story of any single unit. If exceeding 150 feet, provide 20-feet, paved width "Private Driveway/Fire Lane" to within 150 feet of all portions of the exterior walls of the unit. Fire Lanes serving 3-4 units shall be increased to 24 feet in width, and if serving 5 or more units, the Fire Lane shall be increased to 26 feet. A Fire Department approved turning area shall be provided for all driveways exceeding 150 feet in length and at the end of all cul-de-sacs. Streets or driveways within the development shall be provided with the following:

1. Provide 36 feet in width on all collector streets and those streets where parking is allowed on both sides.

2. Provide 34 feet in width on cul-de-sacs up to 700 feet in length. This allows parking on both sides of the street.

3. Provide 36 feet in width on cul-de-sacs from 701 to 1,000 feet in length. This allows parking on both sides of the street.

4. For streets or driveways with parking restrictions: The entrance to the street/driveway and intermittent spacing distances of 150 feet shall be posted with Fire Department approved signs stating "NO PARKING - FIRE LANE" in three-inch high letters. Driveway labeling is necessary to ensure access for Fire Department use.

5. Turning radii shall not be less than 32 feet. This measurement shall be determined at the centerline of the road.

6. A Fire Department approved turning area shall be provided, at the end of a driveway of 300 feet or more in length.

LIMITED ACCESS DEVICES (GATES ETC.):
All access devices and gates shall meet the following requirements:

1. Any single gate used for ingress and egress shall be a minimum of 26 feet in width, clear-to-sky.

2. Any gate used for a single direction of travel, used in conjunction with another gate, used for travel in the opposite direction, (split gates) shall have a minimum width of 20 feet each, clear-to-sky.

3. Gates and/or control devices shall be positioned a minimum of 50 feet from a public right-of-way, and shall be provided with a turnaround having a minimum of 32 feet of turning radius. If an intercom system is used, the 50 feet shall be measured from the right-of-way to the intercom control device.

4. All limited access devices shall be of a type approved by the Fire Department.

5. Gate plans shall be submitted to the Fire Department, prior to installation. These plans shall show all locations, widths and details of the proposed gates.

TRAFFIC CALMING MEASURES:
All proposals for traffic calming measures (speed humps/bumps, traffic circles, roundabouts, etc.) shall be submitted to the Fire Department for review, prior to implementation.

Should any questions arise regarding design and construction, and/or water and access, please contact Inspector J. Scott Greenelsh at (323) 890-4235.

FORESTRY DIVISION - OTHER ENVIRONMENTAL CONCERNS:

The statutory responsibilities of the County of Los Angeles Fire Department, Forestry Division include erosion control, watershed management, rare and endangered species, vegetation, fuel modification for Very High Fire Hazard Severity Zones or Fire Zone 4, archeological and cultural resources and the County Oak Tree Ordinance. Potential impacts in these areas should be addressed in the Draft Environmental Impact Report.

If you have any additional questions, please contact this office at (323) 890-4330.

Very truly yours,

DAVID R. LEININGER, CHIEF, FORESTRY DIVISION
PREVENTION BUREAU

DRL:lc

APPENDIX 4.15
Education

School Facilities Funding Agreement between the Castaic Union School District and Newhall land and Farming

CASTAIC UNION SCHOOL DISTRICT

31616 North Ridge Route • Castaic, California 91384
Phone: (805) 257-0551 • Fax: (805) 257-5737

December 1, 1997

Mr. James M. Harter, Senior Vice President
Newhall Land and Farming Company
23823 Valencia Boulevard
Valencia, California 91355

Dear Jim:

Enclosed is one original executed copy of the Newhall Ranch Mitigation Agreement between the Castaic Union School District which was approved at our November 20, 1997 Board of Trustees meeting.

Thank you for the article you sent to me, and thanks for your interest in our schools. We look forward to working with you in the future.

Sincerely,

Dr. Alan K. Nishino
Superintendent

AKN/kb
Enclosures

NEWHALL LAND

13 November, 1997

Dr. Alan K. Nishino
Superintendent
Castaic Union School District
31616 North Ridge Route
Castaic CA 91384

Re: School Facilities Funding Agreement Between The Castaic Union School District
And The Newhall Land And Farming Company (Agreement)

Dear Alan:

As partial consideration for the provision of full mitigation in the above Agreement, NLF agreed to dedicate to the Castaic Union School District a parcel of land approximately 300 feet by 359.8 feet (Property) immediately north of the "LDI" lot as shown on Exhibit E of the Agreement. The dedication is subject to the following terms, among others: the Property will be conveyed expressly subject to specified NLF reservations and any and all existing rights of way, easements, encumbrances, and other matters of record as of the date of the execution of the Agreement and is conveyed in an "as is" condition, "with all faults" as of that date and the Property will be subject to NLF standard Commercial and Industrial Covenants, Conditions, and Restrictions (CC&R's).

The District has expressed concern about the potential inability to physically utilize the Property for its intended purpose resulting from its existing elevation and drainage and/or NLF's imposition of the CC&R's. It is NLF's opinion that the Property can be utilized for the District's bus operations and that the drainage and adherence to the CC&R's will not physically prevent the use of the Property.

If the Property cannot be utilized for the stated purpose as a result of the drainage of the Property at its current elevation or at an elevation at or near that of the "LDI" lot or if the CC&R's physically make the Property not usable, NLF agrees to enter into an agreement with the District to amend the above Agreement to include NLF's payment of commercial and industrial fees pursuant to State law in addition to the existing provisions of the Agreement.

Sincerely,

James M. Harter
Senior Vice President
Newhall Ranch Division

JMH:mn

SCHOOL FACILITIES FUNDING AGREEMENT BETWEEN THE CASTAIC UNION SCHOOL DISTRICT AND THE NEWHALL LAND AND FARMING COMPANY

This School Facilities Funding Agreement ("Agreement") is made at Valencia, California, as of November 20, 1997, between the CASTAIC UNION SCHOOL DISTRICT ("District"), a school district organized and existing under the laws of the State of California, on the one hand, and THE NEWHALL LAND AND FARMING COMPANY ("NLF"), a California limited partnership, on the other hand, with respect to the following facts:

A. NLF is the owner, and is presently developing, a new community, the Newhall Ranch ("Newhall Ranch"), which is located in part within District's boundaries and which is described in Exhibit A, and is hereby incorporated. District provides elementary school facilities (Grades K-5) and middle school facilities (Grades 6-8).

B. Newhall Ranch is a proposed new town which will include approximately 24,000 dwelling units in addition to commercial and industrial facilities. Total build out of Newhall Ranch will take approximately 30 years or longer and the details, including the location and extent of land uses and the number of dwelling units, are expected to change over time to meet the needs of the market. Corresponding changes in governmental approvals are also expected. The portion of Newhall Ranch that is within District is called Riverwood ("Riverwood"). It includes approximately 2,333 acres and is proposed to have approximately 2,338 single family, and 1,686 multi-family units, for an overall total of 4,024 dwelling units. The land use plan is attached hereto as Exhibit B and made a part hereof.

C. Historically, the State of California has provided a substantial portion of the money necessary to build new school facilities ("State Funding"). However, over the last several years funds have not been available from the State for this purpose and District does not believe that funds will be available from the State for this purpose in the near future.

D. District has determined, in cooperation with NLF, a financing method to mitigate the impacts below a level of significance of Riverwood on District's educational

facilities in the absence of State Funding ("Mitigation Payments").

E. Both District and NLF desire to provide a financing schedule ("Financing Schedule") and a financing plan ("Financing Plan"), as set out in this Agreement, in combination with certain Mitigation Payments, which will provide permanent facilities, including land, buildings, furnishings and equipment, ("School Facilities") to house the grades K-5 and 6-8 students who will reside in Riverwood ("Riverwood Students") and which will mitigate below a level of significance the direct and cumulative impacts on District's educational facilities. Temporary facilities to house NLF students while new School Facilities are being constructed will be provided, consistent with the provisions of Paragraph 4 hereafter. School Facilities will be constructed in accordance with the requirements and specifications contained in the Education Code and the Applicant Handbook for State School Building Lease-Purchase Program put out by the Office of Public School Construction as those requirements and specifications exist at any given time ("State Requirements and Specifications"). A copy of the State Requirements and Specifications as they currently exist is attached as Exhibit C which is hereby incorporated.

F. The construction of the first K-5 School Facility will be accomplished through the use of funds advanced by NLF in response to requests from District ("Construction Draws"). The Financing Schedule will ensure that District will always have sufficient capacity to house every Riverwood Student; the Financing Plan will minimize the financial impacts on NLF while at the same time maximizing the opportunity to obtain funds from the State for funding School Facilities or the repayment, without interest, of the funds advanced by NLF for the cost of School Facilities necessary to house Riverwood Students.

G. The Financing Schedule and the Financing Plan will ensure that the development of Riverwood, either individually or cumulatively with other projects within District's boundaries, will have no adverse impacts on District's ability to provide adequate

educational opportunities to every student in District. In particular, the Financing Schedule and the Financing Plan guarantees to District that there will be adequate School Facilities available to house every Riverwood Student.

H. District has determined that the development of Riverwood presents a unique opportunity for District to provide for mitigation of the impacts to below a level of significance that the Riverwood development is likely to have on District's educational facilities and that the Financing Schedule and the Financing Plan will provide all of the land and money necessary to provide all needed School Facilities without the need to collect any fees which might otherwise be available to District in connection with the construction of commercial or industrial buildings within Riverwood.

I. The development of Riverwood will result in a need for at least one elementary school and approximately one half of a middle school. If State funding is available, NLF's per student contribution to the acquisition and construction of the school(s) would be one half of the total per student cost. NLF is willing to take the risk that State funding will not be available to complete the acquisition and funding of these school facilities, in which case it will contribute the total per student cost. NLF will provide the site and advance funds for the construction of at least one elementary school in Riverwood and will contribute funds as set out in this Agreement to District for middle school facilities outside of Riverwood.

J. District will build the future permanent elementary K-5 school to house Riverwood Students to the State Requirements and Specifications. District may build the size school its deems appropriate ("New Elementary School"). NLF will provide a school site and funds to construct an elementary school that would house 837 students based on a traditional, single track, nine month schedule school program. Under the State program this school would house 1,004 students under a multi-track year round school system. Therefore, for the purposes of this Agreement, NLF will receive credit for providing full funding for School

Facilities for 1,004 students. The methodology to determine the construction cost of the 837 student traditional, single track, nine month schedule school program K-5 school is shown in Exhibit D, which is attached hereto and made a part hereof.

K. If the residential projects in Riverwood result in more than 1,260 K-5 Riverwood Students, NLF will provide a second elementary K-5 school site in Riverwood as further set out in this Agreement.

L. If District constructs the New Elementary School for less than 837 students on a traditional, single track, nine month schedule school program and the construction cost of the New Elementary School is less than the cost that NLF would have funded for the 837 student school under the methodology as set out in Exhibit D, then NLF will pay that difference in the method and amount as set out in this Agreement in paragraph 11, below. District shall house 1,004 Riverwood Students by housing the additional Riverwood Students at the New Elementary School or at any other District school by either, in its sole discretion, adding relocatable classrooms or, without adding relocatable classrooms, by operating the New Elementary School on a multi-track year round schedule.

M. The New Elementary School will be built on a ten acre school site or, in NLF's sole discretion, on a seven acre school site for joint use with an adjoining local public park containing at least five acres ("New Elementary School Site"). If there is a combination school site and a local park, there shall be available as part of the local park at least three useable acres for use by the school and the park design and location shall be acceptable to District. The local public park adjacent to a seven acre New Elementary School Site shall be improved and available for joint use in connection with the operation of the New Elementary School at the time that it opens for operation and shall remain available for as long afterwards as it remains in operation.

N. It is intended that the future permanent middle school to house Riverwood

Students will be built to the State Requirements and Specifications and will house a minimum of 800 students on a traditional, single track, nine month schedule, on a 20 acre site and this represents the appropriate size middle school to house Riverwood Students ("New Middle School"). District will operate the New Middle school to house 980 total students by housing the additional 180 students at the New Middle School or at any other District school by either, in its sole discretion, adding relocatable classrooms or, without adding relocatable classrooms, by operating the New Middle School on a multi-track, year-round schedule. The cost for the New Middle School shall be determined using the methodology contained in Exhibit D, and which cost includes an additional $450,000.00 to provide the permanent relocatables necessary to house the 180 students that are above the 800 students set out above. NLF shall also make a voluntary contribution of $500,000.00 to District, which District may use at its discretion for any purpose it deems necessary and appropriate. The payment of $500,000, shall be paid as follows: 1) $250,000.00 shall be paid at the time the first residential building permit is issued for Riverwood; and, 2) the remaining $250,000.00 shall be paid at the same time as paying the fees over approximately the first 2,000 units in Riverwood at the rate of $166 additional payment per single family detached dwelling unit and $68 per multifamily dwelling unit until such time as the total of $250,000.00 is paid, in addition to the fee calculated using the methodology contained in Exhibit D. The total cost for the New Middle School shall be calculated using the methodology set out in Exhibit D. The cost per student, based on a 980 student capacity, shall be calculated as set out in Paragraph 12 and represents the total cost per student for each student generated from Riverwood that NLF will pay pursuant to the terms and conditions set out in this Agreement. The cost per single family and multi-family unit is also determined thereafter pursuant to Paragraph 12.

IN LIGHT OF THE FOREGOING FACTS, IT IS MUTUALLY AGREED THAT:

1. District shall build the New Elementary School necessary to house Riverwood

Students pursuant to the terms of this Agreement and NLF will advance all of the funds needed by District to build the New Elementary School pursuant to the terms of this Agreement.

2. District shall provide NLF with written notice ("District Notice") for the New Elementary School when District reasonably determines that at least 420 Riverwood Students are estimated to exist within the next 30 months of the District Notice and that the New Elementary School is reasonably required to house Riverwood Students.

A. At such time that NLF receives the District Notice, NLF will advance as part of the Construction Draw sufficient funds for the design of the New Elementary School.

B. Within 90 days of providing District Notice to NLF, District shall provide NLF with further documentation which shall contain a description of the New Elementary School and a schematic footprint showing the location of all proposed buildings, parking lots, and other improved areas ("Project Layout") and shall state District's estimated cost to construct the New Elementary School and the amount needed for the remainder of the first Construction Draw.

3. District shall use its best efforts to provide the New Elementary School, open for operation, at the time when 420 Riverwood Students are available to be housed in the New Elementary School. NLF shall advance to District the funds required to construct the New Elementary School to a maximum as determined pursuant to the methodology set out in Exhibit D and adjusted annually to account for inflation based on the statewide cost index for Class D construction as determined by the State Allocation Board at its quarterly meetings, which adjustment shall be effective as of the date of each meeting ("Maximum Construction Cost"). If the State Allocation Board stops determining the adjustments, the adjustments shall be made using the Marshall and Swift Class D Wood Frame Cost Index for the Western United States, or another mutually agreed upon index, as of January 1 of each calendar year.

NLF shall, in its sole discretion, post an improvement bond, in a form, and by a surety, reasonably acceptable to District, or a letter of credit in favor of District in the lesser of the amount of the cost of construction set forth in District Notice or the Maximum Construction Cost and shall advance the funds required for the first Construction Draw to District within 60 calendar days of receipt of District Notice. Thereafter, District shall submit subsequent written Construction Draw requests to NLF and NLF shall advance the funds required by each subsequent Construction Draw request to District within 30 calendar days of receipt of the Construction Draw request up to the lesser of the amount of the cost of construction set forth in District Notice, plus any change orders or actual reasonable extra costs, or the Maximum Construction Cost. District shall confer with NLF as to any change orders involving extra costs in excess of 5% of the Maximum Construction Cost.

4. District shall be responsible for notifying NLF in writing that there is a necessity for installation of relocatable classrooms which are to be used to house Riverwood Students before the New Elementary School is open and that District is eligible to lease State emergency relocatable classrooms. NLF will provide the necessary funds to lease state emergency relocatable classrooms to house up to 420 Riverwood Students if the District applies for and is eligible for state emergency relocatable classrooms and the state does not have the funding or relocatable classrooms available. NLF would lease the classrooms to or for the District at no cost to the District until the opening of the New Elementary School or until the District is no longer eligible for emergency relocatable classrooms, whichever is earlier. When state matching funds are received by the District for the New Elementary School, NLF would be reimbursed for the lease costs incurred by NLF along with payment for the land, pursuant to Paragraph 10 below.

5. District and NLF shall consult with each other on the planning, design, layout, and grading of the New Elementary School and each New Elementary School Site to

maximize architectural compatibility with surrounding development and to minimize construction and maintenance costs to District to the greatest extent possible while still conforming to the State Requirements and Specifications. All decisions regarding the planning, design, layout, and grading of the New Elementary School and New Elementary School Site shall be in District's sole discretion and it is not intended that District be required to do anything that will increase its current or future costs of operation or maintenance.

6. NLF shall provide the New Elementary School Site to District in a construction ready condition within 180 calendar days of receipt of the information set out in Paragraph 2.B. The District and NLF will consult regarding the New Elementary School Site and the grading and utility plans for the Site and both parties must concur on this matter. It is the intent of District and NLF that plans, drawings, and construction documents will have been prepared and approved by the Office of the State Architect and the State Allocation Board and that a construction contract will have been awarded, or will be concurrently awarded, so that construction of the New Elementary School can begin at the time the New Elementary School Site is provided to District.

7. The New Elementary School Site shall be provided to District in a construction ready condition with all-weather access to public roads and utilities, which shall consist of one potable water line, one fire water line, one electrical line, one natural gas line, one telephone line, and up to two sewer lines, stubbed to the hook-up location indicated for each utility on pages 3-B-40-41 of Exhibit C and shown on the Project Layout, sufficient to service the New Elementary School, in place. The New Elementary School Site shall have no more than two pads with no more than a 2% grade as to each pad, including any park land being utilized. Each pad shall be compacted to the degree required by a geotechnical engineer to support the uses shown on the Project Layout without additional cost to District. If there are two pads, there shall not be a distance of more than five vertical feet between each pad.

8. NLF shall provide the New Elementary School Site to allow the construction of the New Elementary School (currently estimated to be one) in the Riverwood area of Newhall Ranch. The location of the New Elementary School Site is to be reasonably determined by NLF subject to the consent of District, which consent shall not be unreasonably withheld, the concurrence of the State Department of Education and, if required, the County of Los Angeles.

9. NLF shall lease the New Elementary School Site to District as needed by District on the terms and conditions of this Agreement. The lease shall commence 60 calendar days after receipt of District Notice. The lease for the New Elementary School Site shall be for a period of 30 years ("Lease Term") at a rental of $1 per year. The lease shall terminate if the New Elementary School is not open for operation within five years of the commencement of the lease, provided that NLF has advanced all required funds for the New Elementary School to District, or if, after the New Elementary School has opened for operation, it ceases to operate as an elementary school for five years in any seven year period. District, upon termination of the lease, shall, at District's sole expense, demolish all improvements constructed by it on the New Elementary School Site and return it to the condition it was in at the commencement of the lease and shall refund to NLF any funds advanced to District, together with interest actually earned by District, for the construction of the New Elementary School which have not been paid, irrevocably committed, or required to terminate any applicable contract.

10. The lease shall contain an option which allows District to purchase the New Elementary School Site and which District shall exercise immediately if District is able to obtain money for construction or land acquisition from any State or federal agency. The purchase price shall be the appraised value at the time of the exercise of the option or at such other time as required by applicable State or federal law plus the amount of funds advanced

by NLF pursuant to Paragraph 4. If the money received from any State or federal agency is less than the purchase price, then District shall pay NLF the amount received and any additional amounts received for the New Elementary School Sites from any State or federal agency thereafter. To the extent that District receives funds for construction or land acquisition from any state or federal agency for School Facilities acquired or constructed pursuant to this agreement and such funds are sufficient to repay NLF the full appraised value of the New Elementary School Site, such amount shall be paid. However, to the extent that District is not left with $500,000.00 in funds from the funds received from state and federal agencies, NLF shall reduce the amount it receives to ensure that District is able to retain $500,000.00 for District's use. If District is unable to exercise its purchase option during Lease Term, District shall purchase the New Elementary School Site for $1 at the end of the Lease Term. Any purchase of a New Elementary School Site which does not include the payment of the full amount of the appraised value shall be subject to a power of termination, as that term is defined in Civil Code 885.010, in favor of NLF which will require District to deed the New Elementary School Site back to NLF, to demolish all improvements constructed by it on the New Elementary School Site, and to return it to the condition it was in at the commencement of the lease if the New Elementary School fails to operate as an elementary school for five years in any seven year period. Upon exercise of the power of termination, NLF shall pay District the amount of the purchase price, without interest, paid to NLF. The power of termination shall become ineffective at such time as NLF receives the full amount of the appraised value.

11. If District constructs a New Elementary School with a capacity of less than 837 students based on a traditional, single track, nine month schedule school program as set out in recital paragraph K., then NLF will pay the balance of the funds on a pro rata basis up to the full cost of the 837 student school as set out in Exhibit D pursuant to the following

formula:

Fee	=	[(A - B)/(1004 - C)] x SGR/SF or SGR/MF
A	=	Cost of 837 Student Traditional, Single Track, Nine Month Schedule School Program as set out in Exhibit D
B	=	Cost of New Elementary School of less than 837 students actually built by District
C	=	Student Capacity of New Elementary School based on multi-track year round schedule.
SGR/SF	=	Student Generation Rate for single family units based on the number of K-5 students living in single family units in Riverwood divided by the total number of single family units in Riverwood as of the date that the total number of students exceeds the number represented by C.
SGR/MF	=	Student Generation Rate for multi family units based on the number of K-5 students living in multi family units in Riverwood divided by the total number of multi family units in Riverwood as of the date that the total number of students exceeds the number represented by C.

Such fee will be payable by NLF at issuance of and for each building permit issued in excess of the number of units that would be required to be built to generate the number of students represented by C in the formula. Such fee will be paid by NLF until 1,004 students have been generated.

12. The cost of the New Elementary School and the New Middle School shall be calculated using the methodology set out in Exhibit D. The cost per K-5 student shall be calculated by dividing the cost of the New Elementary School by 1004 students. The cost per 6-8 student shall be calculated by dividing the cost of the New Middle School by 980 students.

The SGR shall be calculated at the time the 1500th building permit has been issued for each residential unit in Riverwood, excluding therefrom all units for which an occupancy permit has been issued in the prior three years. For the purpose of calculating the SGR, a recognized demographer shall be utilized by District to determine the actual number of students residing within Riverwood, excluding, however, the housing units for which building permits had been issued for the prior three years. That SGR shall be utilized in determining all fees being paid until all residential units have been constructed in Riverwood. At such time, the SGR shall be calculated for each of the two categories of housing by dividing the number of K-5 students and 6-8 students existing in Riverwood in each of the two categories of housing by the number of single family and multi-family units respectively, within Riverwood for each of the two categories of housing. Multi-family units shall be defined to include apartment units, condominium units, cooperative apartments, units in stock cooperatives, and single family attached units. Single family and multi-family units subject to age restrictions which require that all permanent residents be over 55 years of age ("Age-Restricted Units") shall not be counted. The single family SGR and the multi-family SGR so calculated shall be used in determining the fees per unit to be paid pursuant to this agreement. The appraisal value of land for the property required for the New Elementary School Site and New Middle School Site shall be redone every two years and the fees per unit revised to reflect the new appraised values. The fee per unit shall be calculated for the New Elementary School by multiplying the cost per K-5 student times the K-5 single family SGR and the multi-family SGR, respectively. The fee per unit shall be calculated for the New Middle School by multiplying the cost per 6-8 student times the 6-8 single family SGR and the multi-family SGR, respectively.

A. At such time that District prepares to purchase the New Elementary School Site pursuant to Paragraph 10, the District shall have a fair market appraisal of the New

Elementary School Site prepared and presented to NLF for review and approval. District shall, at such time that NLF is required to pay fees to be used for the New Middle School, provide a fair market appraisal of the New Middle School Site, or a fair market appraisal of the site upon which the last District middle school was constructed if a New Middle School Site is not known at that time, and present it to NLF for review and approval. District shall have the Sites appraised by an MAI appraiser to determine the fair market value of the Sites. Such appraisal values shall then be used in all calculations pursuant to Paragraph 12.

B. If District and NLF have not been able to reach agreement on a fair market appraised value of the Sites pursuant to Paragraph 12.A., after meeting in good faith to reach agreement, then the following method shall be used to establish the appraised value. The District and NLF shall each appoint one appraiser and the two appraisers appointed shall select a third appraiser. All appraisers shall be independent and shall have at least five years' experience in the appraisal of real property substantially similar to the Sites, and shall be members of professional organizations such as MAI or equivalent. For the purpose of such appraisal, the term "fair market value" shall mean the price that a ready and willing buyer would pay to a ready and willing seller of the Sites, with the Sites able to be used for normal development at their highest and best use, as of the date of the appraisal, if the property were exposed for sale on the open market for a reasonable period of time. The fair market value of each Site shall be deemed to be the arithmetic average of the two appraisals closest in value to each other and the third appraisal shall be disregarded.

C. Every two years after the initial appraised value of the Sites has been established pursuant to Paragraphs 12.A or 12.B., the Sites shall have the appraised value updated, which updated value shall be used for the calculations in Paragraph 12. District and NLF shall jointly select an MAI appraiser acceptable to each and such appraiser shall be provided with all previous appraisal material, shall update the material and then provide an

updated appraisal of the Site(s) and deliver such updated appraisal to District and NLF. If District and NLF have not been able to jointly agree on an appraiser, then the procedures set out in Paragraph 12.B. shall be followed to determine an updated appraised value of the Site(s).

13. If more than 1,004 K-5 students are generated by projects from Riverwood, for those students in excess of 1,004, NLF shall pay a fee per dwelling unit. Such fee is to be paid at the time of issuance of a building permit. The fee per dwelling unit shall be determined as set out in Paragraph 12. Half of any fee paid by NLF to District pursuant to this paragraph shall be treated as a loan to District, bearing no interest, and is repayable to NLF within thirty days of such time that District receives any State funds for School Facilities. Such repayment to NLF shall only be required to the extent and in the amount received by District up to the total amount of the NLF loan. Said loan shall terminate at such time as District is no longer eligible for State matching funds.

14. If more than 1,260 K-5 students are generated from NLF projects in Riverwood, then NLF will reserve a second New Elementary School Site in Riverwood. District shall have full discretion to determine whether it desires to build a second New Elementary School in Riverwood on the land reserved by NLF. District has one year from the date that the number of elementary students generated from Riverwood exceed 1,260 to notify NLF in writing that District will utilize and acquire the New Elementary School Site. District shall then complete the acquisition from NLF within one year of the notification to NLF of District's desire to acquire the New Elementary School Site, by paying a purchase price of the appraised value of the New Elementary School Site as of the date of District's written notice. District shall use the funds paid by NLF from those fees set out in paragraph 13 above to pay for the acquisition of the New Elementary School Site from NLF. NLF shall provide the New Elementary School Site as set out in paragraph 7 above. NLF shall continue to pay those fees

set out in paragraph 13 above for the remainder of the residential units built in Riverwood. NLF shall provide written notice to District when all projects in Riverwood are completed. The written notice shall also, after consultation with District, specify the number of K-5 Riverwood Students residing in District or are expected to be generated from the Riverwood project based upon the SGR determined after the 1500th building permit has been issued. If the number of K-5 Riverwood Students is less than 1,260 as of the date of the written notification, NLF's obligation to provide the second New Elementary School Site in Riverwood shall automatically terminate.

15. District shall use its best efforts to maximize its eligibility to obtain funding for the New Elementary School(s) and the New Elementary School Site(s) from any State or federal agency and shall take all reasonable efforts to obtain such funding, subject to the provisions of Section 23 of this Agreement. Toward this end, District and NLF will, upon NLF's request, revise this Agreement to provide a different procedure, including design/build and Public/Private Partnership concepts, which will increase the opportunity to obtain funding from any State or federal agency as long as there is no increased cost to either District or NLF. District shall, in any event, use its best efforts to ensure that NLF receives any funds received from any State or federal agency in connection with the acquisition of the New Elementary School Site. District shall be entitled to retain funds received from any State or federal agency up to the cost of six permanent relocatable classrooms for the New Elementary School, if District paid the cost and installed six permanent relocatable classrooms for the New Elementary School. However, if the law is changed to allow local bond issues to be approved by a majority of the voters, District shall use its best efforts to put a local bond issue on the ballot and have it approved. If such a local bond issue passes, then NLF shall be reimbursed for the appraised value of the New Elementary School Site before District retains funds received from the State or any federal agency for permanent relocatable classrooms, for which

it paid.

16. District shall provide the County of Los Angeles with information for the County's Development Monitoring System based on a capacity of 1004 K-5 students for the New Elementary School and 980 for the New Middle School.

17. The initial SGR to be used for the New Middle School shall be .148 for each single family unit and .061 for each multi-family unit. Multi-family units shall be defined to include apartment units, condominium units, cooperative apartments, units in stock cooperatives and single family attached units. Single family and multi-family units subject to age restrictions which require that all permanent residents be over 55 years of age ("Age-Restricted Units") shall not be counted. Said initial rate shall remain in place until such time as a new SGR is calculated pursuant to paragraph 12 above.

18. District shall determine the cost for the New Middle School pursuant to the methodology set out in Exhibit D. The cost per student of the New Middle School shall be determined by dividing the cost by 980 students to be housed in the school. The school mitigation fee for each of the two categories of housing shall be determined as set out in Paragraph 12 and using the methodology in Exhibit D (the "School Mitigation Fee"). The School Mitigation Fee shall be adjusted annually to reflect the change in the cost of the New Middle School to account for inflation based on the statewide cost index for Class D construction as determined by the State Allocation Board at its quarterly meetings, which adjustment shall be effective each meeting ("Maximum Construction Cost"). If the State Allocation Board stops determining the adjustments, the adjustments shall be made using the Marshall and Swift Class D Wood Frame Cost Index for the Western United States, or another mutually agreed upon index, as of January 1, of each calendar year.

19. The School Mitigation Fee for grades 6-8 shall be paid to District at the same time that an application for a building permit for the construction of a single family or multi-

family unit, other than an Age-Restricted Unit, is submitted to the County of Los Angeles, or any other governmental entity which has the authority to issue building permits. Fifty percent of the School Mitigation fee shall be treated as a loan to District by NLF. The loan shall bear no interest, but shall be immediately due and payable to NLF within thirty (30) days of District's receipt of any money received from the State that is designated for the acquisition or construction of any or all of the New Middle School. Such repayment to NLF shall only be required to the extent and in the amount received by District up to the total amount of the NLF loan.

20. All School Mitigation fees shall be deposited into a separate interest bearing account maintained by District. All School Mitigation Fees and the interest on those Fees shall be used only for the acquisition and construction of School Facilities and/or leasing interim facilities. However, the additional payment of $500,000.00, payable pursuant to paragraph N above, may be used solely at the discretion of the District.

21. District shall, immediately upon receipt of the School Mitigation Fee for each single family or multi-family unit, other than an Age-Restricted Unit, provide any written certification required to obtain building permits or other development approvals to the County of Los Angeles, or any other governmental entity which requires such certification. The certification shall be in writing and shall be provided for whatever number of single family or multi-family units are requested by NLF or any assignee of NLF at any time.

22. District shall, immediately upon request by NLF or any of its assignees and without the payment of any fees whatsoever, provide any written certification required to obtain building permits or other development approvals for the construction of an Age-Restricted Unit or a commercial or industrial building to the County of Los Angeles, or any other governmental entity which require such certification. The certification shall be in writing and shall be provided for whatever number of Age-Restricted Units or commercial or

industrial buildings are requested by NLF or any of its assignees at any time.

23. District agrees to actively seek state funding for facilities to house Riverwood students under the Leroy E. Greene Act or any similar state program and shall maintain an active, up-to-date priority one application with the office of Public School Construction for new State funding. District, when using relocatable classrooms shall, to the best of its ability, lease such classrooms rather than purchase relocatable classrooms. District shall not, however, be precluded from taking title to leased classrooms at the end of a lease term. District shall not be precluded from submitting applications for state funding for other facilities needed by District.

24. District shall not, under any circumstances:

A. Exercise any power or authority under current or future law to levy or impose an exaction of land, goods, money, or services, whether denominated a fee, charge, dedication, or tax, against any development of Riverwood except as to any District-wide general tax, special tax, or assessment for School Facilities;

B. Require, request, or cooperate with the County of Los Angeles, the City of Santa Clarita, or any other governmental entity to exercise its power or authority to levy or impose an exaction of land, goods, money, or services, whether denominated a fee, charge, dedication, or tax, as to Riverwood Property;

C. Oppose the development of either Riverwood or Newhall Ranch, except as it pertains to the health, safety and welfare of the school operations, as a whole; or

D. Sponsor, or require the formation of, a Communities Facilities District, except on a District-wide basis, for Riverwood without the express, written consent of NLF which consent may be given or withheld in NLF's sole discretion. District shall not unreasonably refuse to act as sponsor for a Community Facilities District if requested to do so by NLF.

25. As further consideration for the provisions of full mitigation in this Agreement, NLF will dedicate a parcel of land approximately 300 feet by 359.8 feet (Property) immediately north of the "LDI" lot to the Castaic Union School District, with the Property and the "LDI" lot shown on Exhibit E, attached to this Agreement, under the following terms:

A. Conveyance of the Property will be in fee at no cost to the District for the land.

B. The Property will be conveyed expressly subject to the NLF reservations as summarized below and any and all existing rights of way, easements, encumbrances, and other matters of record as of the date of the execution of this Agreement and is conveyed in an "AS IS" condition, "WITH ALL FAULTS" as of such date.

C. The dedication shall be subject to a power of termination as that term is defined in Civil Code Section 885.010, for a period of eight years plus seven days from the date of execution of the Newhall Ranch mitigation agreement or ten years from the issuance of the first grading permit within Newhall Ranch, whichever is sooner. The power of termination is to be recorded against the property so that title reverts back to NLF if the property is not used for School District purposes for a continuous period of two years within the next four years or if the adjacent "LDI" property is not acquired by the District within seven years of the execution of the Newhall Ranch mitigation agreement. NLF shall have the sole right to decide whether to accept the property back or not. If NLF decides to take back the property, NLF will compensate the District for the District's remaining undepreciated cost of the improvements constructed on the dedicated property, using straight line depreciation of those costs over a fifteen year life.

D. The property will be subject to NLF standard Commercial and Industrial Covenants, Conditions, and Restrictions.

E. Any title insurance is entirely up to the District to acquire, if it so

desires.

F. NLF will retain all water, mineral, and oil and gas rights underlying the Property.

G. District's use of the Property is subject to existing Southern California Edison Company easements. NLF makes no guarantee of the use of the Property and District is responsible for determining the uses acceptable under existing zoning, easements, etc.

H. Close of escrow shall be sixty (60) days after the final approval by the County of Los Angeles after expiration of all applicable appeal periods without appeal or entry of final judgment after exhausting all appeal rights affirming the approval of the Newhall Ranch Specific Plan, certification of the Environmental Impact Report (EIR), and Development Agreement for the development of Newhall Ranch in substantial compliance with Newhall's application for the Specific Plan.

I. Other standard terms to be negotiated in a formal purchase and sale agreement.

26. The funds and land to be provided to District by NLF pursuant to the terms of this Agreement constitute the entire extent of NLF's obligation to provide School Facilities for Riverwood. District shall not require or accept any fees in connection with the development of Riverwood which might otherwise be available to it under current or future State law, the Valley-Wide Joint School Fee Resolution, or by any other means. Further, the District shall not be entitled to collect any fees from NLF in connection with the construction of commercial or industrial buildings within Riverwood. District shall inform the William S. Hart Union High School District that the amount of any such fees that would be otherwise available to District shall not be collected. NLF agrees that upon unification by District and subject to any agreement between the District and Hart, a mitigation for 9-12 students generated after unification occurs will be paid to the new District equivalent to that agreed to with the Hart

District for grades 9-12 mitigation, if any, but subject to an appropriate land value adjustment.

27. District shall provide written certification upon written request from NLF that adequate School Facilities for District's K-8 needs either exist, or that the Financing Schedule and the Financing Plan provided by this Agreement guarantee their availability as needed, to house Riverwood Students. This written certification shall be given to the County of Los Angeles, or any other governmental entity which may have development approval authority over Riverwood as requested by NLF.

28. No development, change of development, governmental approval, nor change in any governmental approval of Riverwood shall constitute the basis for any change or termination of this Agreement because this Agreement provides for the mitigation of all impacts, direct and cumulative, of Riverwood on District's ability to provide adequate educational opportunities to every student in District.

29. District, immediately upon request by NLF, shall provide any written certification required to obtain building permits or other development approvals for Riverwood within the District. The written certifications shall be provided for whatever number of residential dwelling units or commercial or industrial buildings are requested by NLF at any time.

30. NLF shall have the right, in its sole discretion, to sell or encumber Riverwood, improved or unimproved and in whole or in part, by any deed, mortgage, deed of trust, or other security device. No sale, transfer, or encumbrance of Riverwood shall affect NLF's obligations under this Agreement, except as provided in paragraph 33. Neither this Agreement nor any breach of this Agreement shall defeat, invalidate, diminish, or impair the lien or priority of any deed, mortgage, deed of trust, or other security device.

31. District and NLF, within 30 calendar days of the written request, shall perform any acts and prepare, sign, deliver, file, and record any documents reasonably required to

obtain the goals, and to satisfy the conditions, contained in this Agreement. This includes, but is not limited to, providing the requesting party with a written statement certifying that:

A. This Agreement is unmodified and in full force and effect or, if there have been modifications, that this Agreement, as modified, is in full force and effect, stating the date and nature of any modifications; and

B. There are no current uncured defaults under this Agreement or, if there are any, the dates and natures of the defaults.

32. Any District Notice, request for a Construction Draw, information as to District's determination of student generation factors, or other document which would impose a duty on NLF or change the extent of NLF's obligations under this Agreement shall be accompanied by reasonable supporting documentation at the time that it is provided to NLF by District.

33. NLF is acting as the master developer of NLF's Land and intends to sell portions of NLF's Land to builders who will construct and sell residential, commercial, and industrial buildings to the public. NLF shall have the unconditional right to assign any right or obligation under this Agreement to anyone at any time. Whenever this Agreement provides NLF with a right, that right may be exercised by an assignee of that right to the same extent that NLF could have exercised that right. The assignment of any right or obligation under this Agreement shall be in writing and a copy of the assignment shall be provided to District. No such assignment shall relieve NLF of any of its obligations under this Agreement without District's written consent which consent shall not unreasonably be withheld.

34. This Agreement is entered into solely for the benefit of District and NLF and their successors, transferees, and assigns. Other than District and NLF and their successors, transferees and assigns, no third person shall be entitled, directly or indirectly, to base any claim or to have any right arising from, or related to, this Agreement.

35. This Agreement contains the entire agreement and understanding concerning the funding of educational facilities to house Riverwood Students and supersedes and replaces all prior negotiations and proposed agreements, written or oral. District and NLF acknowledge that neither the other party nor its agents or attorneys has made any promise, representation, or warranty whatsoever, express or implied, not contained herein to induce the execution of this Agreement and acknowledges that this Agreement has not been executed in reliance upon any promise, representation, or warranty not contained herein.

36. This Agreement may not be amended except in writing and signed by District and NLF.

37. District and NLF acknowledge that each has conducted an independent investigation of the facts concerning the development of Riverwood, the impact that Riverwood Students will have on District's educational facilities, and the costs of housing Riverwood Students.

38. District and NLF desire to resolve any disputes as to the meaning of any portion of this Agreement or the rights or obligations of District or NLF under it as quickly as possible. Therefore any such disputes shall be resolved by binding arbitration conducted by a mutually agreed upon retired judge of the Los Angeles Superior Court. If District and NLF are unable to agree on the arbitrator within 30 calendar days of the receipt of a request for arbitration, they shall request that the presiding judge of the Los Angeles Superior Court designate one. District and NLF shall each pay half of the cost of the arbitration and each shall be responsible for its own costs as to any such arbitration.

39. Except as provided in paragraph 38, if it becomes necessary to enforce any of the terms of this Agreement, the prevailing party shall be entitled to reasonable attorneys' fees and other costs of litigation in addition to any other relief to which it may be entitled.

40. In interpreting this Agreement, it shall be deemed that it was prepared by the

parties jointly and no ambiguity shall be resolved against either party on the premise that it or its attorneys was responsible for drafting this Agreement or any provision hereof.

41. Each individual signing this Agreement warrants and represents that he or she has been authorized by appropriate action of the party which he or she represents to enter into this Agreement on behalf of the party.

42. All notices, demands, and communications between District and NLF shall be given by personal delivery, registered or certified mail, postage prepaid, return receipt requested, Federal Express or other reliable private express delivery, or by facsimile transmission. Such notices, demands, or communications shall be deemed received upon delivery if personally served or sent by facsimile or after three business days if given by other approved means as specified above. Notices, demands, and communications shall be sent:

To District: Castaic Union School District
Attn: Superintendent
31616 North Ridge Route
Castaic, Ca 91384
Fax No: (805) 257-5737

To NLF: The Newhall Land and Farming Company
Attn: President
23823 Valencia Blvd.
Valencia, CA 91355
Fax No: (805) 255-3960

With a copy to: Steven D. Zimmer
Rupp, Holmberg & Zimmer
Post Office Box 1426
Oxnard, California 93032-1426
Fax No: (805) 385-8891

The foregoing names, addresses, and fax numbers may be changed at any time by a written notice given as provided above.

43. This Agreement and all rights and obligations arising out of it shall be construed in accordance with the laws of the State of California.

44. Any litigation arising out of this Agreement shall be conducted only in Los Angeles County, California.

45. This Agreement may be signed in one or more counterparts and which, taken together, shall constitute one original document.

46. Recitals A through N are true and correct and are hereby incorporated.

47. The terms and conditions of this Agreement shall be incorporated in every environmental impact report, environmental monitoring program, general plan amendment, specific plan, and tentative subdivision map approval given by Los Angeles County or any other approving agency for Riverwood and Newhall Ranch.

48. NLF agrees to fund school facilities which are built to State Requirements and Specifications pursuant to the terms set out in this agreement. If the State formally amends the State Requirements and Specifications to include the State's new "class size reduction program", the costs and fees in the agreement will be adjusted appropriately. However, prior to adjustments to the costs and fees, all State allowances and/or contributions to District for capital outlay purposes to offset the costs of the "class size reduction program" shall be deducted from the costs and fees to be paid by NLF. If the "class size reduction program" remains a voluntary State program, NLF shall only pay such fees and costs as otherwise set out in the agreement.

Dated: November 20, 1997

BOARD OF TRUSTEES OF THE
CASTAIC UNION SCHOOL DISTRICT

By: _____
PRESIDENT OF THE BOARD OF
TRUSTEES OF THE CASTAIC
UNION SCHOOL DISTRICT

[Signatures continued on next page]

(Signatures continued from previous page)

ATTEST:

CLERK OF THE BOARD OF TRUSTEES
OF THE CASTAIC UNION SCHOOL DISTRICT

Dated: November 20, 1997

THE NEWHALL LAND AND FARMING COMPANY (A California Limited Partnership)

By: NEWHALL MANAGEMENT LIMITED PARTNERSHIP
Managing General Partner

By: NEWHALL MANAGEMENT CORPORATION
Managing General Partner

By: _____
Its: President

By: _____
Its: Sr. V.P.

SIKAND
Engineering
Planning
Surveying

15230 Burbank Blvd. Van Nuys, CA 91411
Telephone:(818) 787-8560 (213) 873-6853

Written by	DAN MAY	Date	6-8-94	Work Order No.	1020-234-11
Checked by		Date		Description No.	5496
Client	THE NEWHALL LAND AND FARMING COMPANY			Area	

LEGAL DESCRIPTION

WEST RANCH

GENERAL PLAN AMENDMENT BOUNDARY

THOSE PORTIONS OF THE RANCHO SAN FRANCISCO, IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA PER MAP RECORDED IN BOOK 1, PAGES 521 AND 522, OF PATENTS, RECORDS OF SAID COUNTY AND THOSE PORTIONS OF THE RANCHO SIMI PER MAP RECORDED IN BOOK 39 PAGE 77 OF MISCELLANEOUS RECORDS, RECORDS OF SAID COUNTY AND THOSE PORTIONS OF FRACTIONAL SECTIONS 15, 21 AND 22 IN TOWNSHIP 4 NORTH, RANGE 17 WEST, SAN BERNARDINO MERIDIAN AND THE NORTHEAST QUARTER OF SECTION 16 IN SAID TOWNSHIP AND RANGE DESCRIBED AS A WHOLE AS FOLLOWS: BEGINNING AT THE NORTHWESTERLY CORNER OF LOT 11 OF LICENSED SURVEYOR'S MAP RECORDED IN BOOK 27 PAGES 22 TO 26, OF RECORDS OF SURVEYS, RECORDS OF SAID COUNTY, SAID CORNER IS AT THE INTERSECTION OF THE NORTHERLY LINE OF SAID RANCHO SAN FRANCISCO WITH THE SOUTHWESTERLY BOUNDARY OF THE COUNTY OF LOS ANGELES; THENCE

1. EASTERLY ALONG SAID NORTHERLY LINE TO THE WESTERLY LINE OF THE EAST 2.16 ACRES OF GOVERNMENT LOT 4 IN SAID FRACTIONAL SECTION 21 AS DESCRIBED IN DEED RECORDED MAY 23, 1967 AS INSTRUMENT NO. 164, OF SAID OFFICIAL RECORDS; THENCE
2. NORTHERLY ALONG LAST SAID WESTERLY LINE TO THE NORTHERLY LINE OF SAID FRACTIONAL SECTION 21; THENCE
3. EASTERLY ALONG SAID NORTHERLY LINE TO THE SOUTHWESTERLY CORNER OF SAID FRACTIONAL SECTION 15; THENCE
4. NORTHERLY ALONG THE GENERAL WESTERLY LINE OF PARCEL TWO OF CERTIFICATE OF COMPLIANCE NO. 101,171 FOR LOT LINE ADJUSTMENT RECORDED OCTOBER 1, 1992 AS INSTRUMENT NO. 92-1838357 OF OFFICIAL RECORDS, RECORDS OF SAID COUNTY; THENCE
5. NORTHERLY ALONG LAST SAID GENERAL WESTERLY LINE TO THE SOUTHERLY LINE OF THE NORTHEAST QUARTER OF SAID SECTION 16; THENCE

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Telephone:(818) 787-8550 (213) 873-5853

Written by	DAN MAY	Date	6-8-94	Work Order No.	1020-234-11
Checked by		Date		Description No.	5496
Client	THE NEWHALL LAND AND FARMING COMPANY			Area	

LEGAL DESCRIPTION

6. WESTERLY, NORTHERLY AND EASTERLY ALONG THE SOUTHERLY, WESTERLY AND NORTHERLY LINES, RESPECTIVELY, OF SAID NORTHEAST QUARTER TO THE NORTHWEST CORNER OF SAID FRACTIONAL SECTION 15; THENCE
7. EASTERLY AND SOUTHERLY ALONG THE NORTHERLY AND EASTERLY LINES, RESPECTIVELY, OF SAID PARCEL TWO TO THE CENTERLINE OF HENRY MAYO DRIVE (SAUGUS-VENTURA ROAD); THENCE
8. EASTERLY ALONG SAID CENTERLINE OF HENRY MAYO DRIVE TO THE NORTHERLY PROLONGATION OF THE WESTERLY BOUNDARY OF PARCEL MAP NO. 15541 AS SHOWN ON MAP FILED IN BOOK 177 PAGES 58 TO 60, INCLUSIVE, OF PARCEL MAPS, RECORDS OF SAID COUNTY; THENCE
9. SOUTHERLY, NORTHEASTERLY AND NORTHWESTERLY ALONG THE WESTERLY, SOUTHEASTERLY AND NORTHEASTERLY BOUNDARY OF SAID PARCEL MAP NO. 15541 AND ITS NORTHWESTERLY PROLONGATION TO SAID CENTERLINE OF HENRY MAYO DRIVE; THENCE
10. NORTHEASTERLY ALONG SAID CENTERLINE NORTH 50°28'02" EAST 386.59 FEET; THENCE
11. LEAVING SAID CENTERLINE SOUTH 39°55'04" EAST 1554.40 FEET; THENCE
12. NORTH 47°50'17" EAST 611.85 FEET; THENCE
13. NORTH 29°20'00" EAST 838.84 FEET; THENCE
14. NORTH 64°49'31" EAST 275.84 FEET; THENCE
15. SOUTH 79°52'05" EAST 306.42 FEET; THENCE
16. SOUTH 64°22'57" EAST 428.58 FEET; THENCE
17. SOUTH 84°14'30" EAST 484.01 FEET; THENCE
18. SOUTH 03°11'11" WEST 363.11 FEET; THENCE
19. SOUTH 30°09'49" EAST 756.85 FEET; THENCE
20. SOUTH 00°15'46" EAST 330.84 FEET; THENCE
21. SOUTH 81°09'51" EAST 570.60 FEET; THENCE
22. SOUTH 41°36'19" EAST 381.30 FEET; THENCE
23. SOUTH 08°02'56" WEST 996.00 FEET; THENCE

SIKAND
Engineering
Planning
Surveying

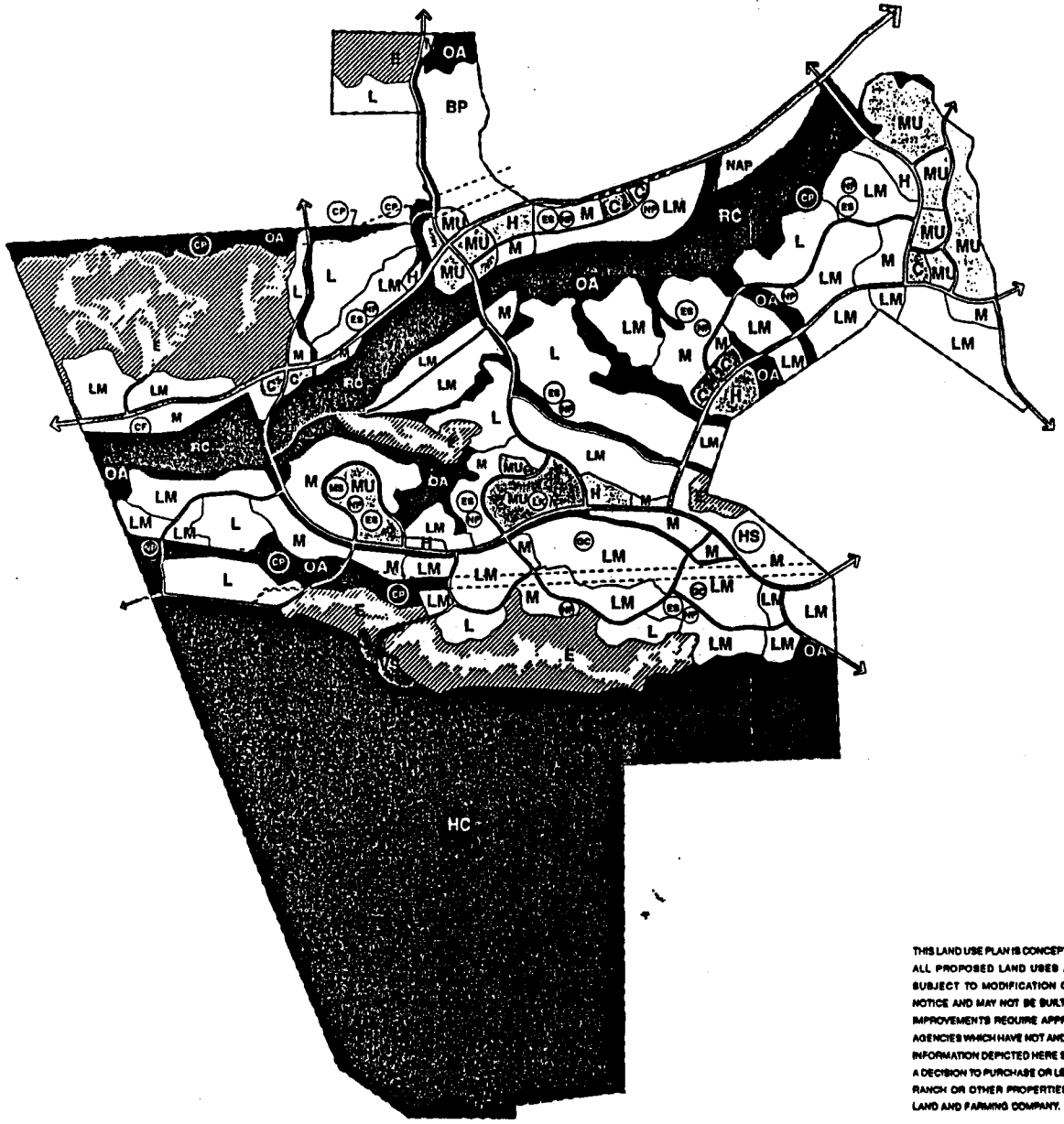
15230 Burbank Blvd. Van Nuys, CA 91411
Telephone:(818) 787-8650 (213) 873-5853

Written by	DAN MAY	Date	6-8-94	Work Order No.	1020-234-11
Checked by		Date		Description No.	5496
Client	THE NEWHALL LAND AND FARMING COMPANY			Area	

LEGAL DESCRIPTION

24. SOUTH 29°49'25" EAST 572.21 FEET; THENCE
25. SOUTH 03°42'18" EAST 1595.64 FEET; THENCE
26. SOUTH 24°41'31" EAST 939.41 FEET; THENCE
27. SOUTH 07°49'47" EAST 3173.03 FEET; THENCE
28. SOUTH 25°21'02" EAST 529.33 FEET; THENCE
29. SOUTH 42°13'08" EAST 708.10 FEET TO THE NORTHWESTERLY LINE OF THE EASEMENT TO SOUTHERN CALIFORNIA EDISON CO. DESCRIBED IN DOCUMENT RECORDED JULY 12, 1966 AS INSTRUMENT NO. 2217 IN BOOK D3363-475 OF SAID OFFICIAL RECORDS; THENCE
30. SOUTHWESTERLY ALONG SAID NORTHWESTERLY LINE 293.14 FEET, MORE OR LESS, TO THE NORTHEASTERLY BOUNDARY OF PARCEL MAP NO. 15955 AS SHOWN ON MAP FILED IN BOOK 188 PAGES 90 TO 95 OF SAID PARCEL MAPS; THENCE
31. NORTHWESTERLY, SOUTHWESTERLY AND SOUTHEASTERLY ALONG THE NORTHEASTERLY, NORTHWESTERLY AND SOUTHWESTERLY LINES OF SAID PARCEL MAP TO THE NORTHERLY TERMINUS OF THAT COURSE IN THE WESTERLY LINE OF SAID PARCEL MAP SHOWN AS NORTH 02°21'36" WEST 2121.55 FEET ON SAID MAP; THENCE
32. SOUTHERLY ALONG SAID WESTERLY LINE AND ITS SOUTHERLY PROLONGATION TO THE SOUTHWESTERLY CORNER OF SAID PARCEL MAP; THENCE
33. WESTERLY ALONG THE SOUTHERLY BOUNDARY OF SAID RANCHO SAN FRANCISCO TO THE EASTERLY BOUNDARY OF SAID RANCHO SIMI; THENCE
34. SOUTHERLY ALONG SAID EASTERLY BOUNDARY TO THE SOUTHERLY LINE OF LOT 13 OF LICENSED SURVEYOR'S MAP RECORDED IN BOOK 27 PAGES 19 TO 21, INCLUSIVE, OF SAID RECORDS OF SURVEYS; THENCE
35. WESTERLY, SOUTHERLY AND NORTHWESTERLY ALONG THE SOUTHERLY, EASTERLY AND SOUTHWESTERLY LINES OF SAID LOT 13 AND ALONG THE SOUTHWESTERLY LINE OF LOT 15 OF LAST SAID MAP TO SAID SOUTHWESTERLY BOUNDARY OF THE COUNTY OF LOS ANGELES; THENCE
36. NORTHWESTERLY ALONG SAID BOUNDARY TO THE POINT OF BEGINNING

CONTAINING 11,958 ACRES, MORE OR LESS.



THIS LAND USE PLAN IS CONCEPTUAL AND PRELIMINARY, AND ALL PROPOSED LAND USES AND IMPROVEMENTS ARE SUBJECT TO MODIFICATION OR ELIMINATION WITHOUT NOTICE AND MAY NOT BE BUILT. THE LAND USE PLAN AND IMPROVEMENTS REQUIRE APPROVALS BY GOVERNMENTAL AGENCIES WHICH HAVE NOT AND MAY NOT BE OBTAINED. THE INFORMATION DEPICTED HERE SHOULD NOT BE A BASIS FOR A DECISION TO PURCHASE OR LEASE PROPERTY IN NEWHALL RANCH OR OTHER PROPERTIES OWNED BY THE NEWHALL LAND AND FARMING COMPANY. MAY, 1998.

NEWHALL RANCH™
A Community By Nature
Newhall Ranch Company

- E — ESTATE RESIDENTIAL
- L — LOW RESIDENTIAL
- LM — LOW-MEDIUM RESIDENTIAL
- M — MEDIUM RESIDENTIAL
- H — HIGH RESIDENTIAL
- MU — MIXED USE
- C — COMMERCIAL (RETAIL/OFFICE)
- BP — BUSINESS PARK
- VS — VISITOR SERVING
- OA — OPEN AREA
- RC — RIVER CORRIDOR SPECIAL MANAGEMENT AREA
- HC — HIGH COUNTRY SPECIAL MANAGEMENT AREA
- ROADS
- SCE/UTILITY EASEMENTS

POTENTIAL LOCATIONS:

- (CP) COMMUNITY PARK
- (NP) NEIGHBORHOOD PARK
- (ES) ELEMENTARY SCHOOL
- (MS) MIDDLE SCHOOL
- (HS) HIGH SCHOOL
- (CF) COMMUNITY FACILITIES
- (GC) GOLF COURSE
- (LK) LAKE

SCALE:

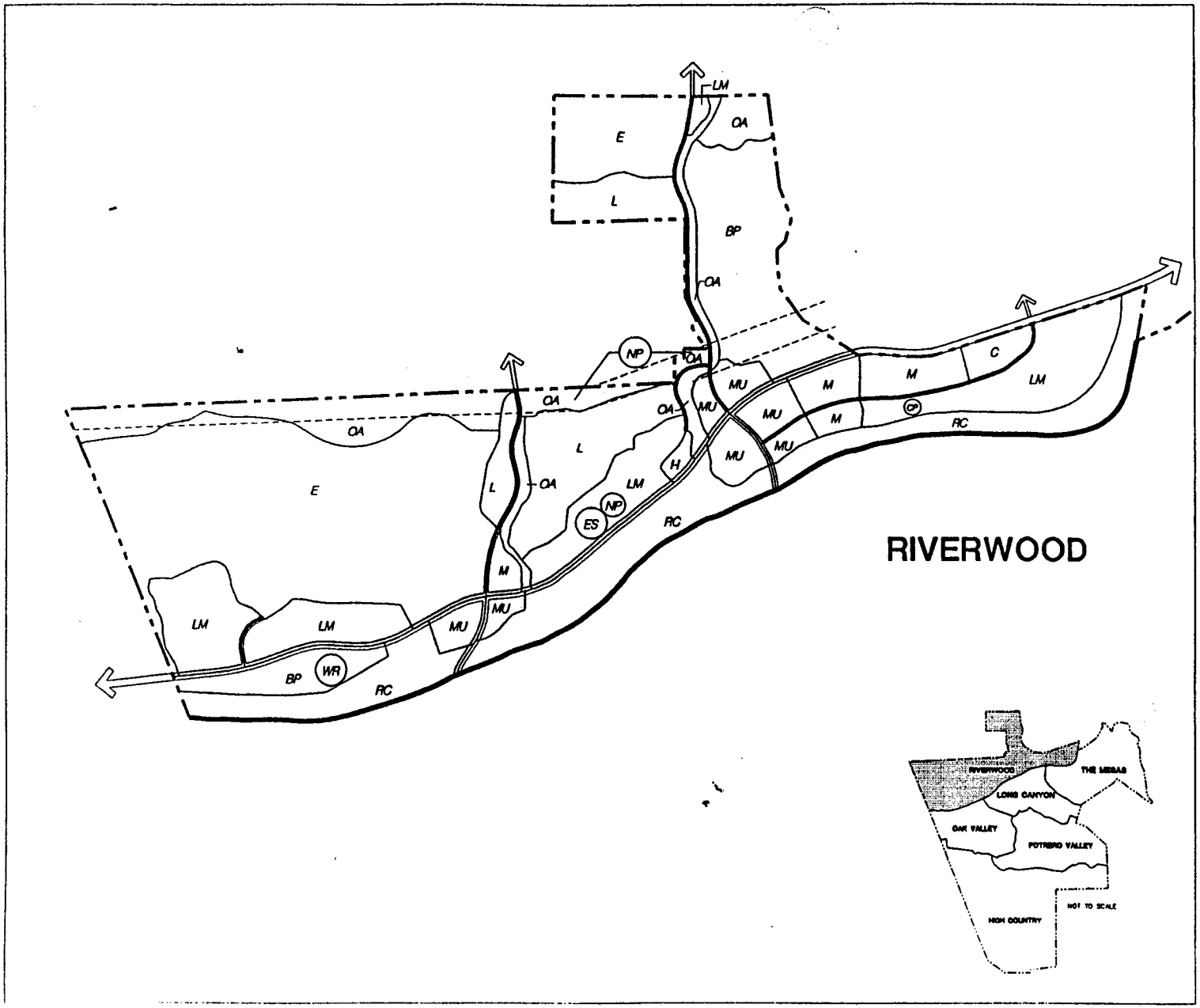
100 Acres

English

Metric

LAND USE PLAN

FORMA



NEWHALL RANCH
SPECIFIC PLAN

Prepared For: Newhall Ranch Company

LEGEND

- E — ESTATE RESIDENTIAL
- L — LOW RESIDENTIAL
- LM — LOW-MEDIUM RESIDENTIAL
- M — MEDIUM RESIDENTIAL
- H — HIGH RESIDENTIAL
- MU — MIXED-USE
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- OA — OPEN AREA
- RC — RIVER CORRIDOR SPECIAL MANAGEMENT AREA
- HC — HIGH COUNTRY SPECIAL MANAGEMENT AREA
- ROADS
- SCE/UTILITY EASEMENTS

LAND USE OVERLAYS (POTENTIAL LOCATIONS)

- CP — COMMUNITY PARK
- NP — NEIGHBORHOOD PARK
- ES — ELEMENTARY SCHOOL
- MS — MIDDLE SCHOOL
- HS — HIGH SCHOOL
- LIB — LIBRARY
- GC — GOLF COURSE
- LK — COMMUNITY LAKE
- FS — FIRE STATION
- S — ELECTRICAL SUBSTATION
- WR — WATER RECLAMATION PLANT

NORTH

10 ACRES 40 ACRES

EXHIBIT 2.3-3

RIVERWOOD VILLAGE PLAN

9/15/7

EXHIBIT B

Exhibit C
Applicant Handbook
State School Building Lease-Purchase Program
Office Of Local Assistance
Dated January, 1992

Applicant Handbook

State School Building Lease-Purchase Program

PUBLISHED BY THE QUALITY CONTROL AND PUBLIC RESPONSE UNIT

Office of Local Assistance

STATE OF CALIFORNIA · DEPARTMENT OF GENERAL SERVICES

Assigning "Units of ADA"/State Loading Standards

Assigning Units of ADA

Units of average daily attendance (ADA) are assigned to each school facility as follows:

- Compute the number of ADA for all existing teaching stations at full capacity according to State loading standards (see *State Loading Standards, pages 3-A-33 through 33-A-35*). This number represents the number of ADA adequately housed.
- When all existing facilities have been reported to capacity, the remaining projected ADA must be reported as "to be housed".
- The total number of ADA "adequately housed" and "to be housed" cannot exceed the applicable enrollment projection as specified on the *Form SAB 411, Enrollment Projection.*

Note: When teaching stations are less than 800 square feet, determine the loading by dividing the actual size of the teaching station by 30 for elementary or 32 for secondary facilities. Round the quotient to the next highest whole number.

Interdistrict Enrollment Adjustment

Education Code Section 48204 allows students to enroll in a school district other than the district in which they reside. This interdistrict attendance agreement is contingent upon consideration and approval of both districts. However, the SAB does not provide an area allowance for these students.

SAB Policy

An interdistrict adjustment is required only when the "students living in but attending out" of the district, *exceeds* the "students living out but attending in" the district. The area reserved for these students is reported on the Form SAB 500. This adjustment does not apply to students attending continuation high schools and special education facilities.

Required Document

The district reports interdistrict students in Section A of the *Form SAB 411B, Enrollment Certification.*

Continued on the next page

Procedure

IF...	THEN...
the maximum amount of students "living within the district but attending outside" exceeds the amount of students "living outside the district but attending within".	calculate the interdistrict adjustment by subtracting the amount of students "living outside the district but attending within" from those students "living within the district but attending out".

Note: The interdistrict adjustment cannot exceed two percent of the district's current enrollment.

State Loading Standards

"Units of ADA" must be reported in accordance with SAB loading standards. The state loading standards are designated as follows:

ELEMENTARY GRADES K - 6 and K - 8 (when not a separate school)	
GRADE LEVEL	**LOADING STANDARD**
Kindergarten (double session)	55
Kindergarten (single session) *	29
1 - 3	29
4 - 8 (7 - 8 not departmentalized)	33
7 - 8 (departmentalized)	30
Lab (7 - 8 only)	26

Note: Evidence of a single session kindergarten may include teacher contracts, school board minutes or other documentation. However, the single session loading must have been in effect prior to January 1, 1987.

Continued on the next page

State Loading Standards, continued

SPECIAL DAY CLASS (SDC)			
	CLASSIFICATION	ABBREVIATION	LOADING STANDARD
NON-SEVERE HANDICAP	Severely Learning Disabled	SLD	12
	Mildly Mentally Retarded	MMR	12
	Severe Disorder of Language	SDL	10
SEVERE HANDICAP	Deaf and Hard of Hearing	DHH	10
	Visually Handicapped	VH	10
	Autistic	AUT	6
	Severely Emotionally Disturbed	SED	6
	Severely Mentally Retarded	SMR (Elementary)	12
	Severely Mentally Retarded	SMR (Secondary)	12
	Deaf-Blind/Multi	DBM	5
	Developmentally Handicapped	DH	10
	Orthopedically and Other Health Impaired	OOH	12

Special Day Class

The allowable area for special day class at each site is computed on a per classroom basis according to a specific handicap:

SPECIAL DAY CLASS			
	CLASSIFICATION	ABBREVIATION	AREA ALLOWANCE (SQ. FT.) PER CLASSROOM
NON-SEVERE HANDICAP	Severely Learning Disabled	SLD	1,080
	Mildly Mentally Retarded	MMR	1,080
	Severe Disorder of Language	SDL	1,080
SEVERE HANDICAP	Deaf and Hard of Hearing	DHH	1,080
	Visually Handicapped	VH	1,330
	Autistic	AUT	1,160
	Severely Emotionally Disturbed	SED	1,160
	Severely Mentally Retarded	SMR (Elementary)	1,750
	Severely Mentally Retarded	SMR (Secondary)	2,150
	Deaf-Blind/Multi	DBM	1,400
	Developmentally Handicapped	DH	2,000 + therapy *
	Orthopedically and Other Health Impaired	OOH	2,000 + therapy *

* DH and OOH classrooms receive additional square footage for therapy as follows:

- For therapy purposes, the first classroom receives 3,000 square feet and each additional classroom receives 750 square feet.

Maximum Computed Allowable Area: Seven Percent Area Allowance

Introduction

Education Code Section 17746.7 allows a seven percent increase in allowable area per ADA "to be housed". The seven percent increase in the allowance is restricted to unhoused ADA and not provided for those pupil units within the district's continuation high schools and special day class program.

New School Projects

For each ADA housed in a proposed project, use the following chart to calculate the seven percent area increase in the maximum computed allowable. Identify the increase with a 'seven percent' (7%) notification.

PROPOSED SCHOOLS	
GRADE LEVEL	CALCULATION
K – 6 (districts with less than 300 projected K – 6 ADA	0.07 x computed allowable (excluding any area bonuses)
K – 6 (districts with 300 or more projected K – 6 ADA)	4 sq. ft. x ADA
7 – 8	5 sq. ft. x ADA
9 – 12	0.07 x computed allowable (excluding any area bonuses)
Special Day Class	none
Continuation High School	none

Continued on the next page

Additions to Existing Schools

For each proposed addition, use the following chart to calculate the seven percent area increase in the maximum computed allowable for those ADA "to be housed". Identify the increased with a 'seven percent' notification.

ADDITIONS TO EXISTING SCHOOLS		
GRADE LEVEL	CALCULATION	
K – 6 (districts with less than 300 projected K – 6 ADA)	5 sq. ft. x per ADA	
K – 6 (districts with 300 or more projected K – 6 ADA)	4 sq. ft. x per ADA	
Grades 6 (when part of a 6 – 8 school)	4 sq. ft. x per ADA	
7 – 8	5 sq. ft. x per ADA	
Continuation High	none	
Special Education	none	
9 – 2 and 9, 10 (when part of a 7 – 9 or 7 – 10 school) (Including grade 9 when part of a 7 – 9 or 7 – 10 project; determine the capacity of the school plant, both "adequately housed" and "to be housed" and allow the additional area according to the adjacent table for the units of ADA "to be housed" at that location).	IF the 9 – 12 total ADA is . . .	THEN the multiplier is . . .
	1 – 50	0 sq. ft.
	51 – 00	11 sq. ft.
	101 – 200	7 sq. ft.
	201 – 300	4 sq. ft.
	301 – 600	4 sq. ft.
	601 – 1800	6 sq. ft.
	over 1800	6 sq. ft.

Maximum Computed Allowable Area: Resource Specialist Program

Introduction

Any project not approved for Phase II prior to January 1, 1987, may include a building area allowance for a resource specialist program (RSP). The RSP enrollment is reported on the *Form SAB 411B, Enrollment Certification* document.

RSP Entitlement

The maximum number of pupils per project for which an allowance will be provided is limited to four percent of the ADA to be housed in the project. Districtwide, the allowance allotted for a resource specialist program may not exceed the RSP enrollment reported on the Form SAB 411B or four percent of the actual unhoused ADA, whichever is less.

RSP Area Allowance

Use four percent of the project's ADA "to be housed" to determine the area allowance for an RSP facility.

RSP UNITS	AREA ALLOWANCE (SQ. FT.)
1–8	240
9–28	480
29–37	720
38–56	960
57–65	1200
66–85	1440
86–94	1680
95–112	1920

Note: The RSP area allowance must be exclusively dedicated to the RSP facility.

Maximum Computed Allowable Area: Relocatable Teaching Station Bonus Area

Introduction

Education Code Section 17749 (e) allows for a relocatable bonus area allowance for those projects including relocatable teaching stations.

Relocatable Requirement

The relocatable requirement is determined as follows:

- A minimum of 30 percent of all proposed teaching stations must be relocatable buildings.
- The structures must meet the definition of a relocatable (see *Portable/ Relocatable Buildings, page 3-A-26*).

Calculation of Relocatable Teaching Stations Requirement

Thirty percent of the proposed teaching stations must be relocatable as determined below:

Example

Total proposed teaching stations	30 percent of proposed teaching stations	Minimum number of relocatable teaching stations required
11	3.3	4

Note: The number of teaching stations must be rounded up to the next whole number.

Calculation of Bonus Area

Before determining the relocatable teaching station bonus area, verify that the "30 percent relocatable teaching station requirement" has been met. Use the following steps to calculate the "relocatable bonus area" for *each* project:

IF...	THEN...
• a minimum of 30 percent of all proposed teaching stations are relocatable buildings and,	multiply the ADA "to be housed" in the project by three square feet.
• 10 percent of the total proposed building area is comprised of relocatable buildings	

Continued on the next page

Reductions in Relocatable Requirement

All reductions to this requirement are subject to SAB approval. Reductions of the 30 percent relocatable teaching station requirement may be permitted under the following circumstances:

CIRCUMSTANCE A
Delivery of the relocatable structures by the manufacturer would cause a delay in the completion of the overall project
CIRCUMSTANCE B
Inclusion of the relocatable structure in the project is prohibited due to either one of the following: • excessive site preparation costs are inevitable • the utilization of relocatables would create a hazardous site condition for the pupils • transportation of the relocatable structures to the site is extremely dangerous due to road conditions • climatic conditions exist that severely affect the proper operation of the structure
CIRCUMSTANCE C
The usable site acreage of the facility is less than 75 percent of the recommended site size as determined by the California Department of Education.
CIRCUMSTANCE D
The relocatable structures are acquired by the district up to two years prior to the Phase III construction approval of the project, provided that the following conditions are met: • the area of the relocatable is included in the district's existing adequate area; and • the relocatable may be on the same site or another site within the attendance area the application is applied under, and • the relocatable is not be used to satisfy a requirement or condition on a previous project.
CIRCUMSTANCE E
When the proposed project has less than four teaching stations and the SAB finds that it would be to the benefit of the pupils affected to do so.

Note: Those projects containing less than ten percent of the total building area in relocatable structures are not eligible for the three square foot bonus per proposed ADA.

Form SAB 533, Agreement Between Client and Architect

Introduction

The district acts as the agent of the State in selecting a licensed architect who will provide professional services in the design development and construction phases of a project. Once an architect is selected, a *Form SAB 533, Agreement Between Client and Architect* must be completed.

Selection of an Architect

The district should solicit proposals from several architects known by reputation as being well qualified and experienced in the design and construction of public schools.

The district is expected to act on the behalf of the State in negotiating the best possible terms for the architectural services.

Architect's Fee Schedule

The following fee schedule may not be exceeded under any circumstances.

STANDARD ARCHITECTURAL FEE SCHEDULE		
% RATE	CONTRACT AMOUNT	FEE (100% OR FRACTION THEREOF)
9%	first $500,000.00	$45,000.00
8½%	next $500,000.00	$42,500.00
8%	next $1,000,000.00	$80,000.00
7%	next $4,000,000.00	$280,000.00
6%	next $4,000,000.00	$240,000.00
5%	excess of $10,000,000.00	

The architect fee is only an estimate through Phases I, II, and III. The final determination of the fee is made at the time of the bid approval. Adjustments to this fee will be calculated if approvable change orders arise.

Continued on the next page

Factory-built Portables

A factory-built portable is a manufactured facility. Factory-built portable building plans are prepared by the manufacturer for submission by the project architect to the Office of the State Architect.

FACTORY MANUFACTURED PORTABLE FEE SCHEDULE	
PERCENT RATE	CONTRACT AMOUNT
4 %	of factory built portable

This fee schedule applies to the manufactured portable building costs only. All other construction costs are calculated from the standard architect fee schedule.

A fee is calculated per contract to include the cost of all approved additive change orders with the exception of items resulting from errors and omissions on the part of the architect.

Budgetary Constraints

The architect must exercise his best judgement in determining the balance between the size, type and quality of construction to achieve a satisfactory solution within the project's construction allowance.

It is the duty of the architect to design a project *within* SAB cost standards. If a construction bid exceeds these standards, the architect is responsible for making the necessary changes in the approved plans, specifications and bid documents at no additional cost to the client.

Rate of Apportionments

The SAB apportions architect fees at the following rate:

PROJECT PHASE	PERCENTAGE OF TOTAL ESTIMATED ARCHITECT FEE (CUMULATIVE)
Phase I	25%
Phase II	80%
Bid Approval	100%

Continued on the next page

Phase I Apportionment: Feasibility Studies

Overview

When all necessary documentation has been received (see *Required Documents, pages 3-A-2 and page 3-A-3*), the OLA will submit a recommendation to the SAB that the project application be approved and apportioned for Phase I feasibility studies costs as follows:

CATEGORY	TYPE	MAXIMUM COSTS
A. SITE (for projects including site acquisition)	Appraisals	$2,000.00
	Escrow/Title Reports	$2,000.00
	Surveys	$3,000.00
	Note: Appraisal costs may be increased upon district request and justification.	
B. PLANS	Architect Fee	The fee is a sum of the following calculations: • $90.00 per sq. ft. x proposed permanent area x .08 * • $50.00 per sq. ft. x proposed relocatable area x .08 * Multiply the total calculated above by .25.
	Preliminary Tests	$5,000.00
G. CONTINGENCIES	Contingencies	$5,000.00

* Represents an average architect's fee rate.

Continued on the next page

Environmental Impact Documents (EID)

Introduction

Prior to the SAB approving an application beyond the feasibility stage (Phase I), a set of environmental impact documents (EID) must be prepared. The district has sole responsibility for meeting all California Environmental Quality Act (CEQA) requirements as administered by the State of California, Office of Planning and Research (OPR)/State Clearinghouse. The OLA verifies that the CEQA requirements have been addressed.

Every application requires either a:

- categorical exemption
- negative declaration
- environmental impact report (EIR)

California Environmental Quality Act (CEQA) Officer

The district's governing board is required to appoint a CEQA officer. All correspondence, consultation, and documentation relating to an EID must be coordinated through the district's CEQA officer. The *Form SAB 508, Authorized Signatory* is used for this purpose.

Title 14 of the California Administrative Code (CAC), incorporates the *CEQA: Statutes and Guidelines (Stock No. 7540-931-1022-0)* of the Office of Planning and Research/State Clearinghouse. This publication may be obtained at a nominal cost from:

Department of General Services
Documents Section
P.O. Box 1015
North Highlands, CA 95660
(916) 973-3700

Consultation with OLA CEQA Officer

If either a negative declaration or a draft EIR is being prepared, the district is required to consult with the OLA CEQA officer. It is advised that districts preparing categorical exemptions also consult with OLA's CEQA officer.

Site Selection

Introduction

Selection of a school site is critical to both a safe and supportive environment for the curriculum and learning process. The area acquired is limited to the minimum land area necessary to conduct an adequate educational program.

Criteria

The following criteria will be considered by the California Department of Education (CDE), School Facilities Planning Division (SFPD) when selecting a site:

- safety
- location
- environment
- soils
- topography
- size and shape
- accessibility
- public services
- utilities
- land/development costs
- availability
- political implications

Role of the California Department of Education

The California Department of Education, School Facilities Planning Division, is required to review and recommend approval of all new school sites and additions to school sites regardless of the funding source. To ensure that the best possible site selection is made with a balance of educational and financial considerations, the district must comply with the following procedures:

- The district must identify a minimum of *three approvable* sites to be reviewed with the SFPD. These sites must be identified on the California Department of Education's *Form SFPD 4.0, Approval Procedures and Site Report*. If the SFPD finds that one of the three proposed sites is not approvable, another approvable site must be added to the list for consideration.

- If there are not three approvable sites in the area in which the new school is to be located, *the SFPD must state this fact in a site review letter addressed to the Office of Local Assistance.*

The final selection of the proposed site must be approved and certified by the CDE.

Form SAB 509, Site Ownership Certification

Introduction

This document is a certification made by the district representative that the school district holds legal title to the site contained in the application. The title must be free of any liens and encumbrances which would adversely affect the use of the site for school purposes. All land related to a project is subject to a 40-year lease-purchase agreement between the State and the school district.

District Owned Site

For those projects being constructed on a district owned site, the *Form SAB 509, Site Ownership Certification,* is required prior to the Phase II SAB recommendation.

Sites Not Previously District Owned

For those projects which include the acquisition of real property not previously owned by the district, a grant deed to the property or the *Form SAB 509, Site Ownership Certification,* is required prior to the Phase III SAB recommendation.

County Superintendent of Schools Building Project

In the event a facility is to be constructed by a County Superintendent of Schools on property owned by a school district, it is not necessary for the county to acquire land. In lieu of the site ownership certification, a 40-year ground lease from the district to the county must be executed. In addition, the district that is leasing the site to the County Superintendent of Schools must provide the *Form SAB 509, Site Ownership Certification.*

Form SAB 510, School District Compliance Certification (Education Code Section 39002)

Introduction

Prior to the planning of a new school facility, the district must investigate the prospective school site for geological hazards per Education Code 39002. The geological characteristics of the site must be such that the construction effort required to make the site safe for occupancy is economically feasible.

Geological Study and Soils Analysis

The geological study and soils analysis are conducted to provide an assessment of the prospective site's geological condition and potential for earthquake or other geological hazard damage if the site is located within:

- the boundaries of any special study zone; or
- an area is designated as geologically hazardous in the safety element of the local general plan as provided in Government Code, Section 65302.

Note: The California Department of Education, School Facilities Planning Division, may request geological studies and soil analysis on school sites located outside the study zones if there is evidence to suggest such studies are warranted. However, no studies are required if the sites under consideration have been subject to prior adequate studies.

In addition to the geological hazards studies and soil analysis, the evaluation may include location of the site with respect to:

- population
- transportation
- water supply
- waste disposal facilities
- utilities
- traffic hazards
- surface drainage conditions
- other factors affecting the operating costs

Geological Fault

A school building cannot be built on the trace of a geological fault along which surface rupture can be reasonably expected to occur within the life of the school building.

Eligible Expenditures

The cost of site investigation and related reports pertaining to geological hazards are eligible project expenditures (see *B. Plans, Preliminary Tests, page 3-B-38*).

Real Property Appraisals

Definition

A real property appraisal is a written estimate of the fair market value of a real property.

Appraisal Specifications

Appraisal specifications must comply with those established by the Appraisal Institute.

Appraisal Options

To ensure that site acquisition conforms to law and that fair market value is properly determined, the district must comply with the SAB real property appraisal process.

Either one or two appraisals may be obtained to meet site acquisition requirements. A comparison of appraisal options is provided in the table below:

COMPARISON OF APPRAISAL OPTIONS	
One Appraisal	Two Appraisals
• One appraisal per parcel • The appraisal must be reviewed by the Office of Real Estate and Design Services (OREDS) • For valuations approved by OREDS, the appraisal fee is an eligible project cost	• Two appraisals per parcel • Appraisal fees are eligible project costs • OREDS must review the appraisals only in the event that the valuation(s) are relatively disparate

Appraisal Costs

The costs associated with the preparation of required appraisals are eligible State funded expenditures.

Continued on the next page

Updates

Updates to an appraisal are permissible under the following circumstances:

CIRCUMSTANCE A
The valuation date of the appraisals will exceed 60 days at the time of the district's request for a site apportionment and no more than 150 days at the time of the site apportionment. However, an appraisal exceeding 60 days at the time of the site apportionment may be updated. The appraisal update is an eligible project expenditure.
CIRCUMSTANCE B
Upon the initiation of eminent domain proceedings, the appraisal update is an eligible project expenditure.
CIRCUMSTANCE C
A court has ordered an updated appraisal due to a condemnation action. Only the appraisal which the site apportionment was based will be updated and considered an eligible project expenditure. Appraisals cannot be updated as a basis for negotiation toward a stipulated judgement.

Time Extension

When a settlement cannot be successfully negotiated and the district has not filed condemnation proceedings within the 60 day (single parcel) or 90 day (multiple parcel) time limit, a written time extension must be requested by the district and obtained from the OLA Executive Officer. If a written extension is not granted, the SAB will hold the district responsible for any increased costs exceeding the approved appraised value.

Cost Estimates: Forms SAB 506A and SAB 506B

Introduction

This topic focuses on the preparation of *Form SAB 506A, Estimated Project Cost Detail* and *Form SAB 506B, Summary of Estimated Costs.* The cost estimate details the expenditures associated with the following categories:

- Site
- Plans
- Construction
- Tests
- Inspection
- Furniture and Equipment
- Contingencies

The cost estimates are used to develop a construction budget in preparation for the Phase II SAB recommendation.

Form SAB 506A

The *Form SAB 506A, Estimated Project Cost Detail,* provides an itemized breakdown of all project costs. This form may be expanded to support the scope of the project as depicted on the project plans (see *Exhibits 2, 2A and 2B, pages 3-B-78 through 3-B-80 respectively*).

Form SAB 506B

The *Form 506B, Summary of Estimated Costs,* provides a summation of the costs detailed on the Form SAB 506A (see *Exhibit 1 on page 3-B-77*).

Cost Itemization

All items listed on the cost estimate must be clearly itemized by unit size, quantity and unit cost. *Lump sums are not permitted.*

Overhead and Profit

All costs associated with overhead and profit must be integrated into the unit cost itemization.

Updates

New cost estimates must be prepared if those previously submitted are older than 90 days.

Required Signatures

The cost estimates must contain the original signatures of a licensed architect or structural engineer.

Continued on the next page

A. Site

Description

The eligible costs and fees associated with the *site* classification are defined as follows:

ITEM	DESCRIPTION
Purchase Price of Property	The eligible State funded costs associated with the acquisition of real property.
Appraisals	Costs associated with securing real property appraisals and necessary updates as mandated (see *Real Property Appraisals, page 3-B-14 and Site Purchase, page 3-B-16 through 3-B-20*).
Escrow Fees	All charges normally included in the escrow agreement such as: • escrow charges • title insurance • loan fees Note: Property taxes are ineligible.
Surveys	If required, a certified survey of the site must include: • grades and lines of streets, pavements, and adjoining properties • right-of-way, restrictions, easements, boundaries and contours of the building site • locations, dimensions and floor elevations of existing buildings • other improvements and trees • full information as to available service and utility lines, both public and private
Site Support (85%)	See *Site Support Costs, page 3-B-10*.
Relocation Assistance	Actual costs related to the displacement of any person, business, farm operation, or non-profit organization in conjunction with the acquisition of real property (see *Relocation Assistance, page 3-B-21*).
Other	Justified fees which may include but are not limited to the following: • court costs • legal services (i.e., review of contracts, legal documents) • condemnation proceedings

B. Plans

Description

The eligible costs and fees associated with the *plans* classification are defined as follows:

ITEM	DESCRIPTION
Architect Fees	Fees as negotiated in the Architect's Agreement (see *Architect Fee Schedule, page 3-A-58*).
OSA/ACU Plan Check Fee	Fees as determined by the Office of the State Architect for the review of plans as required by law. Refer to the *California Administrative Code, Title 21 (Public Works).*
SDE Plan Check Fee	Fees as determined by the California Department of Education, School Facilities Planning Division, as required by law.
Energy Analysis Fee	Fees as determined by the SAB (see *Calculation of Energy Consultant Fee, page 3-B-68*).
Preliminary Tests	Includes the following costs: • soil tests, foundation tests, exploratory borings, and similar testing required prior to construction • site investigation and reports pertaining to geological hazards where required by Education Code, Section 39002 (see *Form SAB 510, School District Compliance Certification, page 3-B-13*).
Administrative Costs	Refer to *Administrative Cost Allowance, page 3-A-55.*
Other	Other plan costs such as: • advertising construction bids • printing limited to twenty-five plan sets for bidding and construction purposes

C. Construction

Description

Every project receives an allowance to provide for the full development of a school site. The State's cost standard for site development is based on the current *Lee-Saylor Construction Cost Manual*. The eligible costs associated with the *construction* classification include the broad categories of site development, new construction, energy conservation, and supplemental funding for multi-story construction.

Topic Items

This topic discusses the following items:

Continued on the next page

Utility Services

Introduction

Utility services development includes improvements such as water, sewer, gas, electric and telephone. This improvement provides service from a utility connection to the project site. Fees associated with the utility connection may also be allowed.

Eligible Utility Services Expenditures

The following utility services may be included as eligible project expenditures:

SERVICE	DESCRIPTION
Water	• The installation of a main supply line (domestic water only) from the utility company connection to the meter. One incidental fire hydrant is also eligible. • Meters not provided by the serving utility. • Installation of a domestic water system, to include a well, pump and necessary appurtenances (except a pump house), from the main supply line to the first building lateral. • Connection fee (defer for future release).
Sewage	• The installation of main sewage disposal line from the utility company connection to the first building lateral. • The installation of a sewage treatment/disposal system and a main disposal line from the treatment system to the nearest building lateral of the collection system. • Connection fee (defer for future release).
Gas	• The installation of main supply line from utility company to the meter. • The installation of meters not provided by the serving utility. • Connection of a liquefied petroleum gas system from the main supply line to the first building lateral. • Connection fee (defer for future release).

Continued on the next page

Eligible Utility Services Expenditures, continued

SERVICE	DESCRIPTION
Electric	• The installation of service from the serving utility to the meter. Primary electric service runs from the utility company's point of connection to the transformer. Secondary electric service runs from the transformer to the meter. Distribution panels or switch gear is considered building construction items. • The installation of meters not provided by the serving utility. • Transformers, transformer pads and protective bollards. • Connection fee (defer for future release).
Telephone	• The installation of service from the serving telephone company to the nearest distribution system.

Additions to Existing Schools

For additions to existing schools, all utility services must connect to the nearest available site source. If it is necessary to do otherwise, a registered engineer must certify that the existing lines will not adequately support the new facilities and that new routing is therefore required.

Connection Fees

Connection fees that are eligible (see *Eligible Utility Services Expenditures, page 3-B-40)* must be delineated on the cost estimate. At the time of bid, these connection fees will be deferred for future release. Upon receipt of an itemized invoice issued by the serving utility, these funds will be released to the district.

Continued on the next page

Ineligible Utility Services Expenditures

The following items are not eligible as utility service improvements:

- any portion of a utility which can be supplied by a utility company without charge,
- all heating systems and school communication systems, including public address systems,
- cable television,
- any a) electrical, water or gas service beyond the meter; b) sewer service beyond the building lateral; and c) telephone service to the distribution center, and
- fences, concrete pads, or other protective structures relating to utility systems on school grounds.

Capital Development Fees

Introduction

Public utility agencies have the authority to levy user fees for the cost of capital development facilities to provide service to schools. Capital development facilities fees may be included in a project as eligible costs but are limited to facilities which provide power, water, light, heat, communications, garbage services, drainage, flood control, or the collection, treatment, and disposal of sewage.

State Funding Limitations

Capital development fees levied by a local agency for those service capacities already provided for in the lease-purchase project are not eligible for State funding and must be reduced on a dollar-for-dollar basis. State funding is available *only* for service capacities that meet the needs of the lease-purchase project. Reimbursement agreements for service capacities beyond the need of the State-funded project are not allowed.

Required Documents

All requests for the funding of capital development fees as a component of a lease-purchase project must include the following information:

- written evidence from the serving utility that the capital facilities fee does not exceed amounts charged to comparable non-public users (i.e., county/city ordinance). In addition, any fee assessed to the district must not exceed the proportionate share of the public utility facilities benefiting the lease-purchase project (i.e., per acre assessment),
- a written statement prepared by the serving utility itemizing all fees levied against the lease-purchase project,
- for fees imposed/paid between July 21, 1986 and March 24, 1988: . . . "a written opinion from district legal counsel stating that the imposition of the fee was in conformance with Government Code Sections 54999 through 54999.6",
- for service to be provided after March 24, 1988: . . ." a written agreement which summarizes the negotiations between the district and serving utility company". The district cannot enter into an agreement until authorized by the Executive Officer of the State Allocation Board.

Note: Capital development fees *are not* connection fees.

Off-Site Development

Introduction

Off-site development improvements located along the perimeter of the site include roads, streets, storm drainage lines, curbs, gutters, sidewalks, and street lighting. These improvements are commonly dedicated for public use.

Eligible Off-Site Development

Development of a site, including existing improvements, may not exceed the State's established standards. Any off-site development may not be performed on more than two sides immediately adjacent to the site. The following are off-site development State standards:

IMPROVEMENT	STATE STANDARDS
Paving of streets, curbs & gutters (includes existing improvements)	One-half of the width of a standard residential street not to exceed 20 feet from the top face of curb to centerline of street less any existing paving. Note: For roadways of a width or standard greater than those of a normal subdivision, the ineligible improvement costs may be funded by local municipality (Street and Highway Code, Section 2117) or may be included as general site development improvements for the project.
Sidewalks	Five foot width of sidewalk Note: Any portion of a sidewalk in excess of the five foot width is not eligible as an off-site development improvement but may be funded as a general site development improvement.
Street lighting, planting areas, street signs, traffic signals, street trees	Eligible only when mandated by local ordinance or is currently so developed.

Note: Local entities having jurisdiction of areas where the off-site development is proposed, must approve the related plans and specifications.

Continued on the next page

Rough Grading

When a project includes rough grading of off-site development improvements for the balancing of cut and fill, rough grading may be funded as service site development costs. The cost estimate must specify that a balancing of cut and fill is necessary and must also be indicated in the specifications.

Ineligible Off-Site Development

Costs relating to off-site development improvements which benefit adjacent properties without those properties equitably sharing in the cost are ineligible for State funding. Therefore, the State will not fund the associated costs (i.e., planning, testing, inspection services, etc.).

Service Site Development

Introduction

Service site development improvements are performed on-site and may include site clearance, rough grading, soil compaction, drainage and eligible erosion control. This portion of the site preparation is accomplished prior to the general site development and the construction of buildings.

Eligible Service-Site Development

Eligible service site development improvements are described in the following table:

IMPROVEMENT	DESCRIPTION
Site Clearance	Removal of trees, brush, debris, etc. Also includes demolition.
Rough Grading	Grading of required contours, including cut and fill, leveling and terracing operations. May include off-site cut and fill operations (see *Off-Site Development, Rough Grading, page 3-B-45*).
Soil Compaction	Soil compaction adhering to common engineering practices.
On-Site Drainage Facilities	Below grade drainage facilities. Note: Does not include the surface drainage of football fields and running tracks.
Erosion Control/Embankment Improvements	For embankments having a slope of 2:1 and a vertical height greater than six feet, erosion control improvements such as plant material, sprinkler systems, jute mesh and straw are eligible. When the above slope and height conditions exist, stairways, handicap ramps and retaining walls are also eligible.
Removal/Relocation of Utility Service	Removal and rerouting of existing utility service which lie in the footprint of a proposed building or proposed parking lot.
Demolition	Demolition of existing buildings and site improvements which lie in the footprint of a proposed building or general site development improvements.

Continued on the next page

Eligible Service-Site Development, continued

IMPROVEMENT	DESCRIPTION
Portable Facilities Relocation	Relocation of existing portable buildings which lie in the footprint of a proposed building or proposed parking lot to a permanent site. A portable building may be moved to a permanent on-site location one time only during construction. Note: The replacement of general site development items which were displaced as a result of a building relocation must be funded as general site development costs.
All-weather Fire Service Roads/Site Access Gates	All-weather fire service roads and site access gates necessary to meet the State Fire Marshal requirements and which do not provide a dual use. An all-weather road not exceeding 20 feet in width and composed of two inches of asphalt concrete over a maximum of six inches of aggregate base.

Bid Options

Several options are available for bidding service site development contracts:

NEW SCHOOL	
CIRCUMSTANCE	ACTION
Site development not exceeding $100,000.00 of architect's preliminary estimate, or	Site development bid in concert with building contract. The bid may not exceed the project's cost allowance established prior to the bid.
Site development in excess of $100,000.00 or 10% of architect's preliminary estimate.	Site development bid independently of building contract.

Continued on the next page

Bid Options, continued

ADDITIONS TO EXISTING SCHOOL		
CIRCUMSTANCE	**OPTION A**	**OPTION B**
Site development in excess of $100,000.00 of architect's preliminary estimate.	Site development bid independently of building contract.	Site development bid in concert with building contract. The bid may not exceed the project's allowance established prior to the bid.

Separate Bids

When the service site development is bid independent of the building contract, the work must be accomplished as a separate contract rather than as an alternate to the building contract.

When bid separately, site development may include utility and off-site development, service site development and general site development.

General Site Development

Introduction

General site development improvements encompass the finishing detail of the site. This development is normally performed on-site. However, under certain circumstances, general site improvements may include disallowed off-site development.

Eligible General Site Development

Eligible general site development improvements are described in the following table:

IMPROVEMENT	DESCRIPTION
Finish grading	Final design grade.
Roads/driveways, walks, parking area, curbs and gutters	On-site facilities for vehicle and foot traffic.
Turfed/paved play area, permanent playground equipment, outdoor classrooms and places of assembly, tennis and handball courts, baseball fields, construction and surface drainage of football fields and running tracks	Outdoor instruction and play facilities.
V-gutters	Drainage of on-site parking lots.
Planting/sprinkling, aesthetic terracing	Landscaping of building frontages, courtyards, and parking areas.
Sprinkling system, topsoil and turf	Outdoor teaching stations and play areas.
Construction/surface drainage	Football fields and running track.
Fencing, outdoor walls/screens, flagpoles, utility enclosures, incinerators, pump houses, outdoor safety lighting and on-site fire lines and hydrants	Protective and service facilities.
Erosion Control	For embankments having a vertical height of less than six feet, erosion control improvement such as plant material, jute mesh and straw are eligible. Related improvements on these embankments including stairways, retaining walls and handicap ramps are also eligible.

General Site Development Allowance

All new construction projects are eligible for a general site development allowance. The allowance is generated from a standardized calculation derived from the established building allowance and the net gross site acreage, excluding any street easements, as recommended by the CDE.

The general site development allowance derived from the established building allowance is determined as follows:

GRADE LEVEL	ALLOWANCE
Elementary/Special Education (K-6), (K-8)	Eight percent of the building allowance.
Intermediate/Special Education (6-8, 7-8 and 7-9)	Same as above.
Continuation High Schools	Same as above.
District Administration	Same as above.
High Schools/Special Education (9-12 and 10-12)	Five percent of the building allowance.

Additionally, an allowance based on the gross site acreage, excluding any easements, is determined by the following circumstances:

	CIRCUMSTANCE	ALLOWANCE
A	A new school wherein site acreage is acquired as part of the project application or a new school built on a district-owned site.	$15,000.00 per acre.
B	Addition of building(s) to an existing school located on a district-owned site or acquisition of additional acreage at a district-owned site.	$15,000.00 per acre not to exceed the difference between the capacity of the existing facility and the master-planned capacity of the school.
C	Acquisition of additional acreage at a district-owned site wherein the existing acreage and proposed agreage addition is less than 75 percent of that recommended by the CDE.	Special consideration will be given to those projects wherein a need for additional general site development improvements is justified. In this instance, the site development contract must be bid separate from the building construction contract.

Demolition

Description

Costs associated with the removal of building(s) which stand in the footprint and/or inhibits access to the proposed building are considered demolition costs. All itemized demoltion costs will be given individual funding consideration.

Building Cost Standards

Introduction

The SAB has established cost standards for the construction of eligible school building facilities. The building construction cost standards may not be exceeded.

Building Types B & D

The following chart describes the building types utilized under the State School Building Lease-Purchase Program:

	BUILDING TYPE	
COMPONENT	CLASS B	CLASS D
Floors/Roofs	• reinforced concrete on steel decking; or • formed slabs resting on the frame; or • poured to become an integral part of frame • composed of prefabricated panels which may be mechanically stressed	• supported on wood or steel joists or trusses • ground floor may be concrete slab • upper floors may be concrete plank, steel deck or wood
Exterior Walls	• masonry or reinforced concrete, metal, glass, or stone	• closely-spaced wood; or steel studs • skeleton wood frame on which some form of curtain wall is applied (includes pre-engineered pole buildings), • load-bearing or non-bearing (non-bearing walls may be supported by columns, bents, or arches constructed of concrete, steel or wood)
Interior Partitions	• masonry, reinforced concrete or gypsum • light-weight & movable partitions are used as non-bearing walls	no specific attribute

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Adjustment Indices

The following adjustment factors, where applicable, are made to the base building cost allowance:

TYPE OF ADJUSTMENT	BUILDING TYPE	
	CLASS B	CLASS D
Construction Cost Index	✓	✓
Geographic Area	✓	✓
Small Building	✓	✓
Urban	✓	✓
Security Allowance		✓

Construction Cost Index

The current construction cost index for Class B or Class D, as applicable, is applied to the base building cost allowance.

The Class B construction cost index adjustment is derived from the Marshal-Swift index. The Class D construction cost index adjustment is derived from the Lee Saylor index.

Geographic Area Adjustment

An adjustment factor for the geographic area in which a project is located is applied to the base building cost allowance (see, *Appendix 11, Geographic Adjustment Factors*).

Continued on the next page

Small Building Area Adjustment

A building area adjustment factor is applied to projects containing less than 12,000 square feet of building area. Use the following chart to determine the appropriate small building adjustment:

BUILDING AREA (SQUARE FEET)	MULTIPLIER	BUILDING AREA (SQUARE FEET)	MULTIPLIER
Under 800	1.15	6,400 – 7,199	1.07
800 – 1,599	1.14	7,200 – 7,999	1.06
1,600 – 2,399	1.13	8,000 – 8,799	1.05
2,400 – 3,199	1.12	8,800 – 9,599	1.04
3,200 – 3,999	1.11	9,600 – 10,399	1.03
4,000 – 4,799	1.10	10,400 – 11,199	1.02
4,800 – 5,599	1.09	11,200 – 11,999	1.01
5,600 – 6,399	1.08	12,000 or more	none

Urban Adjustment

An urban adjustment is applied to the building cost allowance accordingly:

CLASS B	CLASS D
An urban adjustment factor of 24 percent will be applied to the Class B building cost allowance for those projects located in areas of high property values and high population density.	An urban adjustment factor of one percent will be applied to the building cost allowance in areas of high population density.
In either case, the district must provide justification describing the necessity of this adjustment. The circumstances which would warrant this adjustment include: • existing site is less than 75 percent of the California Department of Education's recommended site size, • extent of development on surrounding property, and • existence and extent of traffic congestion.	

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Security Adjustment

In areas where high crime rates exist, a security allowance may be provided for those projects requiring security fencing, other protective structures and a watchperson. These items must be described in the plans and/or specifications. The district must provide justification describing the necessity of these security measures. The circumstances which would necessitate this adjustment include:

- lack of site space for contractor to work and store materials;
- high risk of vandalism and theft (materials must be delivered to and from the site daily);
- twenty-four hour, seven day, around the clock watchperson is required;
- union agreement of basic trades requires contractor to provide parking for tradesmen; and
- increased premiums for insurance during construction in high density areas.

Final Adjustment to the Building Cost Allowance

A final cost allowance is determined as an outcome of OLA's review of the final plans. The allowance is adjusted according to the construction cost index in effect as of the date of the issuance of the bid authorization. The allowance is adjusted for the final time based on the construction cost index in effect as of the date of the bid opening.

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Mainstream Education Facilities

The Class B and Class D building cost standards are identified on the schedule which follows. Please note, each building area is priced at the facility classification most nearly represented in the plans.

FACILITY CLASSIFICATION		UNIT COST PER SQUARE FOOT	
		CLASS B	CLASS D
TEACHING STATIONS	Arts and crafts, high school & intermediate	$81.78	$78.86
	Business machines	81.21	78.31
	Homemaking	92.14	88.85
	Kindergarten	82.24	79.30
	Music, high school & intermediate	91.90	88.62
	Science, General	85.98	82.91
	Science laboratory (above grade 6)	117.33	113.14
	Shop, high school & intermediate	85.94	82.87
	Standard, elementary	81.16	78.26
	Standard, high school & intermediate	77.68	74.91

Continued on the next page

Mainstream Education Facilities, continued

	FACILITY CLASSIFICATION	UNIT COST PER SQUARE FOOT	
		CLASS B	CLASS D
NON-TEACHING STATIONS	Administrative spaces	91.23	87.97
	Corridor, enclosed	71.55	68.99
	Corridor, covered unenclosed/shelters	NA	34.68
	Gymnasium	111.26	107.29
	Kitchen	136.63	131.75
	Food Service	79.71	76.86
	Library	88.29	85.14
	Multi-purpose, Type I	91.51	88.34
	Multi-purpose, Type II	78.48	75.68
	Performing Arts Facility	116.32	112.17
	Resources Specialist Program (RSP)	83.10	80.14
	Shower/Locker	101.15	97.54
	Staff Workroom	87.19	84.08
	Storage, Mechanical and Janitor	67.73	65.31
	Toilets	187.12	180.44
OTHER FACILITIES	Warehouses and Agricultural	40.45	39.01
	Parking basements *	40.45	NA
	District Maintenance	68.35	65.91
	Other	87.19	84.08

* Employee parking basements are Class B construction only.

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Special Day Class Teaching Stations

The Class B and Class D building cost standards for special day class teaching stations are identified on the schedule which follows. These costs include allowances for such special building items as additional electrical and plumbing improvements, wider doors and grab bars.

	FACILITY CLASSIFICATION	ABBREV.	UNIT COST PER SQUARE FOOT	
			CLASS B	CLASS D
NON-SEVERE HANDICAP	Specific Learning Disability	SLD	$83.10	$80.14
	Mildly Mentally Retarded	MMR	83.10	80.14
	Severe Disorder of Language	SDL	83.10	80.14
SEVERE HANDICAP	Deaf and Hard of Hearing	DHH	92.51	89.21
	Visually Handicapped	VH	89.38	86.18
	Orthopedically and Other Health Impaired	OOH	83.10	80.14
	Autistic	AUT	89.38	86.18
	Severely Emotionally Disturbed	SED	89.38	86.18
	Severely Mentally Retarded	SMR	89.38	86.18
	Developmentally Handicapped	DH	89.38	86.18

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Special Day Complex

A special day complex consists of at least one special day class teaching station as well as a medical therapy unit. In addition to instruction space, the teaching station and/or medical therapy unit may include toilets, showers, changing areas, large equipment storage and daily living skills space.

The medical therapy unit may also include clinic/administrative areas, waiting areas for out patients and clients and space for physical and occupational therapy activities.

The Class B and Class D building cost standards for a special day class complex are identified on the schedule as follows:

	FACILITY CLASSIFICATION	ABBREV.	UNIT COST PER SQUARE FOOT	
			CLASS B	CLASS D
SEVERE HANDICAP	Severely Mentally Retarded	SMR	$90.50	$87.26
	Orthopedically and Other Health Impaired	OOH	88.70	85.54
	Developmentally Handicapped	DH	94.08	90.72
	Deaf-Blind/Multi	DBM	94.08	90.72

Interfacing

Description

Eligible interfacing costs include those costs associated with the connection of electrical, intercom, fire alarm and communication systems of an existing building to a new building area. All itemized interfacing costs will be given individual funding consideration.

Supplemental Funding

Introduction

Supplemental funding is available to those projects wherein the actual pupil density of the project site exceeds that recommended by the California Department of Education, School Facilities Planning Division.

Form SAB 502

Using the *Form SAB 502, Supplemental Funding Calculation,* determine the amount of supplemental funding available to a project accordingly:

STEP	FORMULA
1	The actual pupil density of the project site takes into consideration: • ADA capacity of existing (if applicable) and proposed teaching stations; and • usable existing (if applicable) and proposed acreage.
2	Determine the threshold pupil density using the existing (if applicable) and proposed acreage.
3	When the actual pupil density, as calculated in step 1, exceeds the threshold pupil density as calculated in Step 2, there is eligibility for supplemental funding.
4 and 5	The lesser of steps 4 and 5 as described on the Form SAB 502 determines the amount of supplemental funding.

Form SAB 506

All school districts applying for supplemental funding must formally request the apportionment on the *Form SAB 506, Application for Apportionment.*

Along with the complete description of proposed facilities as outlined in the "description and scope of project" section of the application, a statement requesting a supplemental funding allowance must be included. In addition, the "amount of apportionment requested" must include the supplemental funding allowance as determined on the *Form SAB 502, Supplemental Funding Calculation.*

Letter Appraisals

For purposes of establishing an approximate cost for the acquisition of real property and completing the *Form SAB 502, Supplemental Funding Calculation,* the district must submit two letter appraisals for each parcel to be acquired.

Continued on the next page

Form SAB 500

The *Form SAB 500, Lease-Purchase Justification Document* must identify all building area to be funded with the supplemental allowance calculation of the district's adequate building area.

Justification Letter

The district must provide a justification letter detailing the allocation of the supplemental funding allowance in relieving the effect resulting from a less than adequate site size.

Preliminary and/or Final Project Plans

All items to be funded from the supplemental funding allowance must be clearly identified on the plans. These enhancements must be noted on the plans as "supplemental funding" items.

Cost Estimates

A delineation of all items to be funded with the supplemental funding allowance must be identified on the cost estimates (Forms SAB 506A and SAB 506B). In addition, separate cost estimates identifying *only* the supplemental funding allowance expenditures must be submitted.

Eligible Supplemental Funding Expenditures

The following table describes eligible supplemental funding expenditures:

TYPE	DESCRIPTION
Enhancements	Construction items which will enhance the project in such a way as to mitigate the small site size.
Additional Building Area	Building area funded solely with the "Supplemental Funding" allowance.
Miscellaneous Items	These items may include but are not limited to: • fire safety • handicapped acess • playground apparatus • duct shafts, utility tunnels and pipe conduit chases • security features

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Eligible Supplemental Funding Expenditures, continued

Additionally, the district must reserve monies from the supplemental funding allowance to fund those support expenditures related to the items identified in the previous table. These expenditures may include:

- architectural services
- Office of State Architect fee
- California Department of Education, SFPD, fee
- construction tests
- inspection
- change orders (limited to those items funded with the supplemental funding allowance)

Deferment of Supplemental Funding Allowance

The district may opt to defer a portion of the supplemental funding allowance for specific expenditures to be completed subsequently to the project's main construction contract. These items and the associated costs must be identified prior to the acceptance of main construction bid.

Deferred Items

Introduction

Construction items that are excluded from a construction contract and are to be performed at a later date may be deferred for the future. In order for a reservation of funds to be made, these items must be clearly identified on the cost estimates and plans.

D. Tests

Description

The school district, as the agent of the State, and in accordance with Title 21, California Administrative Code, is responsible for funding all necessary tests during the project's construction phase.

Tests performed during construction may include soil compaction/fill tests, materials testing, etc.

E: Inspection

Description

In accordance with Title 21, California Administrative Code (CAC), inspection services are required during the construction of all new facilities. The school district, as the agent of the State, must solicit proposals from several OSA certified inspectors known by reputation as being well qualified and experienced in the construction of public schools. The district is also responsible for negotiating an agreement with the inspector which is most favorable to the State in regard to compensation for professional services.

Inspector's Salary

The estimate for the inspector's salary must be in accordance with prevailing wages for comparable services. Inspection costs will be approvable for a period not exceeding the legal duration of the construction contract. The contract period is terminated upon the filing of the *Notice of Completion.*

Additional inspectors fees may be approved for those contracts in which a time extension was granted through the OLA change order process.

Inspection fees for a period not exceeding 35 calendar days after the filing of the *Notice of Completion* are eligible for work the district has deemed incomplete at the close of the construction contract period.

Inspector's Role

The inspector shall act under the direction of the project architect or registered engineer in assuring compliance with the approved plans and specifications. The inspector must inspect every part of the work. In no case, shall the inspector have or assume any duties which would prohibit continuous inspection.

Note: A school district official/employee may not provide inspection services for their own school project regardless of qualifications.

F. Furniture and Equipment

Description

A furniture and equipment allowance is provided to each project to adequately equip all spaces and functions within the facility with the proper movable furniture and equipment items. The furniture and equipment allowance is generated by the eligible building area and facility classifications.

Ineligible Expenditures

Built-in or fixed equipment (fixtures) and supplies are not considered movable furniture and equipment items, and are generally funded with the building construction allowance. In addition, furniture and equipment funds may not be utilized for the purchase of equipment for adult education, community use, or for intramural or inter-school sports as distinguished from the required physical education program of the district.

Schedule of Allowance

The following chart is used to determine a preliminary estimate at Phase II for the furniture and equipment allowance. The final allowance will be determined by the OLA upon approval of the bid.

GRADES SERVED	ALLOWANCE PER SQUARE FOOT
K–6,K–8	$5.00
6–8,7–8,and7–9	6.00
9–12,10–12	7.00
Continuation High	8.00
Special Education	10.00

Furniture and Equipment Cost Index

Once a furniture and equipment allowance has been determined apply the current furniture and equipment cost index factor. The furniture and equipment cost index factor is adjusted quarterly.

Furniture and Equipment Included in the Contract

If the construction contract includes eligible furniture and equipment items, the district must submit an itemization of proposed purchases and the associated unit costs. The cost of these items will be transferred from the furniture and equipment allowance to the project's construction allowance. In addition, the architect fee, calculated at eight percent of the cost of these items, will be reduced from the furniture and equipment allowance.

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Maximum Allowance

The maximum furniture and equipment allowance, as established at the bid approval, is as follows:

- new construction is limited to 100 percent of the calculated allowance; and/or
- replacement of abandoned facilities is limited to 50 percent of the calculated allowance.*

* The allowance provided for the replacement of abandoned facilities is limited to 50 percent of the maximum allowance because inventory remains from the original facilities.

OLA Review

Upon the district's request, the OLA will conduct a courtesy review of the district's anticipated furniture and equipment purchases.

Audit of Furniture and Equipment Expenditures

Upon completion of the project, an audit of the district's furniture and equipment expenditures is conducted wherein any ineligible expenditures are reduced from the project. If prior to the final audit, the district has not completed purchasing all the furniture and equipment necessary the district must submit a list of anticipated expenditures. This action will reserve funds for future furniture and equipment expenditures.

District Certification for Central Kitchens

An allowance is provided to those projects including a central kitchen which services:

- at least two satellite serving kitchens in addition to its central kitchen site.

In order to receive a central kitchen allowance, the district must provide:

- identification of the schools which house the satellite serving kitchens; and
- the number of pupils to be served by the central kitchen.

G. Contingencies

Description

Contingencies in the project budget provide a means for financing eligible unforeseen costs necessary to complete the project.

Calculations of Contingencies

The contingency amount is calculated at 1½ percent of Items A through F as delineated on the cost estimate. In addition, an amount of $2,000.00 is allocated to this category.

Eligible Expenditures

Upon a bid approval and authorization by the Local Assistance Officer, expenditures from the contingency fund are allowable under the following circumstances:

TYPE OF EXPENDITURE	CIRCUMSTANCE
Non-Construction	For cost increases *not* involving changes to a construction contract (i.e., inspection, tests, etc.), a transfer of funds to the budget item requiring the increase may be requested when: • Prior to 90 percent construction completion (building), the District Representative must submit a written statement requesting a transfer of funds from the contingency fund to the specific budget item requiring the increase. • After 90 percent construction completion (building), funds will be automatically transferred based on the project's expenditure reports as submitted to the OLA.
Construction	For cost increases involving the construction contract (i.e., site development, building construction, etc.), a formal change order must be submitted to the OLA (see *Change Orders, page 3-D-11*).

Continued on the next page

Ineligible Expenditures

The contingency fund is not available for the following types of expenditures:

ITEM	DESCRIPTION
New Construction (Building)	Cost increases associated with the building portion of the construction contract that exceed the difference between the "bid allowance" and the "acceptable low bid" as established at the time of the bid approval.
General Site Development	Cost increases associated with general site development that exceed the general site development allowance as established by law and as calculated at the time of the bid approval (see *Bid Approval, pending development*).
Purchase Price of Property	Increases in the purchase of real property.

Change Orders

Introduction

Once a project is under construction any changes or alternations to the OSA-approved plans and specifications can be accomplished only through the "change order" process.

Approval Criteria

In order for a change order to be approved, at least one of the following criteria must be met:

- the change is necessary for the health, welfare, and/or safety of the children; or
- the change is required by the State Architect/State Fire Marshal; or
- the change is necessary to complete the project as approved by the SAB.

Restrictions

Under the following circumstances, changes or alterations will not be approved:

- SAB cost standards are exceeded; or
- performance is subsequent to the filing of the "notice of completion"; or
- performance is subsequent to acceptance by the governing body of the district; or
- items in the change order were included as a deductive alternate in the construction contract and the alternate was accepted by the district.

Continued on the next page

Components

It is suggested that change orders be prepared according to the American Institute of Architects (AIA) Change Order G701 document. Change orders must include the following components:

COMPONENT	DESCRIPTION/REQUIREMENT
Application Number	Identify project's application number as assigned by OLA.
School District/School Name	Identify school district and name of project.
Contractor	Identify the contractor.
Documentation	A detailed description of the change required including unit/cost itemization, drawings and any other supporting documents (i.e. videos, etc.).
Justification	Provide a reason why changes are necessary.
Requester	Party requesting change.
Change in Price	Identify dollar amount of each item (add/deduct).
Architect's Statement	Architect must certify that: • the changes are necessary; and • the district has reviewed and accepted the change order; and • the request is valid; and • approval is recommended.
Signatures	The following signatures are required: • contractor • school district • architect • Office of the State Architect (OSA): Structural Safety, Access Compliance and the State Fire Marshal, as required.
Local Agency	If requirements are made by a local agency after the project bid date, those requirements must be submitted for review. Furthermore, an explanation as to why the item was not included in the original plans and specifications is required.
Multi-Story Construction	Identify those projects which obtained a multi-story construction supplemental allowance.

Advance Approvals

Advance approvals may be obtained if immediate action is necessary to prevent extensive and unwarranted delay or to determine funding eligibility.

Maximum Funding

Funding of approved change orders for the following categories is limited to:

CATEGORY	MAXIMUM FUNDING
Utility Services, Off-Site Development, Service-Site Development or Demolition	Amount justified.
General Site Development	Allowance established prior to bid (see *General Site Development, page 3-B-49*).
New Construction (Building)	Project's bid savings (difference between bid allowance and approved contract).
Multi-Story Construction	Allowance established prior to bid (see *Multi-Story Construction, page 3-B-61*).

Note: Any item contained in a change order which exceeds ten percent of the original contract amount must be competitively bid or comply with the requirements set forth in the Public Works Code Section 20118.4.

Architect Fees

Architect fees will be calculated for all approved additive contract change order items with the exception of items resulting from errors and omissions on the part of the architect. Architect fees for change orders will be calculated based on the fees negotiated in the *Form SAB 533, Agreement Between Client and Architect.*

Fund Release

Once a change order has been approved by OLA, a fund release will be issued. However, if the contingency balance is insufficient to fund the changer order, OLA must prepare a recommendation to the SAB to obtain an additional apportionment to fund the change order. Subsequent to SAB approval a fund release will be issued.

Continued on the next page

Form SAB 521

The district will receive notification via the *Form SAB 521, Authorization to Expend Funds,* which specifically identifies the funding categories and costs which are currently being released and authorized for expenditure.

Form SAB 184 and Form SAB 184A

Upon the district's receipt of the fund release, a *Form SAB 184, Summary of Expenditures and Construction Progress, and a Form SAB 184A, Detailed Listing of Warrants by the District,* must be completed and returned to the OLA within 90 days.

Where to Submit

Submit change orders to the appropriate field representative at the Office of Local Assistance.

Audit

Introduction

All districts must submit expenditure reports detailing all project costs. These reports provide the OLA with an up-to-date project financial status.

Required Documents

All expenses incurred by the district are reported on expenditure reports as follows:

DOCUMENT NUMBER	DESCRIPTION
☐ SAB 184	Summary of Expenditures and Construction Progress
☐ SAB 184A	Detailed Listing of Warrants Issued by the District

Frequency of Reporting Expenditures

Within 90 days of the district's receipt of any State warrant, an expenditure report must be prepared by the district and submitted to the OLA. Failure to report expenditures in a timely manner may delay the release of future State funds.

Assistance

For assistance in preparing expenditure reports, contact the OLA Fiscal Services Section.

Topic Items

This topic discusses the following items:

Continued on the next page

Preliminary Audit of Expenditures

Introduction

The preliminary project audit is initiated when the building construction contract is 90 percent complete. The district is responsible to report all expenditures incurred on the project as well as any anticipated expenditures.

Form SAB 184A

The *Form SAB 184A, Detailed Listing of Warrants Issued by the District,* provides an itemization of all project expenditures.

In addition, the site and planning categories require a cost itemization by sub-Category (*see A. Site, page 3-B-37 and B. Plans, page 3-B-38*).

Form SAB 184

The *Form SAB 184, Summary of Expenditures and Construction Progress,* provides a summation of the costs detailed on the Form SAB 184A.

Final Building Construction Fund Release (10%)

The final ten percent of the building construction contract will be released when the district has reported the following information:

- actual expenditures, and
- anticipated expenditures

Final Site Development Fund Release (10%)

In the event the district has contracts other than building construction (i.e., site development) for which only 90 percent of the contract amount has been released, the district may request that the balance (ten percent) be disbursed upon submittal of the following documents:

- Notice of Completion, or
- Evidence that the contract has been performed to the satisfaction of the district. For example, evidence of satisfactory performance may be documented through a district board resolution.

In addition, the district must identify any other expenditures not authorized on the *Form SAB 521, Authorization to Expend Funds.* These expenditures must be reported on the Form SAB 184 and Form SAB 184A expenditure reports. The Form SAB 184 and Form SAB 184A must be accompanied by invoices and/or other documentation supporting the expenditures.

Final Audit of Expenditures

Introduction

A final project audit is initiated when all project expenditures with the possible exception of furniture and equipment, have been reported by the district.

Form SAB 184A

When all expenditures have been incurred, those which were not previously reported must be provided on the *Form SAB 184A, Detailed Listing of Warrants Issued by the District.*

Form SAB 184

All expenditures reported on the final *Form SAB 184A, Detailed Listing of Warrants Issued by the District,* must be summarized on the *Form SAB 184, Summary of Expenditures and Construction Progress.* If all furniture and equipment expenditures have not been completed, the remaining amount to be expended must also be identified on a separate Form SAB 184.

Notice of Completion

A notice of completion for each construction contract relative to the project must accompany the Form SAB 184A and Form SAB 184, expenditure reports.

Fund Reconciliation and Cost Analysis

When a complete audit of all expenditures reported by the district has been conducted by the OLA, a *"Fund Reconciliation and Cost Analysis"* report will be issued. This report reflects a summary of the total eligible State-funded project costs. In addition, any adjustments made to the district's Form SAB 184 and Form SAB 184A, will also appear in this report.

During this process, the district is required to review the report and respond to any inquiries made by the OLA.

Continued on the next page

Closing Action/Release of Funds

The project's final closing action consists of one of the following:

IF...	THEN...
the final eligible State funded costs are within the eligible costs authorized by the SAB	the closing action will be executed administratively.
the final eligible costs are in excess of the eligible costs authorized by the SAB	the closing action will require SAB approval.

Once the final closing action has been completed by the OLA, no additional expenditures will be recognized.

Release of Funds/Refund

Any funds due to the district as a result of the closing action will be disbursed.

If the closing action determines that a refund is due to the State, a request will be made to the district for the refund.

Field Audit

Project records are subject to a field audit up to four years after the project's final closing action.

Closing Action/Release of Funds

The project's final closing action consists of one of the following:

IF	THEN
the final eligible State funded costs are within the eligible costs authorized by the SAB	the closing action will be executed administratively.
the final eligible costs are in excess of the eligible costs authorized by the SAB	the closing action will require SAB approval.

Once the final closing action has been completed by the OLA, no additional expenditures will be recognized.

Release of Funds/Refund

Any funds due to the district as a result of the closing action will be disbursed.

If the closing action determines that a refund is due to the State, a request will be made to the district for the refund.

Field Audit

Project records are subject to a field audit up to four years after the project's final closing action.

EXHIBIT D
School Facility Cost Methodology For K-5 and 6-8 Schools

This exhibit sets out the methodology to be used for determining the cost for the District to build (1) a K-5 school which would house 837 students on a traditional, single track, nine month schedule education program; and (2) a 6-8 middle school which would house 800 students on a traditional, single track, nine month schedule education program. The cost of the K-5 school will include the 30% State required relocatables. The cost of the full 6-8 school will include the 30% State required relocatables, plus $400,000.00 for additional relocatables sufficient to house those 160 students in excess of 800, plus an additional allowance of $500,000.00 which District may use at its discretion for any purpose it deems necessary and appropriate.

The School Facilities and the application to the State for funding the School Facilities shall be in accordance with State standards and meet the following requirements:

District shall file an application for both schools with the State as early as practically possible. If the applications are not accepted or approved by the State, District shall use all due diligence to have the State approve the costs listed in the application for the construction of the K-5 and 6-8 schools. Such approval of the costs listed in the application will provide District and NLF with an approved school cost which will be used to determine mitigation fees. If District is not able to get the State to approve the school construction costs, then District and NLF shall meet and confer to mutually agree upon the school construction costs. Such School Facilities shall be constructed in accordance with the requirements and specifications contained in the Education Code, the applicable rules and regulations adopted by the State Allocation Board and the Applicant Handbook for State School Building Lease-Purchase Program put out by the Office of Public School Construction as those requirements and specifications exist at any given time ("State Requirements and Specifications").

A copy of the State Requirements and Specifications as they currently exist is attached as Exhibit C.

The application filed with the State as set out above shall include a cost estimate showing the costs which would meet the State Requirements and Specifications. Such amount shall then be used in the calculation of fees set out in this Agreement.

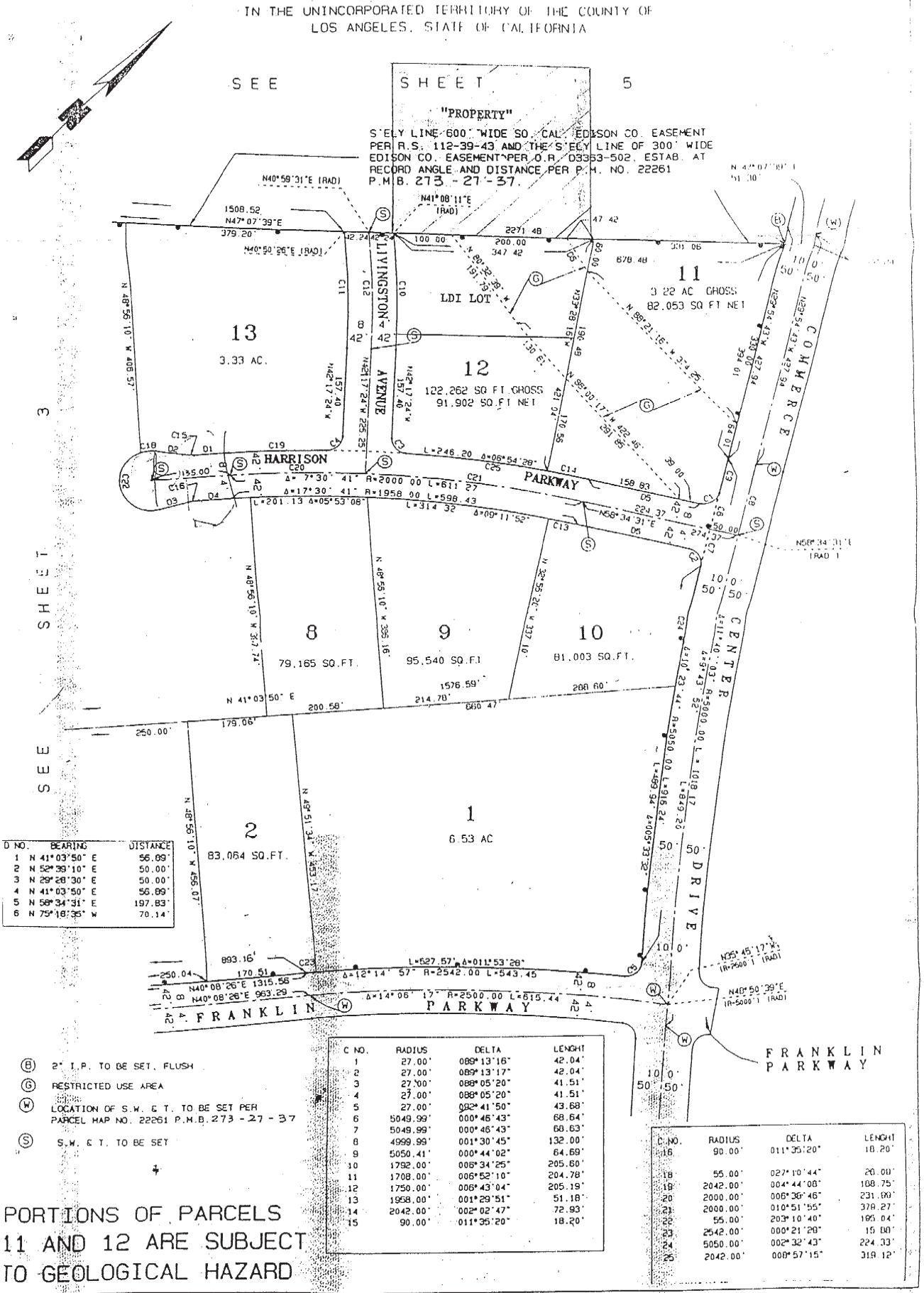
019403

SCALE 1" = 100'

EXHIBIT E

VESTING
PARCEL MAP NO. 20839

IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA



D NO.	BEARING	DISTANCE
1	N 41°03'50" E	56.89'
2	N 52°39'10" E	50.00'
3	N 29°28'30" E	50.00'
4	N 41°03'50" E	56.89'
5	N 58°34'31" E	197.83'
6	N 75°18'36" W	70.14'

C NO.	RADIUS	DELTA	LENGHT
1	27.00'	089°13'16"	42.04'
2	27.00'	089°13'17"	42.04'
3	27.00'	088°05'20"	41.51'
4	27.00'	088°05'20"	41.51'
5	27.00'	092°41'50"	43.68'
6	5049.99'	000°46'43"	68.64'
7	5049.99'	000°46'43"	68.63'
8	4999.99'	001°30'45"	132.00'
9	5050.41'	000°44'02"	64.69'
10	1792.00'	006°34'25"	205.60'
11	1708.00'	006°52'10"	204.78'
12	1750.00'	006°43'04"	205.19'
13	1958.00'	001°29'51"	51.18'
14	2042.00'	002°02'47"	72.93'
15	90.00'	011°35'20"	18.20'

C NO.	RADIUS	DELTA	LENGHT
16	90.00'	011°35'20"	18.20'
18	55.00'	027°10'44"	26.09'
19	2042.00'	004°44'08"	168.75'
20	2000.00'	006°36'46"	231.00'
21	2000.00'	010°51'55"	378.27'
22	55.00'	203°10'40"	195.04'
23	2542.00'	000°21'28"	15.80'
24	5050.00'	002°32'43"	224.33'
25	2042.00'	008°57'15"	319.12'

(B) 2" I.P. TO BE SET, FLUSH

(G) RESTRICTED USE AREA

(W) LOCATION OF S.W. & T. TO BE SET PER PARCEL MAP NO. 22261 P.M.B. 273 - 27 - 37

(S) S.W. & T. TO BE SET

PORTIONS OF PARCELS 11 AND 12 ARE SUBJECT TO GEOLOGICAL HAZARD

SUPPLEMENTAL SCHOOL FACILITIES FUNDING AGREEMENT BETWEEN THE CASTAIC UNION SCHOOL DISTRICT AND THE NEWHALL LAND AND FARMING COMPANY

This Supplemental School Facilities Funding Agreement ("Supplemental Agreement") is made at Valencia, California, as of November 20, 1997, between the CASTAIC UNION SCHOOL DISTRICT ("District"), a school district organized and existing under the laws of the State of California, on the one hand, and THE NEWHALL LAND AND FARMING COMPANY ("NLF"), a California limited partnership, on the other hand, with respect to the following facts:

A. Concurrently with the execution of this agreement, the District and NLF executed a master funding agreement for mitigation of the impacts of Newhall Ranch/Riverwood.

B. It is desired, by the execution of this Supplemental Agreement, to reach an agreement as to the other lands owned by NLF other than Newhall Ranch/Riverwood.

IN LIGHT OF THE FOREGOING FACTS, IT IS MUTUALLY AGREED THAT:

1. NLF also has other land which it is developing which includes a number of projects, listed on Exhibit A, attached hereto and made a part hereof, (the "Valencia Projects"), which are subject to an agreement dated January 16, 1992, between the William S. Hart Union High School District ("Hart"), NLF, District, and the County of Los Angeles which required that NLF pay presently a total of $2.84 for each square foot of new residential construction, adjusted for inflation, to Hart and District. The terms of the Agreement shall continue to govern the development of the Valencia Projects. In addition, NLF is also developing a residential project called the Presley Tract which has 64 residential family units covered by Tract Map Number 36668. NLF desires and District agrees that the approved Tract Map Number 36668, to the extent of 64 single family residential units, shall be covered under the same terms and conditions as are in the January 16, 1992 agreement in so far as such agreement applies to District and NLF.

2. Furthermore, NLF has other properties in and around Castaic (the "Castaic

Projects") which NLF intends to take through the entitlement process. Such properties are listed on Exhibit B, attached hereto and made a part hereof. To the extent that NLF is able to obtain entitlements on these properties, NLF agrees to pay the same economic fees that it is paying per unit as set forth in paragraphs 12, 13, 17, 18, and 19 of the agreement dated November 20, 1997, and all other terms and conditions of the agreement establishing conditions on District shall be met. Concurrently, for the impact of Newhall Ranch/Riverwood, and for that purpose that portion of the impact fees which consists of non-cash payments, such as land, shall have a dollar value assigned to any such non-cash payments and converted to a unit price so that the total mitigation for the Castaic Projects shall be the economic equivalent of the mitigation for Riverwood. In addition, non-residential projects listed on Exhibit B shall pay the statutory commercial and industrial fees. Notwithstanding any unification, District only waives the first $50,000 of such fees.

3. The District shall use its best efforts to enter into an agreement with the Saugus Union School District ("Saugus") whereby Saugus will provide classrooms and educational services to the students from that portion of the NLF property, known as the North River area, hereinafter defined as the Castaic Area ("Castaic Area"), which is depicted in Exhibit "C" to this agreement. This shall occur, if at all, through an interdistrict transfer agreement or some similar agreement to the mutual satisfaction of the District and Saugus. The terms of this agreement shall apply to those portions of the NLF property set out in this agreement which are within the District's boundaries regardless of the outcome of District's best efforts to successfully complete the annexation or reorganization set forth in this paragraph. District agrees that if the students go to Saugus as a result of this provision, then such fees paid by NLF as school fees shall be paid to Saugus.

Dated: November 20, 1997

BOARD OF TRUSTEES OF THE
CASTAIC UNION SCHOOL DISTRICT

(Signatures continued on next page)

(Signatures continued from previous page)

By: _____
PRESIDENT OF THE BOARD OF
TRUSTEES OF THE CASTAIC
UNION SCHOOL DISTRICT

ATTEST:

_____
CLERK OF THE BOARD OF TRUSTEES
OF THE CASTAIC UNION SCHOOL DISTRICT

Dated: November 20, 1997

THE NEWHALL LAND AND FARMING
COMPANY (A California
Limited Partnership)

By: NEWHALL MANAGEMENT LIMITED
PARTNERSHIP
Managing General Partner

By: NEWHALL MANAGEMENT
CORPORATION
Managing General Partner

By: _____
Its: President

By: _____
Its: Sr. V.P.

EXHIBIT A

"Valencia Projects" as defined in SETTLEMENT AGREEMENT BETWEEN WILLIAM S. HART UNION HIGH SCHOOL DISTRICT, CASTAIC UNION SCHOOL DISTRICT, COUNTY OF LOS ANGELES AND NEWHALL LAND AND FARMING COMPANY

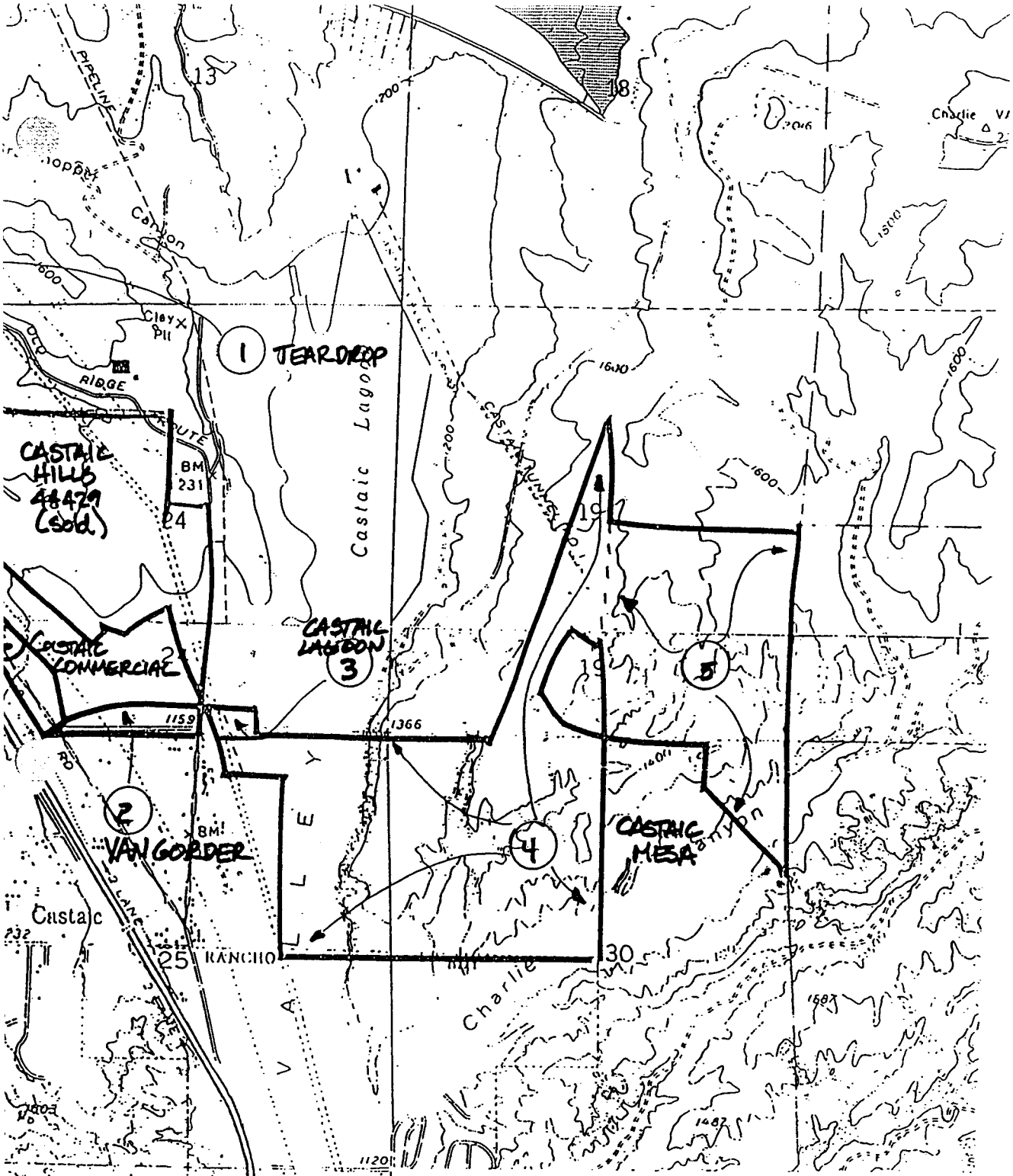
Tentative Tract No.	44429
Tentative Tract No.	44800
Tentative Tract No.	45084
Tentative Tract No.	45433
Tentative Tract No.	45440
Tentative Tract No.	44823
Tentative Tract No.	46389

EXHIBIT B

"Castaic Projects"

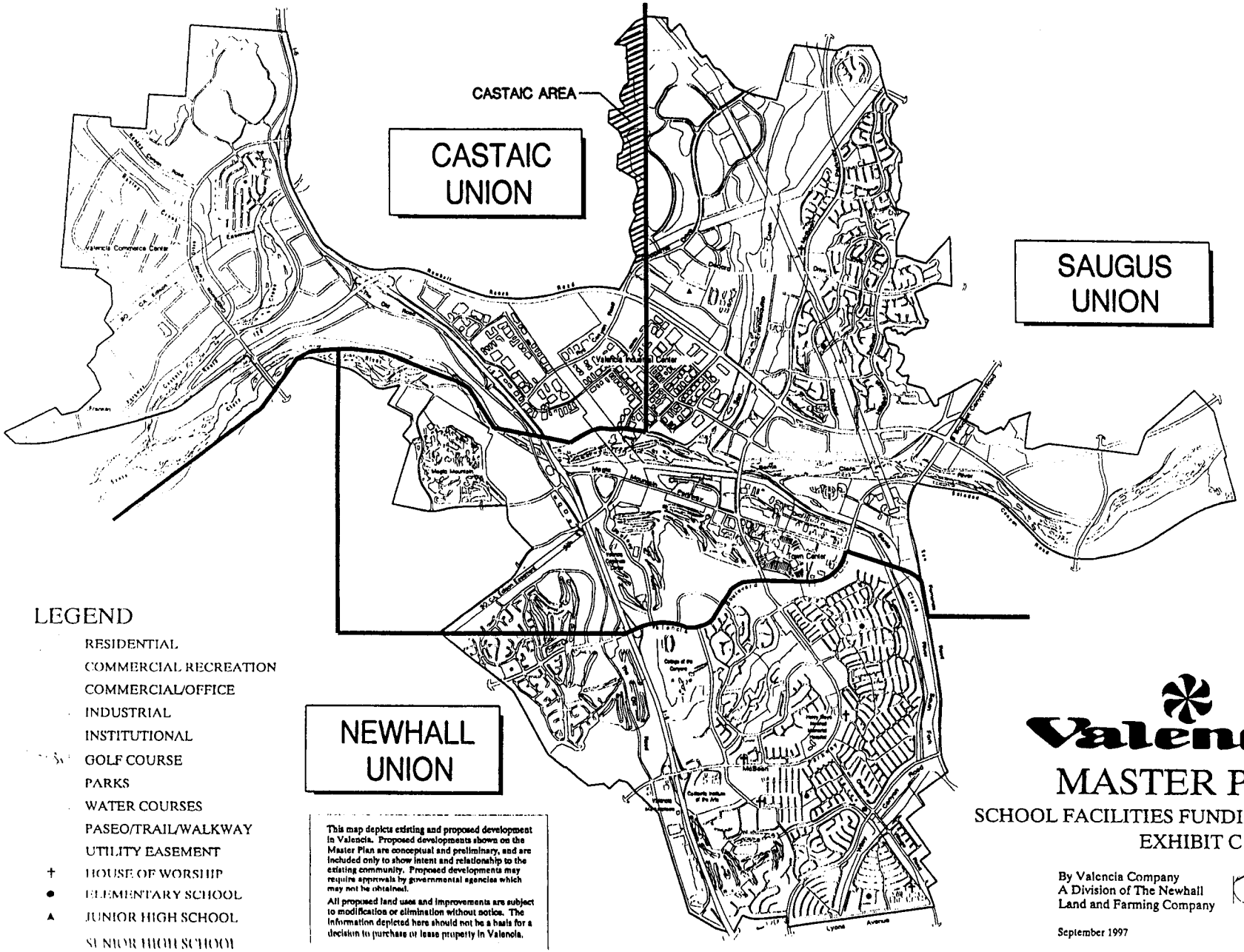
NLF Common Name	APN
Teardrop parcel	2865-17-1
Van Gorder	2865-3-23
	2865-3-27
Castaic Lagoon	2865-3-11
Mesa	2865-4-1
	2865-5-12
	2865-5-13
	2865-5-14
	2865-7-8
	2865-7-9
	2865-11-15
Lelles	2865-5-23
	2865-4-14
	2865-4-15
	2865-4-16
	2865-4-17
Castaic Commercial	2865-36-29
	2865-36-33
	2865-36-34
	2865-36-35
	2865-36-36
	2865-36-37
	2865-36-38

The attached map shows their approximate locations.



Key

6. Castaic Commercial 2865-36-21, 33 [illegible]
1. Teardrop Parcel 2865-17-1
2. Van Gorder 2865-3-23, 27
3. Castaic Lagoon 2865-3-
4. Mesa
5. Lelles



LEGEND

- RESIDENTIAL
- COMMERCIAL RECREATION
- COMMERCIAL/OFFICE
- INDUSTRIAL
- INSTITUTIONAL
- GOLF COURSE
- PARKS
- WATER COURSES
- PASEO/TRAIL/WALKWAY
- UTILITY EASEMENT
- † HOUSE OF WORSHIP
- ● ELEMENTARY SCHOOL
- ▲ JUNIOR HIGH SCHOOL
- SENIOR HIGH SCHOOL

This map depicts existing and proposed development in Valencia. Proposed developments shown on the Master Plan are conceptual and preliminary, and are included only to show intent and relationship to the existing community. Proposed developments may require approvals by governmental agencies which may not be obtained.

All proposed land uses and improvements are subject to modification or elimination without notice. The information depicted here should not be a basis for a decision to purchase or lease property in Valencia.

Valencia

MASTER PLAN

SCHOOL FACILITIES FUNDING AGREEMENT
EXHIBIT C

By Valencia Company
A Division of The Newhall
Land and Farming Company

September 1997

School Facilities Funding Agreement between the William S. Hart School District and Newhall Land and Farming

William S. Hart Union High School District

Date: October 21, 1998

To: Mr. Gary Cusumano

From: Mr. Bob Lee

Subject: **MITIGATION AGREEMENT**

==========

Enclosed is the Newhall Land and Farming Company's official copy of the signed Mitigation Agreement. Also, per your request, we have authorized our legal counsel to submit a letter of support for the Westridge Project. The letter should be sent by October 27.

I will be out of the office from October 27 through November 2. I am hoping that Jim Harter and I can get together to work on Exhibit A in order that I may fully understand all the parcels included within the boundary of the Valencia development.

Finally, as per your letter, the District understands that a copy of the Mitigation Agreement will be formally filed with your Newhall Ranch application.

As of this date, we have not heard from Alex Bowie regarding the celebration. I will be encouraging him to work on the date, time, and place as soon as possible.

The journey that we have traveled over the past two years in formulating this Mitigation Agreement has been one which, from our standpoint, has provided greater insight into your needs as a developer and the challenges that come with your attempt to seek approvals for a project of this size. I truly believe that over time, this Mitigation Agreement will serve both the students and the Newhall Ranch community well.

Thanks for your commitment and patience.

RCL:gct
Enc.
cc: Governing Board
Mr. Bowie

SCHOOL FACILITIES FUNDING AGREEMENT BETWEEN THE WILLIAM S. HART UNION HIGH SCHOOL DISTRICT AND THE NEWHALL LAND AND FARMING COMPANY

This School Facilities Funding Agreement ("Agreement") is made as of October 15, 1998, between the WILLIAM S. HART UNION HIGH SCHOOL DISTRICT ("Hart"), a school district organized and existing under the laws of the State of California, on the one hand, and THE NEWHALL LAND AND FARMING COMPANY ("Newhall"), a California limited partnership, on the other hand, with respect to the following facts:

RECITALS

A. Newhall is the owner of approximately seventeen thousand (17,000) acres of land, as shown on Exhibit "A", ("Newhall Land") located within Hart's boundaries some of which is located in the City of Santa Clarita ("City") and all of which is in the County of Los Angeles ("County"), which Newhall currently is in the process of master planning for development and obtaining land use Entitlements either by itself or by others.

B. The current plans for development of Newhall Land envision the construction of an estimated thirty five thousand (35,000) residential dwelling units ("DU") and an estimated twenty seven million (27,000,000) square feet of commercial and industrial development ("Commercial/Industrial Development") over approximately thirty (30) years.

C. The provisions herein are applicable to whatever development occurs on Newhall Land, including the proposed Westridge Project (Tentative Map 45433) of County and the Newhall Ranch Project as described in the Specific Plan ("Newhall Ranch Project Specific Plan") now being considered therefor by the County. Subject to the provisions of Section 15 of this Agreement, development which occurs on the Newhall Land in the projects listed on Exhibit "B" ("Excluded Development") are subject to the agreements or conditions of approval or

mitigation measures applicable thereto and are excluded from the obligations herein provided as to Fair Share School Impact Mitigation Payments as hereinafter defined.

D. Hart and Newhall recognize that the planned development of DU on Newhall Land will generate additional junior high and senior high school students (collectively, "Newhall Students") which in turn, will require the construction of new junior high schools ("JHS") and senior high schools ("SHS").

E. Historically, the State of California ("State") has provided a substantial portion of the funds necessary to build additional school facilities needed by school districts. However, over the last several years the amount of funds available from the State for the construction of new school facilities has been limited. The method of apportioning such funds to Hart and other school districts has been varied and uncertain, and it is unclear what amount of funds, if any, will be available to Hart in the future from the State for such purposes.

F. Hart does not have school facility capacity to accommodate the Newhall Students. Accordingly, Hart will require, as applicable, substantial additional grade 7-12 interim and permanent school facilities, including land, buildings, furnishings and equipment, as well as interim classrooms, permanent classrooms, central and administration facilities, including such facilities to accommodate students considered as being accommodated in lieu of using the school facilities of Hart on a year-round multi-track ("YRE") basis which presently is required to obtain funding for school facilities from the State ("School Facilities"). Newhall and Hart desire to enter into this Agreement to set forth Newhall's obligations to mitigate the development of Newhall Land as to Hart, and the respective obligations of Hart relating to the provision of additional School Facilities for Newhall Students.

G. Hart and Newhall agree that the present anticipated development of the Newhall Land will result in a need for an estimated three (3) additional JHS and two (2) additional SHS. If, and only if, funding from the State ("State Funding") is received by Hart for the cost of the additional School Facilities to accommodate Newhall Students, the parties intend that Newhall, as herein provided, shall receive reimbursement without interest to the extent provided in this Agreement to be paid only from the herein specified portion of State Funding for a portion of

Newhall's herein specified payment to Hart per DU ("Fair Share School Impact Mitigation Payments") as defined in Section 3 of this Agreement. Newhall hereby assumes the risk that State Funding will not be available to assist in funding School Facilities necessary to mitigate the impact of development of Newhall Land. In such case, Newhall will have contributed one hundred percent (100%) of the cost to mitigate the impact of development of the Newhall Land on the School Facilities of Hart. In consideration of Newhall's obligations provided for in this Agreement, to the extent herein specified, Hart will take all reasonable actions to seek to maximize its priorities for obtaining State Funding for needed School Facilities. If Hart determines that it would be advantageous to do so in order to obtain State Funding for additional School Facilities, Hart may request that Newhall advance funds to Hart but Newhall shall have no obligation to advance such funds.

H. Hart has determined that the Fair Share School Impact Mitigation Payments which Newhall will pay to Hart pursuant to this Agreement will allow Hart to fully mitigate any adverse impacts which might otherwise result from the development of Newhall Land. Hence, except as to Excluded Development, there will be no need to collect any fees from development of the Newhall Land which might otherwise be collected by Hart in connection with the construction of DU which meet the requirements of Government Code §65995.1 ("Age-Restricted DU") or Commercial/Industrial Development.

I. The procedure set forth in this Agreement will ensure that the development of Newhall Land, either individually or cumulatively with other projects within Hart's boundaries, will have no adverse impacts on Hart's ability to provide adequate School Facilities to all students of Hart.

IN LIGHT OF THE FOREGOING FACTS, IT IS MUTUALLY AGREED THAT:

1. ***Incorporation of Recitals.*** Recitals A through I are hereby incorporated in this Agreement.

2. ***Mitigation Requirements.*** The cost of Hart's School Facilities as of January 1, 1997, calculated on a per student basis, is estimated to be as set forth in Exhibit "C". The cost of Hart's School Facilities as of January 1, 1997, through December 31, 1998, as calculated on per DU basis, is set forth in Exhibit "D".

3. ***Mitigation Obligation.*** The Fair Share School Impact Mitigation Payment determined by the impact of future development on the School Facilities of Hart, calculated on a per DU basis as shown on Exhibit "D" as of January 1, 1997, in current dollars, are $5,600 for each such single-family detached DU, ("SFDU") and $2,100 for each multi-family attached DU ("MFDU") located within the boundaries of Hart but outside of the boundaries of the Castaic Union School District ("CUSD"). A SFDU is any DU which is a single family residence with no common walls. A MFDU (including apartments) is a DU in a building or buildings in which all of the DU have one or more supporting, above-ground vertical common walls establishing a substantial connectivity between two (2) or more DU, or a second unit ("Second Unit"). A Second Unit may be either detached or attached construction but shall be only those DUs specified and defined in the Newhall Ranch Project Specific Plan, as the proposed terms thereof exist on the date of this Agreement. All Second Units shall be located within the Newhall Ranch Project portion of the Newhall Land as shown in Exhibit "A." A Second Unit constructed on an attached basis to what otherwise would be a SFDU does not recategorize the basic SFDU as a MFDU by reason of a Second Unit being constructed on an attached basis as to what otherwise would be a SFDU. As to SFDU and MFDU, or a Second Unit, located in the CUSD portion of Hart where Hart provides educational facilities for grades 9-12, the Fair Share School Impact Mitigation Payment as of January 1, 1997, through December 31, 1998, shall be $3,640 for each SFDU and $1,360 for each MFDU and Second Unit.

As previously described herein, Hart intends to seek State Funding for future School Facilities that, prospectively, may allow repayment as a special fund obligation of Hart to Newhall only from such funding as is received by Hart and allocated to Newhall as herein provided as to a portion of the Fair Share School Impact Mitigation Payments required by reason of the residential development of Newhall Land. Newhall acknowledges that Hart has entered,

and will enter into similar agreements with others ("Fair Share Mitigation Payment Participants"). Newhall acknowledges that there is no assurance that such State Funding will be received by Hart and available for allocation to Newhall and other Fair Share Mitigation Payment Participants as provided for in this Agreement. Accordingly, Newhall will be responsible for paying to Hart the entire amount of the Fair Share School Impact Mitigation Payment relative to development of the Newhall Land on the basis provided for in this Agreement. The Fair Share School Impact Mitigation Payment shall be paid to Hart prior to the time that an application for a building permit for the construction of a DU, other than an Age-Restricted DU, a DU in an Excluded Development or a DU subject to the provisions of the Annexation Agreement, as that term is defined in Section 6.c of this Agreement, is submitted to the County, the City, or any other governmental entity which has the authority to issue building permits for the development of Newhall Land.

4. ***Adjustments To Mitigation Obligation.*** The Fair Share School Impact Mitigation Payment shall be reviewed and, if appropriate, increased or decreased by Hart, from the base date, at the times, and in accordance with the methodologies set forth in this Section 4. The adjustments shall be based on variations in student generation factors ("SGF"), land value of school sites ("Land Value Component") and costs of construction, furnishings, equipment and related costs ("Non-Land Value Component") as follows:

a. *Student Generation Factors.* As set forth in Exhibit "E", certain initial SGF have been used in determining the initial amounts of the Fair Share School Impact Mitigation Payment. The SGF to be used until January 1, 1999, shall be: 0.171 SHS students for each SFDU, 0.064 SHS students for each MFDU or Second Unit, 0.098 JHS students for each SFDU, and 0.037 JHS students for each MFDU or Second Unit. Effective each January 1, commencing January 1, 1999, as provided in this Section 4, the amount of Fair Share School Impact Mitigation Payments shall be increased or decreased based upon the recalculation of the SGF for Hart determined in accordance with the methodology set forth in Exhibit "E" and the other provisions of this Section 4 of this Agreement, all as set forth in Exhibit "F".

b. *Land Value Component.* A Land Value Component of Three Hundred Seventy-five Thousand Dollars ($375,000) per net usable acre, as of January 1, 1997, assuming a construction-ready condition, with dedicated and improved public roads and utilities, including storm drainage facilities, has been used in calculating the initial Fair Share School Impact Mitigation Payment as of January 1, 1997. The parties acknowledge this value per acre may vary as the Newhall Land is developed. Consequently, effective each January 1st, commencing January 1, 1999, the Fair Share School Impact Mitigation Payment shall be increased or decreased based upon the Land Value Component determined as of a valuation date of the preceding October 15th. This adjustment shall be determined by the appraised per acre value of the sites then under consideration by Hart for the next JHS site and the next SHS site ("Proposed Sites"). If Hart identifies more than one (1) JHS Proposed Site or more than one (1) SHS Proposed Site, the Land Value Components for the JHS and for the SHS shall be based on the average of the appraised per acre values of all JHS Proposed Sites and the average of the appraised per acre values of all SHS Proposed Sites.

Appraisals at Hart's cost payable from Fair Share School Impact Mitigation Payment or interest earned thereon shall be conducted by a member of the Appraisal Institute ("AI") which person shall be selected by Hart ("Hart Appraiser"). The Proposed Sites shall be appraised on the basis that each Proposed Site satisfies the site requirements set forth in Section 7.b. of this Agreement and shall be on the basis of the highest and best use of the Proposed Sites as determined by the Hart Appraiser. If Newhall does not concur as to the Hart Appraiser, or its opinion of value, Newhall may designate, at its own expense, an appraiser that is currently a member of the AI ("Developer Appraiser") to independently appraise the Proposed Sites and prepare a report establishing and supporting the Developer Appraiser's opinion of the fair market value of each of the Proposed Sites. If the opinions of value of the Hart Appraiser and the Developer Appraiser differ by ten percent (10%) or less from each other, the appraised fair market value of the Proposed Sites shall be deemed to be the average of the two (2) appraisals as to each of the Proposed Sites. If the opinions of value of the Hart Appraiser and the Developer Appraiser differ by more than ten percent (10%), the Hart Appraiser and the Developer Appraiser

shall be instructed to agree upon a third appraiser who shall be a member of the AI ("Supplemental Appraiser"). The cost of the Supplemental Appraiser shall be shared equally by Hart and Newhall. The Supplemental Appraiser also shall independently appraise the Proposed Sites and prepare a report establishing and supporting his or her opinion of the fair market value of each of the Proposed Sites. In that event, the appraised fair market value of each of the Proposed Sites shall be deemed to be the average of the two (2) appraisals having the closest opinions of value. In the event the appraisal of each of the Proposed Sites conducted by the Supplemental Appraiser equals the average of the Hart Appraiser and the Developer Appraiser, then the appraised fair market value of each of the Proposed Sites shall be deemed to be the value determined by the Supplemental Appraiser. In the event other Fair Share Mitigation Payment Participants also desire to designate a Developer Appraiser, such appraiser shall be the appraiser designated by a majority of Newhall and the other Fair Share Mitigation Payment Participants whose mitigation agreements contain a Land Value Component adjustment substantially similar to the provisions of this Agreement. Newhall agrees to bear its pro rata share of the cost of the Developer Appraiser and the Supplemental Appraiser designated by a majority of the parties executing such mitigation agreements with Hart. If the parties are unable to agree on the Developer Appraiser, Hart shall designate the Developer Appraiser from a list of appraisers submitted by Newhall and other Fair Share Mitigation Payment Participants.

c. *Non-Land Value Component.* Effective January 1, 1999, the Non-Land Value Component shall be increased or decreased based upon the percentage change in the Marshall & Swift Class D Wood Frame Index for the Western United States ("Index"), for the period of November 1, , 1996 to October 31, 1998. Each January 1st subsequent to January 1, 1999, the Non-Land Value Component shall be increased or decreased based on the percentage change in the Index for the prior twelve (12) month period ending on the preceding October 31st. If the Index is no longer published, an equivalent index shall be reasonably determined by Hart.

d. *Adjustment Process.* The annual adjustment of the Fair Share School Impact Mitigation Payment shall be accomplished in the manner set forth in Exhibit "F" and in accordance with the procedure set forth in this Section 4.d.

Not later than November 15th of each year, Hart shall prepare and submit to Newhall an analysis of the proposed Fair Share School Impact Mitigation Payment adjustments described in Subsections (a) through (c) above ("Annual Adjustment Analysis") and Hart shall provide Newhall with all supporting documentation used for the Annual Adjustment Analysis. Hart shall therein state the proposed revised Fair Share School Impact Mitigation Payment to be applicable for the next succeeding calendar year effective on the next January 1st. Hart shall meet with Newhall to review and discuss the Annual Adjustment Analysis not later than December 10th of each year. Hart shall take into account any information provided by Newhall with respect to the Annual Adjustment Analysis, either before or after completion of the Annual Adjustment Analysis, in determining adjustment of the Fair Share School Impact Mitigation Payment. Any disputes between Newhall and Hart with respect to the Annual Adjustment Analysis not resolved to each party's satisfaction shall be resolved in accordance with Section 24 of this Agreement, but only after either Hart or Newhall determine no other alternative is feasible. Pending such resolution, any revised Fair Share School Impact Mitigation Payments that becomes due may be paid under protest and, if any amount subsequently is determined to have been improperly applied by Hart, such additional amount shall be returned by Hart to Newhall with interest at the average rate paid by the Los Angeles County Local Agency Investment Fund accruing from the date of payment to the date of repayment by Hart to Newhall.

5. ***Notice of Annual Adjustment.*** No later than November 15th of each year, Hart shall forward to Newhall the Annual Adjustment Analysis provided for in Section 4.d of this Agreement. The Adjustment Analysis shall serve as notice from Hart as to any determination of the Student Generation Rate, Land Value Component, Non-Land Value Component, Fair Share School Impact Mitigation Payment, or any other determination or document which would impose a duty on Newhall or change the extent of Newhall's obligations under this Agreement.

6. ***Reimbursement From State Funding.*** Prior to any allocation of State Funding to Newhall as provided for in this Agreement, Hart shall have received State Funding for a JHS and a SHS. This amount as to such JHS and SHS shall be equal to at least one hundred percent (100%) of fifty percent (50%) of the cost of site acquisition and improvement, design inspection,

construction, furnishing and equipment of a JHS and of a SHS for which State Funding is received by Hart. State Funding presently is provided, when available, for site acquisition and planning ("Phase P") and construction ("Phase C") of School Facilities. If only Phase P or Phase C, or however such funding is subsequently designated, is funded by the State, but not both, as to a given JHS or SHS, to be allocated to Hart as herein provided the unfunded portion of Phase P or Phase C, or if a JHS or SHS is designed and constructed at a lesser capacity than designated in Exhibit "C", such unfunded minimum amount as to a JHS or SHS shall carry forward as to State Funding and be reserved for Hart pursuant to this Agreement to the next JHS or SHS for which State Funding is received by Hart, prior to any allocation of State Funding to Newhall. The total amount of State Funding for a JHS and for a SHS to be allocated pursuant to the terms of this Agreement shall be determined on the basis equal to what would be apportioned and funded by the State for the actual completed total cost of such JHS or SHS based on a JHS of 1,000 students and a SHS of 2,000 students on a traditional school year calendar. This amount is not intended to include any cost for accommodating students in lieu of operating such JHS or SHS on a YRE. Subject to the foregoing, State Funding for future JHS and SHS, shall be apportioned to Newhall as follows:

a. Hart shall keep a cumulative total, which shall be adjusted as set forth herein, of JHS and SHS Newhall Students resulting from DU constructed as the result of building permits issued after Hart has received the Fair Share School Mitigation Payments provided for in this Agreement beginning on the day after this Agreement becomes effective based on the SGF in effect at the time each Fair Share School Impact Mitigation Payment for a SFDU, MFDU or Second Unit is paid to Hart ("Newhall Reimbursable Students").

i. If the total number of Newhall Reimbursable Students and students generated by DU subject to agreements with Fair Share Mitigation Payment Participants for a new JHS or SHS, as the case may be, is less than the design capacity of such JHS or SHS herein assumed to be 1,200 for a JHS or 2,400 for a SHS ("Capacity"), Hart shall divide the number of Newhall Reimbursable Students by the Capacity of that school ("Newhall Reimbursement Fraction"). Hart shall then pay an amount equal to the Newhall Reimbursement Fraction times

the amount of State Funding received by Hart to Newhall within thirty (30) days of Hart's receipt of such State Funding. Upon payment, Hart shall reduce the number of JHS or SHS Newhall Reimbursable Students, as the case may be, by a number equal to the Capacity of the applicable JHS or SHS multiplied by the Newhall Reimbursement Fraction.

ii. If the total number of Newhall Reimbursable Students and students generated by DUs subject to agreements with Fair Share Mitigation Payment Participants ("Total Number of Reimbursable Students") for a New JHS or SHS, as the case may be, is equal to or exceeds the Capacity of the school, Hart shall divide the number of Newhall Reimbursable Students by the Total Number of Reimbursable Students ("Newhall Adjustment Fraction"). Hart shall then pay an amount equal to the Newhall Adjustment Fraction times the amount of State Funding received by Hart to Newhall within thirty (30) days of Hart's receipt of such State Funding. Upon payment, Hart shall reduce in its records the number of JHS or SHS Newhall Reimbursable Students, as the case may be, by a number equal to the Capacity of that school multiplied by the Newhall Adjustment Fraction.

b. If Hart has requested and received advanced funds from Newhall, Newhall shall designate those funds as advance payment of Fair Share School Impact Mitigation Payments for SFDU, MFDU or Second Unit as it determines in its sole discretion. The number of Newhall Reimbursable Students associated with the number and type of DU specified by Newhall shall be increased immediately upon receipt by Hart of the advanced funds and Newhall shall be credited as herein provided in Section 6c with having paid the Fair Share School Impact Mitigation Payments for the number and type of DU specified.

c. Hart has entered into a school facilities funding agreement with Newhall, dated December 16, 1997, a copy of which is attached as Exhibit "G", which governs the school impact mitigation measures required for land designated therein that is to be annexed to the City ("Annexation Agreement"). At the time that the Proposed Junior High School Site, as that term is defined in the Annexation Agreement, is transferred to Hart and all required improvements completed on a lien-free basis, Newhall shall specify the number and type of DU as to which it will be deemed to have paid the Fair Share School Impact Mitigation Payments. In determining

the number of Newhall Reimbursable Students, Hart shall apply the initial SGF set forth on Exhibit "E" to this Agreement and the SFDU or MFDU designated by Newhall at the time of such payment to Hart. The number of Newhall Reimbursable Students associated with the number and type of DU specified by Newhall shall be increased immediately upon receipt by Hart of the Proposed JHS Site provided for in the Annexation Agreement and Newhall shall be credited with having paid the Fair Share School Impact Mitigation Payments for the number and type of DU specified by Newhall.

d. Attached as Exhibit "H" are examples of some possible scenarios of the foregoing which are attached only as explanatory material and are not intended to and do not affect or change any of the provisions of this Section 6 of this Agreement.

7. ***New School Facilities.***

a. *School Size.* Each additional JHS will be considered to have been designed and constructed to accommodate approximately one thousand two hundred (1,200) students on a traditional, single track, nine month school schedule and each additional SHS will be considered to have been designed and constructed to accommodate approximately two thousand four hundred (2,400) students, on a traditional, single track, nine month school schedule.

b. *Site Requirements.* Each additional JHS will be built on a site containing approximately twenty five (25) net usable acres, and each additional SHS will be built on a site containing approximately forty five (45) net usable acres. Net useable acres shall be exclusive of slopes which exceed two percent (2%) assuming a construction-ready condition.

c. *Construction of New Schools.* Hart, subject to availability of funds for such purposes, will build as many additional JHS and SHS as are necessary to house Newhall Students. Hart will use its best efforts to locate only two (2) additional JHS and one (1) additional SHS on Newhall Land. Hart, on a best efforts basis, will seek to locate such additional JHS and SHS as shown on Exhibit "A." The precise location of such JHS and SHS to be built on Newhall Land will be mutually agreed upon between Hart and Newhall and acceptable to the State. In the absence of such mutual agreement, the precise location of such

JHS or SHS shall be determined by Hart subject to approval by the State. In the event Hart reasonably determines that additional JHS or SHS should be located on Newhall Land, it may acquire the sites for the additional schools either through negotiations or by means of an eminent domain action. Hart shall pay Newhall the fair market price for all school sites it acquires from Newhall except for the JHS site transferred to Hart pursuant to the Annexation Agreement as to which the fair market value has been agreed upon and the consideration therefor is as provided for in the Annexation Agreement.

8. ***Certification of Mitigation.***

a. Immediately upon receipt from Newhall or any of its assignees of the required school impact mitigation fee or mitigation payment in the required amount for each DU and Commercial/Industrial Development in an Excluded Development or the Fair Share School Impact Mitigation Payment for each DU subject to this Agreement, Hart shall provide any written certification required to obtain building permits or other approvals for the construction of DU from the County, the City, or any other governmental entity which requires such certification. The certification shall be in writing and shall be provided for whatever number of DU are requested and paid for by Newhall or by any assignee of Newhall at any time.

b. As to the Newhall Land, immediately upon request by Newhall or any of its assignees without the payment of any fees whatsoever, Hart shall provide any written certification required to obtain building permits or other development approvals for the construction of Age-Restricted DU, or Commercial/Industrial Development and the construction of DU subject to the Annexation Agreement specified by Newhall from the County, the City, or any other governmental entity which requires such certification. The certification shall be in writing and shall be provided for whatever number of Age-Restricted DU, or Commercial/Industrial Development and DU subject to the Annexation Agreement are requested by Newhall or any of its assignees at any time. The foregoing is not applicable to the Excluded Development portion of the Newhall Land which is subject to the obligations and requirements applicable thereto .

9. ***Maximization of Priorities to Receive State Funding.*** If it has not already done so, Hart shall submit applications for State Funding for a JHS and for a SHS to the Office of Public School Construction within thirty (30) days of the signing of this Agreement. Hart shall thereafter take all reasonable steps available to Hart to pursue and obtain State Funding and federal funding, if any, for a JHS and a SHS. Hart may pursue such funding on the basis of what is presently designated as Priority Two for one hundred percent (100%) funding or Priority One for fifty percent (50%) funding of State eligible area and costs of a JHS or SHS. Pending legislation may be enacted providing only for fifty percent (50%) of such funding except for greater amounts under specified circumstances. If Hart elects to not pursue the highest priority for the first JHS or the first SHS for State Funding and the greater amount based on what presently is a Priority Two or hardship basis is not received by Hart and the lesser amount, herein assumed fifty percent (50%), would have been received by Hart on the basis of a Priority One application, such amount, if not received, will be credited against and reduce the priority allocation of State Funding to Hart provided for in Section 6 of this Agreement. As to any subsequent JHS or SHS, Hart shall pursue the highest priority for State Funding unless otherwise agreed by the Parties. Neither Party shall unreasonably withhold such consent. Hart shall take no actions which would deny or delay obtaining State Funding as provided for in this Agreement. Provided Hart has the local matching funds or, as provided for herein, Newhall, in its sole discretion. has advanced the necessary funds, Hart. subject to the foregoing, shall maintain an active, up-to-date application for the first available State Funding. Hart shall pursue similar appropriate action if State law or policy changes in regard to future State Funding. Hart shall not acquire other chargeable space which substantially adversely affects its eligibility for future State Funding except as provided in this Agreement (i.e., facilities for students in lieu of YRE as referred to in Recital F). Newhall and Hart acknowledge that leases of portable classrooms for less than five (5) years prior to an application for State Funding are not existing school building capacity under Chapter 407 of the 1998 Statutes (Section 17071.30(a) of the Education Code) if existent and applicable to Hart at any point in time relevant to the Newhall Land. Further, Hart shall obtain any interim or temporary school facilities, including, but not limited to, relocatable

and portable, classrooms in such manner so as not to unreasonably reduce the number of unhoused students relative to Hart's eligibility for future State Funding. Except as set forth herein, this Agreement shall not in any manner be asserted by Newhall to interfere in any way with, or to limit, Hart's Board of Trustees in determining what educational and school facilities policies will best further the interests of Hart's students or the construction or operation of its educational facilities.

10. ***Support of Land Use Applications***. Hart shall, within ten (10) days of receipt of written request from Newhall as to adequacy of School Facilities for development of the Newhall Land, express, orally and in written form, its support for any request for a land use approval, whether legislative or administrative, sought for the development of any portion of Newhall Land from the County, the City, or any other governmental entity which has the right to grant such an approval. Such action by Hart shall relate only to the adequacy of school facilities for such development and not the desirability or undesirability of approval except as related to adequacy of School Facilities for such proposal.

11. ***Certification of Adequacy of Mitigation***. Hart shall provide written certification within ten (10) days of receipt of a written request from Newhall or any Newhall assignee that adequate educational facilities exist, or that the financing provided by this Agreement guarantees their availability as needed, to house Newhall Students. This written certification shall be given to the California Department of Real Estate, the County, the City, or any other governmental entity which may have development approval authority over any portion of Newhall Land. Each such certification shall be based on each JHS having the capacity to serve the needs of 1200 students and each SHS having the capacity to serve the needs of 2400 students.

12. ***Equal Treatment Provisions***. Not later than November 15th of each year, or upon Newhall's written request at any other time, Hart shall provide Newhall with copies of all mitigation agreements entered into with other developers or landowners that have not previously been provided to Newhall. Hart shall, at the same time, provide any analyses of such agreements prepared by Hart or its consultants and all other materials in Hart's possession reasonably

necessary for the evaluation of the economic terms of such agreements to the extent such documents are not subject to the attorney-client privilege.

If Hart enters into any such agreement which is more economically advantageous than this Agreement, as agreed upon by parties or as determined pursuant to Section 24 of this Agreement, this Agreement shall be modified to make the obligations of this Agreement consistent with, and no greater than, the obligation imposed by any such agreement. Any such modification shall not require an amendment to this Agreement but may be described in an addendum signed by Hart and Newhall. Any modification to the obligations imposed on Newhall by this Agreement shall be effective as of the date of Hart's approval of any such agreement and Newhall shall be entitled to a refund of the amount of the Fair Share School Impact Mitigation Payments in excess of the modified amount plus interest on the refunded amount at the average interest rate paid by the Los Angeles County Local Agency Investment Fund accruing from the date of each payment to the date of refund.

An agreement requiring a lesser mitigation payment per DU, but requiring other consideration of equal or greater value, such as land, shall not be considered a more economically advantageous agreement. A subsequent agreement shall not be deemed more economically advantageous if it is the result of a condition of approval imposed prior to the effective date of this Agreement which explicitly limits the amounts payable to Hart imposed by a prior action of a public agency (other than Hart) or due to a change in applicable law including but not by way of limitation Chapter 407 of the Statutes of 1998.

13. ***No Further Exactions***. Hart shall not, under any circumstances:

a. Exercise any power or authority under current of future law to levy or impose an exaction of land, goods, money, or services, whether denominated a fee, charge, dedication, or otherwise, against any development of Newhall Land;

b. Require, request, or cooperate with the County, the City, or any other governmental entity to exercise any power or authority to levy or impose an exaction of land, goods, money, or services, whether denominated a fee, charge, dedication, or otherwise, for Hart's benefit;

c. Oppose the development of any portion of Newhall Land or any governmental approval, whether legislative or administrative, or any change in any governmental approval on any basis whatsoever; or

d. Sponsor or require the formation of a Communities Facilities District ("CFD"), except for a CFD or multiple CFDs which together include all of the land within Hart's boundaries, for any of Newhall Land without the express, written consent of Newhall which consent may be given or withheld in Newhall's sole discretion. Hart shall not unreasonably refuse to act as a sponsor for a CFD or similar public financing procedure if requested to do so by Newhall. Hart may accomplish any general obligation bond election that it desires on a District-wide basis or by one or more school facilities improvement districts.

14. ***Adequacy of Newhall's Mitigation Obligation***. The school fees and payments as well as the Fair Share School Impact Mitigation Payments to be provided to Hart by Newhall pursuant to the terms of this Agreement constitute the entire extent of Newhall's obligation to provide the funds necessary for Hart to obtain the School Facilities needed to house Newhall Students.

15. ***Changes in Excluded Developments***. If the number or type of DU, other than Age-Restricted DU, in an Excluded Development is changed ("Changed Project") so that the total number of Newhall Students from a Changed Project is increased, the number of JHS and SHS students generated by the Excluded Development then under consideration, without taking into consideration the Changed Project. shall be determined using the then existing SGF ("Excluded Development Students"). Thereafter, the number of JHS and SHS students from the Changed Project shall be determined by using the then existing SGF ("Changed Project Students"). The difference shall be determined between the total number of Changed Project Students and the Excluded Development Students for both JHS students and SHS students ("Additional JHS Students" and "Additional SHS Students", collectively "Additional Students"). The cost of School Facilities for the Additional Students shall be determined as provided in Exhibit "D" adjusted as provided for in this Agreement. Such cost shall be apportioned proportionately to all DU in the Changed Project in addition to whatever obligation is otherwise

applicable to each such DU. Attached as Exhibit "I" are examples of some possible scenarios of the foregoing which are attached only as explanatory material and are not intended to and do not affect or change any provisions of this Section 15 of this Agreement.

16. ***Agreement Not Terminated By Change In Law.*** No development, change of development, governmental approval, nor change in any governmental approval of any portion of Newhall Land shall constitute the basis for any change or termination of this Agreement because this Agreement provides for the complete mitigation of all impacts, direct and cumulative, to the development of Newhall Land on Hart's ability to provide adequate educational opportunities to every student within Hart's boundaries. The provisions of this Agreement shall not be affected by any existing applicable law or subsequent legislation enacted by the State of California acting through the legislative or initiative process, or any subsequent judicial decisions relating to the matters provided for in this Agreement. The Fair Share School Impact Mitigation Payments provided for in this Agreement are hereby appropriated and dedicated to the costs related to future acquisition, construction and financing of the School Facilities and other such related costs of Hart for purposes of housing Newhall Students.

17. ***Transfer and Encumbrance.*** Newhall shall have the right, in its sole discretion, to sell or encumber Newhall Land, improved or unimproved and in whole or in part, by any deed, mortgage, deed of trust, or other security device. No sale, transfer, or encumbrance of any portion of Newhall Land shall affect Newhall's obligations under this Agreement. Neither this Agreement nor any breach of this Agreement shall defeat, invalidate, diminish, or impair the lien or priority of any deed, mortgage, deed of trust, or other security device.

18. ***Mutual Cooperation.*** Unless this Agreement provides to the contrary, Hart and Newhall shall, within ten (10) days of receipt of a written request from the other party, perform any acts and prepare, sign, deliver, file, and record any documents reasonably required to obtain the goals and to satisfy the conditions, contained in this Agreement. This includes, but is not limited to, providing the requesting party with a written statement certifying that:

a. This Agreement is unmodified and in full force and effect, or, if there have been modifications, this Agreement, as modified, is in full force and effect, stating the date and nature of any modification; and

b. There are no current uncured defaults under this Agreement or, if there are any, the dates and natures of the defaults.

19. ***Assignability of Agreement.*** Newhall is acting as the master developer of Newhall Land and intends to sell portions of Newhall Land to builders who will construct and sell residential, commercial, and industrial buildings to the public. Newhall shall have the unconditional right to assign any right or obligation under this Agreement to anyone at any time which assignee shall proportionally assume all applicable provisions of this Agreement. Whenever this Agreement provides Newhall with a right, that right may be exercised by an assignee of that right to the same extent that Newhall could have exercised that right. The assignment of any right or obligation under this Agreement shall be in writing and a copy of the assignment shall be provided to Hart. No such assignment shall relieve Newhall of any of its obligations under this Agreement without Hart's written consent which consent shall not unreasonably be withheld.

20. ***No Third Party Beneficiaries.*** This Agreement is entered into solely for the benefit of Hart and Newhall and their successors, transferees, and assigns. Other than Hart and Newhall and their successors, transferees, and assigns, no third person shall be entitled, directly or indirectly, to base any claim or to have any right arising from, or related to, this Agreement.

21. ***Entire Agreement.*** Except as to the Excluded Development this Agreement contains the entire agreement and understanding concerning the funding of School Facilities as to the Newhall Land as described on Exhibit "A" and supersedes and replaces all prior negotiations and proposed agreements, written or oral, except as they are included in this Agreement. Excluded Development, except as herein specified in Section 15 of this Agreement, shall be subject to the applicable fees or Mitigation Payments identified in Exhibit "B". Hart and Newhall acknowledge that neither the other party nor its agents nor attorneys has made any promise, representation, or warranty whatsoever, express or implied, not contained herein to

induce the execution of this Agreement and acknowledge that this Agreement has not been executed in reliance upon any promise, representation, or warranty not contained herein.

22. ***Amendments Must Be In Writing.*** This Agreement may not be amended except by a writing signed by Hart and Newhall.

23. ***Acknowledgment of Independent Investigation.*** Hart and Newhall acknowledge that each has conducted an independent investigation of the facts concerning the development of Newhall Land (including the development of the Excluded Projects), the impacts that Newhall Students will have on Hart's educational facilities, and the costs of housing Newhall Students.

24. ***Disputes To Be Arbitrated.*** Hart and Newhall desire to resolve any disputes as to the meaning of any portion of this Agreement, the validity of any determination or calculation, or the rights or obligations of Hart or Newhall under it as quickly as possible. Therefore, any such disputes shall be resolved by binding arbitration conducted by a mutually agreed upon retired judge of the Los Angeles Superior Court. If Hart and Newhall are unable to agree on the arbitrator within thirty (30) days of the receipt of a request for arbitration, they shall request that the presiding judge of the Los Angeles Superior Court designate one. Hart and Newhall shall each pay one-half the cost of the arbitration and each shall be responsible for its own attorneys' fees and costs as to any such arbitration.

25. ***Recovery Of Litigation Expenses.*** Except as provided in Section 24 above, if it becomes necessary to enforce any of the terms of this Agreement, the prevailing party shall be entitled to reasonable attorneys' fees and other costs of litigation in addition to any other relief to which it may be entitled.

26. ***Venue for Resolving Disputes.*** Any arbitration or litigation arising out of this Agreement shall be conducted only in Los Angeles County, California.

27. ***Interpretation Guides.*** In interpreting this Agreement, it shall be deemed it was prepared by the parties jointly and no ambiguity shall be resolved against either party on the premise that it or its attorneys was responsible for drafting this Agreement or any provision hereof.

28. ***Due Authority of Signatories.*** Each individual signing this Agreement warrants and represents that he or she has been authorized by appropriate action of the party which he or she represents to enter into this Agreement on behalf of the party.

29. ***Notices.*** All notices, demands, and communications between Hart and Newhall shall be given by personal delivery; registered or certified mail, postage prepaid, return receipt requested; Federal Express or other reliable private express delivery; or by facsimile transmission. Such notices, demands, or communications shall be deemed received upon delivery if personally served or sent by facsimile or after three business days if given by other approved means as specified above. Notices, demands, and communications shall be sent:

To Hart:	William S. Hart Union High School District Attn: Superintendent 21515 Redview Drive Santa Clarita, CA 91350 Fax No. (805) 254-8653
With a copy to:	Alexander Bowie, Esq. Bowie, Arneson, Wiles & Giannone 4920 Campus Drive Newport Beach, CA 92660 Fax No. (949) 851-2014
To Newhall:	The Newhall Land and Farming Company Attn: President 23823 Valencia Boulevard Valencia, CA 91355 Fax No. (805) 255-3960
With a copy to:	Kenneth B. Bley, Esq. Cox, Castle & Nicholson LLP 2049 Century Park East, 28th Floor Los Angeles, CA 90067 Fax No. (310) 277-7889

The foregoing names, addresses, and fax numbers may be changed at any time by a written notice given as provided above.

30. ***California Law Governs.*** This Agreement and all rights and obligations arising out of it shall be construed in accordance with the laws of the State of California.

31. ***Counterparts.*** This Agreement may be signed in one or more counter-parts which, taken together, shall constitute one original document.

32. ***Exhibits.*** All Exhibits attached hereto are incorporated into this Agreement.

33. ***Incorporation Into Subsequent Approvals.*** These obligations shall be deemed to be obligations that relate to the Newhall Land Development Entitlements and shall run with the land as obligations of its future development, including all provisions and requirements hereof relating to any SRDU. This Agreement shall be included in the technical appendices of the EIRs for the Westridge Project and Newhall Ranch Project, and be included in the mitigation measures and monitoring programs of the EIRs for both such projects.

34. ***Effective Date.*** This Agreement shall become effective on the date of the last signature by a party.

DATED: October 15, 1998

BOARD OF TRUSTEES OF THE WILLIAM S. HART UNION HIGH SCHOOL DISTRICT

By: _____

President of the Board of Trustees of the WILLIAM S. HART UNION HIGH SCHOOL DISTRICT

[Signatures continued on following page.]

[Signatures continued from previous page.]

Attest:

Clerk of the Board of Trustees of the WILLIAM S. HART UNION HIGH SCHOOL DISTRICT

DATED: October 15, 1998

THE NEWHALL LAND AND FARMING COMPANY (a California Limited Partnership)

By: NEWHALL MANAGEMENT LIMITED PARTNERSHIP Managing General Partner

By: NEWHALL MANAGEMENT CORPORATION
Managing General Partner

By: _____
Its: President
By: _____
Its: SR. V.P.

[Signatures continued on following page.]

[Signatures continued from previous page.]

APPROVED AS TO FORM:

DATED: October 12, 1998

BOWIE, ARNESON, WILES & GIANNONE

By: _____
ALEXANDER BOWIE, ESQ.
Attorneys for the WILLIAM S. HART UNION HIGH SCHOOL DISTRICT

APPROVED AS TO FORM:

DATED: October 13, 1998

COX, CASTLE & NICHOLSON LLP

By: _____
KENNETH B. BLEY
Attorneys for THE NEWHALL LAND AND FARMING COMPANY

copy of KBBLEY 22932 409981
AB/pks/50016 v17
8028 B65 - 10/09/98

DMS Inventory Information

Net Increase in
Student/Classroom/School Generation Using
District Provided Student Generation Rates
River Village EIR

District	Housing Units by Type			Student Generation Rate			Students
	Single Fam.	Multi-Fam.	Apartment	Single Fam.	Multi-Fam.	Apartment	
Castaic Union Elementary	5,026	2,806		0.506	0.134	0.196	2,919
Castaic Union Middle	5,578	3,884		0.143	0.045	0.055	972
Hart Senior High	24,039	14,688		0.2432	0.0559	0.0841	6,667
						Totals	**10,559**

Prepared By Impact Sciences, Inc.
D. Builder
July 11, 2004

Student Generation Calculations

Net Increase in
Student/Classroom/School Generation Using
District Provided Student Generation Rates
River Village EIR

	Housing Units by Type			Student Generation Rate			Students
District	Single Fam.	Multi-Fam.	Apartment	Single Fam.	Multi-Fam.	Apartment	
Castaic Union Elementary	308	685	451	0.506	0.134	0.196	336
Castaic Union Middle	308	685	451	0.143	0.045	0.055	100
Hart Senior High	308	685	451	0.2432	0.0559	0.0841	151
						Totals	**587**

Prepared By Impact Sciences, Inc.
D. Builder
July 11, 2004

APPENDIX 4.17

Library Services

Written Correspondence from Malou Rubio, Head of Staff Services
County of Los Angeles Public Library, Library Headquarters,
August 11, 2004

County of Los Angeles Public Library
7400 East Imperial Hwy., P.O. Box 7011, Downey, CA 90241-7011
(562) 940-8461, TELEFAX (562) 803-3032

Library

MARGARET DONNELLAN TODD
COUNTY LIBRARIAN

August 11, 2004

Julie Berger
Impact Sciences Inc
30343 Canwood Street, Suite 210
Agoura Hills, California 91301

REQUEST FOR INFORMATION
DRAFT ENVIRONMENTAL IMPACT REPORT (EIR)
RIVER VILLAGE PROJECT

Dear Ms. Berger:

This is in response to your specific questions to assist you in preparing the Library Services section of the draft EIR for the Newhall Ranch Project.

If you have any questions or require additional information regarding this matter, please contact Malaisha Hughes at (562) 940-8455.

Sincerely,

Malou Rubio
Head, Staff Services

MR:MH
U:\STAFFSERVICES\DEVELOPER FEE\EIR\Centennial - Impact Sciences Cover Let.doc

c: David Flint, Assistant Director, Finance & Planning, Public Library
Robert Seal, Public Library
Malaisha Hughes, Public Library

COUNTY OF LOS ANGELES PUBLIC LIBRARY

IMPACT SCIENCES
RIVER VILLAGE DRAFT ENVIRONMENTAL IMPACT REPORT
LIBRARY SERVICE QUESTIONNAIRE

1. **Would you please describe the service area within which River Village would be located? (Boundaries and/or communities/cities.) Also, what is the population (number of people) the Library considers to be within the service area?**

   The River Village project is currently within the Santa Clarita Valley Bookmobile (SCVB) Service Area. The Bookmobile serves the population of Castaic, Acton, Agua Dulce, Val Verde and the Friendly Valley Senior Community. Based on the 2000 Census, the total population for this area is 34,866. By the year 2020, population in the SCVB Service Area is expected to increase by 57,349.

2. **Would you please describe staffing (paid and volunteer, full time and part time), and holdings at the Valencia, Canyon Country Jo Anne Darcy, and Newhall libraries and the bookmobile. I have the locations and hours from the internet but know that information regarding staffing and holdings may not be as current as the information you have.**

Library	Full Time Staff		Part Time Staff		COLLECTION (Books and other Materials)
	Paid	Volunteer	Paid	Volunteer	
Valencia	14	0	40	0	284,928
Canyon Country Jo Ann Darcy	4	0	18	0	101,439
Newhall	4	0	8	5	81,243
Santa Clarita Valley Bookmobile	2	0	1	0	14,350

3. **What is the current number of books and square feet of library space per capita in the project service area? Does the Library consider the project area adequately served?**

   The current number of books per capita for the SCVB Service Area is .41 (14,350 ÷ 34,866). There is no library facility within the SCVB Service Area. Therefore, the square feet per capita cannot be calculated.

   The Library Service Area, where the project will be located, is underserved and will be significantly impacted by future population growth. Based on current service level guidelines of the County Library the appropriate collection size is 95,882 (34,866 x 2.75) and the appropriate facility size is 17,433 (34,866 x 0.5) square feet.

   Our service area population projection by the year 2020 will require an additional 46,108 square feet of library space and 239,241 books and other materials.

4. **What will the library fee, currently of $647.00 per unit of residential development, increase to on July 1?**

   Effective July 1, 2004, the fee for Planning Area 1 is $677.00 per dwelling unit.

5. **What will the special tax, currently $24.76 per parcel, increase to on July 1?**

   Effective July 1, 2004, the special tax is $25.22 per parcel.

6. **Please confirm the Library's planning standards for service: 0.50 gross square feet of facilities, 2.75 items and 1.0 computers per capita. Please confirm what is applicable to River Village. At the time the EIR was written, the standards were 0.35 gross square feet of facilities and 2.0 items per capita.**

   The current service level guidelines of the County Library involve, but are not limited to the following:

   - 0.5 Square Feet per Capita for Library Facilities
   - 2.0 Items per Capita for New Libraries (Opening Day Collection)
   - 2.75 Items per Capita for Community Libraries (Built-Out Collection)
   - 3.0 Items per Capita for Regional Libraries
   - 1.0 Computer for every 1,000 served
   - 4:1 Land To Building Ratio

7. **Mitigation is included in the Newhall Ranch Specific Plan EIR (SCH# 95011015) that requires the applicant to provide funding for a maximum of two public libraries including site dedication, construction, furniture, fixtures, equipment and materials. The total library building square footage will not exceed 0.35 net square feet per person. Other mitigation measures contained in the Newhall Ranch Specific Plan and EIR (provided below) are being evaluated further for application to the proposed project. I understand the applicant and the County Library are in discussions regarding this project. Based upon the mitigation in the EIR, a new library will not be required at this time. Please clarify mitigation applicable to the River Village portion of the Newhall Ranch Specific Plan.**

   Consistent with Section 4.19 of the Mitigation Monitoring Plan of the Newhall Ranch Specific Plan EIR, the following mitigation measures/conditions of approval applies to the River Village portion of the Newhall Ranch Specific Plan:

   "Prior to County's issuance of the first residential building permit of Newhall Ranch to the developer, the County Librarian and the developer will mutually agree upon the library construction requirements (location, size, funding and time of construction) based upon the projected development schedule and the population of Newhall Ranch based on the applicable number of average persons per household included in the library facilities mitigation fee in effect at the time. Such mutual agreement regarding the library construction requirements ("Library Construction Plan") and the criteria for timing the completion of the library(s) will be defined in a Memorandum of Understanding between the developer and the County Librarian. Such Memorandum of Understanding shall include an agreement by the developer to dedicate sufficient land and pay the agreed amount of fees on a schedule to allow completion of the library(s) as described below. The developer's funding for library facilities shall not exceed the developer's fee obligation at the time of construction under the developer fee schedule.

   If two libraries are to be constructed, the first library will be completed and operational by the time of County's issuance of the 8,000th residential building permit of Newhall Ranch, and the second library will be completed and operational by the time of County's issuance of the 15,000th residential building permit of Newhall Ranch. If the County Librarian decides that only one library will be constructed, the library will be completed and operational by the time of County's issuance of the 10,000th residential building permit of Newhall Ranch.

   No payment of any sort with respect to library facilities will be required under Section 2.5.3.d of the Specific Plan in order for the developer to obtain building permits for nonresidential buildings."

River Village
Library Impact Analysis

River Village - Library Standards

Land Use	Number of Units	Persons/ Household	Number of Persons	Library (0.5 gsf)	Library Items 2.0 at Opening	Library Items 2.75 at Buildout	Computers
Single Family Units – Detached	308	3.17	976.36	488	1,953	2,685	1
Single Family Units – Attached	629	2.38	1,497.02	749	2,994	4,117	1
Apartments	451	2.38	1,073.38	537	2,147	2,952	1
Mixed Use Units	56	2.38	133.28	67	267	367	0
	1,444	**Totals**	**3,680**	**1,840**	**7,360**	**10,120**	**4**

L.A. County Public Library Adopted Standard: 0.50 g.s.f./capita
L.A. County Public Library Adopted Standard: 2.0 books/capita at library opening
L.A. County Public Library Proposed Guideline: 2.75 books/capita at Project buildout
L.A. County Public Library Proposed Guideline: 1.0 computer/1,000 capita

Household estimates are based upon County of Los Angeles provided estimates of 3.17 persons per single family dwelling, and 2.38 persons per multi-family dwelling and per apartment.

River Village - Santa Clarita Valley Cumulative Buildout without Project

Land Use	Number of Units	Persons/ Household	Number of Persons	Library (0.5 gsf)	Library Items 2.0 at Opening	Library Items 2.75 at Buildout	Computers
Single Family Units	93,281	3.17	295,700.77	147,850	591,402	813,177	296
Multi Family Units	48,013	2.38	114,270.94	57,135	228,542	314,245	114
Mobile Home	2,699	2.38	6,423.62	3,212	12,847	17,665	6
	143,993	Totals	416,395	208,198	832,791	1,145,087	416

L.A. County Public Library Adopted Standard: 0.50 g.s.f./capita
L.A. County Public Library Adopted Standard: 2.0 books/capita at library opening
L.A. County Public Library Proposed Guideline: 2.75 books/capita at Project buildout
L.A. County Public Library Proposed Guideline: 1.0 computer/1,000 capita

Household estimates are based upon County of Los Angeles provided estimates of 3.17 persons per single family dwelling, and 2.38 persons per multi-family dwelling, per apartment, and per mobile home.

River Village - Santa Clarita Valley Cumulative Buildout with Project

Land Use	Number of Units	Persons/ Household	Number of Persons	Library (0.5 gsf)	Library Items 2.0 at Opening	Library Items 2.75 at Buildout	Computers
Single Family Units	93,589	3.17	296,677.13	148,339	593,354	815,862	297
Multi Family Units	49,149	2.38	116,974.62	58,487	233,949	321,680	117
Mobile Home	2,699	2.38	6,423.62	3,212	12,847	17,665	6
	145,437	Totals	420,075	210,038	840,151	1,155,207	420

L.A. County Public Library Adopted Standard: 0.50 g.s.f./capita
L.A. County Public Library Adopted Standard: 2.0 books/capita at library opening
L.A. County Public Library Proposed Guideline: 2.75 books/capita at Project buildout
L.A. County Public Library Proposed Guideline: 1.0 computer/1,000 capita

Household estimates are based upon County of Los Angeles provided estimates of 3.17 persons per single family dwelling, and 2.38 persons per multi-family dwelling, per apartment, and per mobile home.

APPENDIX 4.21

Environmental Safety

BA ENVIRONMENTAL
A Division of Building Analytics
www.BAEnvironmental.com

CORPORATE OFFICE
528 STATE STREET
GLENDALE, CALIFORNIA 91203
TOLL FREE 1-888-440-7225
818-500-1698
818-246-8195 FAX

September 27, 2004

File No.: 104012

Mr. Mark Dillon
Counsel for Newhall Land
1921 Palomar Oaks Way, Suite 200
Carlsbad, California 92008

Reference: River Village
Tentative Tract Map No. 53108, Highway 126
Newhall Ranch, California

Subject: Report
Phase I Environmental Site Assessment

Dear Mr. Dillon:

BA Environmental is pleased to submit this Phase I Environmental Site Assessment (ESA) report regarding the above-referenced property to Newhall Land. The objective of this Phase I ESA was to assess the potential for contamination at the subject property caused by hazardous materials. To accomplish this, a reconnaissance of the subject property and vicinity was performed, available relevant regulatory records were reviewed, and the property history was researched.

The subject property consists of an approximate 280-acre parcel of land that has been graded and utilized for agricultural production; numerous dirt roads traverse the subject site. Approximately four small buildings exist on the site and are used in activities related to the on-site agricultural production. The subject site is also occupied by several irrigation wells. This project also includes the two borrow sites where fill material will be derived to be placed on the subject property. Borrow Site "A" is approximately 400 acres and Borrow Site "B" is approximately 300 acres. The two borrow sites are primarily in their native states with some dirt roads traversing them. A portion of Borrow Site "A" appears to have been used in the past for agricultural purposes. Mr. John Frye, General Manager, Agriculture and Natural Resources for Newhall Land and Farming, stated that this area was briefly used to grow hay, and that no pesticides were used in this area. There was also some evidence of past oil exploration in this area. An electrical transmission tower is located in Borrow Site "B," as well as evidence of past oil wells. Primary vehicular access to the subject site is from private driveways to the north. Primary vehicular access to Borrow Site "A" is from a dirt road to the south of the subject site or from a dirt road from Potrero Canyon to the south. Primary vehicular access to Borrow Site "B" is from a dirt road to the east of Chiquito Canyon Road.

The review of historical documents indicates that portions of the subject site have been vacant undeveloped land or used as agricultural land from prior to 1903 until the present.

From prior to 1903 until prior to 1991, Southern Pacific Railroad tracks ran along the northern boundary of the subject property. Since at least 1969, the eastern portion of the subject property has been located within the Castaic Junction Oil Field. Several small structures have been located throughout the subject property from prior to 1947 through the present. The configurations and locations of these structures have changed several times since 1947. Since 1947, at least two oil wells, possibly three, have been located near the eastern property boundary. No oil wells currently exist on-site. Sometime prior to 1952, three oil ASTs (located within a containment berm) were also located near the eastern property boundary. By 1968, these ASTs had been removed. A circular AST was located approximately 555 feet south of Highway 126 and approximately 1,000 feet east of the intersection of Walcott Way and Highway 126, from prior to 1952 until prior to 1968. The purpose of this AST is unknown. An oil well has been located in the central portion of the subject property, approximately 555 feet south of the intersection of Walcott Way and Highway 126 from prior to 1952 until prior to 1994. This area has also been occupied by an equipment storage area between 1952 and 1972, and between approximately 1994 to the present. An airstrip occupied the central portion of the subject property since prior to 1968 until prior to 1994, when it was removed. The Indian Dunes Motorcycle Park also occupied the central portion of the subject property from prior to 1972 until prior to 1994, when it was abandoned and subsequently removed. By 1994, the subject property was used for agricultural purposes.

BA Environmental performed a site reconnaissance of the subject property. The site reconnaissance addressed three areas: Subject Property (Tentative Tract Map No. 53108), Borrow Site "A" and Borrow Site "B."

Subject Property (Tentative Tract Map No. 53108)

At the time of the site visit, the subject property was used primarily for agricultural production. Crops included what was believed to be green beans, beets, carrots and other vegetables. Some land appeared to be out of production or fallow. The far western end was occupied by undeveloped land covered by native vegetation. Concrete and asphalt debris was observed scattered throughout the fields. A large pile of asphalt and concrete debris was observed along the northern property boundary. Included in this debris were concrete pipes, an old pickup truck body, old telephone poles and other miscellaneous debris. Approximately 200 feet south-southwest of this pile was a pile of wood debris. Old trash piles and construction debris piles were observed in the western portion of the subject property and along the old railroad easement. The trash observed in these piles appeared to household trash. Old piping was observed scattered in the western portion of the subject property. Some of this piping appeared to be sections of old oil pipelines and some appeared to be transite concrete pipe.

An equipment storage area was observed approximately 50 feet south of the intersection of Walcott Way and Highway 126. This storage area was observed to contain various farm equipment. Two ASTs mounted on trailers were observed in this area. These trailers appeared to be empty. Several empty and partially full 55-gallon steel drums were observed on-site. These drums appeared to contain oil or petroleum products. Staining was observed on the soil throughout this area. One sheet metal building is located in the fenced storage area, and consists of approximately 400 square feet. This building is used to store equipment and grain. This building was formerly an aircraft

hangar, which was associated with an airstrip that was formerly located on the subject site. It is likely that this area was formerly used to fuel and maintain the aircraft and may have been an area used to mix pesticides.

The eastern storage area consists of three buildings and a plastic-sheeting hothouse. The buildings are used for storage and packaging. Farm equipment was observed to be stored in this area. Several small ASTs were observed in this area, as well as agricultural chemical mixing. Several 55-gallon drums and smaller five-gallon buckets were observed. None of these containers were labeled. Some staining was observed on the dirt in this storage area.

Several ASTs containing liquid fertilizers and various other agricultural chemicals were observed in the eastern portion of the subject property. Minor staining was observed on the dirt beneath these ASTs.

One portable diesel-powered pump was observed near the eastern property boundary. Associated with this pump was a small 100-gallon AST on a trailer and an approximate 500-gallon AST sitting on a wooden pallet. The 500-gallon AST was labeled as containing diesel fuel, likely for the pump. Staining was observed on the outside of the AST, as well as on the soil beneath the AST.

An old railroad easement was observed along the northern property boundary, paralleling Highway 126. The railroad tracks have been removed; however, some ballast materials still remain. Debris and trash piles were observed along this easement.

During the site visit, evidence of underground storage tanks (USTs) or wastewater clarifiers was observed on the subject site. The only hazardous materials observed on-site were agricultural chemicals (i.e., pesticides and fertilizers) and petroleum products (i.e., diesel fuel, oil and lubricants).

Four small diameter groundwater monitoring wells (piezometers) were observed on-site. According to Newhall Land personnel, these wells are utilized by Seward Engineering for groundwater elevation data used for engineering purposes.

Several pipelines were observed crossing the subject site. The pipelines were identified visually by either marker signs, or visible piping or pipeline vents. A Southern California Gas pipeline was observed running along the northern property boundary in the railroad easement, and crossing the western end of the subject property. These pipelines are believed to be 18" to 20" in diameter and likely carry natural gas. Where visible, these pipelines appeared to be coated with a tar-like material to prevent corrosion.

A Shell Oil Company petroleum pipeline was also observed to run along the northern property boundary, parallel to the old railroad easement. The size of this pipeline is unknown; however, it is likely to contain crude oil. Approximately 250 feet southeast of the intersection of Chiquito Canyon Road and Highway 126 is a fenced enclosure. This enclosure is adjacent to the Shell Oil Company pipeline and a Shell Oil pipeline vault. A sign on the gate of the enclosure indicates that the enclosure is owned by Eouilon Pipeline Company, and is the Del Valle Booster Station. This is likely a booster station for an oil pipeline. Inside of the enclosure was a pump, a 100-gallon AST likely

containing diesel fuel and two electrical transformers. The pump and AST were observed to be in a concrete containment.

An unidentified pipeline was observed running along the southern edge of the old railroad easement. Where exposed, the pipeline appeared to be approximately 18" to 20" in diameter and was coated with a tar-like substance to prevent corrosion. Two vents, similar to those used in oil pipelines, were observed associated with this pipeline.

Damaged piping was observed on the surface in the old railroad easement. It appeared that this pipeline had been removed. It is uncertain if this pipeline was replaced or completely removed. The pipeline appeared to be 16" to 18" in diameter. Oil staining was observed in the areas where this pipeline was exposed.

A Unocal pipeline was observed to run across the western end of the subject property. The size of this pipeline is unknown; however, the pipeline likely carried oil. Reportedly, this pipeline is currently idle, and not being used.

Borrow Site "A"

This parcel was observed to be primarily undeveloped at the time of the site reconnaissance. The site is covered with native vegetation, which consists of brush, oak trees and native plants. The floor of a small valley/canyon, which runs east to west across the borrow site, appears to have been used in the past for agricultural purposes. Mr. John Frye, General Manager, Agriculture and Natural Resources for Newhall Land and Farming, stated that this area was briefly used to grow hay, and that no pesticides were used in this area. Concrete and wood debris were observed scattered in the agricultural field on the floor of the small valley/canyon. This concrete and wood debris may be the indications of either a former structure or oil exploration activities. An abandoned road was observed running along the northern boundary of this borrow site. A flat, roughly graded dirt pad was observed along this road. This is the location of what is believed to have been an exploratory oil well. At the eastern end of this small valley/canyon is a graded dirt pad with what appears to be a filled-in concrete vault. This is likely the location of a former oil well. No oil staining was observed on this graded pad.

During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site.

Borrow Site "B"

This parcel was observed to be primarily undeveloped at the time of the site reconnaissance. The site is covered with native vegetation, which consists of brush and native plants. A dirt road crosses the subject property and leads to a Southern California Edison (SCE) transmission tower. Along this dirt road, a concrete pad was observed. This pad had a configuration similar to that used for an oil derrick and a cable tool-drilling rig. It is believed that this was the location of a former oil exploration well. No staining was noted around the concrete pad. Approximately 500 feet up a small access road was a second flat dirt pad. Soil in this area was observed to be stained by what is

believed to be crude oil. This may have been the location of a second exploratory oil well.

During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site.

Four small diameter groundwater-monitoring wells (piezometers) were observed on Tentative Tract Map 53108. Reportedly, these wells are utilized for groundwater elevation data used for engineering purposes.

Three water wells were observed in the western portion of the subject property. One was observed in the central portion near the intersection of Walcott Way and Highway 126. Approximately six water wells were observed along the eastern property boundary. All of these water wells are used to supply irrigation water to the agricultural crops on the subject site.

Three oil wells have been documented on the subject property. In addition, evidence of three possibly four oil wells has been noted in Borrow Site "A." Evidence of two oil wells has also been noted in Borrow Site "B."

BA Environmental completed limited soil sampling at the above-referenced site to assess whether past use of pesticides or herbicides has impacted the shallow soils beneath the previously cultivated areas on Tentative Tract No. 53108.

Sixty-nine shallow hand auger borings were advanced to depths of between one and two feet below ground surface (bgs).

Field observations of soil samples collected from all of the borings revealed no unusual odors or discoloration. Groundwater was not encountered in any of the shallow borings.

Samples collected were composited at the laboratory in groups of four, except one sample which was composited from five samples. The composited samples were analyzed for Organochlorine Pesticides (OCP), Organophosphorous Pesticides (OPP) and Chlorinated Herbicides (CH) using Environmental Protection Agency (EPA) Method Nos. 8081 (OCP) , 8141 (OPP) and 8151 (CH).

All of the soil samples analyzed were reported not to contain detectable concentrations of OPP or CH.

Several OCPs were detected in the soil samples analyzed. Soil samples G11, G13, G14, G15 and G17 were reported to contain concentrations of alpha-chlordane ranging from 0.001 to 0.018 milligrams per kilogram (mg/kg). Samples G3, G11, and G13, G14, G15 and G17 were reported to contain concentrations of gamma-chlordane ranging from 0.001 to 0.027 mg/kg. 4,4-DDD was detected in samples G13 through G15 at a concentration of 0.001 mg/kg. Samples G11 and G13 thorough G17 were reported to contain 4,4-DDE in concentrations ranging from 0.002 to 0.034 mg/kg. 4,4-DDT was detected in samples G7 and G11 through G17 in concentrations ranging from 0.002 to 0.023 mg/kg. Dieldrin was detected in samples G6 and G14 at 0.002 and 0.003 mg/kg, respectively. Endosulfan I was detected in sample G14 at a concentration of 0.001

mg/kg. Samples G11 and G17 contained concentrations of Endosulfan II at 0.018 and 0.034 mg/kg, respectively. Endosulfan Sulfate was detected in sample G14 at a concentration of 0.005 mg/kg. Samples G9 through G17 were reported to contain Endrin at concentrations ranging from 0.001 to 0.136 mg/kg. Sample G13 was reported to contain Heptachlor Epoxide at a concentration of 0.001 mg/kg.

The concentrations of OCPs detected on the subject site were compared with the Preliminary Remediation Goals (PRGs) set up by the United States Environmental Protection Agency (EPA) for various compounds and metals. This comparison revealed that none of the OCPs detected at the subject site exceeded the residential or industrial use PRGs for those compounds.

BA Environmental performed a review of available government database records. The subject property is not listed on any of the searched databases. The closest off-site facility is located to the north across Henry Mayo Drive (Highway 126). This facility is located in an assumed cross-gradient location relative to the regional groundwater flow direction. No impact from these facilities is likely. Based on the status and distances of the remaining facilities, there is a low potential for environmental impact due to off-site sources.

BA Environmental has performed a Phase I ESA, in conformance with the scope and limitations of ASTM Practice E 1527-00, of the vacant parcel of land, which is located south of the intersection of Henry Mayo Drive (Highway 126), north of the Santa Clara River, east of the intersection of Henry Mayo Drive (Highway 126) and Chiquito Canyon Road, and west of Castaic Creek, which is referred to as River Village, Tentative Tract Map No. 53108, Highway 126, and the two borrow sites, in Newhall Ranch, California. Any exceptions to, or deletions from, this practice are described in the Introduction section of this report.

This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property, except the following:

- Up to three oil wells and associated production area may exist on the subject property, and several on Borrow Sites "A" and "B";
- Several ASTs, likely associated with oil production, existed on-site in the 1950s;
- Several pipelines cross the subject property, and one pipeline crosses Borrow Site "B";
- Scattered suspect ACM debris was observed in the central and western portions of the subject property;
- Staining was observed beneath what appeared to be an abandoned pipeline along the old railroad easement, and near what was believed to be a former oil well on Borrow Site "B." In addition, staining was observed beneath a diesel AST associated with a portable water pump located in the eastern portion of the subject property; and
- Two equipment storage areas were observed on the subject site, one located in the eastern portion of the subject property and one in the central portion. The storage area in the central portion was associated with a former airstrip. Agricultural

chemical storage and mixing was observed or may have taken place at these areas in the past. Soil staining was observed in both areas.

BA Environmental recommends the following:

- If disturbed, or if located within an area of redevelopment, all former oil wells located on the subject property or on either borrow site should be reabandoned according to all applicable local and state regulations;
- If the pipelines on the subject site and Borrow Site "B" are not to be used in the future, they should be abandoned and soils beneath them assessed for petroleum hydrocarbon leakage. If the pipelines are planned to remain in use, the pipelines should be assessed for possible hydrocarbon leakage;
- Properly dispose of scattered suspect ACMs; and
- The areas of former ASTs, current agricultural storage areas and current soil staining observed on the subject site or Borrow Site "B" should be assessed for potential impact to the subject site.

Although not a recognized environmental condition, it is recommended that all groundwater monitoring wells or production water wells be abandoned according to applicable local and state regulations, prior to redevelopment.

If you have questions regarding this project or report, please contact us at (818) 500-1898.

Respectfully submitted,
BA ENVIRONMENTAL

Russell M. Cote, M. Sc., R.G. No. 7139
Manager, Environmental Services

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PHASE I ENVIRONMENTAL SITE ASSESSMENT
River Village
Tentative Tract Map No. 53108, Highway 126
Newhall Ranch, California

INTRODUCTION

BA Environmental is pleased to submit this Phase I Environmental Site Assessment (ESA) report to Newhall Land. This report is regarding the parcel of land located south of the intersection of Henry Mayo Drive (Highway 126), north of the Santa Clara River, east of the intersection of Henry Mayo Drive (Highway 126) and Chiquito Canyon Road, and west of Castaic Creek, which is referred to as River Village, Tentative Tract Map No. 53108, Highway 126, in Newhall Ranch, California.

This report was prepared in accordance with the Proposal and Contract between BA Environmental and Newhall Land, dated January 15, 2004 and Purchase Authorization PA-PL20237.

The purpose of the ESA is to identify, to the extent feasible, recognized environmental conditions, which can be defined as, "The presence or likely presence of any hazardous substance or petroleum products under conditions that indicate an existing release, a past release or a material threat of any hazardous substances or petroleum products."

This Phase I ESA meets the general requirements of the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: E 1527-00. The ASTM standard practice defines good commercial and customary practice for conducting ESAs using reasonable inquiry. The scope of services for this Phase I ESA consisted of several tasks, including:

- A reconnaissance of the site and its vicinity;
- Interviews with current owners and occupants of the subject property, and personnel at local government agencies;
- A compilation of the property history, including the review of previous environmental reports regarding the subject property (if available);
- An agency list search of facilities with recorded environmental issues located within the radii required by ASTM; and
- A summary of our findings, conclusions and recommendations.

Additional services that were provided include:

- A visual survey of asbestos containing materials (ACMs)
- A visual survey and review of map of designated wetlands;
- A review of a survey and map of radon zones; and
- Collection of soil samples for pesticide and herbicide screening.

As per ASTM Practice E 1527-00, there are no deviations from, or deletions of, the general requirements of this standard practice contained in this report.

A Phase I ESA is a non-intrusive examination. As such, it is not a full and complete assessment of all environmental conditions. Adverse conditions may exist that could not be discovered by such an assessment. BA Environmental has made every reasonable effort to discover and interpret the information and current conditions regarding the site within the time available. We will recommend prudent additional investigations, if deemed necessary.

This report must not be regarded as a guarantee that no further contamination exists beyond that which may have been detected within the building or beneath the property. If additional relevant information about the property is brought to our attention, the conclusions and recommendations contained in the report may not be valid.

This assessment relied upon information obtained from the site reconnaissance and from relevant regulatory agencies. BA Environmental believes that the information contained herein is reliable. However, BA Environmental cannot guarantee the accuracy of information provided by others.

SITE LOCATION

The subject property is a parcel of land located south of Henry Mayo Drive (Highway 126), north of the Santa Clara River, east of the intersection of Henry Mayo Drive (Highway 126) and Chiquito Canyon Road, and west of Castaic Creek, which is referred to as River Village, Tentative Tract Map No. 53108, Highway 126, in Newhall Ranch, California. This project also includes the two borrow sites where fill material will be derived to be placed on the subject property. Borrow Site "A" is located south of the Santa Clara River and west of Interstate 5 and consists of approximately 400 acres. Borrow Site "B" is located northeast of the intersection of Chiquito Canyon Road and Henry Mayo Drive and consists of approximately 300 acres. The subject property may be reached from the Interstate Freeway 5 (Golden State Freeway), exit Highway 126. Proceed west approximately 4.2 miles to the western end of the subject property. Primary vehicular access to the subject site is from private driveways to the north.

The subject property consists of an approximate 280-acre parcel of land that has been graded and utilized for agricultural production, and numerous dirt roads traverse the subject site. Approximately four small buildings exist on the site and are used in activities related to the on-site agricultural production. The subject site is also occupied by several irrigation wells. The borrow sites are primarily in their native states with some dirt roads traversing them. A portion of Borrow Site "A" has been used in the past for agricultural purposes as well as having some evidence of past oil exploration. An electrical transmission tower is located in Borrow Site "B," as well as evidence of past oil wells.

Adjacent land use to the subject site includes agricultural land and undeveloped land to the west, Castaic Creek to the east, the Santa Clara River to the south, and Highway 126 followed by Chiquita Canyon Landfill to the north (Figures 1 and 2).

Topographic Map Review

The property is depicted on the Val Verde, California Topographic Quadrangle map of the United States Geological Survey (USGS).[1] Tentative Tract Map No. 53108 encompasses portions of Sections 14, 22 and 23 Township 4 North, Range 17 West of the San Bernardino Base and Meridian. Borrow Site "A" encompasses portions of Sections 22 and 23, Township 4 North, Range 17 West of the San Bernardino Base and Meridian. Borrow Site "B" encompasses portions of Sections 15 and 22 Township 4 North, Range 17 West of the San Bernardino Base and Meridian. The subject site is located in a valley formed by the Santa Clara River. Borrow Area "A" is located on the eastern flank of Adobe Canyon. A smaller canyon cuts across Borrow Site "A." Borrow Area "B" is located on the northeastern edge of the intersection of Chiquito Canyon and the valley formed by the Santa Clara River.

Tentative Tract Map No. 53108 is located south of Henry Mayo Drive (Highway 126), north of the Santa Clara River, east of the intersection of Henry Mayo Drive (Highway 126) and Chiquito Canyon Road, and west of Castaic Creek. The subject property is depicted as being vacant undeveloped land. Several small structures are depicted on the subject site. A landing strip is depicted on the subject property, approximately 200 feet south of Highway 126. This landing strip extends across the eastern half of the subject property. Southern Pacific Railroad tracks are also depicted, approximately 20 to 50 feet south of Highway 126.

Borrow Site "A" is located south of the Santa Clara River and west of Interstate 5 and is depicted as undeveloped land with several dirt trails traversing it. Borrow Site "B" is located northeast of the intersection of Chiquito Canyon Road and Highway 126 and is depicted as undeveloped land with several dirt trails traversing it.

A portion of Tentative Tract Map No. 53108 is part of the Castaic Union Oil Field. Borrow Site "A" is part of the Newhall-Portero Oil Field. Borrow Site "B" is located on the eastern end of the Del Valle Oil and Gas Field. Oil wells are depicted in the eastern and central portions of the subject site. Water wells are depicted in the eastern and western portions of the subject property.

The subject site is located in a valley formed by the Santa Clara River. Borrow Sites "A" and "B" are located in the hills along the flanks of this valley. The topography of the site and the surrounding area slopes toward the Santa Clara River or moderately on the flanks of the valley. The site generally slopes to the west-southwest at a gradient of approximately 50 feet per mile. The elevation at the site is approximately 420 feet above mean sea level (msl). The elevation ranges from 900 feet above msl at the west end of Tentative Tract Map No. 53108 to 1,200 feet above msl in Borrow Site "A."

The Santa Clara River is located adjacent to the south of River Village Tentative Tract Map No. 53108, and Castaic Creek is adjacent to the east. Several intermittent streams which drain into the Santa Clara River are located within a one-mile radius of the subject site and the two borrow sites. No other major bodies of surface water (i.e., oceans, lakes, rivers, streams, etc.) are located within a one-mile radius of the site.

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1 USGS Map, Newhall, California Quadrangle, 1952, photo-revised 1988.

A review of the topographic map and oil and gas maps indicates that several oil or gas wells are located on the subject site, or in the site vicinity.[2] These wells were listed as "abandoned uncompleted."

GEOLOGY AND HYDROGEOLOGY

The subject site is located on the alluvial plain of the Santa Clara River and tributaries. Underlying sediments consist of alluvial and flood plain deposits of silt, sands and gravels. Sand is medium to coarse grained, and cobbles are found to increase in size with depth. The Plio-Pleistocene Saugus Formation, a thin to moderately thick bedded non-marine deposit, ranging from reddish-brown siltstones, silty sandstones to conglomerates, underlies the Quaternary alluvial sediments and outcrops in the northern and eastern portion of the subject property. The Newhall Segment of the San Gabriel Fault, which is classified as a late Quaternary fault which cuts strata of Pleistocene age, is located within 500 feet of the subject site.[3]

According to the County of Los Angeles, Department of Public Works, Hydraulic Conservation Division, which maintains information on groundwater depth from the county-owned wells, the closest well to the subject property, listed with their department, is located approximately 1,500 feet west of the confluence of the Santa Clara River and Castaic Creek. This well is identified as #6967, and was last measured on June 19, 2003. The data indicates that from the ground surface depth to groundwater surface was 24.3 feet, and that the ground surface elevation at the well head is 949.7 feet above msl. Groundwater flow direction is expected to flow to the south/southwest following topography.[4] A groundwater monitoring well located approximately 200 feet north of the subject property, associated with the Chiquito Canyon Landfill, was reported to have groundwater at approximately 32 to 36 below ground surface (bgs).

HISTORICAL REVIEW

As part of the Historical Review, BA Environmental reviewed historical aerial photographs, historical fire insurance maps, oil and gas well maps, city records, and building department records.

Historical Aerial Photographs

Historical aerial photographs of the site were reviewed for the years 1928 (earliest photograph available), 1947, 1952, 1968, 1972, 1976, 1980, 1988, 1989, 1990, 1993, 1994, 1995 and 1999.[5] Copies are included in Appendix B.

1928
The portion of the subject site (Tentative Tract Map No. 53108) appeared to be an undeveloped river channel with native vegetation, while the eastern portion appeared to

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2 Munger Map Book of California/Alaska Oil and Gas Fields, 37th Edition, June 1993.

3 1994 Fault Activity Map of California and Adjacent Areas (1:750,000 scale), California Department of Conservation, Division of Mines and Geology.

4 County of Los Angeles Department of Public Works, Hydrologic Records, records request October 14, 2003.

5 The EDR Aerial Photograph Print Service, Inquiry No. 1108642-9, January 15, 2004 and Continental Aerial Photography, Cypress, California 1952, 1972, 1980, 1988, 1990, 1993, 1995 and 1999.

be occupied by agricultural land. Railroad tracks ran along the northern property boundary, parallel to Highway 126. Borrow Sites "A" and "B" appeared to be undeveloped land covered by native vegetation. A small valley or canyon cuts across Borrow Site "A," from east to west. Adjacent properties to the subject property include Castaic Creek to the east, the Santa Clara River Channel to the west and south, and Highway 126 to the north. Adjacent properties to Borrow Site "B" include undeveloped land covered by native vegetation to the north, east and west, and Highway 126 to the south. Adjacent properties to Borrow Site "A" include undeveloped land covered by native vegetation to the north, south, east and west.

1947

There were no significant changes in the subject property, except near the eastern property boundary. Near the eastern property boundary, four small structures and what appeared to be an oil well were observed. Borrow Site "B" was still observed to be undeveloped land; however, a dirt road was observed to traverse it. What appeared to be a concrete pad for an oil well was observed next to this road. At the end of the road was what appeared to be the location of a possible second oil well. There were no significant changes in Borrow Site "A." There were no significant changes in the properties adjacent to the subject site. There were no significant changes to the properties adjacent to Borrow Site "B," except that there appeared to be an oil field to the west. There were no significant changes to the properties adjacent to Borrow Site "A," except to the west, which was occupied by agricultural land, and to the south, which appeared to be an oil field.

1952

The subject site remained either an undeveloped river channel or agricultural land. A dirt road was observed to traverse north to south across the central portion of the subject property, in the area of the present intersection of Wolcott Way and Highway 126. In this same area, south of Highway 126, were what appeared to be a storage area and several structures. Near the eastern property boundary were what appeared to be one structure, two wells (possibly water wells), one oil well (located within a bermed containment), and three aboveground storage tanks (AST), likely wash tanks in a bermed containment. Located between the eastern property boundary and the present intersection of Wolcott Way and Highway 126 (approximately 555 feet south of Highway 126 and approximately 1,000 feet east of the intersection of Walcott Way and Highway 126) was a circular structure interpreted to be an AST. Railroad tracks were still present south of Highway 126. There appeared to be no significant changes in properties adjacent to the subject property, or the two borrow sites.

1968

There were no significant changes to the subject property, except that an airstrip was present in the central portion of the subject property. The storage area was still present in the central portion of the subject property. Two structures were observed near the eastern property boundary. These structures are believed to be related to the agricultural activities. The three ASTs and oil well observed in this area in 1952 were not present. There were no significant changes in the two borrow sites, except that a dirt road was observed to traverse west to east across Borrow Site "B." There were no significant changes in the properties adjacent to the subject site or the two borrow sites.

1972

There were no changes in the eastern or western portions of the subject property, except that the airstrip had been extended to the east. The central portion of the property was still occupied by the airstrip; however, a significant part of the central portion of the

subject property was occupied by a motorcycle park (Indian Dunes Motorcycle Park). In addition, the railroad tracks along the northern property boundary appeared to have been removed. There were no significant changes in the two borrow sites. There were no significant changes in the properties adjacent to the subject property or the two borrow sites, except that Chiquito Canyon Land Fill was located north of Highway 126.

1976, 1980, 1988, 1989 and 1990
There were no significant changes in the subject property. In 1976, there were two small structures near the airstrip. Two small structures and what was believed to be an oil well were located neat the eastern property boundary. What is believed to be four water wells were also located along the eastern property boundary. In 1980, there were four small structures near the eastern property boundary. There were no significant changes in Borrow Site "A," except that in 1989 a dirt road ending in a rectangular disturbed area (possibly an exploratory oil well) was observed in the small valley/canyon located in this borrow site. There were also no significant changes in Borrow Site "B," except that in 1976 there appeared to be an electrical transmission tower on the borrow site and a transmission line traversed from west to east across the site. There were no significant changes in the adjacent properties.

1993, 1994, 1995 and 1999
The eastern and western portions of the property show no significant changes. In 1994, the airstrip in the central portion of the subject property appears to have been removed, and the motorcycle park (Indian Dunes Motorcycle Park) appeared to have been abandoned. One small structure remains in the central portion of the property near the location of the former airstrip, and two structures are located near the eastern property boundary. By 1996, there were three small structures near the eastern property boundary, along with equipment storage. In 1993, the small valley/canyon in Borrow Site "A" was observed to have several dirt roads crossing it, as well as an area of disturbed vegetation (possible oil exploration activities). In 1994, the floor of this small valley/canyon appeared to be graded and used for agricultural purposes. There were no significant changes in Borrow Site "B." There were no significant changes in the adjacent properties.

Historical Fire Insurance Maps

Historical fire insurance maps have been primarily used by insurance underwriters to determine the risk involved in insuring individual buildings in urban areas against loss due to fire. When available, these maps can provide information regarding the historical use of a particular site and its adjacent properties. Historical fire insurance maps were not available for the subject property.[6]

Munger Map Review

A review of relevant Munger oil and gas field maps indicates that the subject site is located within Castaic Junction Oil Field on Tentative Tract Map No. 53108. Several oil wells were reported to have been drilled on the subject property or within 0.25 miles of the subject property. The approximate locations are plotted on Figure 2 and 3. No indication of oil wells was observed during the reconnaissance of the subject property or

6 EDR Sanborn® Map Report, Inquiry No. 1108642.5s, January 8, 2004.

adjacent properties.[7] Indications of two oil wells on Borrow Site "B," and possibly one on Borrow Site "A" were observed on the day of the site reconnaissance.

Historical Topographic Maps

BA Environmental reviewed the Santa Susana and Val Verde, California Topographic Quadrangle maps for the years 1903, 1916, 1941, 1943, 1947, 1952, 1969, 1988, 1991 and 1995.[8] Copies are included in Appendix C.

1903 and 1916
The subject site (Tentative Tract Map No. 53108) and Borrow Site "B" and Borrow Site "A" and surrounding areas were depicted as vacant, undeveloped land in the Santa Clara River Valley. The Southern Pacific Railroad was depicted along the northern boundary of the subject property (Tentative Tract Map No. 53108). A highway was depicted in the general vicinity of Highway 126. The Santa Clara River was depicted to the south of the subject site and Castaic Creek was depicted to the east of the subject property. The small community of Castaic was depicted to the east.

1941, 1943 and 1947
Significant changes were not observed on the subject property or adjacent properties to the north, south, east or west. In 1941, dirt trails were observed to cross the subject site. Some wooded areas are also depicted on the map. There appears to have been two oil wells located on Borrow Site "A," and two more located just north of the northern boundary of area "A." The Del Valle Oil Field was located west of Borrow Site "B," and the Newhall-Potrero Oil Field was located to the west and south of Borrow Site "A." Newhall Ranch was located near the intersection of Highway 126 and Highway 99 (Interstate Highway 5). The small community of Val Verde was visible to the north of the subject property. Chiquito Canyon Road was visible for the first time on the 1941 map. A dirt road extended from Chiquito Canyon south in the vicinity of Borrow Site "A."

1952
The subject site was still depicted as vacant land with some wooded areas. Two water wells and two small structures were depicted near the western boundary of the subject property. One oil well was depicted in the central portion of the subject property, near the current farm equipment storage area observed on the day of the site visit. Four water wells, one oil well and three oil tanks were depicted near the eastern boundary of the subject property. Significant changes were not observed on Borrow Site "A" or Borrow Site "B." Significant changes were not observed in the adjacent properties. Highway 126 was labeled "Saugus Ventura Road."

1969
Significant changes were not observed on the subject property, except that a landing strip extended across the subject property and terminated approximately 3,000 feet to the northeast. The eastern portion of the subject site is labeled as being in the Castaic Junction Oil Field. The oil tanks depicted on the 1952 topographic map were not depicted on this map. The wells and structures observed on the 1952 map were still present. Four rectangular shaped buildings were depicted near the southern boundary of the subject property on what is believed to be an adjacent property. Additional dirt trails

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7 Munger Map Book of California/Alaska Oil and Gas Fields, 37th Edition, June 1993.

8 The EDR Historical Topographic Map Report, Inquiry No. 1063369-5, October 16, 2003.

were observed in the vicinity of Borrow Sites "A" and "B." The Del Valle Oil and Gas Field is located to the west of the subject site and the Newhall-Potero Oil Field is located to the south and west of the subject site.

1988 and 1991
Significant changes were not observed on the adjacent properties to the north, south, east or west. The present day Chiquita Canyon Landfill was labeled "gravel pit" on this map.

1995
Significant changes were not observed on the subject property, except that a small structure was depicted next to the oil well located in the central portion of the subject property. This structure appears to be in the same location as the structure associated with the equipment storage area in this same area, observed on the day of the site visit. Several dirt trails are depicted traversing the subject property, and the Southern Pacific Railroad tracks were no longer depicted. There were no significant changes in the two borrow sites or the adjacent properties. The Chiquita Canyon Landfill had been expanded between 1991 and 1995. The landing strip that was first observed in 1969 had been removed by 1995.

Building Records

The Los Angeles County Department of Public Works Building and Safety Department and Tax Assessors office were contacted regarding building permits and certificates of occupancy for the site.[9] According to the Los Angeles County Department of Public Works Building and Safety Department, no permits existed for the subject property.

Historical Summary

The review of historical documents indicates that portions of the subject site have been vacant undeveloped land or used as agricultural land from prior to 1903 until present. From prior to 1903 until prior to 1991, Southern Pacific Railroad tracks ran along the northern boundary of the subject property. Since at least 1969, the eastern portion of the subject property has been located within the Castaic Junction Oil Field. Several small structures have been located throughout the subject property from prior to 1947 through present. The configurations and locations of these structures have changed several times since 1947. Since 1947, at least two oil wells, possibly three, have been located near the eastern property boundary. No oil wells currently exist on-site. Sometime prior to 1952, three oil ASTs (located within a containment berm) were also located near the eastern property boundary. By 1968, these ASTs had been removed. A circular AST was located approximately 555 feet south of Highway 126 and approximately 1,000 feet east of the intersection of Walcott Way and Highway 126, from prior to 1952 until prior to 1968. The purpose of this AST is unknown. An oil well has been located in the central portion of the subject property, approximately 555 feet south of the intersection of Walcott Way and Highway 126, from prior to 1952 until prior to 1994. This area has also been occupied by an equipment storage area between 1952 and 1972, and between approximately 1994 to the present. An airstrip occupied the central portion of the subject property since prior to 1968 until prior to 1994 when it was removed. The Indian Dunes Motorcycle Park also occupied the central portion of the subject property from

9 County of Los Angeles Public Works Department, Building and Safety Division, and http://assessor.co.la.ca.us/DataMaps/pais.asp., October 23, 2003.

prior to 1972 until prior to 1994 when it was abandoned and subsequently removed. By 1994, the subject property was used for agricultural purposes.

Borrow Sites "A" and "B" have primarily been undeveloped since prior to 1903 until the present. Two oil wells were located near the northern boundary of Borrow Site "A" in 1941. There is no evidence of production from these wells. In 1989 and in 1993, visual evidence of possible oil exploration activities were observed on the floor of a small valley/canyon located on Borrow Site "A." No oil wells currently exist on Borrow Site "A." The floor of the small valley/canyon located in Borrow Site "A" appears to have been used for agricultural purposes from around 1994 through the present.

Some time prior to 1947, a dirt road was constructed across Borrow Site "B," and what appeared to be two oil wells were drilled on this site. No evidence of production was observed. In addition, evidence of a possible oil pipeline was noted to cross Borrow Site "B," along its southern boundary. Evidence of this possible pipeline was noted as early as 1952. Sometime prior to 1976, electrical transmission lines were noted to cross from west to east across Borrow Site "B," and a transmission tower is located on the site.

SITE RECONNAISSANCE AND IMPROVEMENTS

Between January 28, 2004 to February 4, 2004, BA Environmental performed a visual reconnaissance of the subject property located south of Henry Mayo Drive (Highway 126), north of the Santa Clara River, east of the intersection of Henry Mayo Drive (Highway 126) and Chiquito Canyon Road, and west of Castaic Creek, which is referred to as River Village, Tentative Tract Map No. 53108, Highway 126, in the unincorporated portion of Los Angeles County. Planned usage for the subject property will include residential and commercial developments, parks and a school (see Figure 4). This project also includes the two borrow sites where fill material will be derived to be placed on the subject property. Borrow Site "A" is located south of the Santa Clara River and west of Interstate 5 and consists of approximately 400 acres. Borrow Site "B" is located northeast of the intersection of Chiquito Canyon Road and Henry Mayo Drive and consists of approximately 300 acres. Mr. Russell M. Cote of BA Environmental performed the site reconnaissance, unescorted.

The subject property consists of an approximate 280-acre parcel of land that has been graded and utilized for agricultural production; numerous dirt roads traverse the subject site. Approximately four small buildings exist on the site and are used in activities related to the on-site agricultural production. The subject site is also occupied by several irrigation wells. This project also includes the two borrow sites where fill material will be derived to be placed on the subject property. Borrow Site "A" is located south of the Santa Clara River and west of Interstate 5 and consists of approximately 400 acres, and Borrow Site "B" is located northeast of the intersection of Chiquito Canyon Road and Henry Mayo Drive and consists of approximately 300 acres. The two borrow sites are primarily in their native states with some dirt roads traversing them. A portion of Borrow Site "A" appears to have been used in the past for agricultural purposes. Mr. John Frye, General Manager, Agriculture and Natural Resources for Newhall Land and Farming, stated that this area was briefly used to grow hay, and that no pesticides were used in this area. There was also some evidence of past oil exploration in this area. An electrical transmission tower is located in Borrow Site "B," as well as evidence of past oil wells. Primary vehicular access to the subject site is from private driveways to the north. Primary vehicular access to Borrow Site "A" is from a dirt road to the south of the subject

site or from a dirt road from Potrero Canyon to the south. Primary vehicular access to Borrow Site "B" is from a dirt road to the east of Chiquito Canyon Road.

The site reconnaissance section is separated into three sub-sections: Subject Property (Tentative Tract Map No. 53108), Borrow Site "A" and Borrow Site "B."

Subject Property (Tentative Tract Map No. 53108)

At the time of the site visit, the subject property was used primarily for agricultural production. Crops included what was believed to be green beans, beets, carrots and other vegetables. Some land appeared to be out of production or fallow. The far western end was occupied by undeveloped land covered by native vegetation. Concrete and asphalt debris was observed scattered throughout the fields. A large pile of asphalt and concrete debris was observed along the northern property boundary. Included in this debris were concrete pipes, an old pickup truck body, old telephone poles and other miscellaneous debris. Approximately 200 feet south-southwest of this pile is a pile of wood debris. Old trash piles and construction debris piles were observed in the western portion of the subject property and along the old railroad easement. The trash observed in these piles appeared to household trash. Old piping was observed scattered in the western portion of the subject property. Some of this piping appeared to be sections of old oil pipelines and some appeared to be transite concrete pipe.

An equipment storage area was observed approximately 50 feet south of the intersection of Walcott Way and Highway 126. This storage area was observed to contain various farm equipment. Two ASTs mounted on trailers were observed in this area. These trailers appeared to be empty. Several empty and partially full 55-gallon steel drums were observed on-site. These drums appeared to contain oil or petroleum products. Staining was observed on the soil throughout this area. One sheet metal building is located in the fenced storage area, and consists of approximately 400 square feet. This building is used to store equipment and grain. This building was formerly an aircraft hangar, which was associated with an airstrip that was formerly located on the subject site. It is likely that this area was formerly used to fuel and maintain the aircraft and may have been an area used to mix pesticides.

The eastern storage area consists of three buildings and a plastic-sheeting hothouse. The buildings are used for storage and packaging. Farm equipment was observed to be stored in this area. Several small ASTs were observed in this area, as well as agricultural chemical mixing. Several 55-gallon drums and smaller five-gallon buckets were observed. None of these containers were labeled. Some staining was observed on the dirt in this storage area.

Several ASTs containing liquid fertilizers and various other agricultural chemicals were observed in the eastern portion of the subject property. Minor staining was observed on the dirt beneath these ASTs.

One portable diesel-powered pump was observed near the eastern property boundary. Associated with this pump was a small 100-gallon AST on a trailer and an approximate 500-gallon AST sitting on a wooden pallet. The 500-gallon AST was labeled as containing diesel fuel, likely for the pump. Staining was observed on the outside of the AST, as well as on the soil beneath the AST.

Several pumps were observed associated with water wells in the western and eastern portions of the subject property. These pumps are used to supply irrigation water to the

fields under cultivation. Minor staining was observed beneath the pumps.

An old railroad easement was observed along the northern property boundary, paralleling Highway 126. The railroad tracks have been removed; however, some ballast materials still remain. Debris and trash piles were observed along this easement.

During the site visit, evidence of underground storage tanks (USTs) or wastewater clarifiers were observed on the subject site. The only hazardous materials observed on-site were agricultural chemicals (i.e., pesticides and fertilizers) and petroleum products (i.e., diesel fuel, oil and lubricants).

Four small diameter groundwater monitoring wells (piezometers) were observed on-site. According to Newhall Land personnel, these wells are utilized by Seward Engineering for groundwater elevation data used for engineering purposes.

Several pipelines were observed crossing the subject site. The pipelines were identified visually by either marker signs, or visible piping or pipeline vents. A Southern California Gas pipeline was observed running along the northern property boundary in the railroad easement, and crossing the western end of the subject property. These pipelines are believed to be 18" to 20" in diameter and likely carry natural gas. Where visible, these pipelines appeared to be coated with a tar-like material to prevent corrosion.

A Shell Oil Company petroleum pipeline was also observed to run along the northern property boundary, parallel to the old railroad easement. The size of this pipeline is unknown; however, it is likely to contain crude oil. Approximately 250 feet southeast of the intersection of Chiquito Canyon Road and Highway 126 is a fenced enclosure. This enclosure is adjacent to the Shell Oil Company pipeline and a Shell Oil pipeline vault. A sign on the gate of the enclosure indicates that the enclosure is owned by Eouilon Pipeline Company, and is the Del Valle Booster station. This is likely a booster station for an oil pipeline. Inside of the enclosure was a pump, a 100-gallon AST likely containing diesel fuel and two electrical transformers. The pump and AST were observed to be in a concrete containment.

An unidentified pipeline was observed running along the southern edge of the old railroad easement. Where exposed, the pipeline appeared to be approximately 18" to 20" in diameter and was coated with a tar-like substance to prevent corrosion. Two vents, similar to those used in oil pipelines, were observed associated with this pipeline.

Damaged piping was observed on the surface in the old railroad easement. It appeared that this pipeline had been removed. It is uncertain if this pipeline was replaced or completely removed. The pipeline appeared to be 16" to 18" in diameter. Oil staining was observed in the areas where this pipeline was exposed.

A Unocal pipeline was observed to run across the western end of the subject property. The size of this pipeline is unknown; however, the pipeline likely carried oil. Reportedly, this pipeline is currently idle, and not being used.

The Santa Clara River, an intermittent seasonal stream, is located adjacent to the south of the subject property. Castaic Creek a tributary to the Santa Clara River, is located to the east of the subject property. Storm water sheet flows across the subject property to the south into the Santa Clara River and to the east into Castaic Creek.

Borrow Site "A"

This parcel was observed to be primarily undeveloped at the time of the site reconnaissance. The site is covered with native vegetation, which consists of brush, oak trees and native plants. The floor of a small valley/canyon, which runs east to west across the borrow site, appears to have been used in the past for agricultural purposes. Mr. John Frye, General Manager, Agriculture and Natural Resources for Newhall Land and Farming, stated that this area was briefly used to grow hay, and that no pesticides were used in this area. Concrete and wood debris was observed scattered in the agricultural field on the floor of the small valley/canyon. This concrete and wood debris may be the indication of either a former structure or oil exploration activities. An abandoned road was observed running along the northern boundary of this borrow site. A flat roughly graded dirt pad was observed along this road. This is the location of what is believed to have been an exploratory oil well. At the eastern end of this small valley/canyon is a graded dirt pad with what appears to be a filled-in concrete vault. This is likely the location of a former oil well. No oil staining was observed on this graded pad. Storm water sheet flows across the subject property to the west into the unnamed tributary and to the north into the Santa Clara River.

During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site.

Borrow Site "B"

This parcel was observed to be primarily undeveloped at the time of the site reconnaissance. The site is covered with native vegetation, which consists of brush and native plants. A dirt road crosses the subject property and leads to a Southern California Edison (SCE) transmission tower. A concrete pad was observed along this dirt road. This pad had a configuration similar to that used for an oil derrick and a cable tool-drilling rig. It is believed that this was the location of a former oil exploration well. No staining was noted around the concrete pad. Approximately 500 feet up a small access road was a second flat dirt pad. Soil in this area was observed to be stained by what is believed to be crude oil. This may have been the location of a second exploratory oil well. Chiquito Canyon Road is located adjacent to the west of this parcel. Highway 126 is located adjacent to the south. Storm water flows across the subject property to the east into Chiquito Canyon and south into the Santa Clara River.

During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site.

Soil Sampling for Pesticides and Herbicides

Scope of Services

The objective of the limited soil sampling was to assess whether past use of pesticides or herbicides have impacted the shallow soils beneath the previously cultivated areas on Tentative Tract No. 53108. BA Environmental proposed to collect up to 15 composite soil samples at a depth of approximately one to two feet below ground surface (bgs).

In order to complete the limited soil sampling activities, BA Environmental performed the following tasks:

a. Collected up to 69 soil samples based upon designated use (agricultural production, grazing, etc.). The locations of the soil samples from which the composites were made are included on Figure 5;

b. Submitted 69 soil samples to a State of California, Department of Health Services (DHS)-certified laboratory to be composited. These samples were composited in the laboratory into 15 composite samples. The 15 composite samples were to be analyzed for Organochlorine Pesticides (OCP), Organophosphorous Pesticides (OPP) and Chlorinated Herbicides (CH), using Environmental Protection Agency (EPA) Method Nos. 8081, 8141 and 8151, respectively;

c. Provided all of the necessary equipment and materials to perform the required services. This equipment included soil sampling equipment.

Soil Sampling Procedures

Between January 29, 2004 and February 5, 2004, BA Environmental conducted limited soil sampling investigation using hand auger equipment. Coordination and supervision of soil sampling activities were performed by a Registered Geologist from BA Environmental.

Sixty-nine shallow soil borings were advanced to a depth of between one and two feet bgs (Figure 3).

Following retrieval of the samples, the samples were labeled with the sample number, collection date and project number, placed in a cooler chilled to approximately 4° C (40° F), and retained for laboratory analyses.

Field observations of soil samples collected from all of the borings revealed no unusual odors or staining.

Decontamination

Quality assurance/quality control (QA/QC) procedures were performed to prevent cross contamination between the samples. Only clean sampling equipment was used for this drilling project. A three-stage tap water wash was used to clean equipment between boring and sampling events. New nitrile gloves were used while obtaining the samples. The soil samples were collected in clean liners.

Sample Handling and Transport

The soil samples collected from the hand auger borings to be used for chemical analyses were placed in a cooler, chilled to approximately 4° C (40° F), and transported to Enviro Chem Inc. of Pomona, California, a State of California DHS-certified laboratory, under a strict chain-of-custody prepared at the time of sampling. The samples were composited by the laboratory.

Quality Assurance/Quality Control (QA/QC)

To increase the confidence levels in the data obtained, a QA/QC program was implemented. QA refers to management of actions designed to maintain precision, accuracy and completeness of the data developed from the project. QC refers to accepted formal procedures and activities specifically designed for the purpose of collecting data that is intended to be reliable and consistent for the site conditions.

The program includes formal procedures for all field activities, including soil sampling, decontamination, instrument calibration, documentation of activities and calculations, and peer review. Routine QC procedures were performed by the laboratory, and included daily calibration of instruments, percent surrogate recoveries and analyses of matrix spikes and matrix spike duplicates (laboratory reports). The laboratory reported the results to be within acceptable percent recoveries with no results exceeding the laboratory established control limits.

Limited Soil Sampling - Laboratory Results

Samples collected were composited at the laboratory in groups of four, except one sample which was composited from five samples. The composited samples were analyzed for Organochlorine Pesticides (OCP), Organophosphorous Pesticides (OPP) and Chlorinated Herbicides (CH), using Environmental Protection Agency (EPA) Method Nos. 8081 (OCP) , 8141 (OPP) and 8151 (CH).

OCP in Soil

Composited soil samples G1 through G17 were analyzed for OCP and the data is presented in Table 1, which is included as an attachment to this report. In summary, samples G11, G13, G14, G15 and G17 were reported to contain concentrations of alpha-chlordane ranging from 0.001 to 0.018 milligrams per kilogram (mg/kg). Samples G3, G11, and G13, G14, G15 and G17 were reported to contain concentrations of gamma-chlordane ranging from 0.001 to 0.027 mg/kg. 4,4-DDD was detected in samples G13 through G15 at a concentration of 0.001 mg/kg. Samples G11 and G13 thorough G17 were reported to contain 4,4-DDE in concentrations ranging from 0.002 to 0.034 mg/kg. 4,4-DDT was detected in samples G7 and G11 through G17 in concentrations ranging from 0.002 to 0.023 mg/kg. Dieldrin was detected in samples G6 and G14 at 0.002 and 0.003 mg/kg, respectively. Endosulfan I was detected in sample G14 at a concentration of 0.001 mg/kg. Samples G11 and G17 contained concentrations of Endosulfan II at 0.018 and 0.034 mg/kg, respectively. Endosulfan Sulfate was detected in sample G14 at a concentration of 0.005 mg/kg. Samples G9 through G17 were reported to contain Endrin at concentrations ranging from 0.001 to 0.136 mg/kg. Sample G13 was reported to contain Heptachlor Epoxide at a concentration of 0.001 mg/kg. The laboratory results are summarized in Table 1. The laboratory report is included in Appendix D.

The concentrations of OCPs detected on the subject site were compared with the Preliminary Remediation Goals (PRGs) set up by the United States Environmental Protection Agency (EPA) for various compounds and metals. This comparison revealed that none of the OCPs detected at the subject site exceeded the residential or industrial use PRGs for those compounds. Based on these results, there is a low potential for threat to human health or the environment.

OPP in Soil

Composited soil samples G1 through G17 were analyzed for OPP and the data is presented in Table 1 (see attachments). In summary, all of the samples analyzed were reported not to contain detectable concentrations of OPP. The laboratory results are summarized in Table 1. The laboratory report is included in Appendix D.

CH in Soil

Composited soil samples G1 through G17 were analyzed for CH and the data is presented in Table 1 (see attachments). In summary, all of the samples analyzed were reported not to contain detectable concentrations of CH. The laboratory results are summarized in Table 1. The laboratory report is included in Appendix D.

Pits, Ponds and Lagoons

Pits, ponds and lagoons are often associated with the disposal of solid and liquid wastes, which may include hazardous materials. According to ASTM Standard E 1527-00, pits, ponds and lagoons are "man-made or natural depressions in the ground surface that are likely to hold liquids or sludges containing hazardous substances or petroleum products." Information obtained from the assessment indicated that pits, ponds and lagoons do not currently exist on the subject site. Based on the review of historical records of the subject site, it is unlikely that pits, ponds or lagoons have existed at the site in the past.

Septic Tanks and Cesspools

Septic tanks and cesspools are often associated with the disposal of wastewater from structures that are not served by public sewer systems. Septic tanks and cesspools may be associated with hazardous materials, if such materials have been inappropriately disposed of in the past via sinks. Information obtained from the site assessment indicated that septic tanks and cesspools do not currently exist on the subject property.

Wells, Cisterns and Sumps

Four small diameter groundwater-monitoring wells (piezometers) were observed on Tentative Tract Map 53108. According to Newhall Land personnel, these wells are utilized by Seward Engineering for groundwater elevation data used for engineering purposes.

Three waster wells were observed in the western portion of the subject property. One was observed in the central portion near the intersection of Walcott Way and Highway 126. Approximately six water wells were observed along the eastern property boundary. All of these water wells are used to supply irrigation water to the agricultural crops on the subject site.

Three oil wells have been documented on the subject property. In addition, evidence of three, possibly four, oil wells has been noted in Borrow Site "A." Evidence of two oil wells has also been noted in Borrow Site "B." These oil wells are further discussed in the Historical Review section above or the Agency Contacts section below.

Polychlorinated Biphenyls (PCBs)

No equipment likely to contain PCBs was observed on the subject property or adjacent properties.

On-Site Fuel Storage Tanks

According to the State of California Water Resources Control Board (SCWRCB), underground storage tanks (USTs) and/or permits do not exist for the subject property.[10] A review of Los Angeles County Department of Public Works revealed that UST files existed for 28700 Henry Mayo Drive, a site located within the limits of the subject property. One 1,000-gallon gasoline and one 1,000-gallon diesel UST were removed in 1989 by PW Environmental, in the vicinity of the central farm equipment storage area south of Wolcott Way. This UST is further discussed in the Agency Contacts Section below.

One portable diesel powered pump was observed near the eastern property boundary. Associated with this pump was a small 100-gallon AST on a trailer and an approximate 500-gallon AST sitting on a wooden pallet. The 500-gallon AST was labeled as containing diesel fuel, likely for the pump. Staining was observed on the outside of the AST, as well as on the soil beneath the AST.

Utilities

Electric service is provided by SCE. Water service is provided by the Valencia Water Company. No refuse removal service is provided to the subject property.

Visual Asbestos Survey

BA Environmental performed a visual survey of suspect friable and non-friable asbestos-containing materials (ACMs).

- Friable materials are materials which can be crumbled, pulverized, or reduced to powder by hand pressure when dry.
- Non-friable materials are materials in which the fibers have been locked in by a bonding agent, coating, or binder, and may not release fibers during normal use and handling. Improper handling, such as grinding or sanding of non-friable ACMs, will render these materials friable.

On the day of the site reconnaissance, scattered suspect ACMs were observed. These suspects ACMs included pieces of transite pipe, construction material debris along the old railroad easement, and tar-like coating observed on metal pipe sections located in the western portion of the subject site.

10 The EDR Radius Map with GeoCheck®, Inquiry No. 1108642.4s, January 8, 2004.

Radon Gas Survey

Radon is a radioactive gas that occurs naturally in the environment, and cannot be seen, smelled or tasted. The human health effect associated with exposure to elevated levels of radon is an increased risk of developing lung cancer. The US Environmental Protection Agency (EPA) and the US Center for Disease Control are concerned about the increased risk of lung cancer developing in individuals exposed to above average levels of radon in their homes or offices. In order to address these concerns, the US EPA conducted a radon survey and presented the results for various counties in 1993.[11]

The EPA's map of Radon Zones assigns each of the 3,141 counties in the United States to one of three zones. The zone designations were determined by assessing five factors that are known to be important indicators of radon potential: indoor radon measurements, geology, aerial radioactivity surveys, soil parameters and foundation types. The subject property falls within the designation of Zone 2. Zone 2 counties have a predicted average indoor radon screening level of greater than or equal to 2.0 picocuries per liter (pCi/l) and less than or equal to 4.0 pCi/l of dry air. Based on the results of the survey, the subject site appears to fall within a radon screening level below the recommended EPA Action Level of 4.0 pCi/l. It is BA Environmental's opinion, based upon these results, that it is unlikely that radon is a concern for the subject site.

ADJACENT LAND USE

During the reconnaissance of the surrounding area within a 0.25-mile radius, BA Environmental observed that the subject site is located in an area undeveloped land and agricultural land, with oil fields to the northwest and south.

Adjacent land use to the subject site (Tentative Tract Map No. 53108) include agricultural land and undeveloped land to the west, Castaic Creek to the east, the Santa Clara River to the south, and Highway 126 followed by Chiquita Canyon Landfill and vacant undeveloped land to the north. Adjacent properties to Borrow Site "A" include agricultural land to the west, and undeveloped land to the north, south and east. South of this borrow site is an oil field. Adjacent properties to Borrow Site "B" include undeveloped land to the north, Chiquito Canyon Road and an oilfield to the west, undeveloped land followed by the Chiquito Canyon Landfill to the east, and Highway 126 followed by the subject site to the south.

Wetlands and Flood Plains

During the site reconnaissance and drive-by survey of the surrounding area, BA Environmental did not observe indications that the subject property is located within known wetlands. According to the Environmental Data Resources, Inc. (EDR) report regarding the subject site and site vicinity, no wetlands per the 1994 National Wetlands Inventory are located within a one-mile radius of the subject site. According to the EDR report, portions of the subject property are located within a 100-year flood zone per the Federal Emergency Management Agency (FEMA).[12]

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11 EPA Map of Radon Zones, 1993.

12 The EDR Radius Map with GeoCheck®, Inquiry No. 1108642.4s, January 8, 2004.

AGENCY CONTACTS

California Department of Conservation, Division of Oil, Gas and Geothermal Resources (DOGGR)

BA Environmental visited the office of the DOGGR regarding oil well abandonment records for the site vicinity. The review of well abandonment records revealed that three oil wells were drilled on the subject property and four additional wells were drilled within 500 feet of the subject property. Well records obtained from the DOGGR with the exception of 'Newhall' 1 are included as Appendix E.

Table 2
Oil Wells Located in Site Vicinity
Tentative Tract Map No. 53108
Newhall Ranch, California

Section	Township	Range	Operator	Well No.	Year Abandoned
15	4 North	17 West	Texaco E&P Inc.	'Newhall' 1	Unknown
14	4 North	17 West	Exxon Mobil Corp	'NHL&F' 50	1993
14	4 North	17 West	Exxon Mobil Corp	'NHL&F' 2	1993
14	4 North	17 West	Exxon Mobil Corp	'NHL&F' 9	1993
14	4 North	17 West	Exxon Mobil Corp	'NHL&F' 77	1993
23	4 North	17 West	Exxon Mobil Corp	'NHL&F' 54	1956
23	4 North	17 West	Exxon Mobil Corp	'NHL&F' 45	1955
23	4 North	17 West	Exxon Mobil Corp	'NHL&F' 1	1994

DOGGR also supplied requirements for well abandonment procedures. A copy of the DOGGR oil well abandonment procedures is included in Appendix F. BA Environmental spoke with Mr. Steve Mulqueen regarding well abandonment. According to Mr. Mulqueen, the abandoned oil wells need to be located, and plotted on the site plan for the project and submitted in triplicate to the DOGGR. Locating the wells is accomplished by hiring a surveyor to locate each well using "location record" for each well. After this is accomplished, the well needs to be excavated. Following excavation, the well needs to tested for gas leakage and inspected for fluid leakage by DOGGR personnel. If the well leaks or is not abandoned properly, the well may need to be reabandoned. If fill soil is to be placed over the oil well, the casing may need to be extended to within five feet of finished grade. If a structure is proposed within 10 feet of an abandoned/reabandoned well, the site plans should include an approved well-vent system designed to vent natural gases to the atmosphere. If a structure is within 25 feet of an abandoned/reabandoned well, and the permitting agency is Los Angeles County, then an approval letter would be required.

Any oil wells located within the borrow sites, as well as any unidentified oil wells encountered on the subject site should be reabandoned as noted above.

Los Angeles County Department of Public Works (LACDPW)

BA Environmental visited the office of the LACDPW regarding files for USTs and hazardous materials storage and usage. According to the LACDPW, files existed for several properties owned and operated by Newhall Land. These files included 30003 Walnut Orchard Road, 31820 Henry Mayo Drive, 28700 Henry Mayo Drive, 27230 Henry Mayo Drive. Only the 28700 Henry Mayo Drive listing appears to be within the limits of the subject property. One 1,000-gallon gasoline and one 1,000-gallon diesel UST were removed in 1989 by PW Environmental in the vicinity of the central farm equipment storage area south of Wolcott Way. One sample collected beneath the gasoline UST was reported to contain 96 milligrams per kilogram (mg/kg) of Total Petroleum Hydrocarbons as gasoline (TPH-g). LACDPW requested a description of sampling methods and manifests for the UST removal. PW Environmental submitted these documents in August and September of 1989. No closure letter was present in the file.

GOVERNMENT RECORDS REVIEW

Regulatory compliance is a primary element of an ESA. Failure to comply with governmental regulations can result in fines, and can expose businesses or individuals to liabilities from which the law would otherwise shield them. The presence of hazardous wastes or hazardous materials, on-site or at neighboring sites, may present certain liabilities. Environmental Data Resources, Inc. (EDR) provided the most recent information regarding the hazardous materials sites identified below.[13] Sites of potential environmental concern are described at the end of this section in Table 3. It should be noted that the search radii for each database has been extended beyond ASTM requirements. The referenced search radii below are minimum distances. The actual search distances are much greater.

1. The Federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), also known as the Superfund Act, protects the victims and the environment in the event of a hazardous materials spill. This act primarily addresses cleanup of designated Superfund hazardous waste sites (HWS). To achieve its stated purpose, CERCLA established a hazardous Substances Trust Fund, the Emergency Response Trust Fund, and the Post-Closure Liability Trust Fund. These funds compensate the victims and provide money necessary for the decontamination of the environment. The EPA compiles a list of known contaminated sites that are under consideration for the Superfund List. This list is known as the CERCLIS database. According to the September 2003 version of this document, **no** CERCLIS site is located within a 0.5-mile radius of the subject property.

   The US EPA maintains the National Priority List (NPL) under CERCLA 42 U.S.C. Section 9601 (1985). Once a site has been designated on the CERCLIS, the EPA ranks it to determine the potential risk to human health and the environment. Only those CERCLIS sites which present the greatest risk are added to the NPL, which qualifies the sites to receive CERCLA remedial funding. According to the October 2003 version of this document, **no** NPL site is located within a 1.0-mile radius of the subject property.

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13 The EDR Radius Map with GeoCheck®, Inquiry No. 1108642.4s, January 8, 2004.

2. The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal, in addition to enforcing penalties against violators. The RCRA Facilities database is a compilation by the EPA of facilities that generate, store, transport, treat, or dispose of hazardous waste.

   According to the September 2003 listing of hazardous waste treatment, storage and disposal facilities (TSDs), **no** TSD facility is located within a 0.5-mile radius of the subject site.

   The Resource Conservation and Recovery Information System - TSDs CORRACTS report contains information pertaining to TSDs which have conducted, or are currently conducting, a corrective action as regulated under RCRA.

   According to the September 2003 version of the CORRACTS document, **no** CORRACTS facility is located within a 1.0-mile radius of the subject property.

   According to the September 2003 listing of hazardous waste generators, **three** large quantity generator (LQG) facilities and **four** small quantity generator (SQG) facilities are located within a 0.5-mile radius of the subject property.

3. The California Environmental Protection Agency (Cal-EPA) maintains the California Facility Inventory Database (Ca.-FID). The Ca.-FID contains an historical listing of active and inactive UST locations from the State Water Resources Control Board. According to the October 1994 version of this database, the subject property **is not listed** on the Ca.-FID database.

4. The California Department of Toxic Substance Control's (DTSC) Annual Work Plan (AWP, formerly BEP), also known as Cal-Sites, is a listing of known hazardous waste sites. According to the November 2003 version of this document, **no** AWP sites are located within a 1.0-mile radius of the subject site.

   The DTSC maintains a database (known as the Cal-Sites ASPIS list) that includes potential or confirmed hazardous substance release properties. According to the November 2003 version of this database, **no** ASPIS site is located within a 1.0-mile radius of the subject property.

   The DTSC maintains the California Hazardous Materials Incident Report System (known as CHMIRS), which contains information on reported hazardous material incidents (accidental releases or spills). According to the December 2002 version of this database, **eight** CHMIRS sites are located within a 1.0-mile radius of the subject property.

   The DTSC developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds, known as the Bond Expenditure Plan (BEP). This list is not updated. According to the January 1989 version of this database, **no** BEP site is located within a 1.0-mile radius of the subject property.

5. The Emergency Response Notification System (ERNS) is a national database used to collect information on reported releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities,

including the EPA, the US Coast Guard, the National Response Center, and the Department of Transportation.

According to the December 2002 version of this document, there have been **no** reported releases of hazardous substances at the subject property.

6. The State of California State Water Resources Control Board (SWRCB) maintains the California Leaking Underground Storage Tank (LUST) list. According to the April 2003 version of this document, **five** LUST sites are listed as being within a 0.5-mile radius of the subject property.

7. The SWRCB maintains an inventory (CA UST) of registered USTs. According to the April 2003 version of this document, **three** UST sites are listed as being within a 0.5-mile radius of the subject property.

8. The SWRCB maintains the Hazardous Substance Storage Container Database which is a listing of Historic UST (Hist UST) sites. According to the October 1990 version of this database, the subject site **is not listed** as a Hist UST.

9. The SWRCB maintains an inventory (AST) of registered Above-ground Petroleum Storage Tank facilities. According to the July 2003 version of this database, **no** ASTs have been identified for the subject property.

10. The SWRCB maintains the Spills, Leaks, Investigations and Clean-up (SLIC) records. According to the July 2003 version of this database, **two** SLIC sites are located within a 0.5-mile radius of the subject property.

11. The California Governor's Office of Planning and Research annually publishes a listing of potential and confirmed HWS throughout the State of California under Government Code Section 65962.5. This list is also known as the Cortese List. According to the April 2001 version of this list, **nine** Cortese sites are located within a 1.0-mile radius of the subject site.

12. The California Integrated Waste Management Board maintains a list of permitted solid waste landfills (SWF/LF), incinerators and transfer stations. According to the November 2003 version of this database, **two** SWF/LF sites are located within a 0.5-mile radius of the subject property.

13. BA Environmental reviewed the list of "orphan" sites, which have inadequate address information and are therefore unplotted. **Nineteen (19)** "orphan" sites are listed. The "orphan" sites appear to be located at a distance greater than 0.5 miles from the subject property with the exception of the listing for Highway 126 Bridge, which is located adjacent to the east. This site is a construction site and not likely to cause an environmental impact to the subject property. Based on the distance of the remaining "orphan" sites from the subject property, there is a low potential for environmental impact to the subject property.

Table 3
GOVERNMENT-LISTED DATABASES
IDENTIFIED SITES OF ENVIRONMENTAL CONCERN
Tentative Tract Map No. 53108, Highway 126
Newhall Ranch, California

Site of Concern And Address	Distance and Direction from Subject Property	Databases	Regulatory Status	Potential Environmental Impact
Chiquita Canyon Landfill 29201 Henry Mayo Dr	500 Feet North (cross-gradient)	HMS	No Violations	Low
Laidlaw Waste Systems Inc 29201 Henry Mayo Dr	500 Feet North (cross-gradient)	HMS	No Violations	Low
Universal By-Products-Valencia 29201 Henry Mayo Dr	500 Feet North (cross-gradient)	WMUDS SWAT	No Violations	Low
Chiquita Canyon Landfill Inc 29201 Henry Mayo Dr	500 Feet North (cross-gradient)	HAZNET SWF/LF	No Violations	Low
Laidlaw Waste Systems 29201 Henry Mayo Dr	500 Feet North (cross-gradient)	CA Fid UST	No Violations	Low
Chiquita Canyon Landfill 29201 Henry Mayo Dr	500 Feet North (cross-gradient)	CA WDS EMI HAZNET SWF/LF	No Violations	Low
Chiquita Canyon Landfill 29201 Henry Mayo Dr	500 Feet North (cross-gradient)	WMUDS SWAT	No Violations	Low
Laidlaw Waste Systems 29201 Henry Mayo Dr	500 Feet North (cross-gradient)	UST	No Violations	Low
Chiquita Canyon Sanitary Landfill 29201 Henry Mayo Dr	500 Feet North (cross-gradient)	SQG FINDS	No Violations	Low
27900 Chiquito Canyon	1,000 Feet Northwest (down-gradient)	CHMIRS	Release of Petroleum February 1989	Low

Site of Concern And Address	Distance and Direction from Subject Property	Databases	Regulatory Status	Potential Environmental Impact
Newhall Land & Farming 3003 Walnut Orchard Rd	500 Feet Northwest (down-gradient)	LUST CORTESE	Soil Only Release Case Closed	Low
Travel Village 27946 Henry Mayo Drive	2,000 Feet East (cross-gradient)	Hist UST	Not on LUST list	Low
TA Manufacturing 28605 W. Franklin	2000 Feet Northeast (up-gradient)	LQG FINDS HAZNET	No Violations	Low

The subject property is not listed on any of the searched databases. The closest off-site facility is located to the north across Henry Mayo Drive (Highway 126). This facility is located in an assumed cross-gradient location relative to the regional groundwater flow direction. No impact from these facilities is likely. Based on the status and distances of the remaining facilities, there is a low potential for environmental impact due to off-site sources.

FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

The subject property consists of an approximate 280-acre parcel of land that has been graded and utilized for agricultural production; numerous dirt roads traverse the subject site. Approximately four small buildings exist on the site and are used in activities related to the on-site agricultural production. The subject site is also occupied by several irrigation wells. This project also includes the two borrow sites where fill material will be derived to be placed on the subject property. Borrow Site "A" is approximately 400 acres and Borrow Site "B" is approximately 300 acres. The two borrow sites are primarily in their native states with some dirt roads traversing them. A portion of Borrow Site "A" appears to have been used in the past for agricultural purposes. Mr. John Frye, General Manager, Agriculture and Natural Resources for Newhall Land and Farming, stated that this area was briefly used to grow hay, and that no pesticides were used in this area. There was also some evidence of past oil exploration in this area. An electrical transmission tower is located in Borrow Site "B," as well as evidence of past oil wells. Primary vehicular access to the subject site is from private driveways to the north. Primary vehicular access to Borrow Site "A" is from a dirt road to the south of the subject site or from a dirt road from Potrero Canyon to the south. Primary vehicular access to Borrow Site "B" is from a dirt road to the east of Chiquito Canyon Road.

The review of historical documents indicates that portions of the subject site have been vacant undeveloped land or used as agricultural land from prior to 1903 until the present. From prior to 1903 until prior to 1991, Southern Pacific Railroad tracks ran along the northern boundary of the subject property. Since at least 1969, the eastern portion of the subject property has been located within the Castaic Junction Oil Field. Several small structures have been located throughout the subject property from prior to 1947 through the present. The configurations and locations of these structures have changed several times since 1947. Since 1947, at least two oil wells, possibly three, have been located near the eastern property boundary. No oil wells currently exist on-site. Sometime prior to 1952, three oil ASTs (located within a containment berm) were also located near the

eastern property boundary. By 1968, these ASTs had been removed. A circular AST was located approximately 555 feet south of Highway 126 and approximately 1,000 feet east of the intersection of Walcott Way and Highway 126, from prior to 1952 until prior to 1968. The purpose of this AST is unknown. An oil well has been located in the central portion of the subject property, approximately 555 feet south of the intersection of Walcott Way and Highway 126 from prior to 1952 until prior to 1994. This area has also been occupied by an equipment storage area between 1952 and 1972, and between approximately 1994 to the present. An airstrip occupied the central portion of the subject property since prior to 1968 until prior to 1994, when it was removed. The Indian Dunes Motorcycle Park also occupied the central portion of the subject property from prior to 1972 until prior to 1994, when it was abandoned and subsequently removed. By 1994, the subject property was used for agricultural purposes.

BA Environmental performed a site reconnaissance of the subject property. The site reconnaissance addressed three areas: Subject Property (Tentative Tract Map No. 53108), Borrow Site "A" and Borrow Site "B."

Subject Property (Tentative Tract Map No. 53108)

At the time of the site visit, the subject property was used primarily for agricultural production. Crops included what was believed to be green beans, beets, carrots and other vegetables. Some land appeared to be out of production or fallow. The far western end was occupied by undeveloped land covered by native vegetation. Concrete and asphalt debris was observed scattered throughout the fields. A large pile of asphalt and concrete debris was observed along the northern property boundary. Included in this debris were concrete pipes, an old pickup truck body, old telephone poles and other miscellaneous debris. Approximately 200 feet south-southwest of this pile was a pile of wood debris. Old trash piles and construction debris piles were observed in the western portion of the subject property and along the old railroad easement. The trash observed in these piles appeared to household trash. Old piping was observed scattered in the western portion of the subject property. Some of this piping appeared to be sections of old oil pipelines and some appeared to be transite concrete pipe.

An equipment storage area was observed approximately 50 feet south of the intersection of Walcott Way and Highway 126. This storage area was observed to contain various farm equipment. Two ASTs mounted on trailers were observed in this area. These trailers appeared to be empty. Several empty and partially full 55-gallon steel drums were observed on-site. These drums appeared to contain oil or petroleum products. Staining was observed on the soil throughout this area. One sheet metal building is located in the fenced storage area, and consists of approximately 400 square feet. This building is used to store equipment and grain. This building was formerly an aircraft hangar, which was associated with an airstrip that was formerly located on the subject site. It is likely that this area was formerly used to fuel and maintain the aircraft and may have been an area used to mix pesticides.

The eastern storage area consists of three buildings and a plastic-sheeting hothouse. The buildings are used for storage and packaging. Farm equipment was observed to be stored in this area. Several small ASTs were observed in this area, as well as agricultural chemical mixing. Several 55-gallon drums and smaller five-gallon buckets were observed. None of these containers were labeled. Some staining was observed on the dirt in this storage area.

Several ASTs containing liquid fertilizers and various other agricultural chemicals were

observed in the eastern portion of the subject property. Minor staining was observed on the dirt beneath these ASTs.

One portable diesel-powered pump was observed near the eastern property boundary. Associated with this pump was a small 100-gallon AST on a trailer and an approximate 500-gallon AST sitting on a wooden pallet. The 500-gallon AST was labeled as containing diesel fuel, likely for the pump. Staining was observed on the outside of the AST, as well as on the soil beneath the AST.

An old railroad easement was observed along the northern property boundary, paralleling Highway 126. The railroad tracks have been removed; however, some ballast materials still remain. Debris and trash piles were observed along this easement.

During the site visit, evidence of underground storage tanks (USTs) or wastewater clarifiers was observed on the subject site. The only hazardous materials observed on-site were agricultural chemicals (i.e., pesticides and fertilizers) and petroleum products (i.e., diesel fuel, oil and lubricants).

Four small diameter groundwater monitoring wells (piezometers) were observed on-site. According to Newhall Land personnel, these wells are utilized by Seward Engineering for groundwater elevation data used for engineering purposes.

Several pipelines were observed crossing the subject site. The pipelines were identified visually by either marker signs, or visible piping or pipeline vents. A Southern California Gas pipeline was observed running along the northern property boundary in the railroad easement, and crossing the western end of the subject property. These pipelines are believed to be 18" to 20" in diameter and likely carry natural gas. Where visible, these pipelines appeared to be coated with a tar-like material to prevent corrosion.

A Shell Oil Company petroleum pipeline was also observed to run along the northern property boundary, parallel to the old railroad easement. The size of this pipeline is unknown; however, it is likely to contain crude oil. Approximately 250 feet southeast of the intersection of Chiquito Canyon Road and Highway 126 is a fenced enclosure. This enclosure is adjacent to the Shell Oil Company pipeline and a Shell Oil pipeline vault. A sign on the gate of the enclosure indicates that the enclosure is owned by Eouilon Pipeline Company, and is the Del Valle Booster Station. This is likely a booster station for an oil pipeline. Inside of the enclosure was a pump, a 100-gallon AST likely containing diesel fuel and two electrical transformers. The pump and AST were observed to be in a concrete containment.

An unidentified pipeline was observed running along the southern edge of the old railroad easement. Where exposed, the pipeline appeared to be approximately 18" to 20" in diameter and was coated with a tar-like substance to prevent corrosion. Two vents, similar to those used in oil pipelines, were observed associated with this pipeline.

Damaged piping was observed on the surface in the old railroad easement. It appeared that this pipeline had been removed. It is uncertain if this pipeline was replaced or completely removed. The pipeline appeared to be 16" to 18" in diameter. Oil staining was observed in the areas where this pipeline was exposed.

A Unocal pipeline was observed to run across the western end of the subject property. The size of this pipeline is unknown; however, the pipeline likely carried oil. Reportedly, this pipeline is currently idle, and not being used.

Borrow Site "A"

This parcel was observed to be primarily undeveloped at the time of the site reconnaissance. The site is covered with native vegetation, which consists of brush, oak trees and native plants. The floor of a small valley/canyon, which runs east to west across the borrow site, appears to have been used in the past for agricultural purposes. Mr. John Frye, General Manager, Agriculture and Natural Resources for Newhall Land and Farming, stated that this area was briefly used to grow hay, and that no pesticides were used in this area. Concrete and wood debris were observed scattered in the agricultural field on the floor of the small valley/canyon. This concrete and wood debris may be the indications of either a former structure or oil exploration activities. An abandoned road was observed running along the northern boundary of this borrow site. A flat, roughly graded dirt pad was observed along this road. This is the location of what is believed to have been an exploratory oil well. At the eastern end of this small valley/canyon is a graded dirt pad with what appears to be a filled-in concrete vault. This is likely the location of a former oil well. No oil staining was observed on this graded pad.

During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site.

Borrow Site "B"

This parcel was observed to be primarily undeveloped at the time of the site reconnaissance. The site is covered with native vegetation, which consists of brush and native plants. A dirt road crosses the subject property and leads to a Southern California Edison (SCE) transmission tower. Along this dirt road, a concrete pad was observed. This pad had a configuration similar to that used for an oil derrick and a cable tool-drilling rig. It is believed that this was the location of a former oil exploration well. No staining was noted around the concrete pad. Approximately 500 feet up a small access road was a second flat dirt pad. Soil in this area was observed to be stained by what is believed to be crude oil. This may have been the location of a second exploratory oil well.

During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site.

Four small diameter groundwater-monitoring wells (piezometers) were observed on Tentative Tract Map 53108. Reportedly, these wells are utilized for groundwater elevation data used for engineering purposes.

Three water wells were observed in the western portion of the subject property. One was observed in the central portion near the intersection of Walcott Way and Highway 126. Approximately six water wells were observed along the eastern property boundary. All of these water wells are used to supply irrigation water to the agricultural crops on the subject site.

Three oil wells have been documented on the subject property. In addition, evidence of three possibly four oil wells has been noted in Borrow Site "A." Evidence of two oil wells has also been noted in Borrow Site "B."

BA Environmental completed limited soil sampling at the above-referenced site to assess whether past use of pesticides or herbicides has impacted the shallow soils beneath the previously cultivated areas on Tentative Tract No. 53108.

Sixty-nine shallow hand auger borings were advanced to depths of between one and two feet below ground surface (bgs).

Field observations of soil samples collected from all of the borings revealed no unusual odors or discoloration. Groundwater was not encountered in any of the shallow borings.

Samples collected were composited at the laboratory in groups of four, except one sample which was composited from five samples. The composited samples were analyzed for Organochlorine Pesticides (OCP), Organophosphorous Pesticides (OPP) and Chlorinated Herbicides (CH) using Environmental Protection Agency (EPA) Method Nos. 8081 (OCP) , 8141 (OPP) and 8151 (CH).

All of the soil samples analyzed were reported not to contain detectable concentrations of OPP or CH.

Several OCPs were detected in the soil samples analyzed. Soil samples G11, G13, G14, G15 and G17 were reported to contain concentrations of alpha-chlordane ranging from 0.001 to 0.018 milligrams per kilogram (mg/kg). Samples G3, G11, and G13, G14, G15 and G17 were reported to contain concentrations of gamma-chlordane ranging from 0.001 to 0.027 mg/kg. 4,4-DDD was detected in samples G13 through G15 at a concentration of 0.001 mg/kg. Samples G11 and G13 thorough G17 were reported to contain 4,4-DDE in concentrations ranging from 0.002 to 0.034 mg/kg. 4,4-DDT was detected in samples G7 and G11 through G17 in concentrations ranging from 0.002 to 0.023 mg/kg. Dieldrin was detected in samples G6 and G14 at 0.002 and 0.003 mg/kg, respectively. Endosulfan I was detected in sample G14 at a concentration of 0.001 mg/kg. Samples G11 and G17 contained concentrations of Endosulfan II at 0.018 and 0.034 mg/kg, respectively. Endosulfan Sulfate was detected in sample G14 at a concentration of 0.005 mg/kg. Samples G9 through G17 were reported to contain Endrin at concentrations ranging from 0.001 to 0.136 mg/kg. Sample G13 was reported to contain Heptachlor Epoxide at a concentration of 0.001 mg/kg.

The concentrations of OCPs detected on the subject site were compared with the Preliminary Remediation Goals (PRGs) set up by the United States Environmental Protection Agency (EPA) for various compounds and metals. This comparison revealed that none of the OCPs detected at the subject site exceeded the residential or industrial use PRGs for those compounds.

BA Environmental performed a review of available government database records. The subject property is not listed on any of the searched databases. The closest off-site facility is located to the north across Henry Mayo Drive (Highway 126). This facility is located in an assumed cross-gradient location relative to the regional groundwater flow direction. No impact from these facilities is likely. Based on the status and distances of the remaining facilities, there is a low potential for environmental impact due to off-site sources.

BA Environmental has performed a Phase I ESA, in conformance with the scope and limitations of ASTM Practice E 1527-00, of the vacant parcel of land, which is located south of the intersection of Henry Mayo Drive (Highway 126), north of the Santa Clara River, east of the intersection of Henry Mayo Drive (Highway 126) and Chiquito Canyon

Road, and west of Castaic Creek, which is referred to as River Village, Tentative Tract Map No. 53108, Highway 126, and the two borrow sites, in Newhall Ranch, California. Any exceptions to, or deletions from, this practice are described in the Introduction section of this report.

This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property, except the following:

- Up to three oil wells and associated production area may exist on the subject property, and several on Borrow Sites "A" and "B";
- Several ASTs, likely associated with oil production, existed on-site in the 1950s;
- Several pipelines cross the subject property, and one pipeline crosses Borrow Site "B";
- Scattered suspect ACM debris was observed in the central and western portions of the subject property;
- Staining was observed beneath what appeared to be an abandoned pipeline along the old railroad easement, and near what was believed to be a former oil well on Borrow Site "B." In addition, staining was observed beneath a diesel AST associated with a portable water pump located in the eastern portion of the subject property; and
- Two equipment storage areas were observed on the subject site, one located in the eastern portion of the subject property and one in the central portion. The storage area in the central portion was associated with a former airstrip. Agricultural chemical storage and mixing was observed or may have taken place at these areas in the past. Soil staining was observed in both areas.

BA Environmental recommends the following:

- If disturbed, or if located within an area of redevelopment, all former oil wells located on the subject property or on either borrow site should be reabandoned according to all applicable local and state regulations;
- If the pipelines on the subject site and Borrow Site "B" are not to be used in the future, they should be abandoned and soils beneath them assessed for petroleum hydrocarbon leakage. If the pipelines are planned to remain in use, the pipelines should be assessed for possible hydrocarbon leakage;
- Properly dispose of scattered suspect ACMs; and
- The areas of former ASTs, current agricultural storage areas and current soil staining observed on the subject site or Borrow Site "B" should be assessed for potential impact to the subject site.

Although not a recognized environmental condition, it is recommended that all groundwater monitoring wells or production water wells be abandoned according to applicable local and state regulations, prior to redevelopment.

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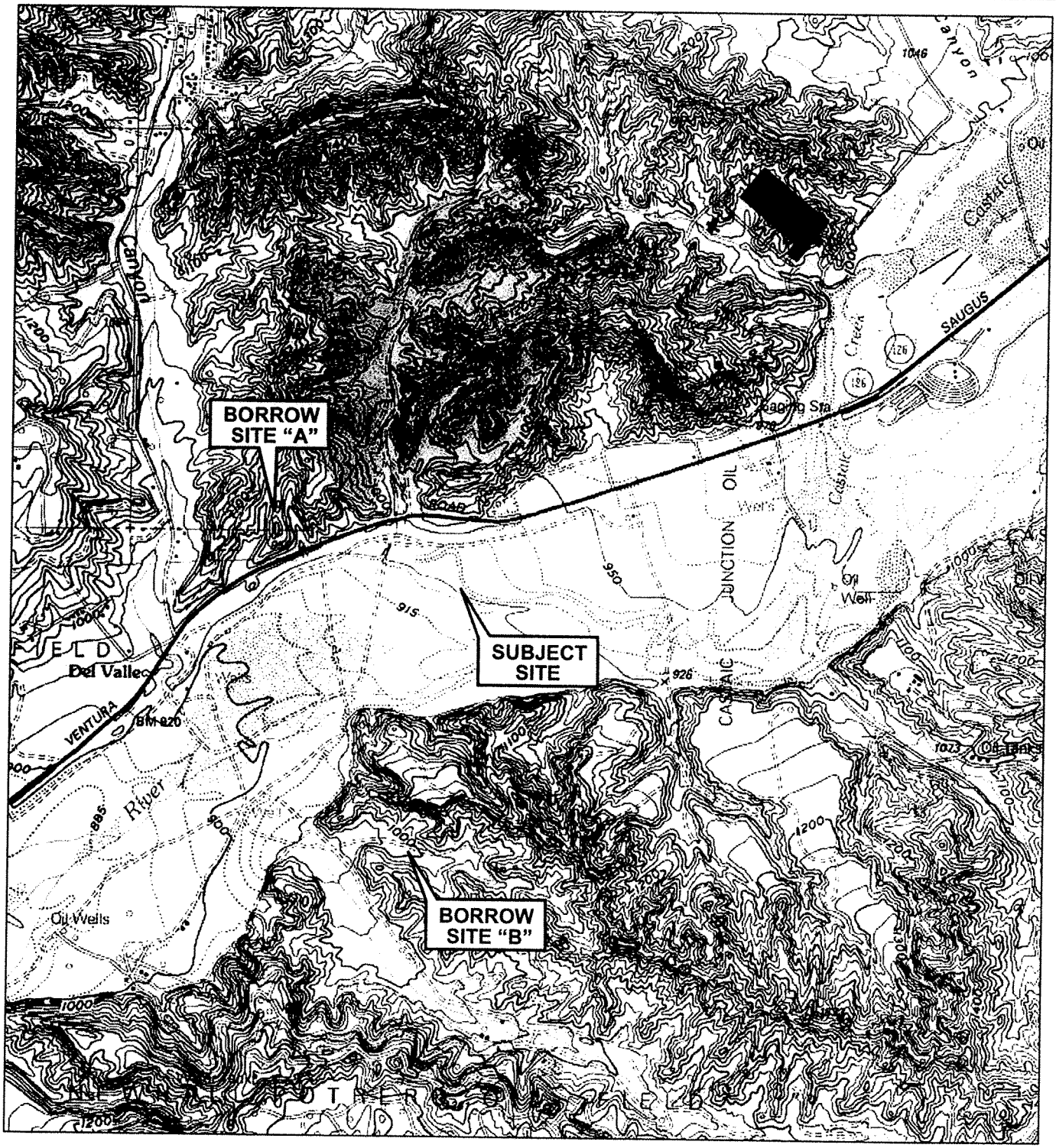
Andy Holmberg
President

FIGURES



NORTH

Reference: USGS Val Verde Quadrangle, California
7.5 Minute Series

SITE VICINITY
SCALE - 1:24,000

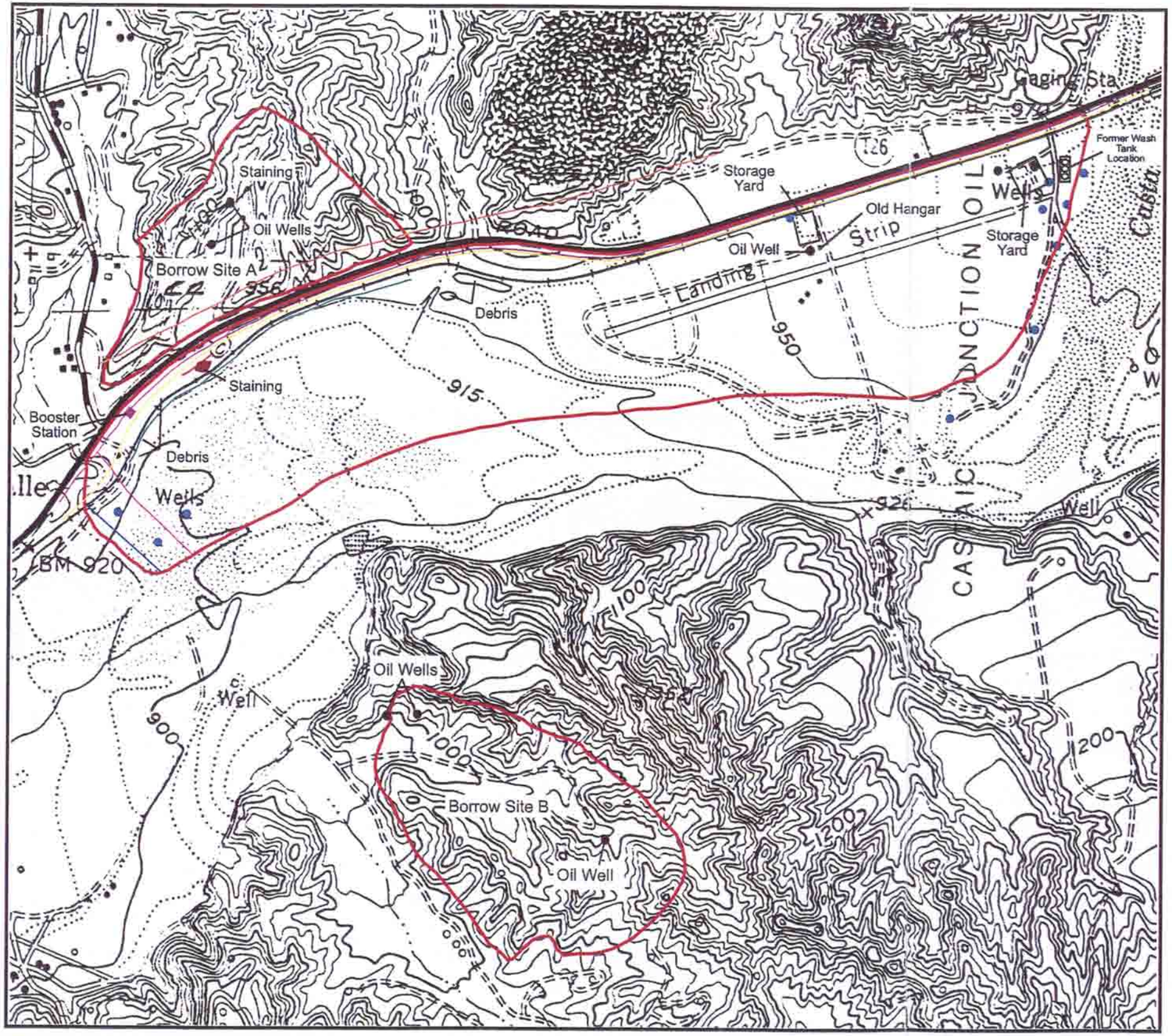
BA ENVIRONMENTAL

PHASE I ENVIRONMENTAL SITE ASSESSMENT

PROJECT: River Village
Tentative Tract Map No. 53108, Highway 126
Newhall Ranch, California

PROJECT NO.
104012

FIGURE
1



LEGEND

= Limits of Subject Property

= Southern California Gas Pipeline

= Unocal Pipeline

= Shell Gas Pipeline

= Mobil Oil Pipeline

= Unidentified Pipeline

= Exposed Abandoned Pipeline

= Water Well

= Former Oil Well

BA ENVIRONMENTAL

NORTH

0 505 1010

Approximate Scale, feet

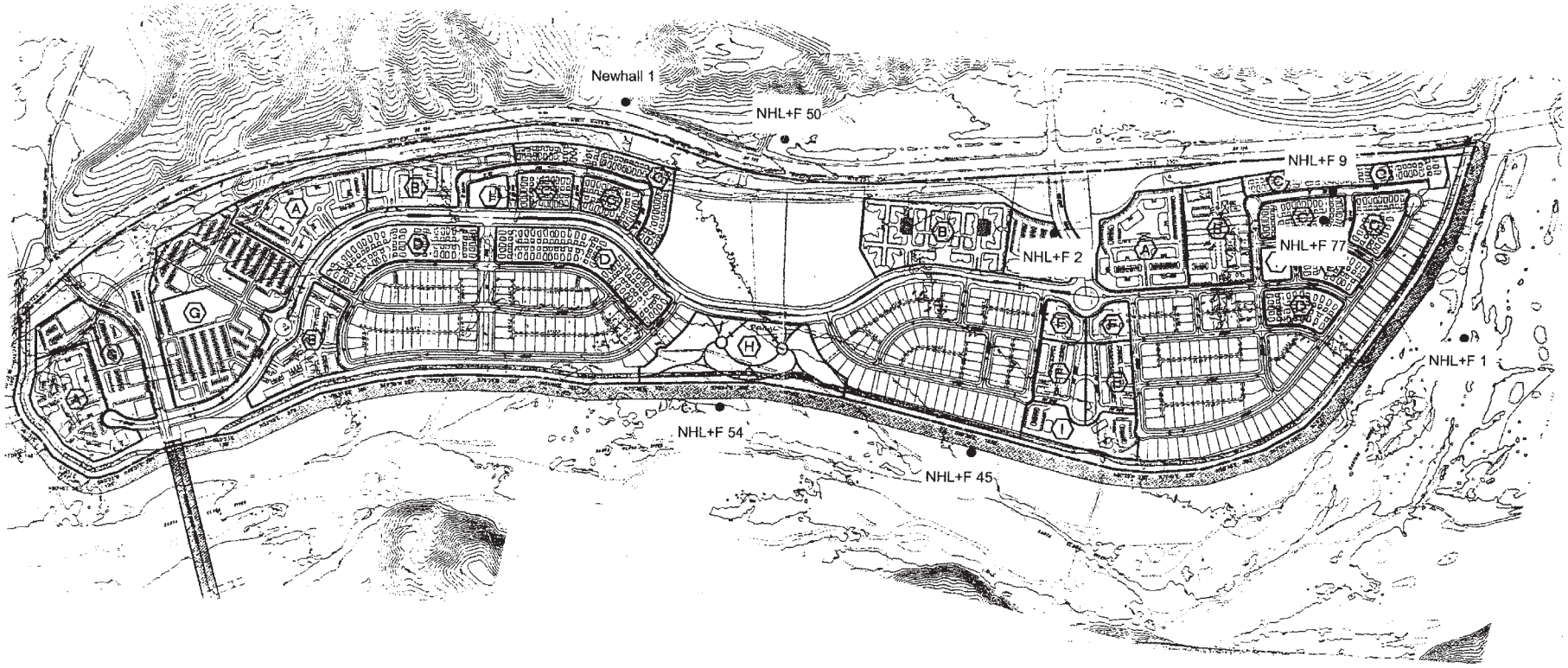
Site Plan

PHASE I ENVIRONMENTAL SITE ASSESSMENT

PROJECT: **River Village**
Tentative Tract Map No. 53108, Highway 126
Newhall Ranch, California

PROJECT NO. **104012**

FIGURE **2**



BA ENVIRONMENTAL

NORTH

0 335 670
Approximate Scale, feet

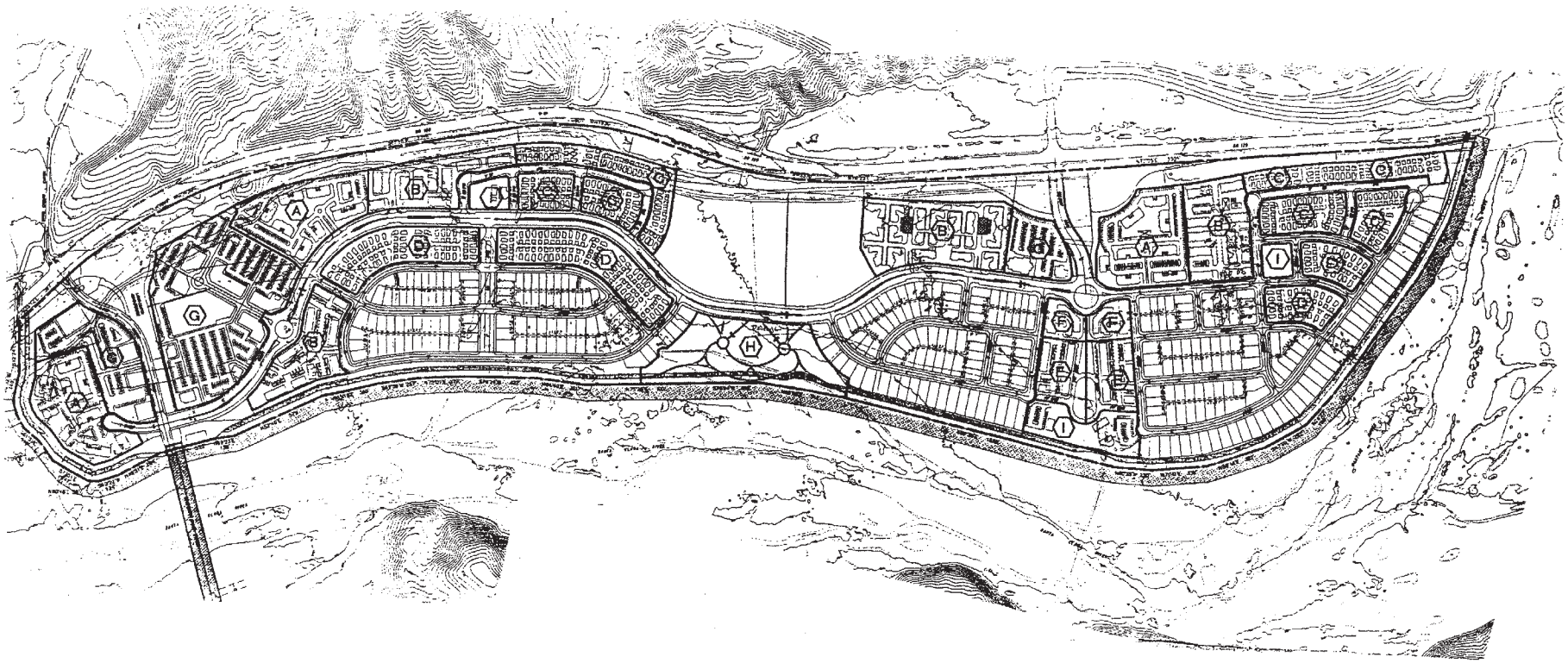
Site Plan

PHASE I ENVIRONMENTAL SITE ASSESSMENT
Oil Well Locations

PROJECT: **River Village**
Tentative Tract Map No. 53108, Highway 126
Newhall Ranch, California

PROJECT NO.
104012

FIGURE
3



BA ENVIRONMENTAL

NORTH

0 335 670

Approximate Scale, feet

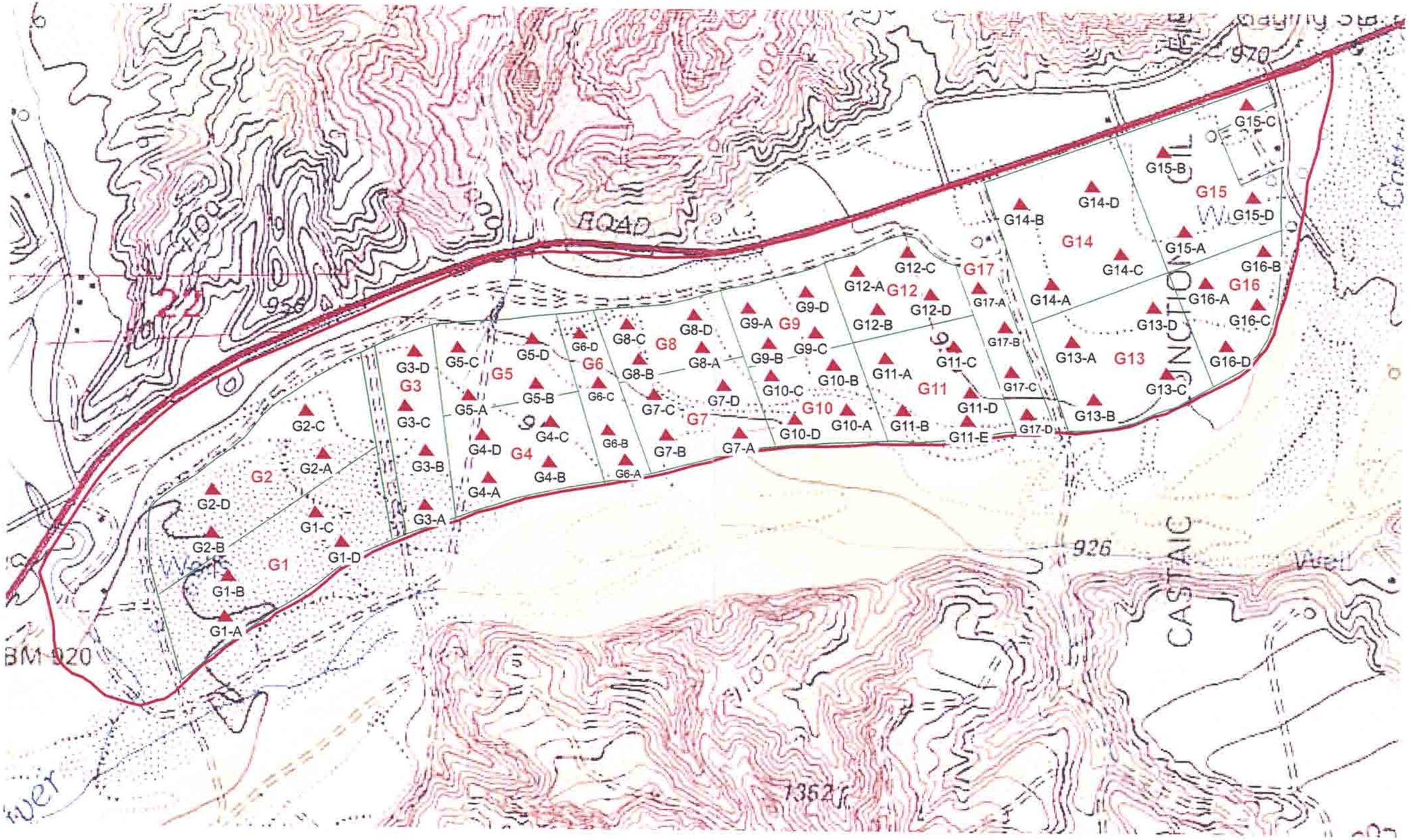
Site Plan

PHASE I ENVIRONMENTAL SITE ASSESSMENT
Development Map

PROJECT: **River Village**
Tentative Tract Map No. 53108, Highway 126
Newhall Ranch, California

PROJECT NO.
104012

FIGURE
4



Site Plan

Legend

= Limits of Subject Property

= Grid Boundary

G1 = Grid Designation

▲ G1-A = Soil Sample Location and Designation

BA ENVIRONMENTAL

NORTH

0 340 680

Approximate Scale, feet

PHASE I ENVIRONMENTAL SITE ASSESSMENT
Soil Sample Locations
PROJECT: **River Village**
Tentative Tract Map No. 53108, Highway 126
Newhall Ranch, California

PROJECT NO. **104012**

FIGURE **5**

TABLES

Table 1
Soil Sample Analytical Results
OCP, OPP and Herbicides
Tentative Tract Map No. 53108
Newhall Ranch, California

Sample No.	Date	Depth bgs	OCP											OPPs (mg/kg)	CH (mg/kg)
			alpha-Chlordane (mg/kg)	gamma-Chlordane (mg/kg)	4,4-DDD (mg/kg)	4,4-DDE (mg/kg)	4,4-DDT (mg/kg)	Dieldren (mg/kg)	Endosulfan I (mg/kg)	Endosulfan II (mg/kg)	Endrin (mg/kg)	Endosulfan Sulfate (mg/kg)	Heptachlor Epoxide (mg/kg)		
G1-A,B,C,D	1-29-04	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
G2-A,B,C,D	1-29-04	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
G3-A,B,C,D	1-29-04	1.5	ND	**0.001**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
G4-A,B,C,D	1-29-04	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
G5-A,B,C,D	1-29-04	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
G6-A,B,C,D	1-29-04	1.5	ND	ND	ND	ND	ND	**0.002**	ND	ND	ND	ND	ND	ND	ND
G7-A,B,C,D	1-29-04	1.5	ND	ND	ND	ND	**0.002**	ND	ND	ND	ND	ND	ND	ND	ND
G8-A,B,C,D	1-29-04	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
G9-A,B,C,D	2-4-04	1.5	ND	ND	ND	ND	ND	ND	ND	ND	**0.001**	ND	ND	ND	ND
G10-A,B,C,D	2-4-04	1.5	ND	ND	ND	ND	ND	ND	ND	ND	**0.001**	ND	ND	ND	ND
G11-A,B,C,D,E	2-4-04	1.5	**0.012**	**0.017**	ND	**0.008**	**0.014**	ND	ND	**0.018**	**0.061**	ND	ND	ND	ND
G12-A,B,C,D	2-4-04	1.5	ND	ND	ND	ND	**0.022**	ND	ND	ND	**0.029**	ND	ND	ND	ND
G13-A,B,C,D	2-2-04	1.5	**0.001**	**0.004**	**0.001**	**0.026**	**0.006**	ND	ND	ND	**0.061**	ND	**0.001**	ND	ND
G14-A,B,C,D	2-2-04	1.5	**0.002**	**0.015**	**0.001**	**0.007**	**0.015**	**0.003**	**0.001**	ND	**0.082**	**0.005**	ND	ND	ND
G15-A,B,C,D	2-2-04	1.5	**0.003**	**0.004**	**0.001**	**0.034**	**0.007**	ND	ND	ND	**0.055**	ND	ND	ND	ND
G16-A,B,C,D	2-2-04	1.5	ND	ND	ND	**0.002**	**0.003**	ND	ND	ND	**0.004**	ND	ND	ND	ND
G17-A,B,C,D	2-4-04	1.5	**0.018**	**0.027**	ND	**0.012**	**0.023**	ND	ND	**0.034**	**0.136**	ND	ND	ND	ND
PRGs Residential			1.6 ca*	1.6 ca*	2.4 ca	1.7 ca	1.7 ca*	0.03 ca	370 nc	370 nc	18 nc	NA	0.053 ca*	NA	NA
PRGs Industrial			6.5 ca*	6.5 ca*	10 ca	7.0 ca	7.0 ca*	0.11 ca	3700 nc	3700 nc	180 nc	NA	0.19 ca*	NA	NA
Detection Limits (mg/kg)			**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.02-3.35**	**0.020-20.0**

Notes:

CH – Chlorinated Herbicides
OCP - Organochlorine Pesticides
OPP - Organophosphorous Pesticides
PRG - Primary Remediation Goal
ND – None detected above detection limits.
NA - Not applicable
MCL – Maximum Contaminant level
bgs - below ground surface
ca – Cancer PRG
ca* - Cancer PRG (where :nc<100x ca)
nc – Non-cancer PRG

- Concentrations are reported in milligrams per kilogram (mg/kg) which is equivalent to parts per million (ppm).
- Concentrations are reported in micrograms per liter (µg/l) which is equivalent to parts per billion (ppb).
- Analyses for OCP were performed in accordance with the Environmental Protection Agency (EPA) Method No. 8081.
- Analyses for OPP were performed in accordance with the EPA Method No. 8141.
- Analyses for CH were performed in accordance with the EPA Method No. 8151.

APPENDICES

APPENDIX A:

Site Photographs

1

1. View of subject property looking east.

2

2. View of subject property looking west.

3

3. Santa Clara River along southern property boundary.

4

4. Pipeline easement along old railroad tracks,
along northern property boundary.

5

5. Booster station along pipeline easement, northern property boundary.

6

6. Close-up of booster station.

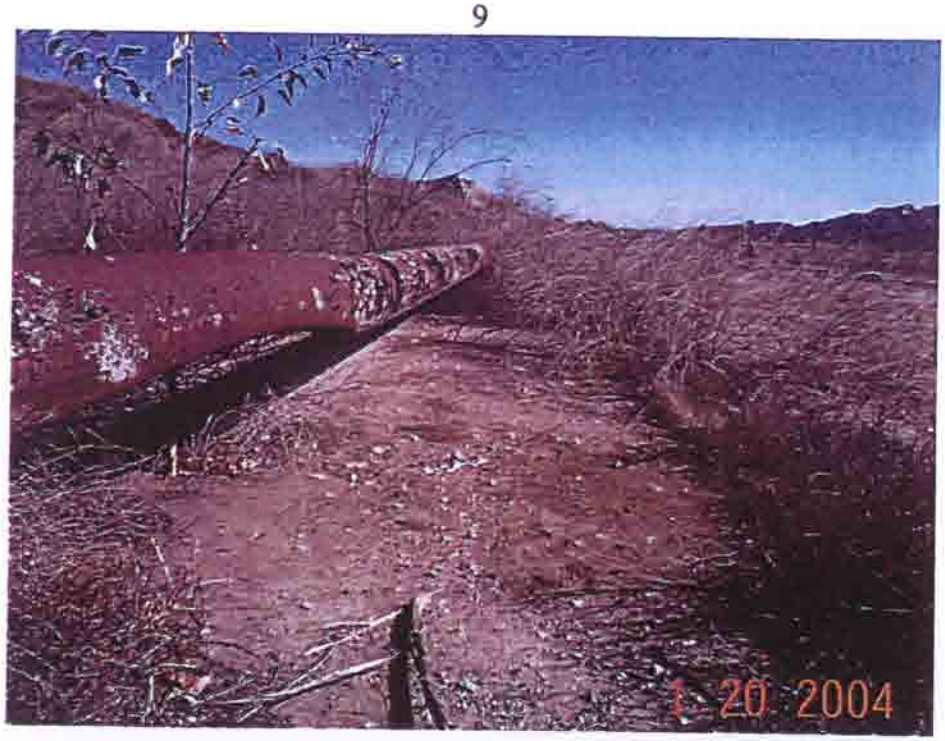
7

7. Access vault for Shell Oil pipeline.

8

8. Vent pipe for oil pipeline.

9



9. Exposed, abandoned oil pipeline. Note oil staining beneath pipe.

10

10. Construction debris in old railroad easement, possible asbestos-containing.

11

11. Construction debris in old railroad easement.

12

12. Trash along bottom slope of old railroad easement.

13

13. Metal debris in debris pile along northern property boundary.

14

14. Transite pipe in debris pile along northern property boundary.

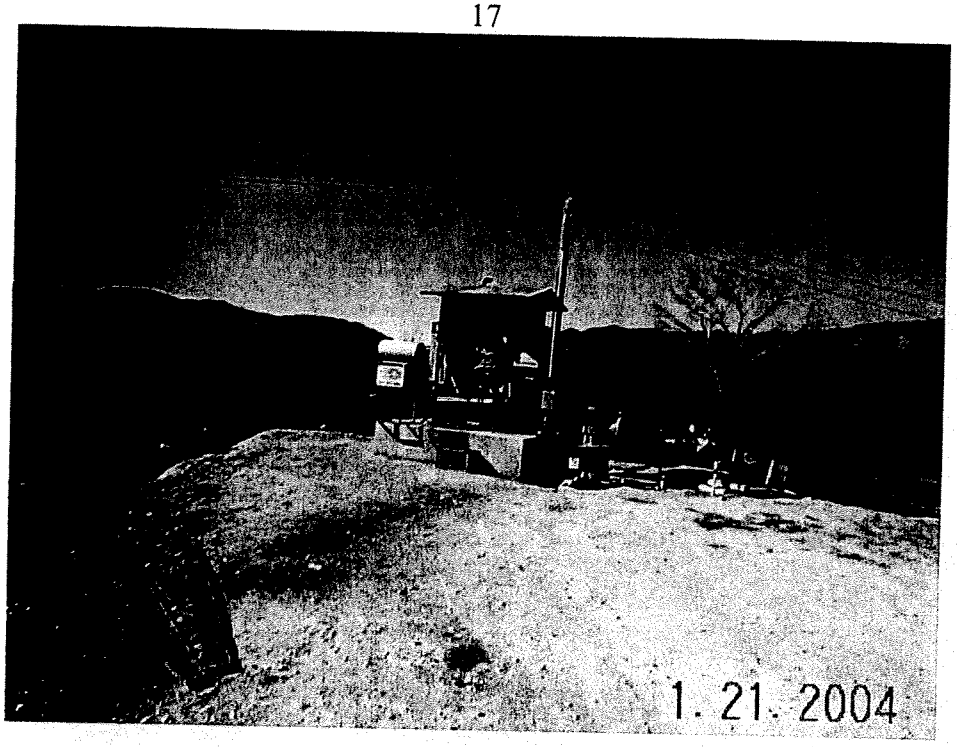
15

15. Asphalt debris pile along northern property boundary.

16

16. Southern California Gas pipeline in western portion of subject property.

17

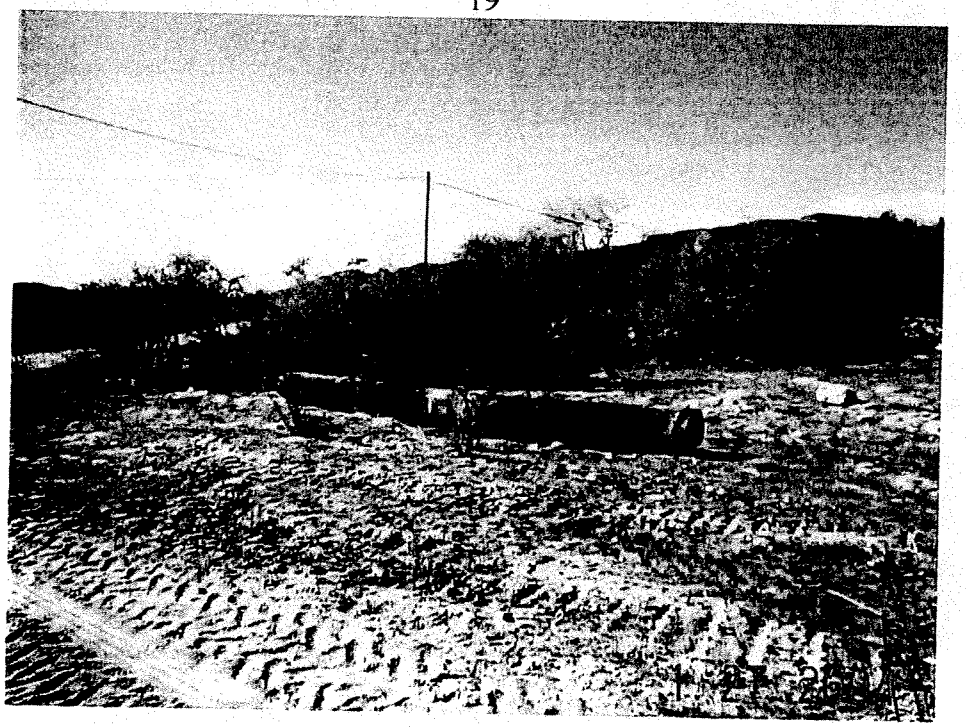


17. Water well in western portion of subject property.

18

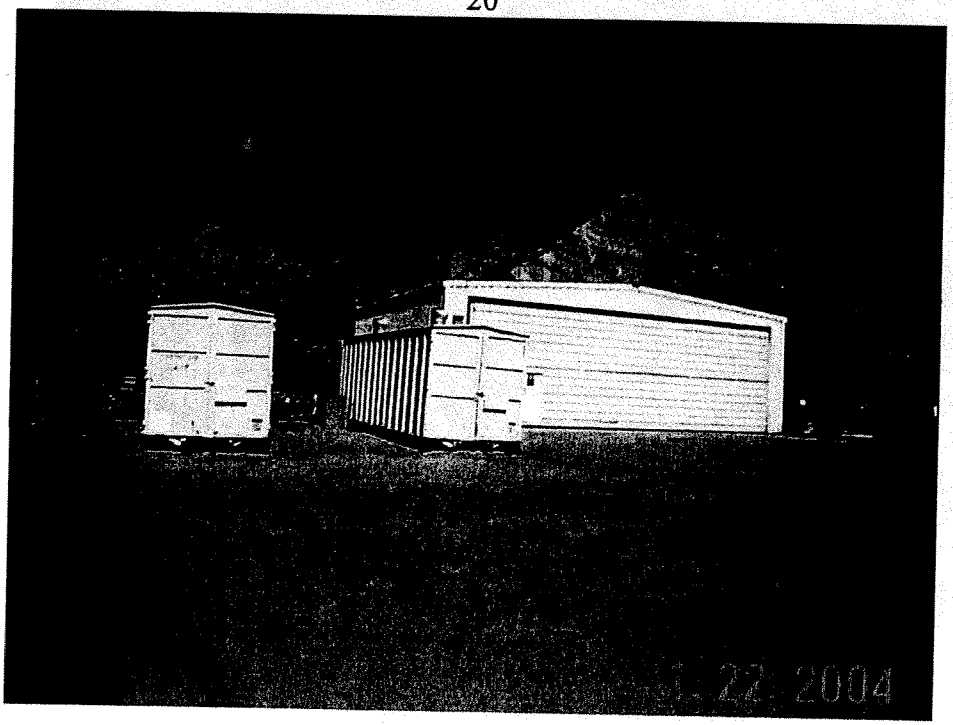
18. Wood debris in central portion of subject property.

19



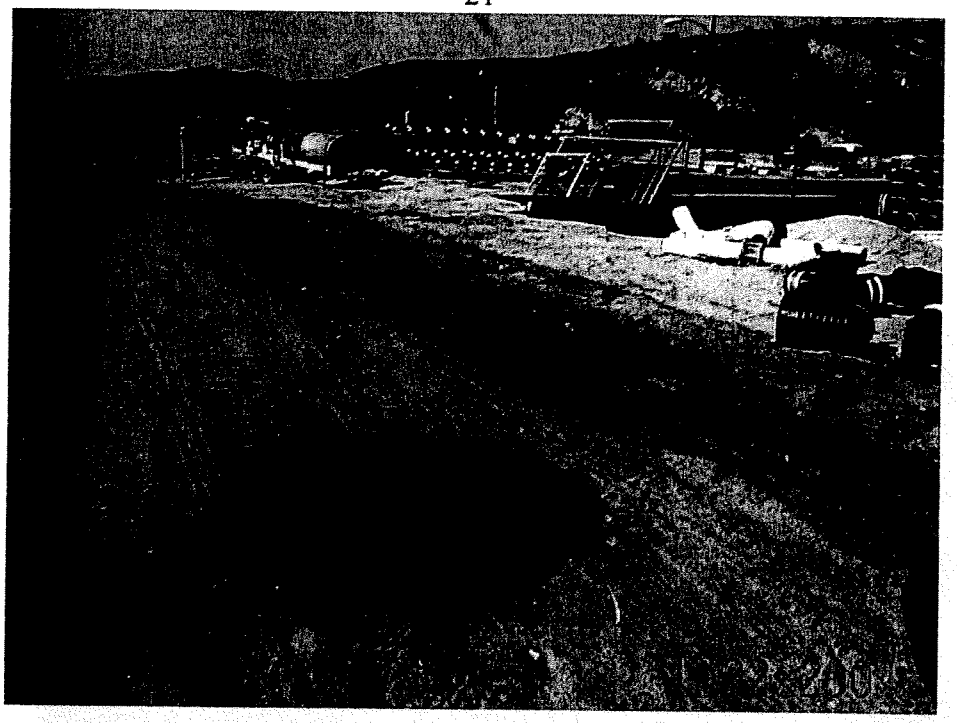
19. Section of abandoned pipe with suspect asbestos-containing tar wrap.

20



20. Old hangar building and cargo containers at storage area near Wolcott Way.

21



21. Oil staining around equipment storage yard, near Wolcott Way.

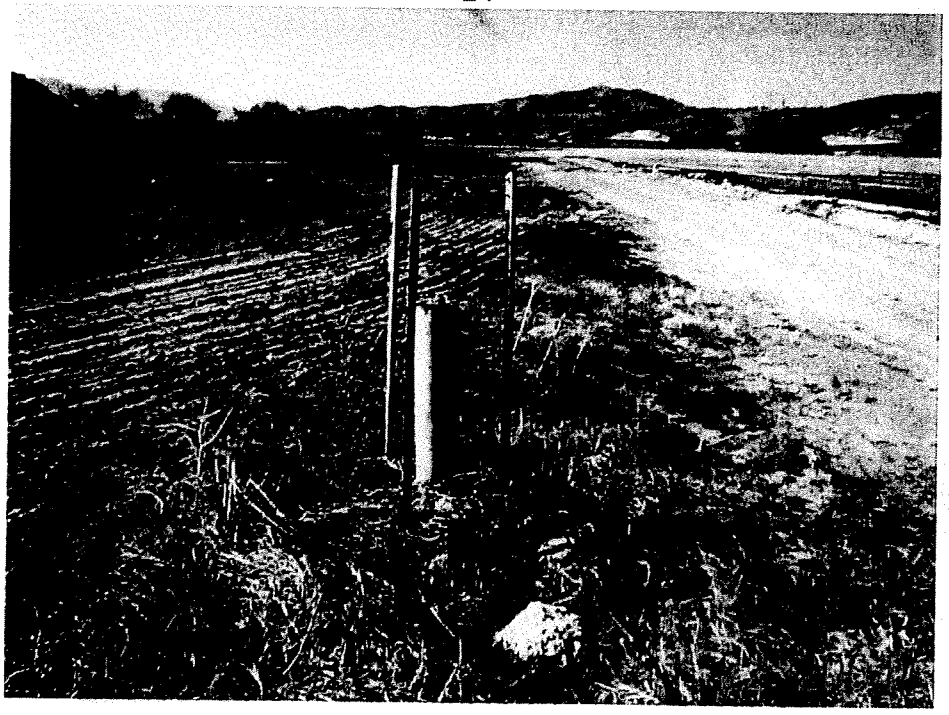
22

22. 55-gallon drum at storage area.

23

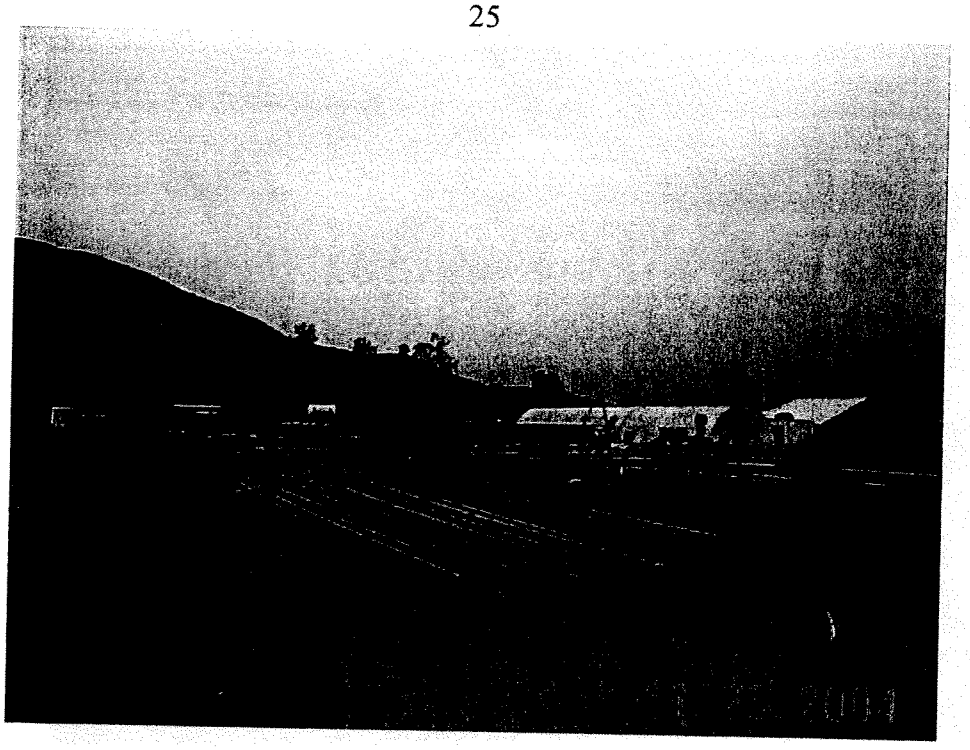
23. Oil staining within fence at equipment storage area at Wolcott Way.

24



24. Piezometer in south-central portion of subject property.

25

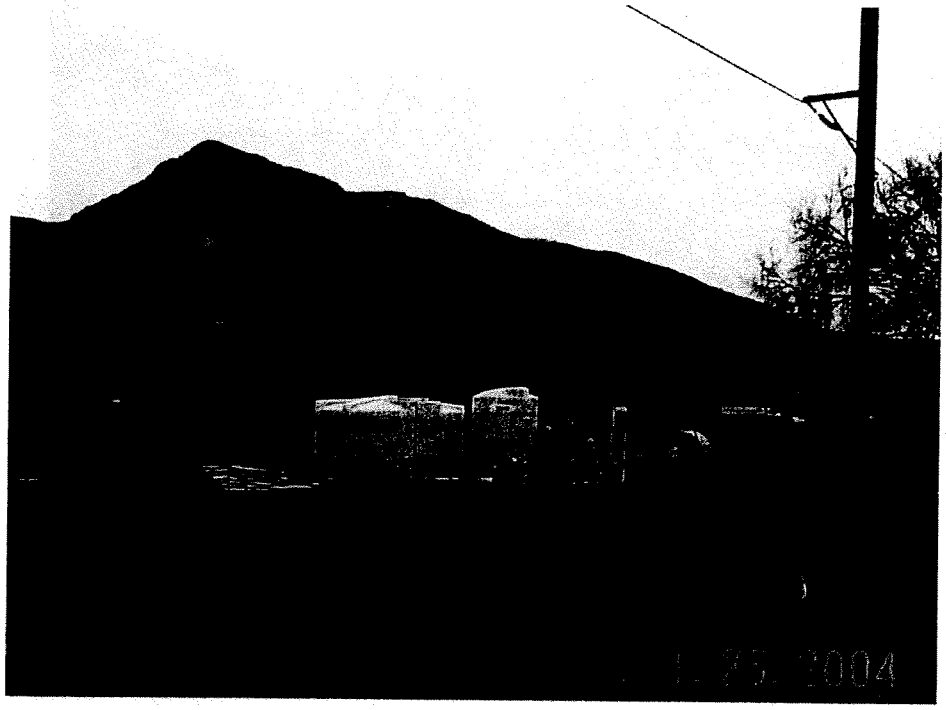


25. Equipment storage area in eastern portion of subject property.

26

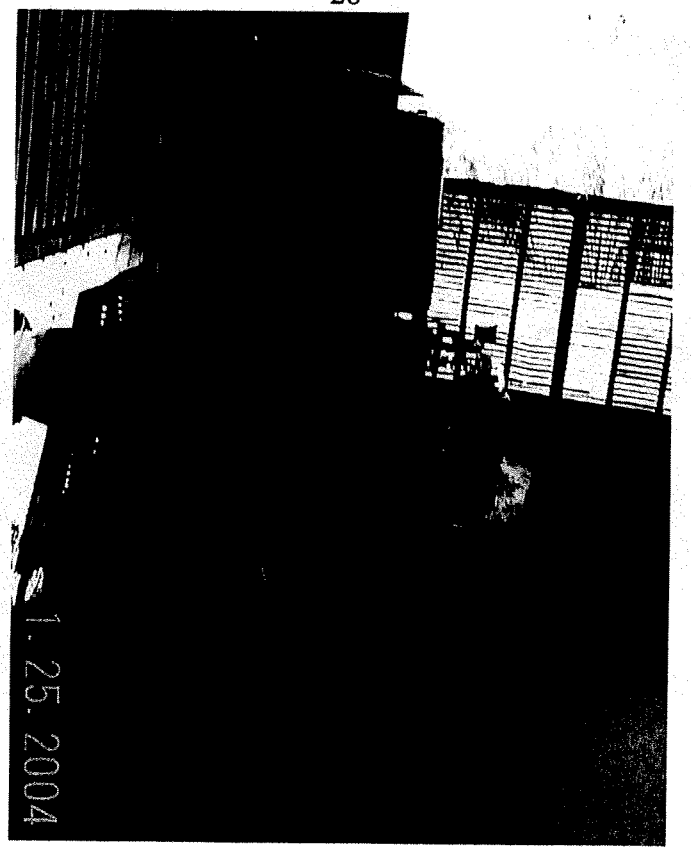
26. Buildings associated with equipment storage area in eastern portion of subject property.

27



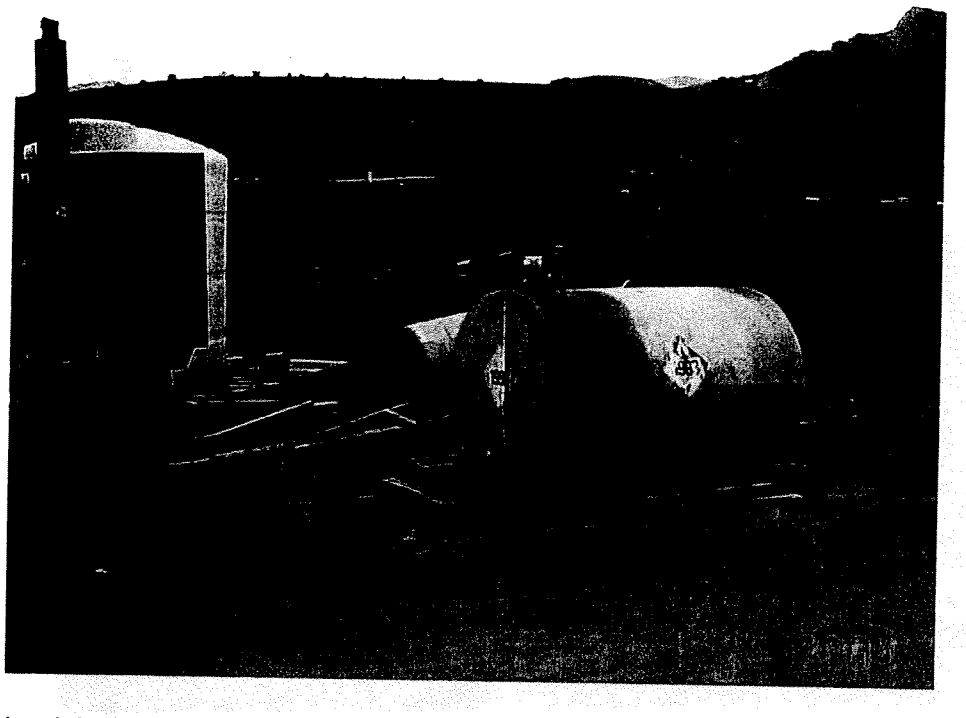
27. Agricultural ASTs in eastern portion of subject property.

28



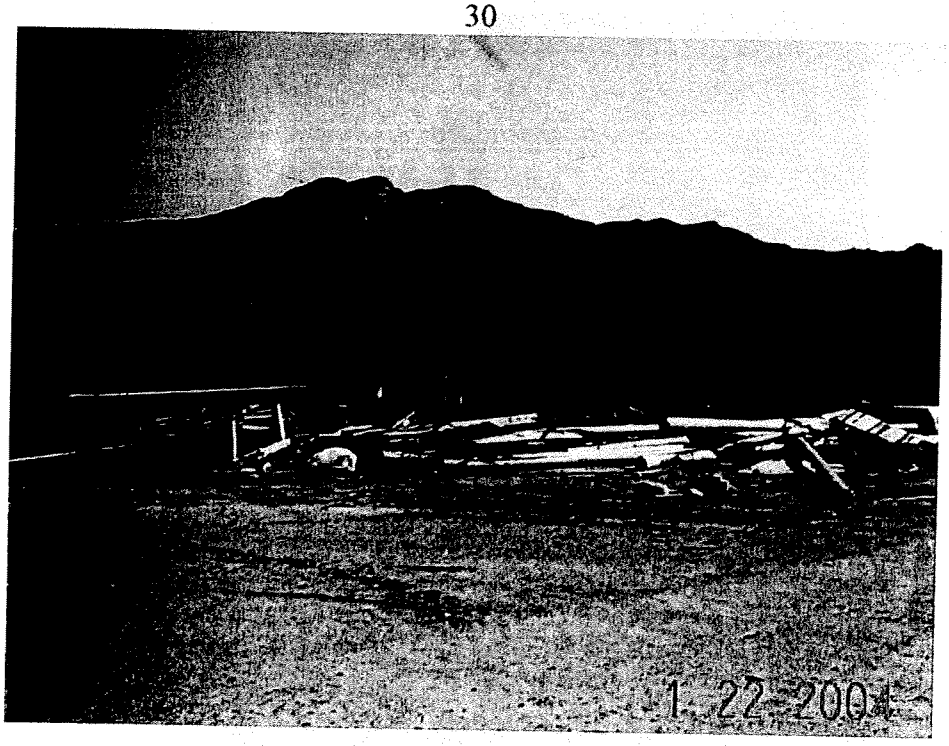
28. Water well in eastern portion of subject property.

29



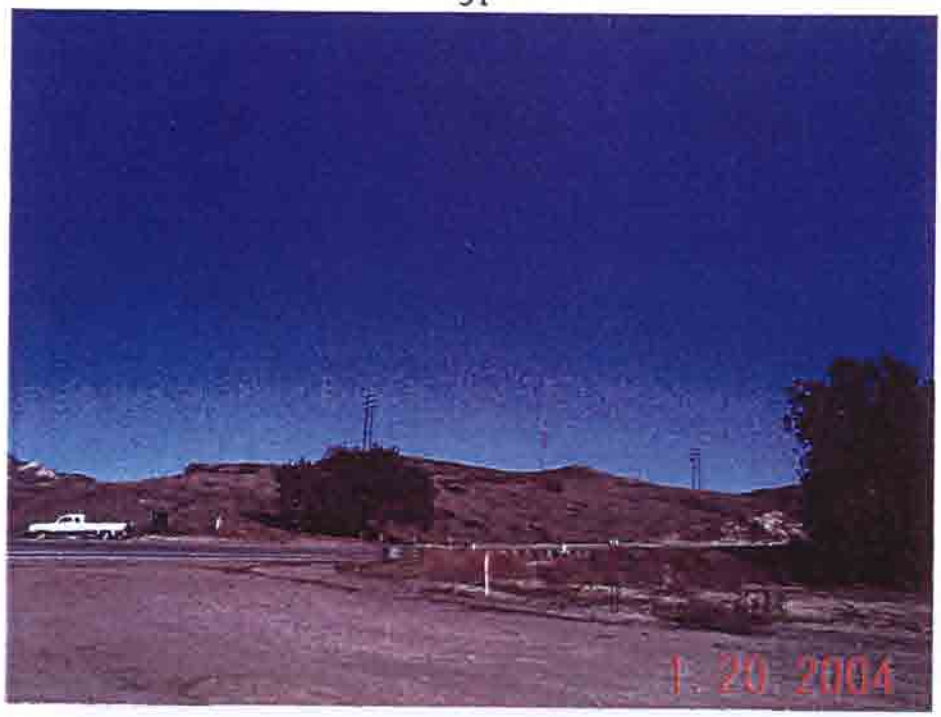
29. Diesel fuel AST associated with portable water pump located in eastern portion of subject property. Note diesel fuel staining.

30



30. Debris is eastern portion of subject property near river.

31



31. View of Borrow Site "A."

32

32. Borrow Site "A."

33

33. Former oil drilling platform located in Borrow Site "A."

34

34. Possible oil well location in Borrow Site "A."

35

35. Oil staining on soil at possible oil well location in Borrow Site "A."

36

36. Borrow Site "B."

37

37. Looking west across Borrow Site "B."

38

38. Location of possible oil well in Borrow Site "B."

39

39. Location of former oil well in Borrow Site "B."

40

40. Close-up of former oil well in Borrow Site "B."

APPENDIX B:

Historic Aerial Photographs

Inquiry : 1063369.8 Year : 1928 Flyer : Fairchild Scale : 1"=500'

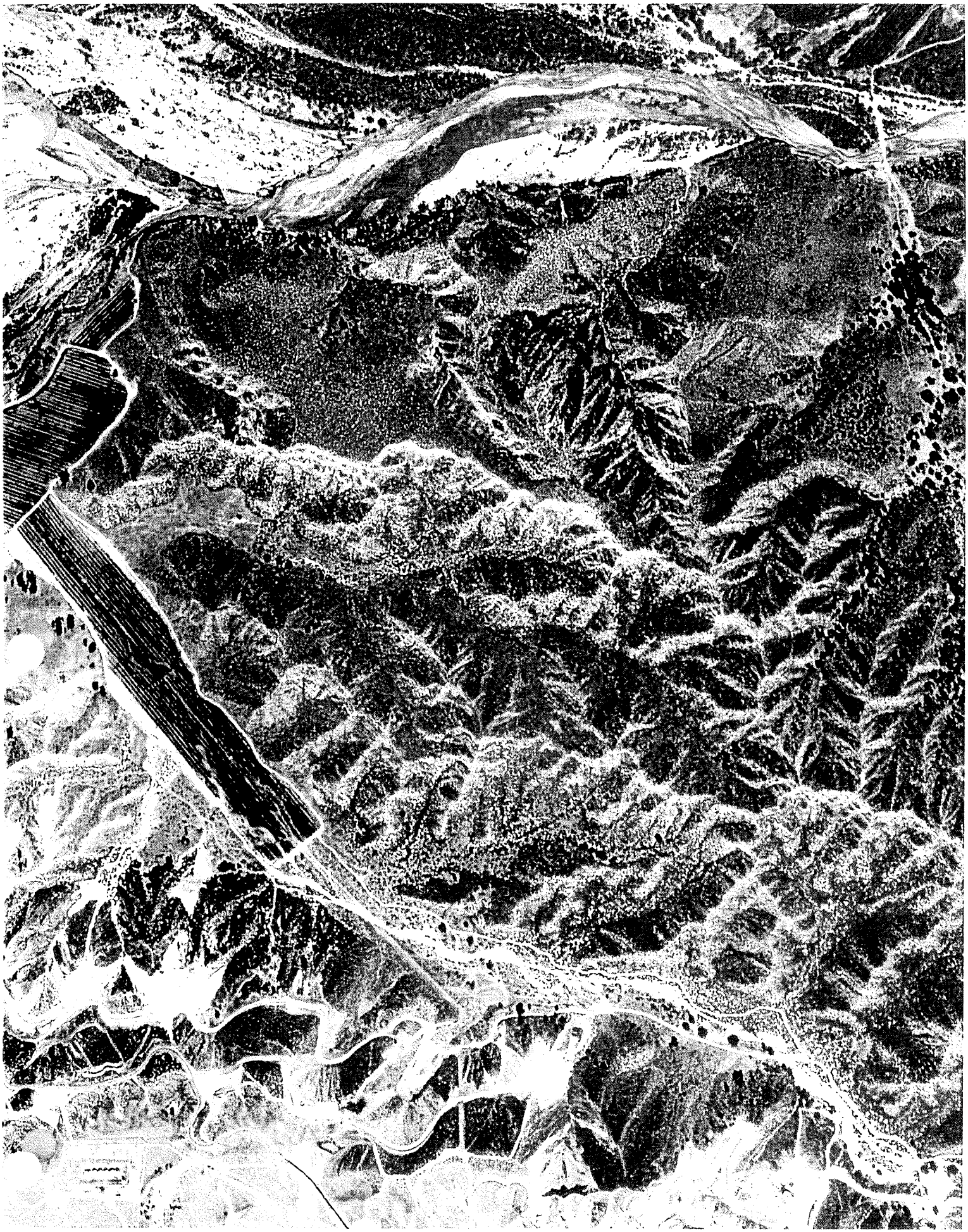
Inquiry : 1108642. Year : 1928 Flyer : Fairchild Scale : 1"=500'

Inquiry : 1108642.9 Year : 1928 Flyer : Fairchild Scale : 1"=500'

Inquiry : 1108642. Year : 1947 Flyer : Tubis Scale : 1"=666'

Inquiry : 1063369.8 Year : 1947 Flyer : Tubis Scale : 1"=666'

Inquiry : 1108642.9 Year : 1947 Flyer : Tubis Scale : 1"=666'



Inquiry : 1108642. Year : 1947 Flyer : Tubis Scale : 1"=666'

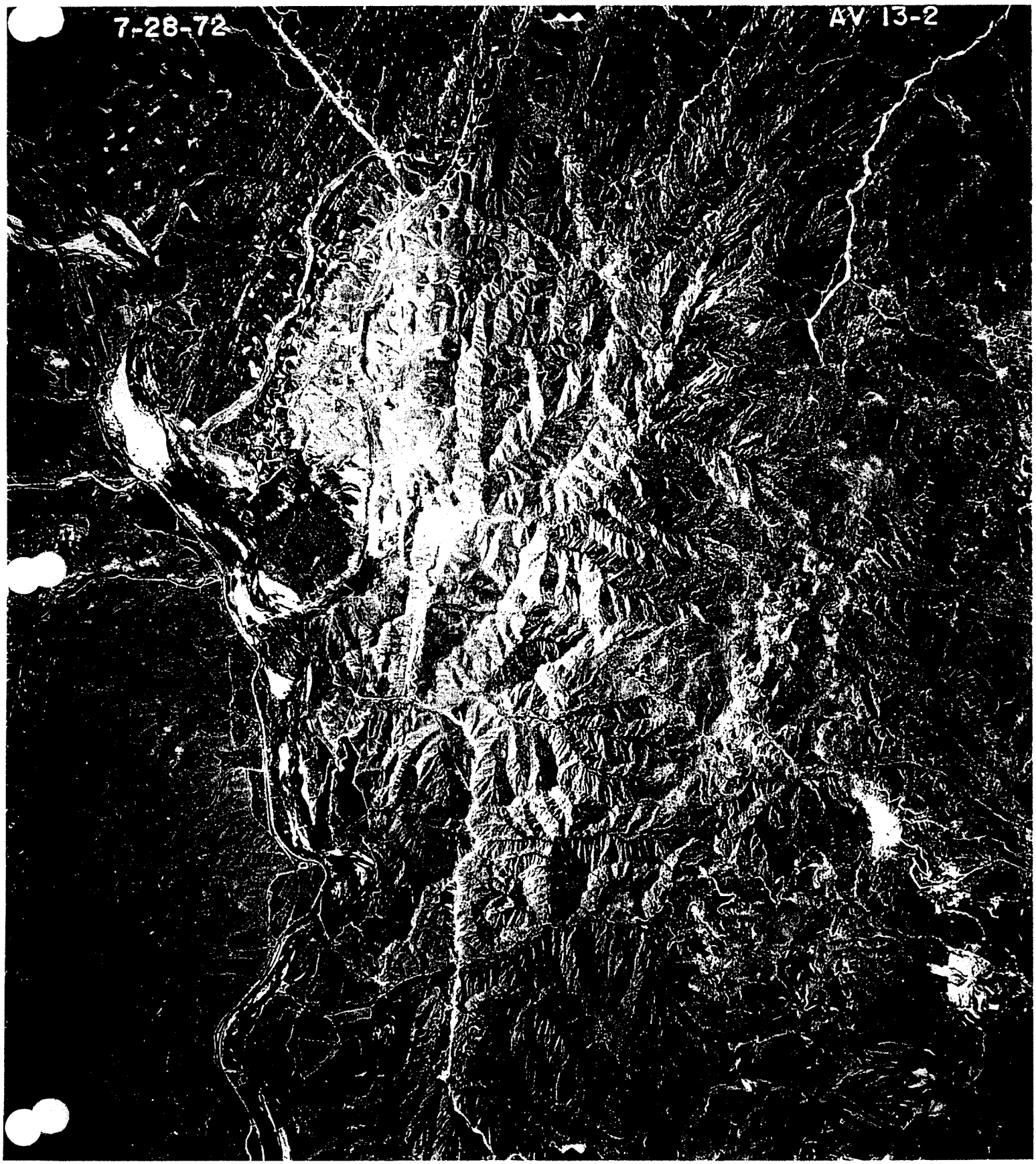
Inquiry : 1108642. Year : 1952 Flyer : Pacific Air Scale : 1"=555'

Inquiry : 1108642.9 Year : 1952 Flyer : Pacific Air Scale : 1"=555'

Inquiry : 1108642. Year : 1952 Flyer : Pacific Air Scale : 1"=555'

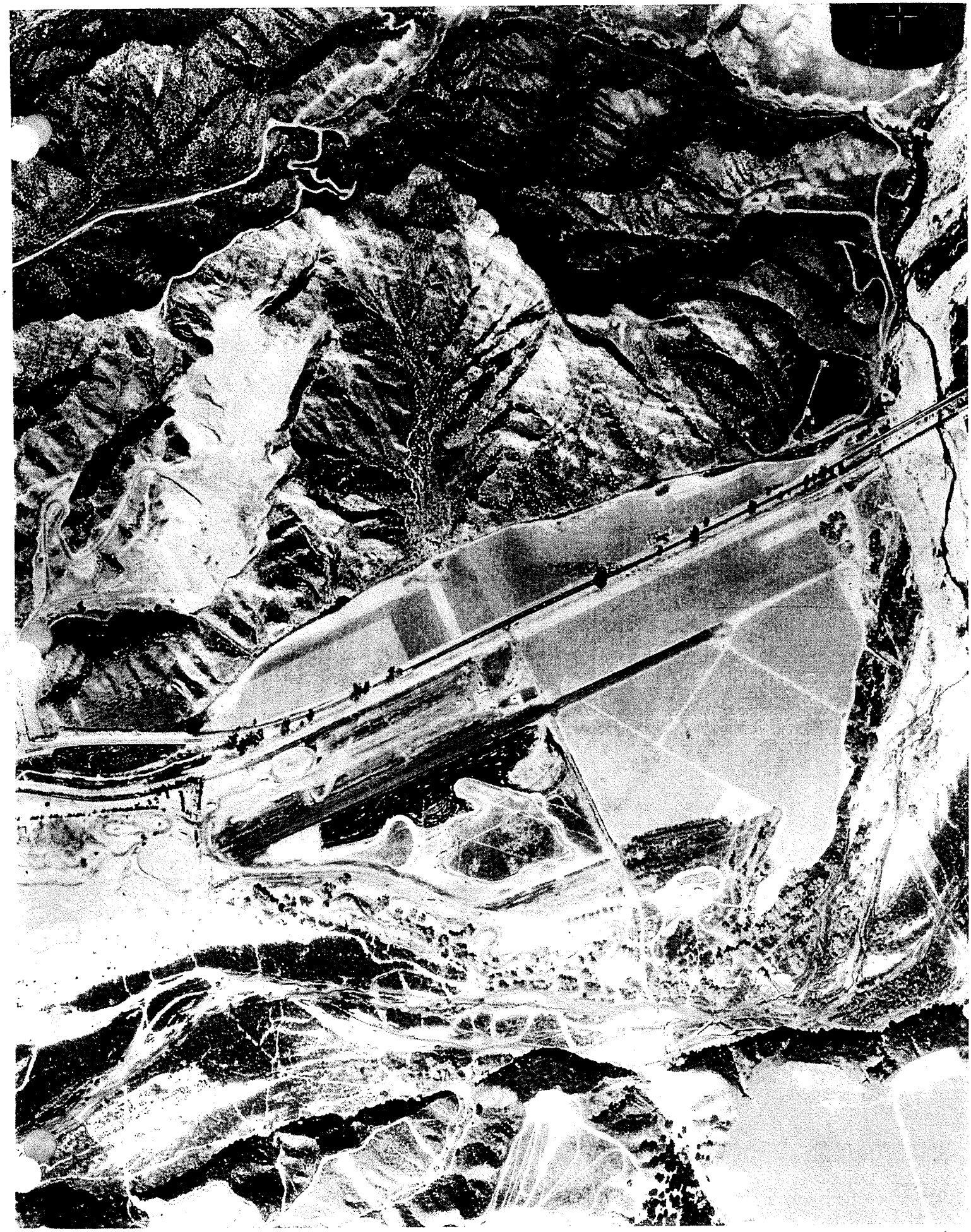
Inquiry : 1108642. Year : 1968 Flyer : Teledyne Scale : 1"=666'

Inquiry : 1108642.9 Year : 1968 Flyer : Teledyne Scale : 1"=666'


7-28-72
AV 13-2

Inquiry : 1108642. Year : 1976 Flyer : Teledyne Scale : 1"=666'

Inquiry : 1063369.8 Year : 1976 Flyer : Teledyne Scale : 1"=666'



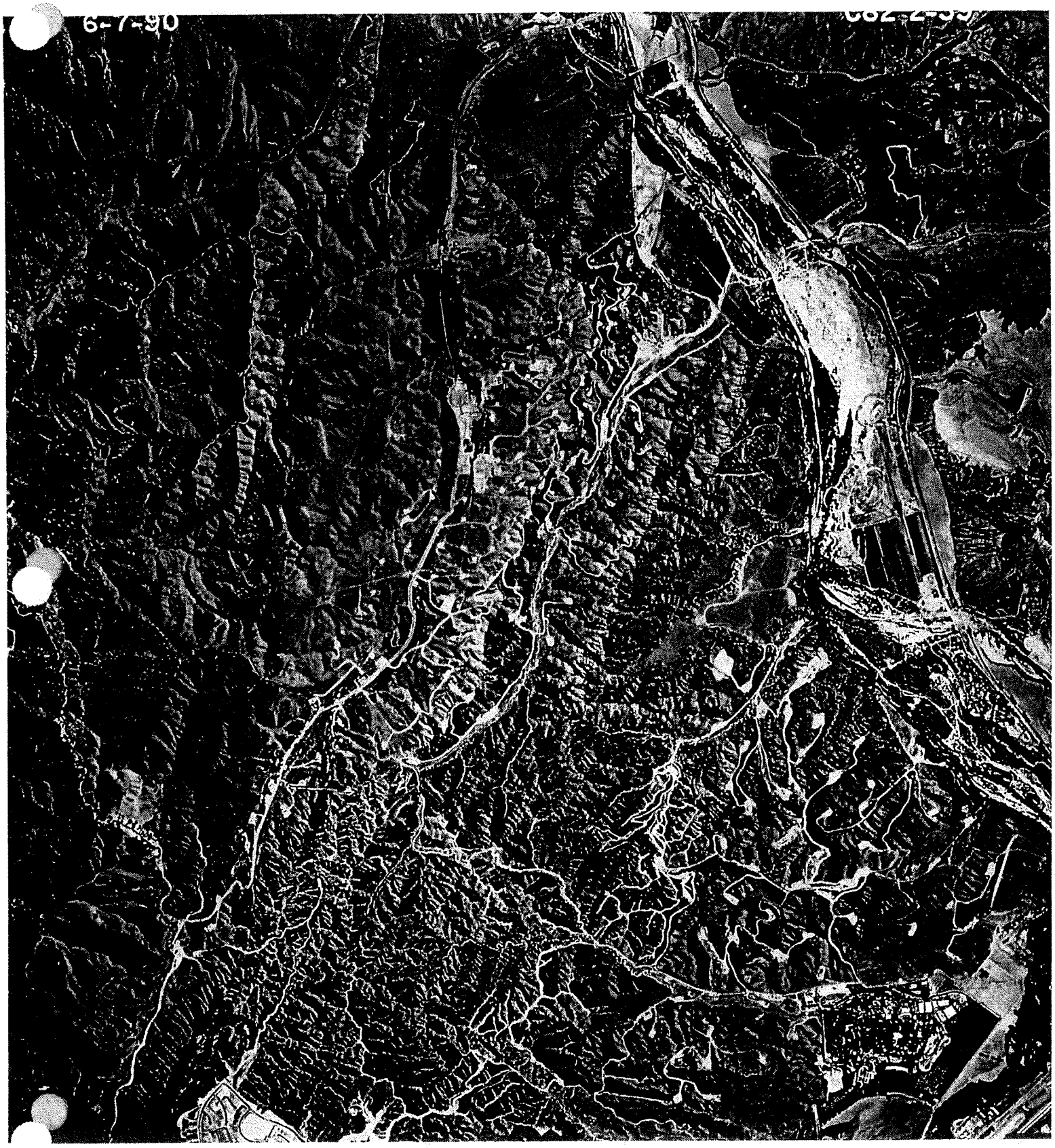
Inquiry : 1108642.9 Year : 1976 Flyer : Teledyne Scale : 1"=666'


470


8
N
VEN 3-22

ıquiry : 1108642. Year : 1989 Flyer : USGS Scale : 1"=666'

Inquiry : 1108642.9 Year : 1989 Flyer : USGS Scale : 1"=666'




5-9-93
1"=2000'
C87-31-126

Enviro - Chem, Inc.
1215 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02/04
DATE ANALYZED: 02/03-04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G1-A/B/C/D (Composite)**
LAB I.D.: 040130-10,-11,-12,-13 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	ND	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	ND	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Inquiry : 1108642. Year : 1994 Flyer : USGS Scale : 1"=666'

Inquiry : 1063369.8 Year : 1994 Flyer : USGS Scale : 1"=666'

Inquiry : 1108642.9 Year : 1994 Flyer : USGS Scale : 1"=666'

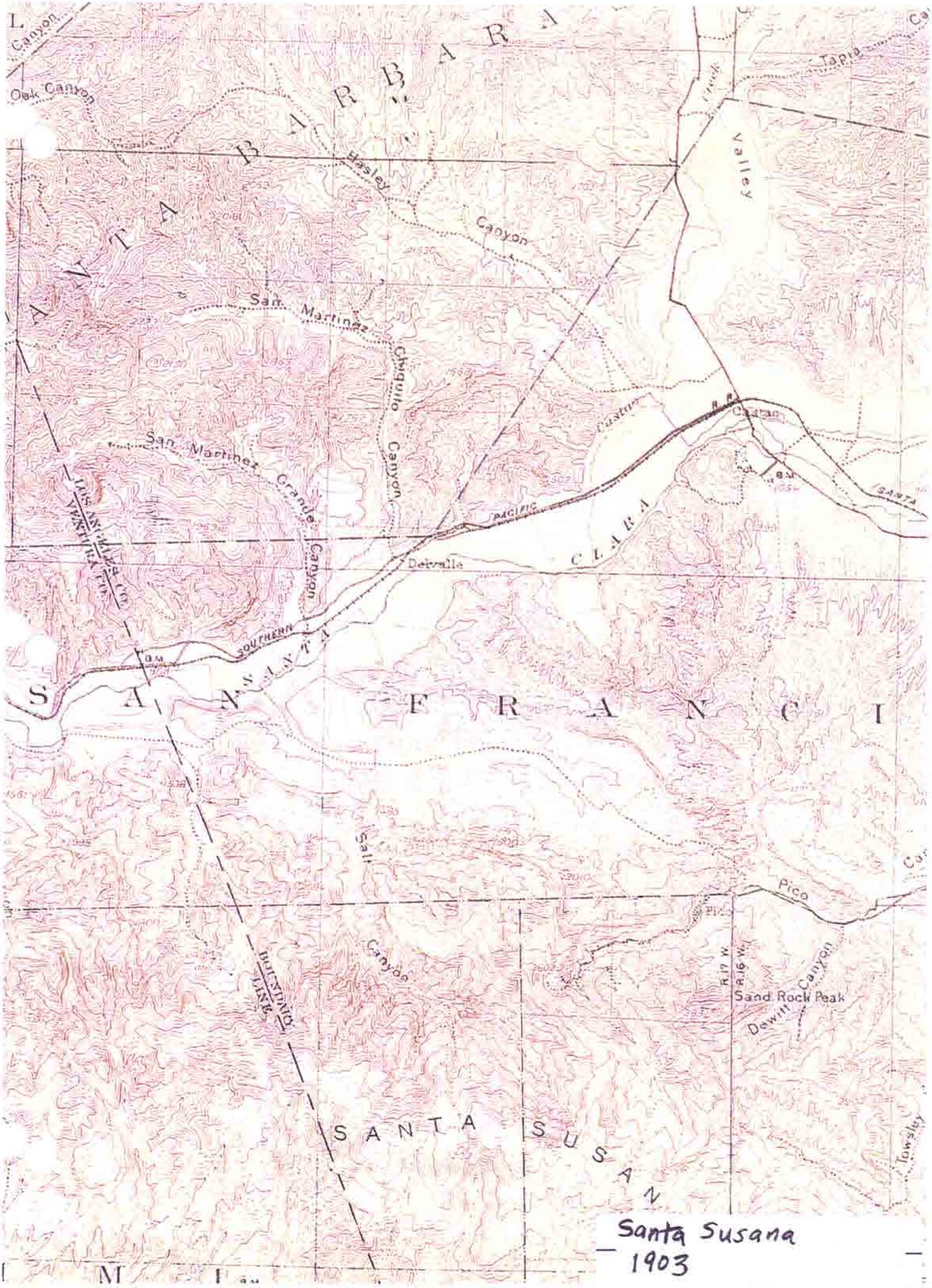
Inquiry : 1108642. Year : 1994 Flyer : USGS Scale : 1"=666'


05-12-95
K-2000
CIII-15-207

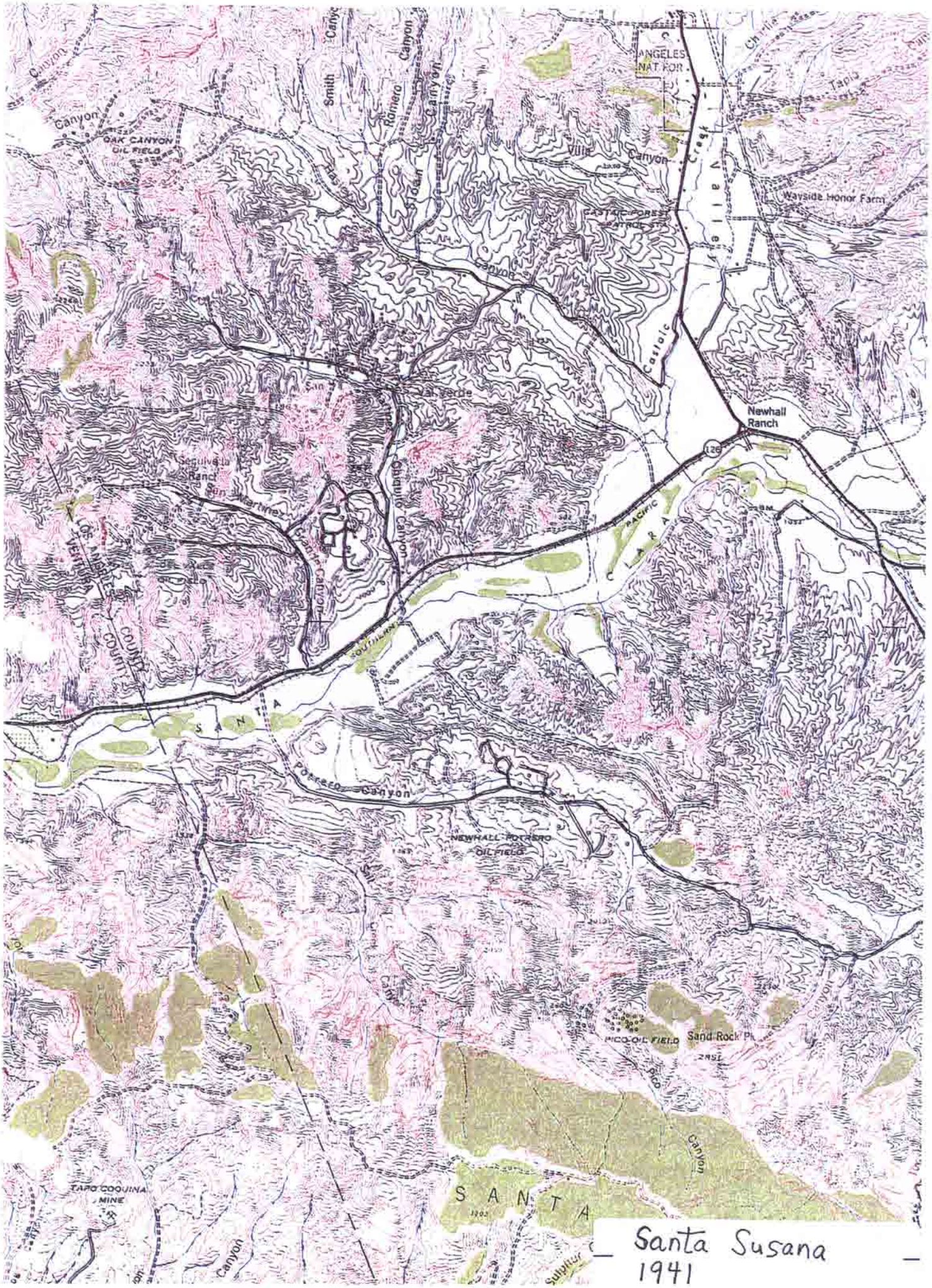

22-99
1"=2000'

APPENDIX C:

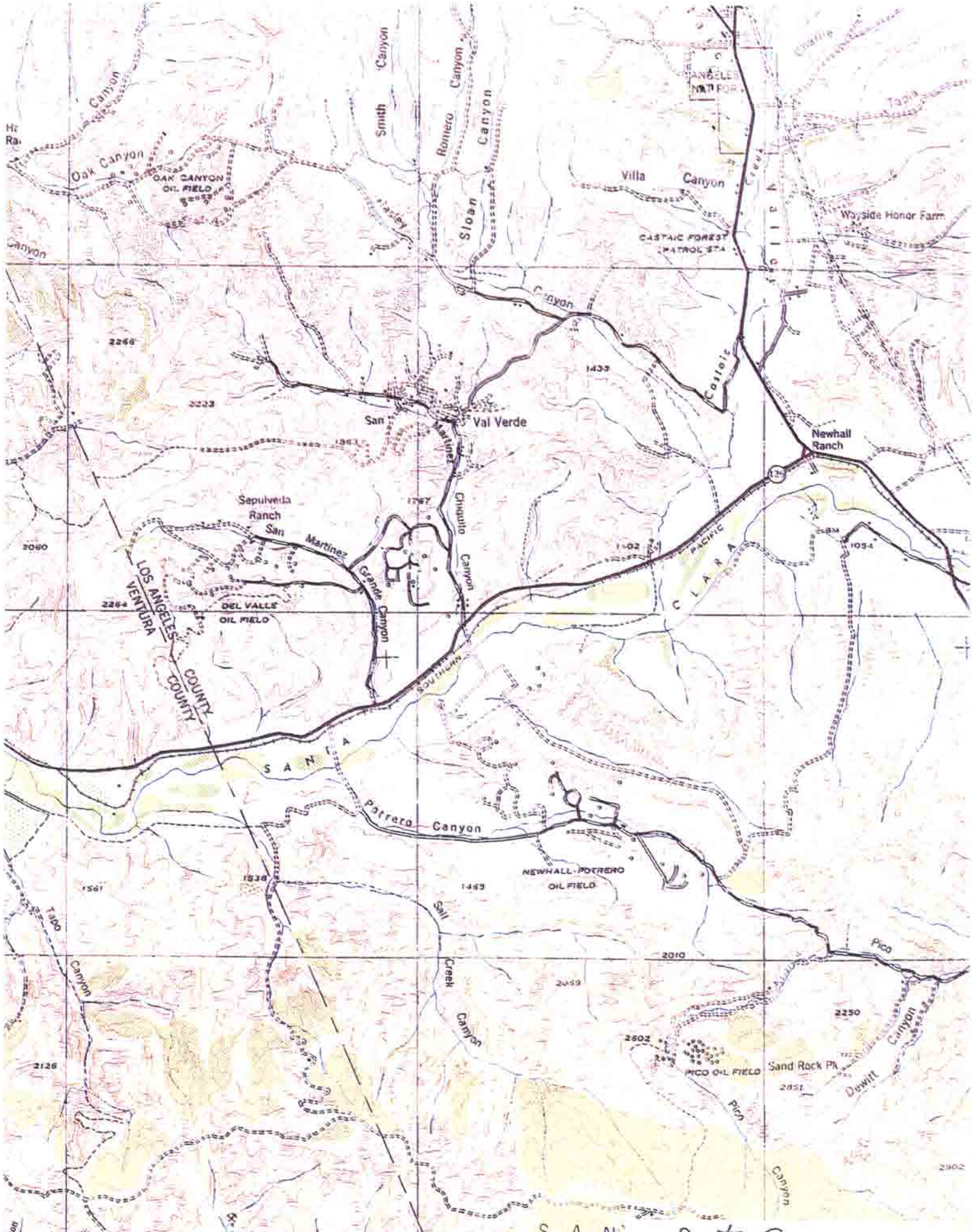
Historic Topographic Maps



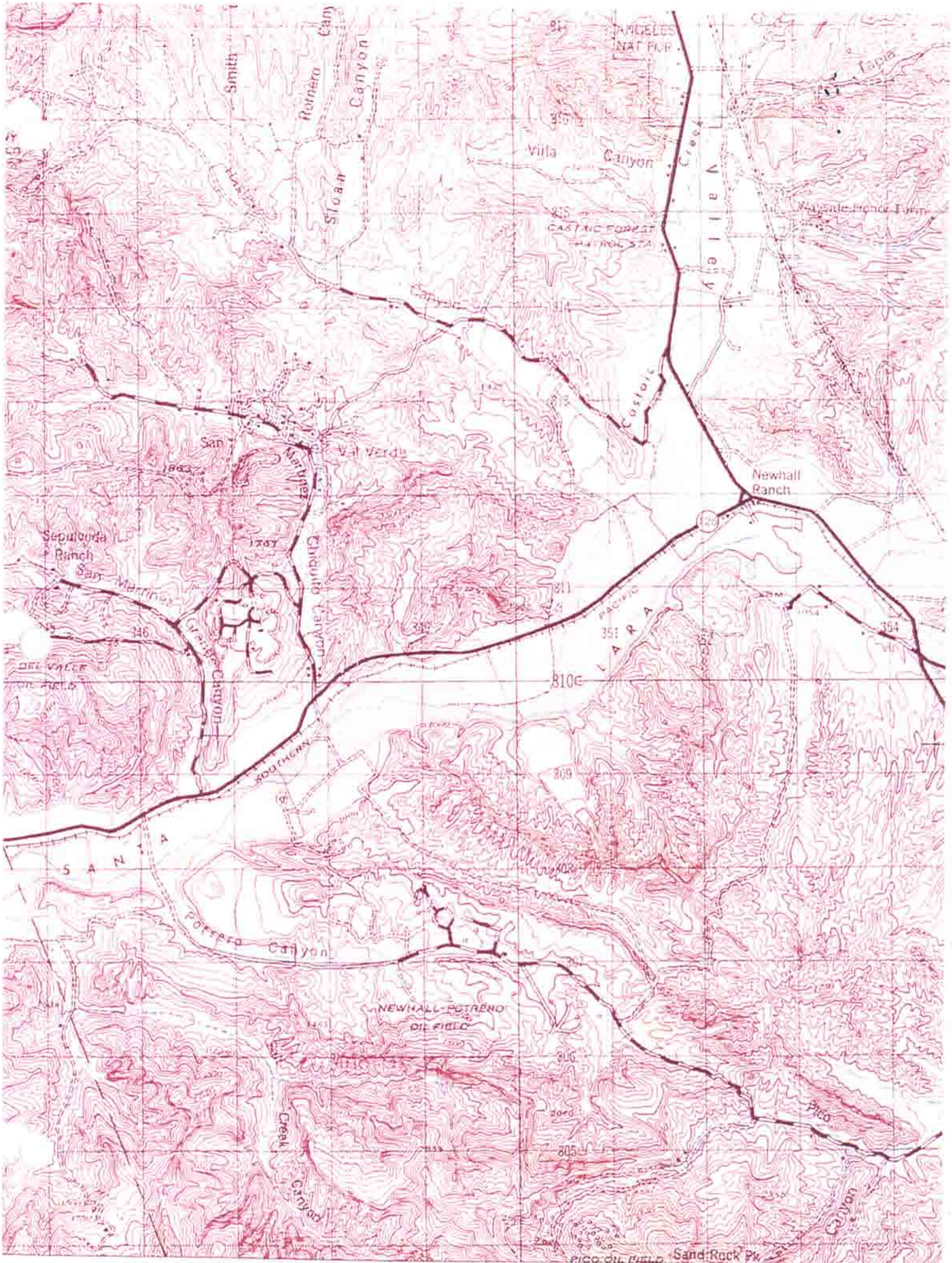
Santa Susana
1903

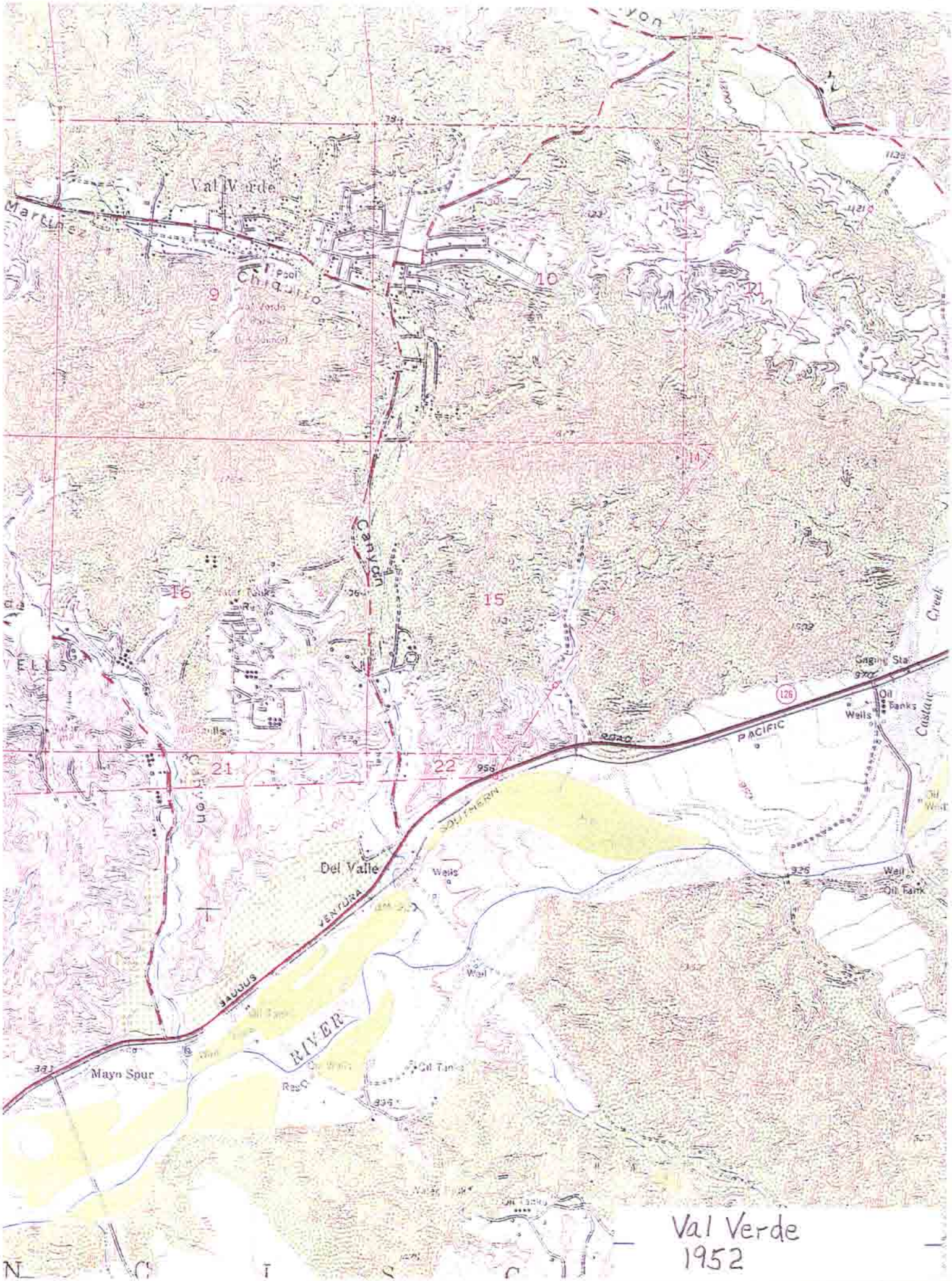


Santa Susana
1941



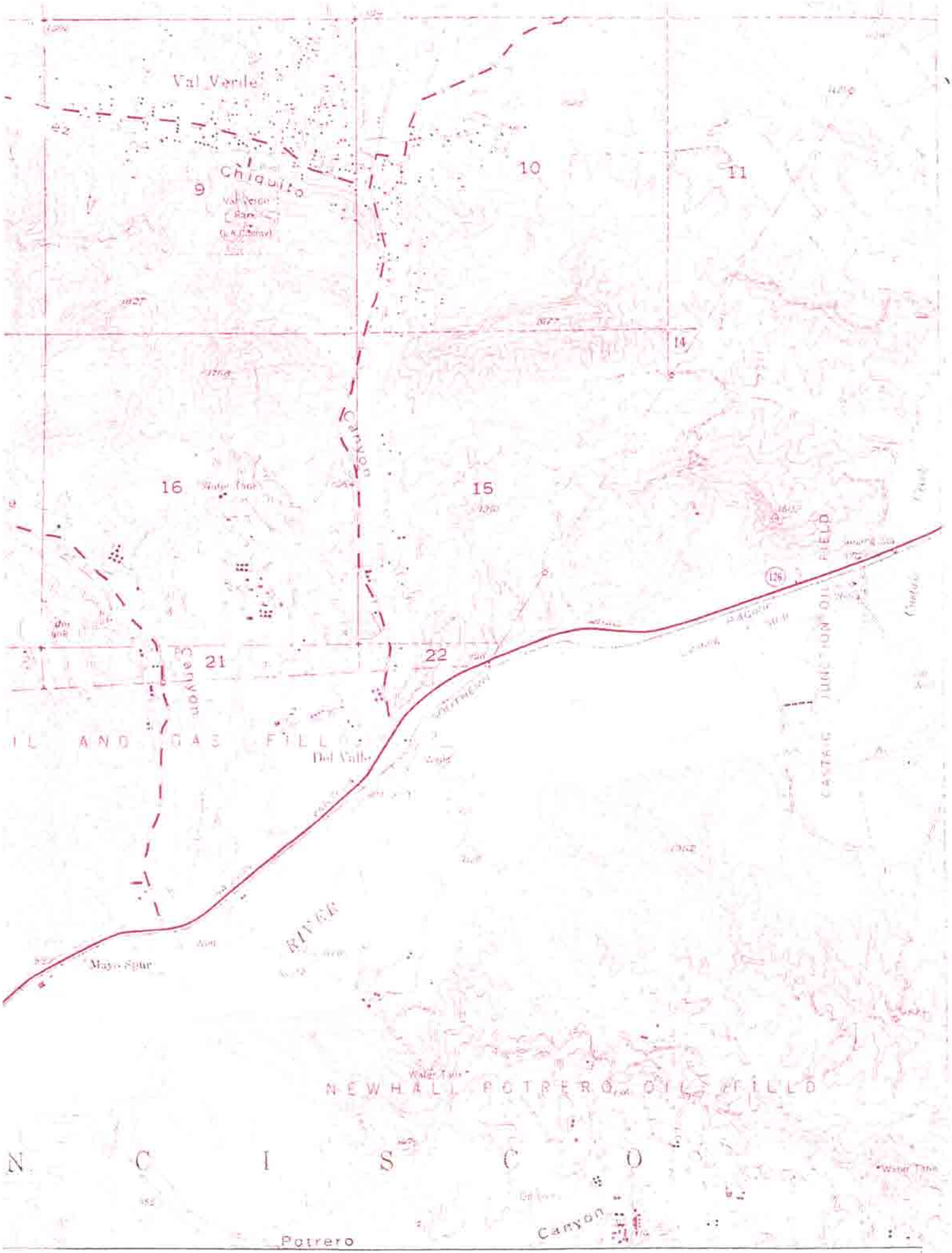
Santa Susana
1943


ANGELES NAT FOR
Smith
Romero
Canyon
Sloan
Villa
Canyon
Castaic Creek
Valley
CASTAIC FOREST PATROL STA
San Martinez
Val Verde
Newhall Ranch
Sepulveda Ranch
Chiquito Canyon
Grapevine Canyon
DEL VALLE OIL FIELD
PACIFIC
SOUTHERN
SANTA CLARA
Potrero Canyon
NEWHALL-POTRERO OIL FIELD
Creek Canyon
Pico
Canyon
PICO OIL FIELD
Sand Rock Pk
Tapia

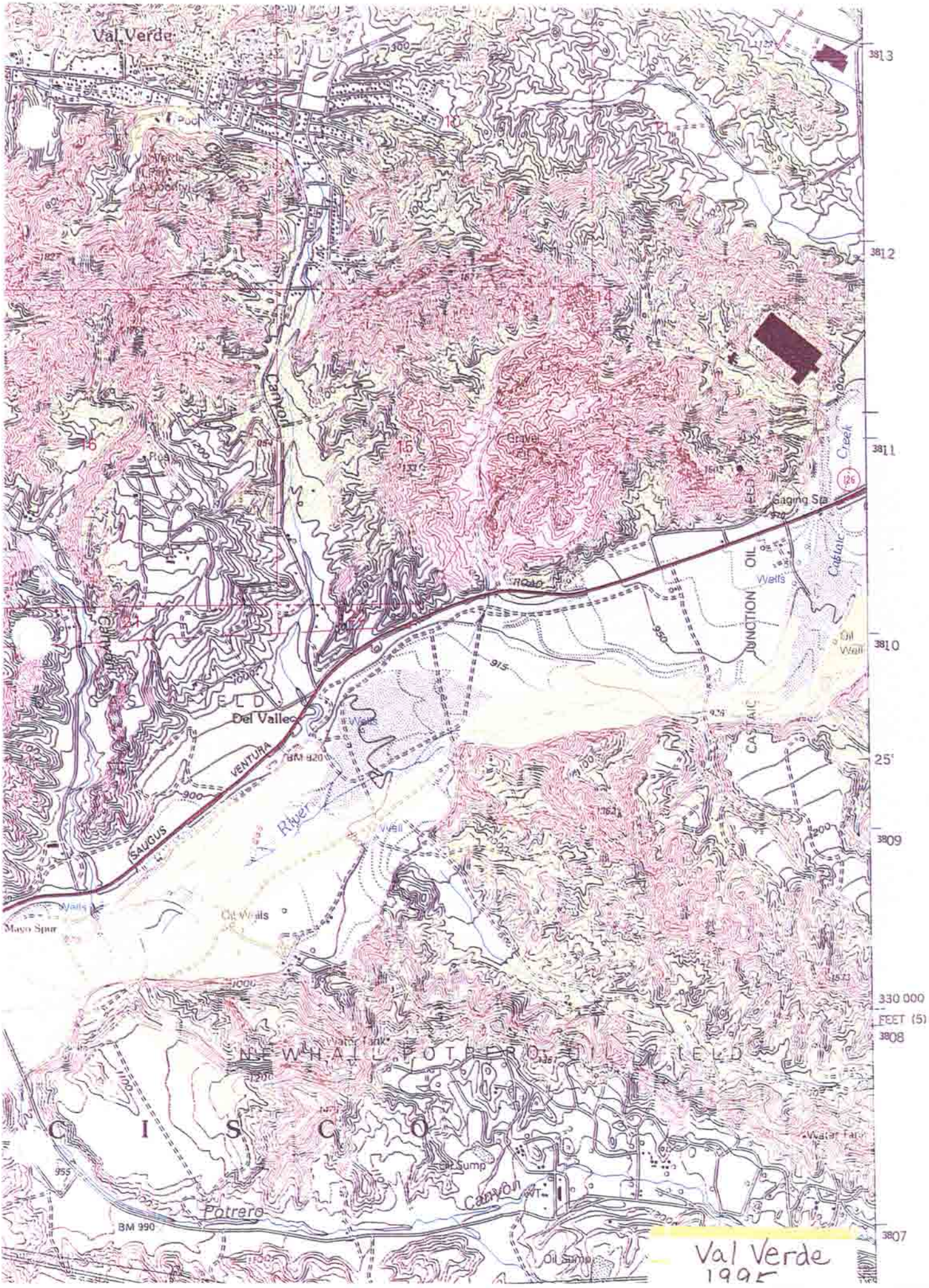


Val Verde
1952

N ^ EDR INQUIRY# 1108642.6 TARGET QUAD: VALVERDE PHOTOREVISED: 1952,1988 Series: 7.5' Scale: 1:24,000


Val Verde
Chiquita
9
10
11
14
16
15
21
22
Del Valle
Mayo Spur
CASTAIC JUNCTION OIL FIELD
NEWHALL POTRERO OIL FIELD
Potrero
Canyon


Val Verde
Pool
Chiquito
Val Verde Park (L.A. County)
Canyon
Res
Gravel Pit
Gaging Sta
Wells
Landing Strip
CASTAIC JUNCTION OIL
Castaic Creek
FIELD
Del Valle
Wells
VENTURA
BM 920
SAUGUS
RIVER
Well
Oil Wells
Mason Spur
Water Tank
NEWHALL POTRERO OIL FIELD
CIENEGA
Oil Sump
Canyon
Potrero
BM 990
WT
Water Tank
Oil Sump
(NEWHALL 2252 I NE)
CASTAIC JCT INTERSTATE 5 1.4 MI. NEWHALL 9 MI.
NEWHALL 6.1 MI.
126
25'
Val Verde 1991


Val Verde
Canyon
Gravel Pit
Gaging Sta
Castaic Creek
OIL JUNCTION
Wells
ROAD
Oil Well
Del Valle
FIELD
VENTURA
SAUGUS
River
Well
Oil Wells
Mayo Spur
CASTAIC
NEWHALL POTRERO OIL FIELD
CASTAIC
Water Tank
Oil Sump
Potrero
BM 990
Oil Sump
Water Tank
3813
3812
3811
3810
3809
330 000
FEET (5)
3808
3807
Val Verde
1995

APPENDIX D:

Laboratory Reports and Chain-of-Custody Documentation

Enviro - Chem, Inc.
1215 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: February 6, 2004

FEB 12 2004

Mr. Russell Cote
BA Environmental
528 State Street
Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

Project: **Newhall Land / 104012**

Dear Mr. Cote:

The analytical results for the soil samples, received by our Lab on January 29, 2004, are attached.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Jesse Tu, Ph.D.
Laboratory Manager

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02/04
DATE ANALYZED: 02/03-04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G2-A/B/C/D (Composite)**
LAB I.D.: 040130-14,-15,-16,-17 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	ND	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	ND	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02/04
DATE ANALYZED: 02/03-04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G3-A/B/C/D (Composite)**
LAB I.D.: 040130-18,-19,-20,-21 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	0.001	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	ND	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	ND	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: BA Environmental
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: Newhall Land / 104012
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02/04
DATE ANALYZED: 02/03-04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G4-A/B/C/D (Composite)**
LAB I.D.: 040130-22,-23,-24,-25 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	ND	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	ND	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX:SOIL
DATE SAMPLED:01/29/04
REPORT TO:MR. RUSSELL COTE

DATE RECEIVED:01/29/04
DATE EXTRACTED:02/02/04
DATE ANALYZED:02/03-04/04
DATE REPORTED:02/06/04

SAMPLE I.D.: **G5-A/B/C/D (Composite)**
LAB I.D.: 040130-26,-27,-28,-29 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	ND	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	ND	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: BA Environmental
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: Newhall Land / 104012
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02/04
DATE ANALYZED: 02/03-04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: G6-A/B/C/D (Composite)
LAB I.D.: 040130-30,-31,-32,-33 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	ND	0.001
Dieldrin	0.002	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	ND	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX:SOIL
DATE SAMPLED:01/29/04
REPORT TO:MR. RUSSELL COTE

DATE RECEIVED:01/29/04
DATE EXTRACTED:02/02/04
DATE ANALYZED:02/03-04/04
DATE REPORTED:02/06/04

SAMPLE I.D.: **G7-A/B/C/D (Composite)**
LAB I.D.: 040130-34,-35,-36,-37 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	0.002	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	ND	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02/04
DATE ANALYZED: 02/03-04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G8-A/B/C/D (Composite)**
LAB I.D.: 040130-38,-39,-40,-41 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	ND	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	ND	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02/04
DATE ANALYZED: 02/03-04/04
DATE REPORTED: 02/06/04

METHOD BLANK FOR LAB I.D.: 040130-10 TO -13 (Composite), 040130-14 TO -17 (Composite), 040130-18 TO -21 (Composite), 040130-22 TO -25 (Composite), 040130-26 TO -29 (Composite), 040130-30 TO -33 (Composite), 040130-34 TO -37 (Composite), 040130-38 TO -41 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	ND	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	ND	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

EPA 8081 QA/QC Report

Matrix: **Soil** Date Analyzed: 2/3-4/2004
Unit: mg/Kg

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **040130-120**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.050	0.046	**92%**	0.047	**94%**	**2%**	**0-20%**	**70-130**
Aldrin	0.000	0.050	0.048	**95%**	0.048	**97%**	**2%**	**0-20%**	**70-130**
4,4-DDE	0.000	0.050	0.050	**99%**	0.051	**102%**	**3%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.050	0.049	**97%**	**75-125**
Aldrin	0.050	0.049	**98%**	**75-125**
4,4-DDE	0.050	0.049	**98%**	**75-125**
Dieldrin	0.050	0.052	**104%**	**75-125**

Surrogate Recovery		ACP%	MB	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.				040130-116	040130-117	040130-118	040130-119	040130-120	0130-10~13
Tetra-chloro-meta-xylene			111%	120%	114%	116%	130%	110%	122%
Decachlorobipneyl		50-150	114%	116%	108%	121%	94%	103%	112%

Surrogate Recovery		%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		0130-14~17	0130-18~21	0130-22~25	0130-26~29	0130-30~33	0130-34~37	0130-38~41	
Tetra-chloro-meta-xylene		116%	129%	117%	121%	99%	113%	111%	
Decachlorobipneyl		108%	126%	106%	118%	80%	104%	96%	

Surrogate Recovery		%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.							
Tetra-chloro-meta-xylene							
Decachlorobipneyl							

S.R. = Sample Result
spk conc = Spike Concentration
%REC = Percent Recovery
ACP %RPD = Acceptable Percent RPD Range
ACP %REC = Acceptable Percent Recovery Range

* = *Surrogate fail due to matrix interference*

Note: ***LCS, MS, MSD are in control therefore results are in control.***

Analyzed and Reviewed By:

Final Reviewer:

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02-04/04
DATE ANALYZED: 02/04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G1-A/B/C/D (Composite)**
LAB I.D.: 040130-10,-11,-12,-13 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02-04/04
DATE ANALYZED: 02/04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G2-A/B/C/D (Composite)**
LAB I.D.: 040130-14,-15,-16,-17 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02-04/04
DATE ANALYZED: 02/04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G3-A/B/C/D (Composite)**
LAB I.D.: 040130-18,-19,-20,-21 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
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LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02-04/04
DATE ANALYZED: 02/04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G4-A/B/C/D (Composite)**
LAB I.D.: 040130-22,-23,-24,-25 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02-04/04
DATE ANALYZED: 02/04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G5-A/B/C/D (Composite)**
LAB I.D.: 040130-26,-27,-28,-29 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02-04/04
DATE ANALYZED: 02/04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G6-A/B/C/D (Composite)**
LAB I.D.: 040130-30,-31,-32,-33 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX:SOIL
DATE SAMPLED:01/29/04
REPORT TO:MR. RUSSELL COTE

DATE RECEIVED:01/29/04
DATE EXTRACTED:02/02-04/04
DATE ANALYZED:02/04/04
DATE REPORTED:02/06/04

SAMPLE I.D.: **G7-A/B/C/D (Composite)**
LAB I.D.: 040130-34,-35,-36,-37 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
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LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02-04/04
DATE ANALYZED: 02/04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G8-A/B/C/D (Composite)**
LAB I.D.: 040130-38,-39,-40,-41 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02-04/04
DATE ANALYZED: 02/04/04
DATE REPORTED: 02/06/04

METHOD BLANK FOR LAB I.D.: 040130-10 TO -13 (Composite), 040130-14 TO -17 (Composite), 040130-18 TO -21 (Composite), 040130-22 TO -25 (Composite), 040130-26 TO -29 (Composite), 040130-30 TO -33 (Composite), 040130-34 TO -37 (Composite), 040130-38 TO -41 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

QA/QC Report

Analysis: EPA 8151A

Matrix: **SOIL** Date Analyzed: **2/4/2004**

Unit: **mg/Kg (PPM)**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 040130-38~41

Analyte	S.R.	spk conc	MS	% REC	MSD	% REC	%RPD	ACP %RPD	ACP %REC
2,4,5-T	0	1.0	1.03	**103%**	1.06	**106%**	**3%**	**0-20%**	**50-150**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
2,4,5-T	0.100	0.105	105%	**70-130**
2,4,5-TP	0.100	0.094	94%	**70-130**
2,4-DB	1.00	1.12	112%	**70-130**

Surrogate Recovery:

Analyte	spk conc	ACP %	M-BLK	%REC	%REC	%REC	%REC	%REC	%REC
Sample ID:				040130-10~13	040130-14~17	040130-18~21	040130-22~25	040130-26~29	040130-30~33
DCAA	0.20	50-150	59%	57%	66%	75%	66%	86%	85%

Analyte	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample ID:	040130-34~37	040130-38~41							
DCAA	68%	75%							

Analyte	%REC	%REC	%REC	%REC	%REC
Sample ID:					
DCAA					

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: _____

Final Reviewer: _____

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: February 9, 2004

Mr. Russell Cote
BA Environmental
528 State Street
Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

Project: **Newhall Land / 104012; 8141A**

Dear Mr. Cote:

The analytical results for the soil samples, received by our Lab on January 29, 2004, are attached.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Jesse Tu, Ph.D.
Laboratory Manager

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

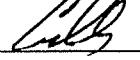
DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/03/04
DATE ANALYZED: 02/07/04
DATE REPORTED: 02/09/04

SAMPLE I.D.: **G1-A/B/C/D (Composite)**
LAB I.D.: 040130-10,-11,-12,-13 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: 
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/03/04
DATE ANALYZED: 02/07/04
DATE REPORTED: 02/09/04

SAMPLE I.D.: **G2-A/B/C/D (Composite)**
LAB I.D.: 040130-14,-15,-16,-17 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

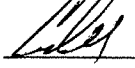
DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/03/04
DATE ANALYZED: 02/07/04
DATE REPORTED: 02/09/04

SAMPLE I.D.: **G3-A/B/C/D (Composite)**
LAB I.D.: 040130-18,-19,-20,-21 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: 
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX:SOIL
DATE SAMPLED:01/29/04
REPORT TO:MR. RUSSELL COTE

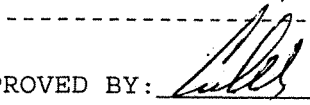
DATE RECEIVED:01/29/04
DATE EXTRACTED:02/03/04
DATE ANALYZED:02/07/04
DATE REPORTED:02/09/04

SAMPLE I.D.: **G4-A/B/C/D (Composite)**
LAB I.D.: 040130-22,-23,-24,-25 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: 
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/03/04
DATE ANALYZED: 02/07/04
DATE REPORTED: 02/09/04

SAMPLE I.D.: **G5-A/B/C/D (Composite)**
LAB I.D.: 040130-26,-27,-28,-29 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

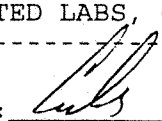
DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/03/04
DATE ANALYZED: 02/07/04
DATE REPORTED: 02/09/04

SAMPLE I.D.: **G6-A/B/C/D (Composite)**
LAB I.D.: 040130-30,-31,-32,-33 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: 
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX:SOIL
DATE SAMPLED:01/29/04
REPORT TO:MR. RUSSELL COTE

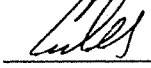
DATE RECEIVED:01/29/04
DATE EXTRACTED:02/03/04
DATE ANALYZED:02/07/04
DATE REPORTED:02/09/04

SAMPLE I.D.: **G7-A/B/C/D (Composite)**
LAB I.D.: 040130-34,-35,-36,-37 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: 
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/03/04
DATE ANALYZED: 02/07/04
DATE REPORTED: 02/09/04

SAMPLE I.D.: **G8-A/B/C/D (Composite)**
LAB I.D.: 040130-38,-39,-40,-41 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/03/04
DATE ANALYZED: 02/07/04
DATE REPORTED: 02/09/04

METHOD BLANK FOR LAB I.D.: 040130-10 TO -13 (Composite), 040130-14 TO -17 (Composite), 040130-18 TO -21 (Composite), 040130-22 TO -25 (Composite), 040130-26 TO -29 (Composite), 040130-30 TO -33 (Composite), 040130-34 TO -37 (Composite), 040130-38 TO -41 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Enviro-Chem Laboratories, Inc. (7420)
ATTN: Curtis Desilets
1214 E. Lexington Avenue
Pomona, CA 91766

LAB REQUEST 123712

REPORTED 02/09/2004
RECEIVED 01/30/2004

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
494471	040130/10-13
494472	040130/14-17
494473	040130/18-21
494474	040130/22-25
494475	040130/26-29
494476	040130/30-33
494477	040130/34-37
494478	040130/38-41
494479	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 494471 **Client:** Enviro-Chem Laboratories, Inc.

Matrix: SOLID **Client Sample ID:** 040130/10-13

Date Sampled: 01/29/2004

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8141 Organophosphate Pesticides						
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/07/04	SD
Bolstar	ND	1	0.1	mg/Kg	02/07/04	SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/07/04	SD
Coumaphos	ND	1	1.0	mg/Kg	02/07/04	SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/07/04	SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/07/04	SD
Diazinon	ND	1	0.4	mg/Kg	02/07/04	SD
Dichlorvos	ND	1	0.07	mg/Kg	02/07/04	SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/07/04	SD
Ethoprop	ND	1	0.17	mg/Kg	02/07/04	SD
Fensulfothion	ND	1	1.0	mg/Kg	02/07/04	SD
Fenthion	ND	1	0.07	mg/Kg	02/07/04	SD
Malathion	ND	1	0.02	mg/Kg	02/07/04	SD
Merphos	ND	1	0.17	mg/Kg	02/07/04	SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/07/04	SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/07/04	SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/07/04	SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/07/04	SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/07/04	SD
Ronnel	ND	1	0.2	mg/Kg	02/07/04	SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/07/04	SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/07/04	SD
Trichloronate	ND	1	0.1	mg/Kg	02/07/04	SD
Surrogates				**Units**	**Control Limits**	
TBP (sur)	71			%	50 - 145	
TPP (sur)	60			%	50 - 145	

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, Df = Dilution Factor

Order #: 494472 **Client:** Enviro-Chem Laboratories, Inc.
Matrix: SOLID **Client Sample ID:** 040130/14-17
Date Sampled: 01/29/2004
Time Sampled:
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8141 Organophosphate Pesticides						
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/07/04	SD
Bolstar	ND	1	0.1	mg/Kg	02/07/04	SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/07/04	SD
Coumaphos	ND	1	1.0	mg/Kg	02/07/04	SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/07/04	SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/07/04	SD
Diazinon	ND	1	0.4	mg/Kg	02/07/04	SD
Dichlorvos	ND	1	0.07	mg/Kg	02/07/04	SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/07/04	SD
Ethoprop	ND	1	0.17	mg/Kg	02/07/04	SD
Fensulfothion	ND	1	1.0	mg/Kg	02/07/04	SD
Fenthion	ND	1	0.07	mg/Kg	02/07/04	SD
Malathion	ND	1	0.02	mg/Kg	02/07/04	SD
Merphos	ND	1	0.17	mg/Kg	02/07/04	SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/07/04	SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/07/04	SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/07/04	SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/07/04	SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/07/04	SD
Ronnel	ND	1	0.2	mg/Kg	02/07/04	SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/07/04	SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/07/04	SD
Trichloronate	ND	1	0.1	mg/Kg	02/07/04	SD

Surrogates		Units	Control Limits
TBP (sur)	61	%	50 - 145
TPP (sur)	50	%	50 - 145

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit. DF = Dilution Factor

Order #: 494473
Matrix: SOLID
Date Sampled: 01/29/2004
Time Sampled:
Sampled By:

Client: Enviro-Chem Laboratories, Inc.
Client Sample ID: 040130/18-21

Analyte	Result	DF	DLR	Units	Date/Analyst
8141 Organophosphate Pesticides					
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/07/04 SD
Bolstar	ND	1	0.1	mg/Kg	02/07/04 SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/07/04 SD
Coumaphos	ND	1	1.0	mg/Kg	02/07/04 SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/07/04 SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/07/04 SD
Diazinon	ND	1	0.4	mg/Kg	02/07/04 SD
Dichlorvos	ND	1	0.07	mg/Kg	02/07/04 SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/07/04 SD
Ethoprop	ND	1	0.17	mg/Kg	02/07/04 SD
Fensulfothion	ND	1	1.0	mg/Kg	02/07/04 SD
Fenthion	ND	1	0.07	mg/Kg	02/07/04 SD
Malathion	ND	1	0.02	mg/Kg	02/07/04 SD
Merphos	ND	1	0.17	mg/Kg	02/07/04 SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/07/04 SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/07/04 SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/07/04 SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/07/04 SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/07/04 SD
Ronnel	ND	1	0.2	mg/Kg	02/07/04 SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/07/04 SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/07/04 SD
Trichloronate	ND	1	0.1	mg/Kg	02/07/04 SD
Surrogates				**Units**	**Control Limits**
TBP (sur)	80			%	50 - 145
TPP (sur)	83			%	50 - 145

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 494474 **Client:** Enviro-Chem Laboratories, Inc.

Matrix: SOLID **Client Sample ID:** 040130/22-25

Date Sampled: 01/29/2004

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8141 Organophosphate Pesticides						
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/07/04	SD
Bolstar	ND	1	0.1	mg/Kg	02/07/04	SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/07/04	SD
Coumaphos	ND	1	1.0	mg/Kg	02/07/04	SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/07/04	SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/07/04	SD
Diazinon	ND	1	0.4	mg/Kg	02/07/04	SD
Dichlorvos	ND	1	0.07	mg/Kg	02/07/04	SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/07/04	SD
Ethoprop	ND	1	0.17	mg/Kg	02/07/04	SD
Fensulfothion	ND	1	1.0	mg/Kg	02/07/04	SD
Fenthion	ND	1	0.07	mg/Kg	02/07/04	SD
Malathion	ND	1	0.02	mg/Kg	02/07/04	SD
Merphos	ND	1	0.17	mg/Kg	02/07/04	SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/07/04	SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/07/04	SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/07/04	SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/07/04	SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/07/04	SD
Ronnel	ND	1	0.2	mg/Kg	02/07/04	SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/07/04	SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/07/04	SD
Trichloronate	ND	1	0.1	mg/Kg	02/07/04	SD

Surrogates		Units	Control Limits
TBP (sur)	77	%	50 - 145
TPP (sur)	74	%	50 - 145

DLR = Detection limit for reporting purposes. ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 494475 **Client:** Enviro-Chem Laboratories, Inc.

Matrix: SOLID **Client Sample ID:** 040130/26-29

Date Sampled: 01/29/2004

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8141 Organophosphate Pesticides					
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/07/04 SD
Bolstar	ND	1	0.1	mg/Kg	02/07/04 SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/07/04 SD
Coumaphos	ND	1	1.0	mg/Kg	02/07/04 SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/07/04 SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/07/04 SD
Diazinon	ND	1	0.4	mg/Kg	02/07/04 SD
Dichlorvos	ND	1	0.07	mg/Kg	02/07/04 SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/07/04 SD
Ethoprop	ND	1	0.17	mg/Kg	02/07/04 SD
Fensulfothion	ND	1	1.0	mg/Kg	02/07/04 SD
Fenthion	ND	1	0.07	mg/Kg	02/07/04 SD
Malathion	ND	1	0.02	mg/Kg	02/07/04 SD
Merphos	ND	1	0.17	mg/Kg	02/07/04 SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/07/04 SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/07/04 SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/07/04 SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/07/04 SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/07/04 SD
Ronnel	ND	1	0.2	mg/Kg	02/07/04 SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/07/04 SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/07/04 SD
Trichloronate	ND	1	0.1	mg/Kg	02/07/04 SD
Surrogates				**Units**	**Control Limits**
TBP (sur)	78			%	50 - 145
TPP (sur)	68			%	50 - 145

DLR = Detection limit for reporting purposes. ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 494476
Matrix: SOLID
Date Sampled: 01/29/2004
Time Sampled:
Sampled By:

Client: Enviro-Chem Laboratories, Inc.
Client Sample ID: 040130/30-33

Analyte	Result	DF	DLR	Units	Date/Analyst
8141 Organophosphate Pesticides					
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/07/04 SD
Bolstar	ND	1	0.1	mg/Kg	02/07/04 SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/07/04 SD
Coumaphos	ND	1	1.0	mg/Kg	02/07/04 SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/07/04 SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/07/04 SD
Diazinon	ND	1	0.4	mg/Kg	02/07/04 SD
Dichlorvos	ND	1	0.07	mg/Kg	02/07/04 SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/07/04 SD
Ethoprop	ND	1	0.17	mg/Kg	02/07/04 SD
Fensulfothion	ND	1	1.0	mg/Kg	02/07/04 SD
Fenthion	ND	1	0.07	mg/Kg	02/07/04 SD
Malathion	ND	1	0.02	mg/Kg	02/07/04 SD
Merphos	ND	1	0.17	mg/Kg	02/07/04 SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/07/04 SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/07/04 SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/07/04 SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/07/04 SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/07/04 SD
Ronnel	ND	1	0.2	mg/Kg	02/07/04 SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/07/04 SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/07/04 SD
Trichloronate	ND	1	0.1	mg/Kg	02/07/04 SD
Surrogates				**Units**	**Control Limits**
TBP (sur)	80			%	50 - 145
TPP (sur)	68			%	50 - 145

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 494477
Matrix: SOLID
Date Sampled: 01/29/2004
Time Sampled:
Sampled By:

Client: Enviro-Chem Laboratories, Inc.
Client Sample ID: 040130/34-37

Analyte	Result	DF	DLR	Units	Date/Analyst
8141 Organophosphate Pesticides					
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/07/04 SD
Bolstar	ND	1	0.1	mg/Kg	02/07/04 SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/07/04 SD
Coumaphos	ND	1	1.0	mg/Kg	02/07/04 SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/07/04 SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/07/04 SD
Diazinon	ND	1	0.4	mg/Kg	02/07/04 SD
Dichlorvos	ND	1	0.07	mg/Kg	02/07/04 SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/07/04 SD
Ethoprop	ND	1	0.17	mg/Kg	02/07/04 SD
Fensulfothion	ND	1	1.0	mg/Kg	02/07/04 SD
Fenthion	ND	1	0.07	mg/Kg	02/07/04 SD
Malathion	ND	1	0.02	mg/Kg	02/07/04 SD
Merphos	ND	1	0.17	mg/Kg	02/07/04 SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/07/04 SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/07/04 SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/07/04 SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/07/04 SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/07/04 SD
Ronnel	ND	1	0.2	mg/Kg	02/07/04 SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/07/04 SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/07/04 SD
Trichloronate	ND	1	0.1	mg/Kg	02/07/04 SD
Surrogates				**Units**	**Control Limits**
TBP (sur)	85			%	50 - 145
TPP (sur)	70			%	50 - 145

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 494478
Matrix: SOLID
Date Sampled: 01/29/2004
Time Sampled:
Sampled By:

Client: Enviro-Chem Laboratories, Inc.
Client Sample ID: 040130/38-41

Analyte	Result	DF	DLR	Units	Date/Analyst
8141 Organophosphate Pesticides					
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/07/04 SD
Bolstar	ND	1	0.1	mg/Kg	02/07/04 SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/07/04 SD
Coumaphos	ND	1	1.0	mg/Kg	02/07/04 SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/07/04 SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/07/04 SD
Diazinon	ND	1	0.4	mg/Kg	02/07/04 SD
Dichlorvos	ND	1	0.07	mg/Kg	02/07/04 SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/07/04 SD
Ethoprop	ND	1	0.17	mg/Kg	02/07/04 SD
Fensulfothion	ND	1	1.0	mg/Kg	02/07/04 SD
Fenthion	ND	1	0.07	mg/Kg	02/07/04 SD
Malathion	ND	1	0.02	mg/Kg	02/07/04 SD
Merphos	ND	1	0.17	mg/Kg	02/07/04 SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/07/04 SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/07/04 SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/07/04 SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/07/04 SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/07/04 SD
Ronnel	ND	1	0.2	mg/Kg	02/07/04 SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/07/04 SD
Tokuthion (Prothiofos)	ND	1	0.33	mg/Kg	02/07/04 SD
Trichloronate	ND	1	0.1	mg/Kg	02/07/04 SD
Surrogates				**Units**	**Control Limits**
TBP (sur)	85			%	50 - 145
TPP (sur)	70			%	50 - 145

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 494479 **Client:** Enviro-Chem Laboratories, Inc.

Matrix: SOLID **Client Sample ID:** Laboratory Method Blank

Date Sampled:

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8141 Organophosphate Pesticides					
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/07/04 SD
Bolstar	ND	1	0.1	mg/Kg	02/07/04 SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/07/04 SD
Coumaphos	ND	1	1.0	mg/Kg	02/07/04 SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/07/04 SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/07/04 SD
Diazinon	ND	1	0.4	mg/Kg	02/07/04 SD
Dichlorvos	ND	1	0.07	mg/Kg	02/07/04 SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/07/04 SD
Ethoprop	ND	1	0.17	mg/Kg	02/07/04 SD
Fensulfothion	ND	1	1.0	mg/Kg	02/07/04 SD
Fenthion	ND	1	0.07	mg/Kg	02/07/04 SD
Malathion	ND	1	0.02	mg/Kg	02/07/04 SD
Merphos	ND	1	0.17	mg/Kg	02/07/04 SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/07/04 SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/07/04 SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/07/04 SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/07/04 SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/07/04 SD
Ronnel	ND	1	0.2	mg/Kg	02/07/04 SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/07/04 SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/07/04 SD
Trichloronate	ND	1	0.1	mg/Kg	02/07/04 SD

Surrogates		Units	Control Limits
TBP (sur)	77	%	50 - 145
TPP (sur)	85	%	50 - 145

DLR = Detection limit for reporting purposes. ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8141 Preparative Method: EPA 3545

QC Sample: 123712-494473

Matrix: SOLID

Analysis Date: 2/7/04

Batch Date: 02/03/04 (op 020304s)

Applies to: LR 123712 and LR 123536

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Demeton-O	ND	0.400	0.237	0.254	59	64	7	35	45-140
Ethoprop	ND	0.400	0.369	0.346	92	86	7	35	45-140
Naled	ND	0.400	0.381	0.374	95	93	2	35	45-140
Diazinon	ND	0.400	0.325	0.324	81	81	0	35	45-140
Stirophos	ND	0.400	0.315	0.329	79	82	4	35	45-140
Fensulfothion	ND	0.400	0.411	0.391	103	98	5	35	45-140
Azinophos, Methyl-	ND	0.400	0.341	0.349	85	87	2	35	45-140
Coumaphos	ND	0.400	0.191	0.206	48	52	8	35	45-140

ND = Not Detected
% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE / LAB CONTROL SPIKE DUPLICATE RECOVERIES
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limits
Demeton-O	0.400	0.344	86	55-130
Ethoprop	0.400	0.371	93	55-130
Naled	0.400	0.389	97	55-130
Diazinon	0.400	0.381	95	55-130
Stirophos	0.400	0.371	93	55-130
Fensulfothion	0.400	0.399	100	55-130
Azinophos, Methyl-	0.400	0.375	94	55-130
Coumaphos	0.400	0.333	83	55-130

Method Blank = All ND
% Rec - LCS & LCSD = Percent Recovery from Lab Control Spike & Lab Control Spike Duplicate
RPD = Relative Percent Difference of Lab Control Spike and Lab Control Spike Duplicate recoveries

123712

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE # 1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
● 1 Week (Standard)
Other:

ASSOCIATED

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	8141	COMMENTS
040130-10→13		1/29/04		Soil	1			X	
-14→17		↓		↓	↓			↓	DANIELLE:
-18→21		↓		↓	↓			↓	REFER TO
-22→25		↓		↓	↓			↓	PREVIOUS
-26→29		↓		↓	↓			↓	QUOTE.
-30→33		↓		↓	↓			↓	-CURTIS
-34→37		↓		↓	↓			↓	
-38→41		↓		↓	↓			↓	

Company Name:
Address: Enviro-Chem, Inc. 1214 E. Lexington Avenue Pomona, CA 91768-5519
City/State/Zip:

Project Contact: Curtis B. Desjets
Tel: (909) 590-5905
Fax: (909) 590-5907

Sampler's Signature:
Project Name/ID: 040130-10→13, 14→17, 18→21, 22→25, 26→29, ~~040130~~ 30→33, 34→37, 38→41

Relinquished by:	Received by:	Date & Time: 1/30/04 1105	Instructions for Sample Storage After Analysis
Relinquished by:	Received by:	Date & Time: 1/30/04 1145	O Dispose of O Return to Client O Store (30 Days)
Relinquished by:	Received by:	Date & Time:	O Other:

CHAIN OF CUSTODY RECORD

Date: 1/30/04 2-1:30-04. 3:20

FEB-10-2004 09:20 FROM-Associated Laboratories 714-538-1209 T-535 P.012/012 F-665

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE # 1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
X 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	8081	8141	8151							COMMENTS
				Analysis Required													
G1-A	040130-10	1-29-04		Soil	1 X 40Z		ICE	X	X	X							Composite Samples
G1-B	-11							X	X	X							
G1-C	-12							X	X	X							
G1-D	-13							X	X	X							
G2-A	-14							X	X	X							Composite Samples
G2-B	-15							X	X	X							
G2-C	-16							X	X	X							
G2-D	-17							X	X	X							
G3-A	-18							X	X	X							Composite Samples
G3-B	-19							X	X	X							
G3-C	-20							X	X	X							
G3-D	-21							X	X	X							

Company Name: Building Analytics
Address: 528 State St.
City/State/Zip: Glendale CA 91203

Project Contact: Russell Cote
Tel: (818) 500-1868
Fax: (818) 246-8185

Sampler's Signature: Russell Cote
Project Name/ID: Newhall Land
104012

Relinquished by: Russell Cote	Received by: [illegible]	Date & Time: 1/29/04 1525	Instructions for Sample Storage After Analysis:
Relinquished by: [illegible]	Received by: [illegible]	Date & Time: 1/30/04 0905	O Dispose of O Return to Client O Store (30 Days)
Relinquished by:	Received by:	Date & Time:	O Other:

CHAIN OF CUSTODY RECORD

Date:

WHITE WITH SAMPLE, YELLOW TO CLIENT

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE # 1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
X 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	8081	8141	8151	COMMENTS
				Analysis Required							
G4-A	040130-22	1-29-04		Soil	1 X 40Z		TCE	X	X	X	Composite Samples
G4-B	-23							X	X	X	
G4-C	-24							X	X	X	
G4-D	-25							X	X	X	
G5-A	-26							X	X	X	Composite Samples
G5-B	-27							X	X	X	
G5-C	-28							X	X	X	
G5-D	-29							X	X	X	
G6-A	-30							X	X	X	Composite Samples
G6-B	-31							X	X	X	
G6-C	-32							X	X	X	
G6-D	-33							X	X	X	

Company Name: Building Analytics
Address: 528 State St
City/State/Zip: Colorado CA 91203

Project Contact: Russell Cote
Tel: (818) 500-1898
Fax: (818) 246-8195

Sampler's Signature: Russell Cote
Project Name/ID: 104012 Newhall Land

Relinquished by: Russell Cote
Relinquished by:
Relinquished by:

Received by:
Received by:
Received by:

Date & Time: 1/29/04 1525
Date & Time: 1/30/04 0905
Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date:

WHITE WITH SAMPLE - YELLOW TO CLIENT

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE # 1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
0 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	8081	8141	8151	MISC.	COMMENTS
				Analysis Required								
G7-A	040130-34	1-29-04		Soil	1x40z	ICE		X	X	X		
G7-B	-35							X	X	X		Composite Samples
G7-C	-36							X	X	X		
G7-D	-37							X	X	X		
G8-A	-38							X	X	X		
G8-B	-39							X	X	X		Composite Samples
G8-C	-40							X	X	X		
G8-D	-41							X	X	X		

Company Name: Building Analytics
Address: 528 State St.
City/State/Zip: Glendale CA 91203

Project Contact: Russell Cole
Tel: (818) 500-[illegible]
Fax: (818) 246-6155

Sampler's Signature: Russell Cole
Project Name/ID: Newhall Land 104012

Relinquished by: Russell Cole
Relinquished by:
Relinquished by:

Received by:
Received by:
Received by:

Date & Time: 1/29/04 1525
Date & Time: 1/30/04 0905
Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date:

WHITE WITH SAMPLE - YELLOW TO CLIENT

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: February 12, 2004

Mr. Russell Cote
BA Environmental
528 State Street
Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

Project: **Newhall Land / 104012**

Dear Mr. Cote:

The analytical results for the soil samples, received by our Lab on February 5, 2004, are attached.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Jesse Tu, Ph.D.
Laboratory Manager

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX:SOIL
DATE SAMPLED:02/04/04
REPORT TO:MR. RUSSELL COTE

DATE RECEIVED:02/05/04
DATE EXTRACTED:02/09/04
DATE ANALYZED:02/10-11/04
DATE REPORTED:02/12/04

SAMPLE I.D.: **G9-A/B/C/D (Composite)**
LAB I.D.: 040205-1,-2,-3,-4 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	ND	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	0.001	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: BA Environmental
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/04/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/05/04
DATE EXTRACTED: 02/09/04
DATE ANALYZED: 02/10-11/04
DATE REPORTED: 02/12/04

SAMPLE I.D.: **G10-A/B/C/D (Composite)**
LAB I.D.: 040205-5,-6,-7,-8 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	ND	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	0.001	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

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PROJECT: Newhall Land / 104012
MATRIX: SOIL
DATE SAMPLED: 02/04/04
REPORT TO: MR. RUSSELL COTE

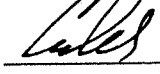
DATE RECEIVED: 02/05/04
DATE EXTRACTED: 02/09/04
DATE ANALYZED: 02/10-11/04
DATE REPORTED: 02/12/04

SAMPLE I.D.: G11-A/B/C/D/E (Composite)
LAB I.D.: 040205-9,-10,-11,-12,-13 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X10)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	0.012	0.001
gamma-Chlordane	0.017	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	0.008J	0.001
4,4'-DDT	0.014	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	0.018	0.001
Endosulfan Sulfate	ND	0.001
Endrin	0.061	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
MDL = MINIMUM DETECTION LIMIT
PQL = PRACTICAL QUANTITATION LIMIT
J = TRACE CONCENTRATION BETWEEN MDL AND PQL
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

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PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/04/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/05/04
DATE EXTRACTED: 02/09/04
DATE ANALYZED: 02/10-11/04
DATE REPORTED: 02/12/04

SAMPLE I.D.: **G12-A/B/C/D (Composite)**
LAB I.D.: 040205-14,-15,-16,-17 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X10)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	0.022	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	0.029	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

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PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/04/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/05/04
DATE EXTRACTED: 02/09/04
DATE ANALYZED: 02/10-11/04
DATE REPORTED: 02/12/04

SAMPLE I.D.: **G17-A/B/C/D (Composite)**
LAB I.D.: 040205-18,-19,-20,-21 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X10)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	0.018	0.001
gamma-Chlordane	0.027	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	0.012	0.001
4,4'-DDT	0.023	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	0.034	0.001
Endosulfan Sulfate	ND	0.001
Endrin	0.136	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/04/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/05/04
DATE EXTRACTED: 02/09/04
DATE ANALYZED: 02/10-11/04
DATE REPORTED: 02/12/04

METHOD BLANK FOR LAB I.D.: 040205-1 TO -4 (Composite), 040205-5 TO -8 (Composite), 040205-9 TO -13 (Composite), 040205-14 TO -17 (Composite), 040205-18 TO -21(Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	ND	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	ND	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

EPA 8081 QA/QC Report

Matrix: Soil
Unit: mg/Kg

Date Analyzed: 2/10/2004

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 040206-15

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.050	0.044	**89%**	0.046	**91%**	**3%**	**0-20%**	**70-130**
Aldrin	0.000	0.050	0.045	**91%**	0.046	**92%**	**1%**	**0-20%**	**70-130**
4,4-DDE	0.000	0.050	0.048	**97%**	0.049	**97%**	**1%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.050	0.048	**97%**	**75-125**
Aldrin	0.050	0.047	**94%**	**75-125**
4,4-DDE	0.050	0.051	**102%**	**75-125**
Dieldrin	0.050	0.050	**100%**	**75-125**

Surrogate Recovery	ACP%	MB	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.			040206-14	040206-15	040205-1~4	040205-5~8	040205-9~13	040205-14~17
Tetra-chloro-meta-xylene	50-150	119%	99%	97%	101%	105%	101%	101%
Decachlorobipneyl	50-150	143%	116%	110%	114%	119%	114%	114%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	040205-18~21							
Tetra-chloro-meta-xylene	106%							
Decachlorobipneyl	115%							

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result
spk conc = Spike Concentration
%REC = Percent Recovery
ACP %RPD = Acceptable Percent RPD Range
ACP %REC = Acceptable Percent Recovery Range

** = Surrogate fail due to matrix interference (If Marked)*

Note: *LCS, MS, MSD are in control therefore results are in control.*

Analyzed and Reviewed By:

Final Reviewer:

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/04/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/05/04
DATE EXTRACTED: 02/06-07/04
DATE ANALYZED: 02/09/04
DATE REPORTED: 02/12/04

SAMPLE I.D.: **G9-A/B/C/D (Composite)**
LAB I.D.: 040205-1,-2,-3,-4 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/04/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/05/04
DATE EXTRACTED: 02/06-07/04
DATE ANALYZED: 02/09/04
DATE REPORTED: 02/12/04

SAMPLE I.D.: **G10-A/B/C/D (Composite)**
LAB I.D.: 040205-5,-6,-7,-8 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

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LABORATORY REPORT

CUSTOMER: **BA Environmental**
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PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/04/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/05/04
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DATE ANALYZED: 02/09/04
DATE REPORTED: 02/12/04

SAMPLE I.D.: **G11-A/B/C/D/E (Composite)**
LAB I.D.: 040205-9,-10,-11,-12,-13 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

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PROJECT: Newhall Land / 104012
MATRIX: SOIL
DATE SAMPLED: 02/04/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/05/04
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DATE REPORTED: 02/12/04

SAMPLE I.D.: G12-A/B/C/D (Composite)
LAB I.D.: 040205-14,-15,-16,-17 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

CUSTOMER: **BA Environmental**
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PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/04/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/05/04
DATE EXTRACTED: 02/06-07/04
DATE ANALYZED: 02/09/04
DATE REPORTED: 02/12/04

SAMPLE I.D.: **G17-A/B/C/D (Composite)**
LAB I.D.: 040205-18,-19,-20,-21 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
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PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/04/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/05/04
DATE EXTRACTED: 02/06-07/04
DATE ANALYZED: 02/09/04
DATE REPORTED: 02/12/04

METHOD BLANK FOR LAB I.D.: 040205-1 TO -4 (Composite), 040205-5 TO -8 (Composite), 040205-9 TO -13 (Composite), 040205-14 TO -17 (Composite), 040205-18 TO -21(Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

QA/QC Report

Analysis: EPA 8151A

Matrix: **SOIL** Date Analyzed: **2/8-9/2004**

Unit: **mg/Kg (PPM)**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 040206-15

Analyte	S.R.	spk conc	MS	% REC	MSD	% REC	%RPD	ACP %RPD	ACP %REC
2,4,5-T	0	1.0	1.18	**118%**	1.19	**119%**	**1%**	**0-20%**	**50-150**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
2,4,5-T	0.100	0.115	115%	**70-130**
2,4,5-TP	0.100	0.114	114%	**70-130**
2,4-DB	1.00	1.08	108%	**70-130**

Surrogate Recovery:

Analyte	spk conc	ACP %	M-BLK	%REC	%REC	%REC	%REC	%REC	%REC
Sample ID:				040205-58	040205-59	040205-60	040205-61	040204-53~56	040204-57~60
DCAA	0.20	50-150	73%	79%	78%	81%	81%	97%	97%

Analyte	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample ID:	040204-61~64	040204-65~68	040205-1~4	040205-5~8	040205-9~13	040205-14~17	040205-18~21	040206-14	040206-15
DCAA	95%	89%	108%	88%	127%	99%	118%	100%	107%

Analyte	%REC	%REC	%REC	%REC	%REC
Sample ID:	040204-29				
DCAA	76%				

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: _____

Final Reviewer: _____

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

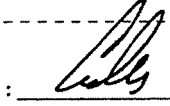
DATE RECEIVED: 02/05/04
DATE EXTRACTED: 02/06/04
DATE ANALYZED: 02/07/04
DATE REPORTED: 02/12/04

METHOD BLANK FOR LAB I.D.: 040205-1 TO -4 (Composite), 040205-5 TO -8 (Composite), 040205-9 TO -13 (Composite), 040205-14 TO -17 (Composite), 040205-18 TO -21 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: February 12, 2004

Mr. Russell Cote
BA Environmental
528 State Street
Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

Project: **Newhall Land / 104012; 8141A**

Dear Mr. Cote:

The analytical results for the soil samples, received by our Lab on February 5, 2004, are attached.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Jesse Tu, Ph.D.
Laboratory Manager

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

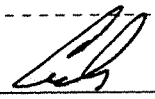
DATE RECEIVED: 02/05/04
DATE EXTRACTED: 02/06/04
DATE ANALYZED: 02/07/04
DATE REPORTED: 02/12/04

SAMPLE I.D.: **G9-A/B/C/D (Composite)**
LAB I.D.: 040205-1,-2,-3,-4 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: 
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

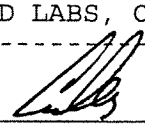
DATE RECEIVED: 02/05/04
DATE EXTRACTED: 02/06/04
DATE ANALYZED: 02/08/04
DATE REPORTED: 02/12/04

SAMPLE I.D.: **G10-A/B/C/D (Composite)**
LAB I.D.: 040205-5,-6,-7,-8 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: 
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX:SOIL
DATE SAMPLED:02/02/04
REPORT TO:MR. RUSSELL COTE

DATE RECEIVED:02/05/04
DATE EXTRACTED:02/06/04
DATE ANALYZED:02/08/04
DATE REPORTED:02/12/04

SAMPLE I.D.: **G11-A/B/C/D/E (Composite)**
LAB I.D.: 040205-9,-10,-11,-12,-13 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
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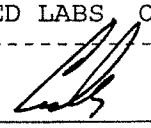
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: BA Environmental
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: Newhall Land / 104012
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

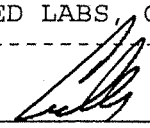
DATE RECEIVED: 02/05/04
DATE EXTRACTED: 02/06/04
DATE ANALYZED: 02/08/04
DATE REPORTED: 02/12/04

SAMPLE I.D.: G12-A/B/C/D (Composite)
LAB I.D.: 040205-14,-15,-16,-17 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: 
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/05/04
DATE EXTRACTED: 02/06/04
DATE ANALYZED: 02/08/04
DATE REPORTED: 02/12/04

SAMPLE I.D.: **G17-A/B/C/D (Composite)**
LAB I.D.: 040205-18,-19,-20,-21 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 FAX 714/538-1209

CLIENT Enviro-Chem Laboratories, Inc. (7420)
ATTN: Curtis Desilets
1214 E. Lexington Avenue
Pomona, CA 91766

LAB REQUEST 124124
REPORTED 02/09/2004
RECEIVED 02/05/2004

PROJECT #040205-1 to 4, 5 to 8, 9 to 13, 14 to 17, 18 to 21

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
496119	040205-1 to 4
496120	040205-5 to 8
496121	040205-9 to 13
496122	040205-14 to 17
496123	040205-18 to 21
496124	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order # 496119
Matrix: SOLID
Date Sampled: 02/04/2004
Time Sampled:
Sampled By:

Client: Enviro-Chem Laboratories, Inc.
Client Sample ID: 040205-1 to 4

8141 Organophosphate Pesticides

Analyte	Result	DF	DLR	Units	Date/Analyst
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/07/04 SD
Bolstar	ND	1	0.1	mg/Kg	02/07/04 SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/07/04 SD
Coumaphos	ND	1	1.0	mg/Kg	02/07/04 SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/07/04 SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/07/04 SD
Diazinon	ND	1	0.4	mg/Kg	02/07/04 SD
Dichlorvos	ND	1	0.07	mg/Kg	02/07/04 SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/07/04 SD
Ethoprop	ND	1	0.17	mg/Kg	02/07/04 SD
Fensulfothion	ND	1	1.0	mg/Kg	02/07/04 SD
Fenthion	ND	1	0.07	mg/Kg	02/07/04 SD
Malathion	ND	1	0.02	mg/Kg	02/07/04 SD
Merphos	ND	1	0.17	mg/Kg	02/07/04 SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/07/04 SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/07/04 SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/07/04 SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/07/04 SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/07/04 SD
Ronnel	ND	1	0.2	mg/Kg	02/07/04 SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/07/04 SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/07/04 SD
Trichloronate	ND	1	0.1	mg/Kg	02/07/04 SD

Surrogates		Units	Control Limits
TBP (sur)	78	%	50 - 145
TPP (sur)	61	%	50 - 145

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Fac

Order # 496120
Matrix: SOLID
Date Sampled: 02/04/2004
Time Sampled:
Sampled By:

Client: Enviro-Chem Laboratories, Inc.
Client Sample ID: 040205-5 to 8

8141 Organophosphate Pesticides

Analyte	Result	DF	DLR	Units	Date/Analyst	
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/08/04	SD
Bolstar	ND	1	0.1	mg/Kg	02/08/04	SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/08/04	SD
Coumaphos	ND	1	1.0	mg/Kg	02/08/04	SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/08/04	SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/08/04	SD
Diazinon	ND	1	0.4	mg/Kg	02/08/04	SD
Dichlorvos	ND	1	0.07	mg/Kg	02/08/04	SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/08/04	SD
Ethoprop	ND	1	0.17	mg/Kg	02/08/04	SD
Fensulfothion	ND	1	1.0	mg/Kg	02/08/04	SD
Fenthion	ND	1	0.07	mg/Kg	02/08/04	SD
Malathion	ND	1	0.02	mg/Kg	02/08/04	SD
Merphos	ND	1	0.17	mg/Kg	02/08/04	SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/08/04	SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/08/04	SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/08/04	SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/08/04	SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/08/04	SD
Ronnel	ND	1	0.2	mg/Kg	02/08/04	SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/08/04	SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/08/04	SD
Trichloronate	ND	1	0.1	mg/Kg	02/08/04	SD

Surrogates		Units	Control Limits
TBP (sur)	81	%	50 - 145
TPP (sur)	57	%	50 - 145

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Fac

Order # 496121
Matrix: SOLID
Date Sampled: 02/04/2004
Time Sampled:
Sampled By:

Client: Enviro-Chem Laboratories, Inc.
Client Sample ID: 040205-9 to 13

Analyte	Result	DF	DLR	Units	Date/Analyst
8141 Organophosphate Pesticides					
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/08/04 SD
Bolstar	ND	1	0.1	mg/Kg	02/08/04 SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/08/04 SD
Coumaphos	ND	1	1.0	mg/Kg	02/08/04 SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/08/04 SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/08/04 SD
Diazinon	ND	1	0.4	mg/Kg	02/08/04 SD
Dichlorvos	ND	1	0.07	mg/Kg	02/08/04 SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/08/04 SD
Ethoprop	ND	1	0.17	mg/Kg	02/08/04 SD
Fensulfothion	ND	1	1.0	mg/Kg	02/08/04 SD
Fenthion	ND	1	0.07	mg/Kg	02/08/04 SD
Malathion	ND	1	0.02	mg/Kg	02/08/04 SD
Merphos	ND	1	0.17	mg/Kg	02/08/04 SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/08/04 SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/08/04 SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/08/04 SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/08/04 SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/08/04 SD
Ronnel	ND	1	0.2	mg/Kg	02/08/04 SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/08/04 SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/08/04 SD
Trichloronate	ND	1	0.1	mg/Kg	02/08/04 SD

Surrogates		Units	Control Limits
TBP (sur)	81	%	50 - 145
TPP (sur)	59	%	50 - 145

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Fac

Order # 496122 **Client:** Enviro-Chem Laboratories, Inc.
Matrix: SOLID **Client Sample ID:** 040205-14 to 17
Date Sampled: 02/04/2004
Time Sampled:
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8141 Organophosphate Pesticides						
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/08/04	SD
Bolstar	ND	1	0.1	mg/Kg	02/08/04	SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/08/04	SD
Coumaphos	ND	1	1.0	mg/Kg	02/08/04	SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/08/04	SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/08/04	SD
Diazinon	ND	1	0.4	mg/Kg	02/08/04	SD
Dichlorvos	ND	1	0.07	mg/Kg	02/08/04	SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/08/04	SD
Ethoprop	ND	1	0.17	mg/Kg	02/08/04	SD
Fensulfothion	ND	1	1.0	mg/Kg	02/08/04	SD
Fenthion	ND	1	0.07	mg/Kg	02/08/04	SD
Malathion	ND	1	0.02	mg/Kg	02/08/04	SD
Merphos	ND	1	0.17	mg/Kg	02/08/04	SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/08/04	SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/08/04	SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/08/04	SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/08/04	SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/08/04	SD
Ronnel	ND	1	0.2	mg/Kg	02/08/04	SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/08/04	SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/08/04	SD
Trichloronate	ND	1	0.1	mg/Kg	02/08/04	SD

Surrogates		Units	Control Limits
TBP (sur)	86	%	50 - 145
TPP (sur)	59	%	50 - 145

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Fac

Order # 496123
Matrix: SOLID
Date Sampled: 02/04/2004
Time Sampled:
Sampled By:

Client: Enviro-Chem Laboratories, Inc.
Client Sample ID: 040205-18 to 21

8141 Organophosphate Pesticides

Analyte	Result	DF	DLR	Units	Date/Analyst	
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/08/04	SD
Bolstar	ND	1	0.1	mg/Kg	02/08/04	SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/08/04	SD
Coumaphos	ND	1	1.0	mg/Kg	02/08/04	SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/08/04	SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/08/04	SD
Diazinon	ND	1	0.4	mg/Kg	02/08/04	SD
Dichlorvos	ND	1	0.07	mg/Kg	02/08/04	SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/08/04	SD
Ethoprop	ND	1	0.17	mg/Kg	02/08/04	SD
Fensulfothion	ND	1	1.0	mg/Kg	02/08/04	SD
Fenthion	ND	1	0.07	mg/Kg	02/08/04	SD
Malathion	ND	1	0.02	mg/Kg	02/08/04	SD
Merphos	ND	1	0.17	mg/Kg	02/08/04	SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/08/04	SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/08/04	SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/08/04	SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/08/04	SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/08/04	SD
Ronnel	ND	1	0.2	mg/Kg	02/08/04	SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/08/04	SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/08/04	SD
Trichloronate	ND	1	0.1	mg/Kg	02/08/04	SD

Surrogates		Units	Control Limits
TBP (sur)	84	%	50 - 145
TPP (sur)	59	%	50 - 145

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Fac

Order # 496124 **Client:** Enviro-Chem Laboratories, Inc.
Matrix: SOLID **Client Sample ID:** Laboratory Method Blank
Date Sampled:
Time Sampled:
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8141 Organophosphate Pesticides					
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/07/04 SD
Bolstar	ND	1	0.1	mg/Kg	02/07/04 SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/07/04 SD
Coumaphos	ND	1	1.0	mg/Kg	02/07/04 SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/07/04 SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/07/04 SD
Diazinon	ND	1	0.4	mg/Kg	02/07/04 SD
Dichlorvos	ND	1	0.07	mg/Kg	02/07/04 SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/07/04 SD
Ethoprop	ND	1	0.17	mg/Kg	02/07/04 SD
Fensulfothion	ND	1	1.0	mg/Kg	02/07/04 SD
Fenthion	ND	1	0.07	mg/Kg	02/07/04 SD
Malathion	ND	1	0.02	mg/Kg	02/07/04 SD
Merphos	ND	1	0.17	mg/Kg	02/07/04 SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/07/04 SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/07/04 SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/07/04 SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/07/04 SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/07/04 SD
Ronnel	ND	1	0.2	mg/Kg	02/07/04 SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/07/04 SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/07/04 SD
Trichloronate	ND	1	0.1	mg/Kg	02/07/04 SD

Surrogates		Units	Control Limits
TBP (sur)	79	%	50 - 145
TPP (sur)	68	%	50 - 145

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Fac

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE # 1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
~~0~~ 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	8081	8141	8151									COMMENTS
				Analysis Required															
G9-A	040205-1	2-4-04		Soil	1	4°	ICE	X	X	X									Composite Samples
G9-B	-2							X	X	X									
G9-C	-3							X	X	X									
G9-D	-4							X	X	X									
G10-A	-5							X	X	X									Composite Samples
G10-B	-6							X	X	X									
G10-C	-7							X	X	X									
G10-D	-8							X	X	X									
G11-A	-9							X	X	X									Composite Samples
G11-B	-10							X	X	X									
G11-C	-11							X	X	X									
G11-D	-12							X	X	X									
G11-E	-13							X	X	X									

Company Name: Building Analytx
Address: 528 State St
City/State/Zip: Glendale CA 91203

Project Contact: Russell Cate
Tel: (818) 500-1878
Fax: (818) 246-8195

Sampler's Signature: Russell Cate
Project Name/ID: River Village 104012

Relinquished by: Russell Cate	Received by:	Date & Time: 2/5/04 0820	Instructions for Sample Storage After Analysis:
Relinquished by:	Received by:	Date & Time: 2/5/04 1005	O Dispose of O Return to Client O Store (30 Days)
Relinquished by:	Received by:	Date & Time:	O Other:

CHAIN OF CUSTODY RECORD

Date: _____

WHITE WITH SAMPLE - YELLOW TO CLIENT

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE # 1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
X 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	8081	8141	8151	Misc.	COMMENTS
				Analysis Required								
G12-A	040205-14	2-4-04		Soil	1	4°C	ICE	X	X	X		
G12-B	-15							X	X	X		Composite Samples
G12-C	-16							X	X	X		
G12-D	-17							X	X	X		
G17-A	-18							X	X	X		
G17-B	-19							X	X	X		Composite Samples
G17-C	-20							X	X	X		
G17-D	-21							X	X	X		

Company Name: Building Analytics
Address: 528 State St.
City/State/Zip: Glendale CA 91203

Project Contact: Russell Cote
Tel: (818) 500-1898
Fax: (818) 246-8195

Sampler's Signature: Russell Cote
Project Name/ID: Riverville
10/1012

Relinquished by: Russell Cote — Received by: — Date & Time: 2/5/04 0820
Relinquished by: — Received by: — Date & Time: 2/5/04 1005
Relinquished by: — Received by: — Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: February 11, 2004

FEB 17 2004

Mr. Russell Cote
BA Environmental
528 State Street
Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

Project: **Newhall Land / 104012**

Dear Mr. Cote:

The analytical results for the soil samples, received by our Lab on February 4, 2004, are attached.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Jesse Tu, Ph.D.
Laboratory Manager

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/04/04
DATE EXTRACTED: 02/06/04
DATE ANALYZED: 02/08/04
DATE REPORTED: 02/11/04

SAMPLE I.D.: **G13-A/B/C/D (Composite)**
LAB I.D.: 040204-53,-54,-55,-56 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	0.001	0.001
gamma-Chlordane	0.004	0.001
4,4'-DDD	0.001	0.001
4,4'-DDE	0.026	0.001
4,4'-DDT	0.006	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	0.061	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	0.001	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: BA Environmental
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: Newhall Land / 104012
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/04/04
DATE EXTRACTED: 02/06/04
DATE ANALYZED: 02/08/04
DATE REPORTED: 02/11/04

SAMPLE I.D.: **G14-A/B/C/D (Composite)**
LAB I.D.: 040204-57,-58,-59,-60 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	0.002	0.001
gamma-Chlordane	0.015	0.001
4,4'-DDD	0.001	0.001
4,4'-DDE	0.007	0.001
4,4'-DDT	0.015	0.001
Dieldrin	0.003	0.001
Endosulfan I	0.001	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	0.005	0.001
Endrin	0.082	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/04/04
DATE EXTRACTED: 02/06/04
DATE ANALYZED: 02/08/04
DATE REPORTED: 02/11/04

SAMPLE I.D.: **G15-A/B/C/D (Composite)**
LAB I.D.: 040204-61,-62,-63,-64 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	0.003	0.001
gamma-Chlordane	0.004	0.001
4,4'-DDD	0.001	0.001
4,4'-DDE	0.034	0.001
4,4'-DDT	0.007	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	0.055	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY:
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/04/04
DATE EXTRACTED: 02/06/04
DATE ANALYZED: 02/08/04
DATE REPORTED: 02/11/04

SAMPLE I.D.: **G16-A/B/C/D (Composite)**
LAB I.D.: 040204-65,-66,-67,-68 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	0.002	0.001
4,4'-DDT	0.003	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	0.004	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/04/04
DATE EXTRACTED: 02/06/04
DATE ANALYZED: 02/08/04
DATE REPORTED: 02/11/04

METHOD BLANK FOR LAB I.D.: 040204-53 TO -56 (Composite), 040204-57 TO -60 (Composite), 040204-61 TO -64 (Composite), 040204-65 TO -68 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	ND	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	ND	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

EPA 8081 QA/QC Report

Matrix: Soil
Unit: mg/Kg

Date Analyzed: 2/8/2004

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 040205-58

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.050	0.044	**87%**	0.043	**86%**	**1%**	**0-20%**	**70-130**
Aldrin	0.000	0.050	0.044	**87%**	0.044	**88%**	**1%**	**0-20%**	**70-130**
4,4-DDE	0.000	0.050	0.044	**89%**	0.045	**89%**	**1%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.050	0.051	**103%**	**75-125**
Aldrin	0.050	0.048	**97%**	**75-125**
4,4-DDE	0.050	0.053	**107%**	**75-125**
Dieldrin	0.050	0.052	**103%**	**75-125**

Surrogate Recovery	ACP%	MB	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.			**040205-58**	**040205-59**	**040205-60**	**040205-61**	**040204-53~56**	**040204-57~60**
Tetra-chloro-meta-xylene		118%	102%	103%	89%	105%	119%	106%
Decachlorobipneyl	50-150	118%	101%	110%	108%	109%	108%	105%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	**040204-61~64**	**040204-65~68**						
Tetra-chloro-meta-xylene	104%	115%						
Decachlorobipneyl	98%	119%						

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result
spk conc = Spike Concentration
%REC = Percent Recovery
ACP %RPD = Acceptable Percent RPD Range
ACP %REC = Acceptable Percent Recovery Range

** = Surrogate fail due to matrix interference*

Note: *LCS, MS, MSD are in control therefore results are in control.*

Analyzed and Reviewed By: _____

Final Reviewer: _____

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/04/04
DATE EXTRACTED: 02/06-07/04
DATE ANALYZED: 02/09/04
DATE REPORTED: 02/11/04

SAMPLE I.D.: **G13-A/B/C/D (Composite)**
LAB I.D.: 040204-53,-54,-55,-56 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: BA Environmental
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/04/04
DATE EXTRACTED: 02/06-07/04
DATE ANALYZED: 02/09/04
DATE REPORTED: 02/11/04

SAMPLE I.D.: **G14-A/B/C/D (Composite)**
LAB I.D.: 040204-57,-58,-59,-60 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: BA Environmental
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/04/04
DATE EXTRACTED: 02/06-07/04
DATE ANALYZED: 02/09/04
DATE REPORTED: 02/11/04

SAMPLE I.D.: **G15-A/B/C/D (Composite)**
LAB I.D.: 040204-61,-62,-63,-64 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/04/04
DATE EXTRACTED: 02/06-07/04
DATE ANALYZED: 02/09/04
DATE REPORTED: 02/11/04

SAMPLE I.D.: **G16-A/B/C/D (Composite)**
LAB I.D.: 040204-65,-66,-67,-68 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/04/04
DATE EXTRACTED: 02/06-07/04
DATE ANALYZED: 02/09/04
DATE REPORTED: 02/11/04

METHOD BLANK FOR LAB I.D.: 040204-53 TO -56 (Composite), 040204-57 TO -60 (Composite), 040204-61 TO -64 (Composite), 040204-65 TO -68 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

QA/QC Report

Analysis: EPA 8151A

Matrix: **SOIL** Date Analyzed: **2/8-9/2004**

Unit: **mg/Kg (PPM)**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 040206-15

Analyte	S.R.	spk conc	MS	% REC	MSD	% REC	%RPD	ACP %RPD	ACP %REC
2,4,5-T	0	1.0	1.18	**118%**	1.19	**119%**	**1%**	**0-20%**	**50-150**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
2,4,5-T	0.100	0.115	115%	**70-130**
2,4,5-TP	0.100	0.114	114%	**70-130**
2,4-DB	1.00	1.08	108%	**70-130**

Surrogate Recovery:

Analyte	spk conc	ACP %	M-BLK	%REC	%REC	%REC	%REC	%REC	%REC
Sample ID:				040205-58	040205-59	040205-60	040205-61	040204-53~56	040204-57~60
DCAA	0.20	50-150	73%	79%	78%	81%	81%	97%	97%

Analyte	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample ID:	040204-61~64	040204-65~68	040205-1~4	040205-5~8	040205-9~13	040205-14~17	040205-18~21	040206-14	040206-15
DCAA	95%	89%	108%	88%	127%	99%	118%	100%	107%

Analyte	%REC	%REC	%REC	%REC	%REC
Sample ID:	040204-29				
DCAA	76%				

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: _____

Final Reviewer: _____

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: February 12, 2004

Mr. Russell Cote
BA Environmental
528 State Street
Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

Project: **Newhall Land / 104012; 8141A**

Dear Mr. Cote:

The analytical results for the soil samples, received by our Lab on February 4, 2004, are attached.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Jesse Tu, Ph.D.
Laboratory Manager

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

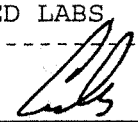
DATE RECEIVED: 02/04/04
DATE EXTRACTED: 02/06/04
DATE ANALYZED: 02/08/04
DATE REPORTED: 02/12/04

SAMPLE I.D.: **G13-A/B/C/D (Composite)**
LAB I.D.: 040204-53,-54,-55,-56 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: 
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

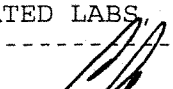
DATE RECEIVED: 02/04/04
DATE EXTRACTED: 02/06/04
DATE ANALYZED: 02/08/04
DATE REPORTED: 02/12/04

SAMPLE I.D.: **G14-A/B/C/D (Composite)**
LAB I.D.: 040204-57,-58,-59,-60 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: 
CAL-DHS ELAP CERTIFICATE No.: 1555

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1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

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528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/04/04
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DATE REPORTED: 02/12/04

SAMPLE I.D.: **G15-A/B/C/D (Composite)**
LAB I.D.: 040204-61,-62,-63,-64 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
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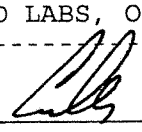
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: 
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

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528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/04/04
DATE EXTRACTED: 02/06/04
DATE ANALYZED: 02/08/04
DATE REPORTED: 02/12/04

SAMPLE I.D.: **G16-A/B/C/D (Composite)**
LAB I.D.: 040204-65,-66,-67,-68 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 02/02/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 02/04/04
DATE EXTRACTED: 02/06/04
DATE ANALYZED: 02/07/04
DATE REPORTED: 02/12/04

METHOD BLANK FOR LAB I.D.: 040204-53 TO -56 (Composite), 040204-57 TO -60 (Composite), 040204-61 TO -64 (Composite), 040204-65 TO -68 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: 
CAL-DHS ELAP CERTIFICATE No.: 1555

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Enviro-Chem Laboratories, Inc. (7420)
ATTN: Curtis Desilets
1214 E. Lexington Avenue
Pomona, CA 91766

LAB REQUEST 124125

REPORTED 02/09/2004
RECEIVED 02/05/2004

PROJECT 040204-53 to 56, 57 to 60, 61 to 64, 65 to 68

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
496125	040204-53 to 56
496126	040204-57 to 60
496127	040204-61 to 64
496128	040204-65 to 68
496129	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 496125 **Client:** Enviro-Chem Laboratories, Inc.

Matrix: SOLID **Client Sample ID:** 040204-53 to 56

Date Sampled: 02/02/2004

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8141 Organophosphate Pesticides						
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/08/04	SD
Bolstar	ND	1	0.1	mg/Kg	02/08/04	SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/08/04	SD
Coumaphos	ND	1	1.0	mg/Kg	02/08/04	SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/08/04	SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/08/04	SD
Diazinon	ND	1	0.4	mg/Kg	02/08/04	SD
Dichlorvos	ND	1	0.07	mg/Kg	02/08/04	SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/08/04	SD
Ethoprop	ND	1	0.17	mg/Kg	02/08/04	SD
Fensulfothion	ND	1	1.0	mg/Kg	02/08/04	SD
Fenthion	ND	1	0.07	mg/Kg	02/08/04	SD
Malathion	ND	1	0.02	mg/Kg	02/08/04	SD
Merphos	ND	1	0.17	mg/Kg	02/08/04	SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/08/04	SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/08/04	SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/08/04	SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/08/04	SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/08/04	SD
Ronnel	ND	1	0.2	mg/Kg	02/08/04	SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/08/04	SD
Tokuthion (Prothiofos)	ND	1	0.33	mg/Kg	02/08/04	SD
Trichloronate	ND	1	0.1	mg/Kg	02/08/04	SD
Surrogates				**Units**	**Control Limits**	
TBP (sur)	82			%	50 - 145	
TPP (sur)	66			%	50 - 145	

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 496126
Matrix: SOLID
Sampled: 02/02/2004
Time Sampled:
Sampled By:

Client: Enviro-Chem Laboratories, Inc.
Client Sample ID: 040204-57 to 60

Analyte	Result	DF	DLR	Units	Date/Analyst
8141 Organophosphate Pesticides					
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/08/04 SD
Bolstar	ND	1	0.1	mg/Kg	02/08/04 SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/08/04 SD
Coumaphos	ND	1	1.0	mg/Kg	02/08/04 SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/08/04 SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/08/04 SD
Diazinon	ND	1	0.4	mg/Kg	02/08/04 SD
Dichlorvos	ND	1	0.07	mg/Kg	02/08/04 SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/08/04 SD
Ethoprop	ND	1	0.17	mg/Kg	02/08/04 SD
Fensulfothion	ND	1	1.0	mg/Kg	02/08/04 SD
Fenthion	ND	1	0.07	mg/Kg	02/08/04 SD
Malathion	ND	1	0.02	mg/Kg	02/08/04 SD
Merphos	ND	1	0.17	mg/Kg	02/08/04 SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/08/04 SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/08/04 SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/08/04 SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/08/04 SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/08/04 SD
Ronnel	ND	1	0.2	mg/Kg	02/08/04 SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/08/04 SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/08/04 SD
Trichloronate	ND	1	0.1	mg/Kg	02/08/04 SD
Surrogates				**Units**	**Control Limits**
TBP (sur)	81			%	50 - 145
TPP (sur)	59			%	50 - 145

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 496127
Matrix: SOLID
Sampled: 02/02/2004
Time Sampled:
Sampled By:

Client: Enviro-Chem Laboratories, Inc.
Client Sample ID: 040204-61 to 64

Analyte	Result	DF	DLR	Units	Date/Analyst
8141 Organophosphate Pesticides					
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/08/04 SD
Bolstar	ND	1	0.1	mg/Kg	02/08/04 SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/08/04 SD
Coumaphos	ND	1	1.0	mg/Kg	02/08/04 SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/08/04 SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/08/04 SD
Diazinon	ND	1	0.4	mg/Kg	02/08/04 SD
Dichlorvos	ND	1	0.07	mg/Kg	02/08/04 SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/08/04 SD
Ethoprop	ND	1	0.17	mg/Kg	02/08/04 SD
Fensulfothion	ND	1	1.0	mg/Kg	02/08/04 SD
Fenthion	ND	1	0.07	mg/Kg	02/08/04 SD
Malathion	ND	1	0.02	mg/Kg	02/08/04 SD
Merphos	ND	1	0.17	mg/Kg	02/08/04 SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/08/04 SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/08/04 SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/08/04 SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/08/04 SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/08/04 SD
Ronnel	ND	1	0.2	mg/Kg	02/08/04 SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/08/04 SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/08/04 SD
Trichloronate	ND	1	0.1	mg/Kg	02/08/04 SD
Surrogates				**Units**	**Control Limits**
TBP (sur)	83			%	50 - 145
TPP (sur)	57			%	50 - 145

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 496128
Matrix: SOLID
Sampled: 02/02/2004
Time Sampled:
Sampled By:

Client: Enviro-Chem Laboratories, Inc.
Client Sample ID: 040204-65 to 68

Analyte	Result	DF	DLR	Units	Date/Analyst
8141 Organophosphate Pesticides					
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/08/04 SD
Bolstar	ND	1	0.1	mg/Kg	02/08/04 SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/08/04 SD
Coumaphos	ND	1	1.0	mg/Kg	02/08/04 SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/08/04 SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/08/04 SD
Diazinon	ND	1	0.4	mg/Kg	02/08/04 SD
Dichlorvos	ND	1	0.07	mg/Kg	02/08/04 SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/08/04 SD
Ethoprop	ND	1	0.17	mg/Kg	02/08/04 SD
Fensulfothion	ND	1	1.0	mg/Kg	02/08/04 SD
Fenthion	ND	1	0.07	mg/Kg	02/08/04 SD
Malathion	ND	1	0.02	mg/Kg	02/08/04 SD
Merphos	ND	1	0.17	mg/Kg	02/08/04 SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/08/04 SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/08/04 SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/08/04 SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/08/04 SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/08/04 SD
Ronnel	ND	1	0.2	mg/Kg	02/08/04 SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/08/04 SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/08/04 SD
Trichloronate	ND	1	0.1	mg/Kg	02/08/04 SD

Surrogates		Units	Control Limits
TBP (sur)	79	%	50 - 145
TPP (sur)	54	%	50 - 145

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 496129
Matrix: SOLID
Sampled:
Time Sampled:
Sampled By:

Client: Enviro-Chem Laboratories, Inc.
Client Sample ID: Laboratory Method Blank

8141 Organophosphate Pesticides

Analyte	Result	DF	DLR	Units	Date/Analyst
Azinophos Methyl (Guthion)	ND	1	1.0	mg/Kg	02/07/04 SD
Bolstar	ND	1	0.1	mg/Kg	02/07/04 SD
Chlorpyrifos(Dursban)	ND	1	0.2	mg/Kg	02/07/04 SD
Coumaphos	ND	1	1.0	mg/Kg	02/07/04 SD
Demeton(Systox)-O	ND	1	0.17	mg/Kg	02/07/04 SD
Demeton(Systox)-S	ND	1	0.17	mg/Kg	02/07/04 SD
Diazinon	ND	1	0.4	mg/Kg	02/07/04 SD
Dichlorvos	ND	1	0.07	mg/Kg	02/07/04 SD
Disulfoton (Disyston)	ND	1	0.13	mg/Kg	02/07/04 SD
Ethoprop	ND	1	0.17	mg/Kg	02/07/04 SD
Fensulfothion	ND	1	1.0	mg/Kg	02/07/04 SD
Fenthion	ND	1	0.07	mg/Kg	02/07/04 SD
Malathion	ND	1	0.02	mg/Kg	02/07/04 SD
Merphos	ND	1	0.17	mg/Kg	02/07/04 SD
Mevinphos (Phosdrin)	ND	1	0.2	mg/Kg	02/07/04 SD
Naled (Dibrom)	ND	1	0.07	mg/Kg	02/07/04 SD
Parathion Ethyl	ND	1	0.02	mg/Kg	02/07/04 SD
Parathion Methyl	ND	1	0.02	mg/Kg	02/07/04 SD
Phorate (Thimet)	ND	1	0.1	mg/Kg	02/07/04 SD
Ronnel	ND	1	0.2	mg/Kg	02/07/04 SD
Stirophos (Tetrachlorvinphos)	ND	1	3.35	mg/Kg	02/07/04 SD
Tokuthion (Protothiofos)	ND	1	0.33	mg/Kg	02/07/04 SD
Trichloronate	ND	1	0.1	mg/Kg	02/07/04 SD

Surrogates		Units	Control Limits
TBP (sur)	79	%	50 - 145
TPP (sur)	68	%	50 - 145

DLR = Detection limit for reporting purposes. ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8141

Preparative Method: EPA 3545

QC Sample: 124124-496119

Matrix: SOLID

Analysis Date: 2/8/04

Batch Date: 02/06/04 (op 020604s)

Applies to: LR 124124 and LR 124125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Demeton-O	ND	0.400	0.336	0.334	84	84	1	35	45-140
Ethoprop	ND	0.400	0.340	0.335	85	84	1	35	45-140
Naled	ND	0.400	0.374	0.350	93	87	7	35	45-140
Diazinon	ND	0.400	0.340	0.340	85	85	0	35	45-140
[illegible]hos	ND	0.400	0.329	0.322	82	80	2	35	45-140
Fensulfothion	ND	0.400	0.390	0.394	98	99	1	35	45-140
Azinophos, Methyl-	ND	0.400	0.297	0.286	74	72	4	35	45-140
Coumaphos	ND	0.400	0.196	0.187	49	47	5	35	45-140

ND = Not Detected
% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE / LAB CONTROL SPIKE DUPLICATE RECOVERIES
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limits
Demeton-O	0.400	0.341	85	55-130
Ethoprop	0.400	0.356	89	55-130
Naled	0.400	0.394	99	55-130
Diazinon	0.400	0.352	88	55-130
Stirophos	0.400	0.353	88	55-130
Fensulfothion	0.400	0.400	100	55-130
[illegible]inophos, Methyl-	0.400	0.346	86	55-130
[illegible]umaphos	0.400	0.278	69	55-130

Method Blank = All ND
% Rec - LCS & LCSD = Percent Recovery from Lab Control Spike & Lab Control Spike Duplicate
RPD = Relative Percent Difference of Lab Control Spike and Lab Control Spike Duplicate recoveries

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE # 1555

124125

Turnaround Time
- 0 Same Day
- 0 24 Hours
- 0 48 Hours
- 0 72 Hours
- 1 Week (Standard)
- Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	8141	ASSOCIATED	COMMENTS
040204-53→56		2/2/04		Soi	—		—	X		DANIELLE - PLEASE REFER TO QUOTE
-57→60		↓		↓	↓		↓	↓		
-61→64										
-65→68										

Analysis Required

Company Name:
~~Enviro Chem, Inc.~~
1214 E. Lexington Avenue
Pomona, CA 91763-5914

Address:

City/State/Zip:

Project Contact: Curtis B. Desilets

Tel: (909) 590-5905

Fax: (909) 590-5907

Sampler's Signature:

Project Name/ID: 040204-53→56, 57→60, 61→64, 65→68

Relinquished by: X

Relinquished by: Steve Igo

Relinquished by:

Received by: Steve Igo

Received by:

Received by:

Date & Time: 2/5/04 1420

Date & Time: 2/5/04 1700

Date & Time:

Instructions for Sample Storage After Analysis
- Dispose of
- O Return to Client
- O Store (30 Days)
- O Other:

CHAIN OF CUSTODY RECORD

WHITE WITH SAMPLE, YELLOW TO CLIENT

Page 1 of 1

FEB-12-2004 15:39 FROM-ASSOCIATED LABORATORIES 714-330-1209 T-030 P.009/009 F-019

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE # 1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
X 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	8051	8141	8151									COMMENTS
								Analysis Required											
G13-A	060204-53	2-2-04		Soil	1		ICE	X	X	X									Composite Samples
G13-B	-54							X	X	X									
G13-C	-55							X	X	X									
G13-D	-56							X	X	X									
G14-A	-57							X	X	X									Composite Samples
G14-B	-58							X	X	X									
G14-C	-59							X	X	X									
G14-D	-60							X	X	X									
G15-A	-61							X	X	X									Composite Samples
G15-B	-62							X	X	X									
G15-C	-63							X	X	X									
G15-D	-64							X	X	X									

Company Name: Building Analytics
Address: 528 State St.
City/State/Zip: Glendale CA 91203

Project Contact: Russell Cole
Tel: (818) 500-1888
Fax: (818) 246-8155

Sampler's Signature: Russell Cole
Project Name/ID: River village 104012

Relinquished by: Russell Cole
Relinquished by:
Relinquished by:

Received by:
Received by:
Received by:

Date & Time: 2/4/04 1130
Date & Time: 2/4/04 1500
Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date:

WHITE WITH SAMPLE - YELLOW TO CLIENT

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE # 1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
X 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	8081	8141	8151							COMMENTS
								Analysis Required									
G16-A	040204-65	2-2-04		Soil	1		ICE	X	X	X							
G16-B	-66	↓		↓	↓		↓	X	X	X							Composite in to one sample
G16-C	-67	↓		↓	↓		↓	X	X	X							↓
G16-D	-68	↓		↓	↓		↓	X	X	X							↓

Company Name: Building Analytics
Address: 528 State St
City/State/Zip: Glendale CA 91203

Project Contact: Russell Cote
Tel: (818) 500-1558
Fax: (818) 246-8195

Sampler's Signature: Russell Cote
Project Name/ID: River village
104012

Relinquished by: Russell Cote	Received by:	Date & Time: 2/4/04 1730
Relinquished by:	Received by:	Date & Time: 2/4/04 1800
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

APPENDIX E:

Oil Well Records

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF WELL PLUGGING AND ABANDONMENT

Ventura, California

September 21, 1994

EXXON Corporation
Attn: Env. & Reg. Affairs
P.O. Box 1600
Midland, TX 79702

Your report of the plugging and abandonment of well "Newhall Land & Farming Co." 2, A.P.I. No. 037-16473, Section 14, T. 4N, R. 17W, S.B. B.& M., Castaic Junction field, Los Angeles County, dated 10-28-93, received 11-05-93, has been examined in conjunction with records filed in this office. We have determined that all of the requirements of this Division have been fulfilled relative to plugging and abandonment of the well, removal of well equipment and junk, and the filing of well records.

svl

William F. Guerard, Jr
State Oil and Gas Supervisor

By Robert A. Kinnear
Patrick J. Kinnear
Deputy Supervisor

cc: Conservation Committee
Update

Modified OG159 (4/94)

OPERATOR EXXON
WELL NO. "N.C. & F Co." 2
MAP

A.P.I. 037- 16473
SECTION 14, T. 4 N, R. 17 W

INTENTION	ABANDON					
NOTICE DATED	5-7-93					
P-REPORT NUMBER	293-146					
CHECKED BY/DATE						
MAP LETTER DATED	12/25/93					
SYMBOL						

	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED
NOTICE	5-12-93											
HISTORY	11-5-93											
SUMMARY												
E-LOG												
MUD LOG												
DIPMETER												
DIRECTIONAL												
CORE/SWS												
CBL												

ENGINEERING CHECK

T-REPORTS	✓				
OPERATOR'S NAME	✓				
WELL NO.	✓				
LOC & ELEV	✓				
SIGNATURE	✓				
SURFACE INSP.	✓				
DRILL CARD					
RECORD'S COMPLETE	✓ SP				

FINAL LETTER OK
MAILED
RELEASED BOND

INJECTION BOOK
IDLE WELL LIST
SURFACE INSP. CARD
OK TO RELEASE FROM CONFIDENTIAL
ABANDONED-REMOVED FROM E.D.P.

REMARKS: SEC INSP CK 4-12-94 RW

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND
GEOTHERMAL RESOURCES

No. T293-311

Report on Operations

EXXON Corporation
Attn: Env. & Req. Affairs
P.O. Box 1600
Midland, Texas 79702

Ventura, California
December 20, 1993

Your operations at well "Newhall Land & Farming Co." 2, API No. 037-16473, Sec. 14, T. 3N, R. 17W, S.B. B.&M. Castaic Junction Field, in Los Angeles County, were witnessed on 10-21-93. Steve Mulqueen, representative of the supervisor, was present from 0700 to 0800. There were also present Ken Kennedy

Present condition of well: 13 3/8" cem 1493'; 7" cem 11,641', perf 10,254' WSO, cp 100' cp 1472'-1492' & cp 10,252', perfs @ int 10,270'-10,475' (cem off) & perfs @ int 11,200'-11,370'. Junk below 11,133'. TD 11,855'. Plugged w/ 65 sx cem below retainer @ 11,480', plugged w/cem 11,388'-10,054', 1500'-1224', and 124' - sfc.

The operations were performed for the purpose of abandonment.

DECISION:

The plugging operations as witnessed and reported are approved.

scv

William F. Guerard, Jr.
State Oil and Gas Supervisor

By

Patrick J. Kinnear
Deputy Supervisor

OG109 (Modified 1993)

T293-311

DIVISION OF OIL AND GAS
Cementing/Plugging Memo

Operator EXXON CORP. **Well No.** "N.L.& F." 2
API No. 037-16473 **Sec.** 14, **T.** 04N, **R.** 17W, SB B&M
Field CASTAIC JUNCTION, **County** LOS ANGELES. **On** 10-21-93,
Mr. ~~M&B~~. S. MULQUEEN, **representative of the supervisor, was present from** 0700 **to** 0800.
There were also present KEN KENNEDY

Casing record of well: 13 3/8" cem 1493'; 7" cem 11641', perf 10254' WSO, cp 100' cp 1472'-1492' & cp 10252', perfs @ int 10270'-10475' (cem off) & perfs @ int 11200'-11370'. Junk below 11133'. TD 11855'. Plugged w/ 65sx

The operations were performed for the purpose of ABANDONMENT
cem below retainer @ 11480', plugged w/ cem 11388'-10054', 1500'-1224', AND 124'-surface. AND reported

☒ **The plugging/~~cementing~~ operations as witnessed ~~and reported~~ are approved.**

☐ **The location and hardness of the cement plug @_____' is approved.**

Hole size:_____" **fr.**_____' **to**_____', _____" **to**_____' & _____" **to**_____'

	Casing				Cemented			Top of Fill		Squeezed Away	Final Press.	Perfs.
	Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus (TBG & F)	Casing			
A	7"	23 26 29	0	11641'	10-20	TBG @ 1500' CEMENTING METH.	162 cf	1326'±	1224'	104 cf	700 PSI	1472'-1492'

Casing/tubing recovered: _____" **shot/cut at** PERFORATE 1492' TO 1472', _____' **pulled fr.** ____'; _____" **shot/cut at** PERFORATE 100' TO 102', _____' **pulled fr.** _____'.

Junk (in hole): PACKER @ 11133

Hole fluid (bailed to) at_____'. **Witnessed by**_____

Mudding	Date	Bbls.	Displaced	Poured	Fill	Engr.
9.7#/g CLAY GEL	10-19-93	3/6 BBL	TBG @ 10050	—	1500' ±	S. MULQUEEN
"	10-20-93	176 BBL*	TBG @ 1500	—	SURFACE	"
		*128 BBL IN ANNULUS				

FILL @ 11300', CLEAN OUT TO 11400'.

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt/Sample	Date & Time	Engr.
10/14	146 cf	TBG @ 11388'	—	REPORTED	10726'	5K#	10/18 0830	S. MULQUEEN
10/18	145 cf	TBG @ 10720'	—	"	10054'	10K#	10/19 0920	"
A 10/20	162 cf	TBG @ 1500'	—	"	1224'	ALL TBG WEIGHT	10/21 0800	"

TESTED CASING TO 500# FOR 10 MIN.

Dist. 1

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Exxon Corporation **Field** Castaic Junction **County** Los Angeles
Well Newhall Land & Farming Co. #2 **Sec.** 14, **T** 4N, **R** 17W S.B.B. & M.
A.P.I. No. 037-16473 **Name** Julie H. Mitchell (Person submitting report) **Title** Staff Office Assist. (President, Secretary or Agent)
Date October 28, 19 93

Signature Julie H. Mitchell

Environmental & Regulatory Affairs, PO Box 1600, Midland, TX 79702 915/688-7888
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date

(see attached)

DIVISION OF OIL AND GAS
RECEIVED
NOV 5 1993
VENTURA, CALIFORNIA

OG103 (6/91/GSR1/5M)

NEWHALL LAND & FARMING CO - 0002 Lease# 061590 Job# 60008760
Field Supt R. O. Storey CMP# 4037164730001 AFE# 00039454
PLUG AND ABANDON

Expected Buildup oil/gas /
Estimated PI

Mix & pump 146 cuft, 90 sx, class G cement. Displace with 62 bbls lease water @ 2500 psi max. Pull out with 15+0 stand of tbg. Reverse out 35 min. Pull 10+0 stands to 9839 ft. Close in well, eot. Estimated top of cement @ 10688 ft.
Div of Oil & Gas, Steve Mulqueen, gave verbal ok to pump cement from 11,388 to 10,688 at 9:00 am.

--- 10/13/93
20 Min safety mtg. Check well (tbg 0, csg 0 psi). Bleed well. Cont rih with 2-7/8 N-80 tbg, 110 stands. Pick up and measure 101 jts. Tag top of fill @ 11,119 ft. Circulate well. Clean out from 1119 - 11121 ft, top of pkr. Stab thru pkr. Rih to 11300 ft. Pooh w/40 jt to 10100. Close in well. eot.

--- 10/12/93
Held 15 in safety mtg. Check well, tbg 0 psi, csg 60 psi. Bleed well. Fill well with 5 bbls lease water. Cont pooh, found heavey scale on out side of tbg. Lay down 118 jt N-80 tbg. Haul in 22 jts 1-3/4in tbg. Meas and pick up 1-3/4in tbg. Run 10+0 2-7/8 tbg, 600 ft. Close in well. eot

--- 10/11/93
Hold 20 min safety mtg. Check well (tbg 0 psi, csg 250 psi). Bleed csg circ 100 bbl lease water. Rig up Coast Wireline. RIH set btg plug @ 60 ft, ok. Rig out Coast. ND production Tree. Nipple up class III BOP and BOE, test ok. Rig up working floor and tbg equip. Rig up Coast slick line. Rih, retrieve tbg. plug from 60 ft well dead. Rig out Coast. Pooh with 2-7/8in N-80 tbg. Fill hole every 1200 ft, no flow. No loss of fluid. Pull 100 stands, 6200 ft. Close in well. eot.

--- 10/07/93
20 min safety mtg. Check out well. Tbg 450 psi, csg 540 psi. Remove 3in flange and gate valve. Well secure with bottom master valve. Rig up Coast Slickline and lubricator. RIH w/2-1/2in camco type B tbg plug. Set @ 60 ft. Pooh, attempt to bleed csg. Would not bleed off. Pump 100 bbl lease water. Csg flowing. Pull tbg plug form 60 ft. Circulate 300 bbl down tbg to kill well.

--- 10/06/93
MIRU. eot

10/27/93 MORNING REPORT 5:38PM

NEWHALL LAND & FARMING CO - 0002 Lease# 061590 Job# 60008760
Field Supt R. O. Storey CMP# 4037164730001 AFE# 00039454
PLUG AND ABANDON

Expected Buildup oil/gas /
Estimated PI

--- 10/21/93
Hold safety mtg. Open well (no pressure). RIH, tag top of cement @ 1224 ft. Pooh laying down 47 jts. Rig up Halliburton. Test lines. Mix & Pump 66 cuft, 58 sx, neat cement down 2-7/8in tbg (tail @ 124 ft), up 7 in and 13-3/8 casings to surface @ 300 psi max. Rig out Halliburton. Pooh lay down 4 jts 2-7/8 tbg. Clean BOPE and tbg equip. Rig down work floor RDMO
Div of Oil & Gas, Stephen Mulqueen, approved tag of cement @ 1224 ft. OK. pumping cement from 124 ft to surface.

--- 10/20/93
Hold 10 min safety mtg. Open well (no pressure). Cont pooh, laying down 2-3/8 N-80 tbg. Lay down 131 jts. POOH standing back in derrick 48 jts Fill well with 20 bbls lease water. Rig up MMI perforators. Rig up Lubricator. Held safety mtg. Rih w/20 ft strip shot Dyna Jet Perforator 4 HPF. Locate collar @ 1493 ft. Shoot holes from 1492-1472. Pooh, rig out MMI. Rih with 50 jts 2-7/8in tbg to 1500 ft. Circulate 175 bbls 9.7 ppg mud in 7in & 13-7/8in csg. Rig up Halliburton. Test lines 200# and 2000#, ok. Mix and Pump 141 sx neat cement with 3% Calcium Chloride. Displace with 8 bbls 9.7 ppg mud. Rig out Halliburton. Pooh with 2-7/8 tbg. Rig up MMI Rih w/2 ft strip shot Dyna Jet Perforator. 4 hpf. Shoot holes from 100 - 102 ft. Pooh, rig out MMI. Close in well, eot.

--- 10/19/93
Hold 20 min safety mtg. Open well (no pressure) RIH. tag top of cement @ 10054. Test csg 0-10054 @ 500# for 10 min, ok. POOH lay down 22 jts. Rih with 11 stands out of derrick with tbg tail @ 10050 ft, pump 316 bbls 9.7 ppg mud down well. Displace with 10 bbls lease water. Pooh, laying down 2-7/8in tbg. Close in well, eot.
Div of Oil & Gas, Steve Mulqueen, witnessed and approved: Mudding of hole from 10050-1500 ft. Tag of bottom hole plug @ 10054 as reported.

--- 10/18/93
Held 20 min safety mtg. Open well (tbg 0 psi, csg 70 psi). Rih, tag top of cement @ 10,726 ft. Circulate well. Rig up Halliburton with tail at 10720 ft. Test lines, ok.
Mix & Pump 145 cuft, 90 sx class G cement and displace with 56 bbls lease water @ 3000# max. Pull out with 40 jts to 8780 ft. Reverse out 35 min. Change tbg line. POOH laying down 2-7/8 tbg out of derrick. Close in well. eot.
Div of Oil & Gas, Steve Mulqueen, witnessed tag of cement @ 10726 and okayed placing of cement from 10726 to 10026.
Note: Cement mix: class G cement with 40% Silica Flour, .5% hr-7, and .5% R-3.

--- 10/14/93
Held 20 min safety mtg. Open well (No pressure). RIH w/2-7/8 in tbg. Work thru packer. Tag fill @ 11300 ft. Clean out to 11400 ft. Tbg is plugging. Pull to 11388, circulate well. Rig up Halliburton Test lines hold safety mtg.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS
AND GEOTHERMAL RESOURCES

No. P293-146
Field Code 126
Area Code 00
New Pool Code --
Old Pool Code 20

PERMIT TO CONDUCT WELL OPERATIONS

EXXON Corporation
Attn: Env. & Reg. Affairs
P.O. Box 1600
Midland, Texas 79702

Ventura, California
May 13, 1993

Your proposal to abandon well Newhall Land & Farming Co." 2, A.P.I. No. 037-16473, Section 14, T. 4 N, R. 17W, S.B. B.&M., Castaic Junction field, --- area, 21 Del Valle pool, Los Angeles County, dated 5-7-93, received 5-12-93, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Blowout prevention equipment conforming to DOG Class IIB 2M requirements shall be installed and maintained in operating condition at all times.
2. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
3. A diligent effort shall be made to clean out the well to at least 11,480'.
4. All portions of the well not plugged with cement are filled with inert mud fluid having a minimum density of 72 lbs./cu. ft. and a minimum gel-shear strength (10 min.) of 25 lbs./100 sq. ft.
5. This office shall be consulted before deviating from the proposed abandonment program.

Continued on Page 2

Blanket Bond
PK:SF:nr

Engineer Steve Fields

Phone (805) 654-4761

WILLIAM F. GUERARD, Jr.
Acting State Oil and Gas Supervisor

By Patrick J. Kinnear
Patrick J. Kinnear
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.
OG111

6. THIS DIVISION SHALL BE NOTIFIED:
   a. To witness the location and hardness of the cement plug at 10,152'.
   b. To witness the mudding of the well.
   c. To witness the squeeze-cementing of the 7" casing through the perforations at 1483'.
   d. To witness the location and hardness of the cement plug at 1383'.
   e. To witness the placing of the surface plug inside the 7" casing and the plug in the 7" x 13 3/8" casing annulus.
   f. To inspect and approve the cleanup of the well site before approval of abandonment will be issued.

KEN KENNEDY / S. MULQUEEN CLEAN-OUT TO 11400' 10-14-93

DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

NOTICE OF INTENTION TO ABANDON WELL

12b 20 26

DIVISION OF OIL AND GAS
RECEIVED
MAY 12 1993
VENTURA, CALIFORNIA

FOR DIVISION USE ONLY			
CARDS	BOND	FORMS	
		OGD114	OGD121
✓	BB	5-12-93 ✓	✓

DIVISION OF OIL AND GAS

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon well No. Newhall Land & Farming Co. #2 (Well designation), API No. 037-16473

Sec. 14, T. 4N, R. 17W, S.B. B. & M., Castaic Junction Field, Los Angeles County.

commencing work on 5/29, 1993.

The present condition of the well is:

1. **Total depth** 11,641

2. **Complete casing record, including plugs and perforations**
   13 3/8" 54.5# casing @ 0'-1493'
   7" 23/26/29# casing @ 0'-11,641' perfs:11,200'-11,370'

3. **Last produced** 06/86 2 8 47
   (Date) (Oil, B/D) (Water, B/D) (Gas, Mcf/D)

   OR

4. **Last injected** _____
   (Date) (Water, B/D) (Gas, Mcf/D) (Surface pressure)

Addtional Data for dry hole (show depths)

5. **Uppermost oil or gas shows**
   Zone 21: 10,270'-10,430'

6. **Stratigraphic markers:**

7. **Formation and age at total depth:**

8. **Base of fresh water sands:** 1490'

5. Is this a critical well according to Section 1720(a), California Code of Regulations? Yes [X] No [ ]

The proposed work is as follows:

1 MIRU. Install and test a DOG class II 5M BOPE.
2. Clean to bottom of 7" casing @ 11,641'.
3. Place class "G" cement plug from 11,641'-10,152', pumping plug in three stages, cementing the 7" casing prefs and to 100' above WSO at 10,252', TOC at 10,152'. Dog to witness.
4. Shoot 4 SPF in the 7" casing @ 1493'to 1983 and place a class "G" cement plug from 1493' to 1373',squeezing the 7" x 13 3/8" annulus. DOG to witness.
5. Shoot 4 holes in the 7" casing @ 100' and circulate a class "G" cement plug from 100' to the surface getting returns in the casing/conductor annulus. DOG to witness.
6. Cut of casing @ 5' and weld plate with well identifier.
7. Clean location. DOG will inspect.

It is understood that if changes in this plan become necessary, we are to notify you immediately

Address 25 Desta Drive P.O. Box 1600
(Street)
Midland, Tx. 79702
(City) (State) (Zip)

Telephone Number 915-688-7888

Exxon Corporation
(Name of Operator)

By Judy M. Bagwell
(Name-Printed)

Judy Bagwell 5-7-93
(Name-Signature) (Date)

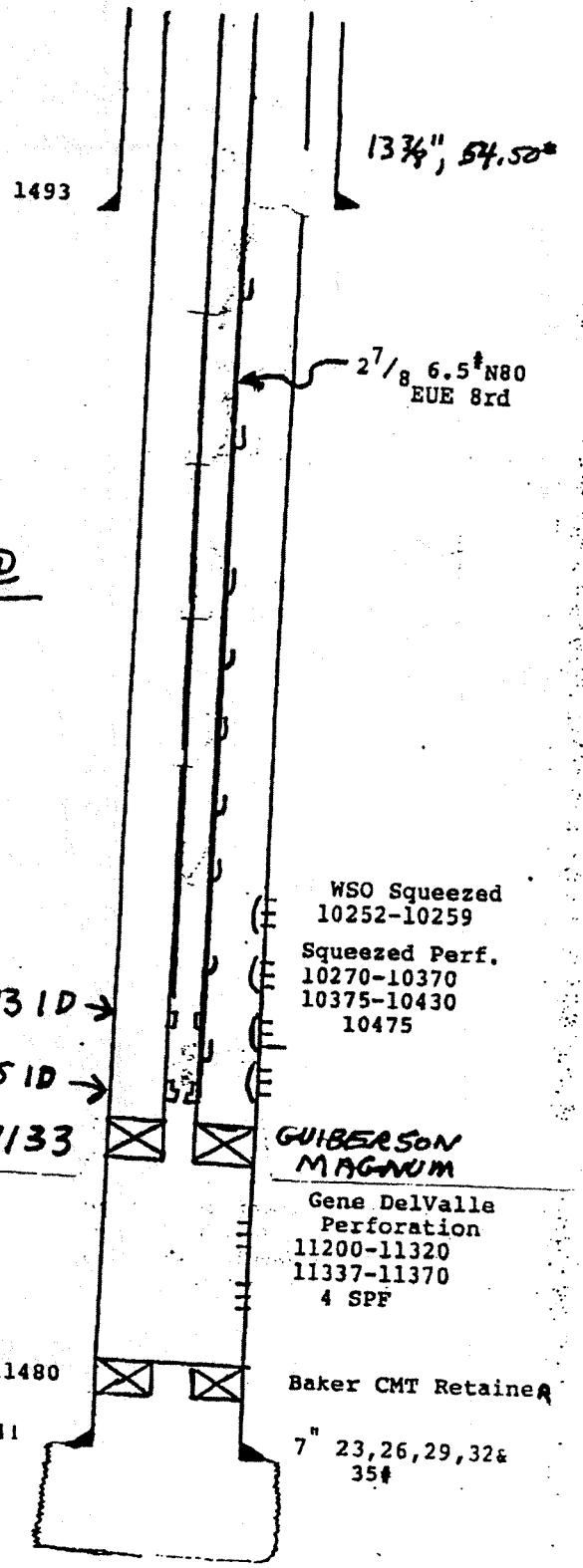
Type of Organization Corporation

OG108

N.L.&F. 2

BEFORE P+A

KB is 14.15' above csg hd flange



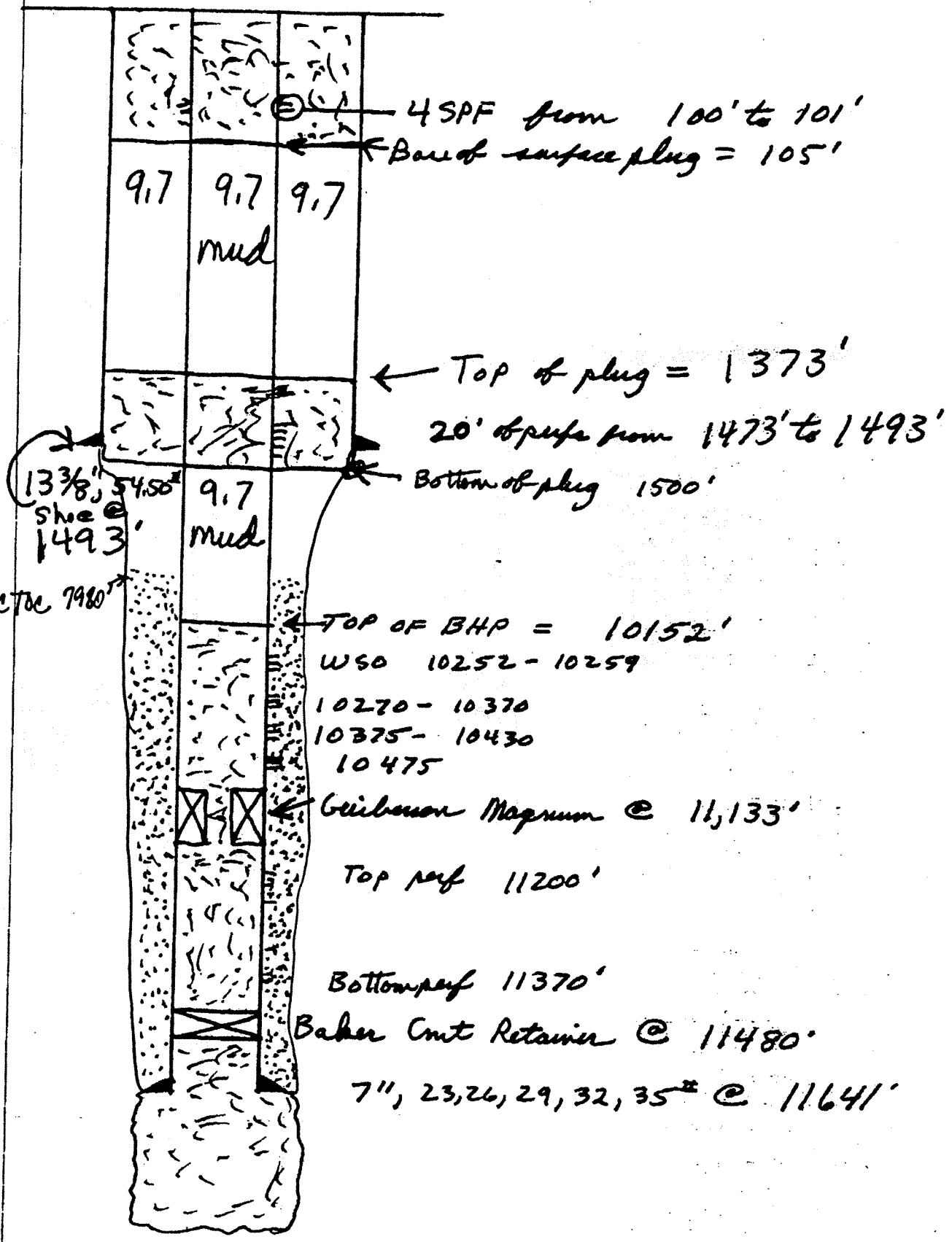
7" CSG Detail	9-GLM's @
35# 0-407	2394
32# 407-1453	4245
29# 1453-2621	6099
26# 2621-3406	7110
23# 3406-5535	8113
26# 5535-6059	9111
29# 6059-8771	10108
32# 8771-10649	10987
35#10649-11641	11062

all N-80 grade excpt 23# S-95

DIVISION OF OIL AND GAS
RECEIVED
MAY 12 1993
VENTURA, CALIFORNIA

NL+F # 2 DM 9-8-92

AFTER P+A



13 3/8", 54.5# casing @ 0'-1493'
7" 26/29/32# casing @ 0'-11,641' slots:11,200'-11370'

SAFETY
Conduct a safety meeting to instruct all personnel on possible hazards in the area. At least 20# of dry chemical is to be on location, as a minumum, for fire fighting equipment. No smoking is to be allowed on location and all personnel are required to wear safety glasses, boots, and hard hats.

OBJECTIVE
Permanently plug and abandon the well.

FAX MORNING REPORTS TO:

KEN SHAFTO	915-688-6162	MIDLAND RES/SUBSURFACE
SHARON TOMLIN	915-688-6199	MIDLAND REGULATORY AFFAIRS
RICK STOREY	805-762-7284	HILL PROPERTY SR.SUPT

NOTE: DOG VENTURA REPRESENTATIVES ARE TO WITNESS ALL PLUG SETTINGS. NOTIFY AGENCY OF INTENT TO PLUG AT LEAST 24 HRS BEFORE COMMENCING PLUGGING OPERATIONS. RECORD THE DOG REPRESENTATIVES' NAME ON THE MORNING REPORT THAT WITNESSES OR WAIVES A PART OF AN ABANDONMENT. VENTURA OFFICE 805-656-4761

MECHANICAL CONSIDERATIONS: During a workover in 11/85 a tight spot in the 7"casing from 7962'-7968' was swedged to 5 1/2". A Guiberson Magnum type "H" packer was set on a wireline @ 11,133, 2 7/8" N-80, 8rd tubing was set w/10,000# on packer and no latch.

PROCEDURE

1. Ensure that the DOG "Permit to Conduct Well Operations" (Abandonment) and the program and the AFE are available prior to the commencement of any work.

2. BEFORE RIG-UP: Prepare location, remove debris, repair roads, install/inspect rig anchors, flush flow line and remove to the edge of the location.

3. MIRU WSU. Bleed off any pressure on the well (casing and tubing). Load or kill the well if necessary. Set tubing plug.

4. N/D tree. NU an Exxon Class III 5M (DOG Class II 5M) BOP with a hydraulic actuating system. Test the BOP to 250/5000 psi.

5. Pull out of Guiberson Magnum type "H" permanent packer @ 11,133', max pull is 77% of tubing yield. Circulate B/U.

6. POOH L/D GLM's, X nipple, "A" nipple, seal assembly etc. Check condition of tubing. P/U workstring.

8. Clean out to bottom @ 11,480' PBTD in 7" liner. Notify DOG of top of fill and clean out depth if unable to clean out to TD.

9. RU cementers and test lines to 250/5000 psi. Mix and pump the following slurry to spot a balanced plug from 11480' to 10152'.

10. 11480'-10152'=328' X .2210 = 73 cu. ft. X 2 = 146 cu.ft.

Cement type	Class "G" + Silica Flour
Retarder	0.03%
Friction Retarder	0.02%
Fluid loss additive	1.0%
Weight	15.7 PPG
Amount	92 sx (146 cu/ft=100% excess)
Yield	1.585 CU.FT/SK
Water required	6.54 GAL/SK
TTT @ 180 Deg F BHCT	3.30 Hrs.
Compressive strengths @	230 Deg F BHST
8 HOURS 1750 psi	
24 HOURS 4800 psi	

11. POOH 5 stands above calculated TOC and reverse out tubing. POOH 3 stands and WOC 8 hrs. Tag top of plug (10152') and have DOG witness.

12. Test casing integrity to 500 psi for 10 minutes.

13. Displace fluid in the hole with approximately 558 bbls of 9.7 ppg mud.

7", 23# = 10152' x .0393 = 400 BBLS
7"x 13 3/8"= 1480' x .1070 = 158 BBLS

14. POOH lay down excess pipe .

15. Perforate 20' of 4 1/2" SPF centered at 1483' @ the base of fresh water. RIH with tubing open ended to 1483' circulate mud up the 7" X 13 3/8" annulus to the surface.

16. NOTIFY THE DOG TO WITNESS PUMPING THE FRESHWATER PLUG: R/U cementers & test lines 250/2000 psi. pump and squeeze cement slurry to place cement plug in the 7" and the 7"x10 3/4" annulus so the TOC will be 100' above the BFW.

100' of 7", 23# X .2210 = 22 cu.ft.
100' of 7" X 13 3/8" = .6007 = 60 cu.ft.

Cement type	Class "G" + 2% CaCl2
Weight	15.7 PPG
Amount	143 sx (164 cu/ft= 100% excess)
Yield	1.15 CU.FT/SK
Water required	4.96 GAL/SK
TTT @ 180 Deg F BHCT	4.45 Hrs.

Compressive strengths @ 90 Deg F BHST
8 HOURS 155 psi
24 HOURS 1523psi

17. R/U wireline and shoot 4 SPF (90 degrees phasing) in the 7" csg @ 100' (or deeper if required by Newhall grading plan).

18. RIH to 100' and establish circulation in the 7" X 13 3/8" annulus. R/U cementers and pump/squeeze 82 sxs of "G" neat cement to fill the 7" and the 7" X 13 3/8" annulus to surface. DOG TO WITNESS SURFACE PLUG.

19. Complete the following: Remove surface equipment and flow lines back to the header. Restore the site to its pre-drill condition. Complete removal of surface equipment and flowlines within 30 days of FRR. DOG requires all work to be completed, documented, and submitted within 60 days of FRR.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

RECEIVED
OCT 25 1993
DIVISION OF OIL & GAS
BAKERSFIELD

Operator Exxon Corporation **Field** Castaic Junction **County** Kern
Well Newhall Land & Farming Co. 50, **Sec.** 14, **T** 4N, **R** 17W, S.B. B. & M.
A.P.I. No. 037-16515 **Name** Julie H. Mitchell (Person submitting report) **Title** Staff Office Assist. (President, Secretary or Agent)
Date October 18, 19 93

Signature Julie H. Mitchell

Environmental & Regulatory Affairs, P.O. Box 1600, Midland, TX 79702 915/688/7888
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole sizes, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
09/01/93	MIRU. Spot tanks & mud pump. Rig up choke manifold & kill lines. Check well. Tbg 0 psi, csg 130 psi. Close in well.
09/02/93	Open well (tbg 0 psi, csg 130 psi). Circulate well 2 hrs. Rig up Lee Archer (slickline). RIH w/2-1/2 slip type tbg plug set @ 278'. Rig out slickline (well dead). Nipple down production tree. Nipple up class III BOP & BOE. Rig up working floor & tbg equip. Rig up slick line. Retrieve plug @ 278'. Rig out slickline. RIH w/2-7/8" tbg (work string). Tag @ 8196'. Circulate out fill & mud. POOH w/20+0. Secure well.
09/07/93	Service rig & equipment. Open well (no psi). Fill well w/2 bbl lease water. Continue measuring out w/2.785 N-80 tbg. Fill hole every 20 stands (not losing or gaining fluid). Pull 131+0 stands total. Makeup 180' 4.5 wash pipe & 6 3-1/8 in D. C. w/ B-S & Jars. RIH w/81+0 2 7/8" N-80 tbg. Rig transmission out 9/8/93. Well secure. Repairs being done.
09/09/93	Open well (no psi). RIH with 50+0 2-7/8" tbg. Tag fill or fish @ 8197. Reverse circulate @ 1000#, 1.61 BPM. Rig up power swivel and stripping cage. Clean out f/8197' to 8200'. Reverse out clean. Swivel broke, secure well.

DIVISION OF OIL AND GAS
RECEIVED
OCT 27 1993
VENTURA, CALIFORNIA

OG103 (8/91/GSR1/5M)

09/13/93 Open well (no psi). RIH, tag top of fish @ 8197'. Reverse circulate f/8197-8352'. Cutting show dried mud. Losing fluid while cleaning out. POOH w/10+0, 300'. Secure well.

09/14/93 Open well (no psi). RIH w/4-1/2" W.P. Tag top of fish @ 8197'. RIH to 8352', no fill. POOH w/131+0 stands. Back wash pipe. Makeup 2-7/8X4-1/2" overshot. RIH w/6 3 1/8" drill collars. RIH w/121+0 2-7/8 tbg. Secure well.

09/15/93 Open well (no psi). RIH, latch on fish @ 8197'. Jarring on fish @ 100,000#, no movement, 2 hrs. Rig up Dia-Log. Attempt to run 5/8" free point tools. Would not go in hole. Make up 5/8" sinker bars. RIH, work thru, excelerator. Tag fill @8654'. POOH, rig up free point tool. RIH to top of excelerator. Could not work thru. POOH. Rig out Dia-Log. POOH with 10+0 2-7/8" tbg. Secure well.

09/17/93 Open well (no psi). Cont POOH w/2-7/8" N-80 tbg. Pull 129+0 stand back 3-1/8" Drill Collars. Make up overshot w/2-7/8" grapple and pack off. Make up BS and tbg jars. RIH w/120+0. Secure well.

09/20/93 Open well (no psi). RIH w/90 jts 2-7/8" N-80 tbg. Latch on fish @ 8196'. Rig up Dia-Log. RIH w/1-11/16" chemical cutter. Tag fill @ 8627'. Cut tbg @ 8612'. POOH. Jar on fish @ 100,000#. Rig up pump. Pump down tbg. Pack off in fishing tool leaking. RIH w/1-11/16" chemical cutter. Cut tbg @ 8337'. POOH, rig out Dia-Log. Jar fish loose. POOH w/100 jts 2-7/8" tbg. Secure well.

09/21/93 Open well (no psi). POOH w/120 jts 2-7/8" tbg. Pull 3-1/8" and 4-3/4" fishing tools. Lay down 152' 2-7/8" tbg. Found hole in first jt @ approx. 8220'. Showed possible csg holes. RIH w/3-1/8" D.C.s and 4-1/2" wash pipe. POOH, lay down all tools. Make up Halliburton 5-1/2" 19-20# cement retainer. RIH w/15o jts 2-7/8" N-80 tbg. Secure well.

09/22/93 Open well (no psi). Continue RIH to 8089'. Set 5-1/2" 17# Halliburton EZSX retainer @ 8089'. Attempt to break down. Rig up Halliburton, test lines 250# and 5000#. Pump 3 bbl pm @ 1000# circulating around cement retainer. (Csg holes above retainer). DOG okayed pump 62 sx cement. Mix & pump 62 sx, 100 cubic ft class G cement w/40% Silica Flour + .15% HR-7 +.15% CFR-3, displace w/43 bbls lease water @ 1600#. Rig out Halliburton. POOH with 30 jts, 930'. Reverse circulate 35 min. Pull 10+0, 600'. Close in.
Note: Lost 30 bbls while reversing out cement.
Note: Peter Wygle of Div Oil & Gas witnessed placement of 62 sx, 98 cubic ft cement thru retainer @ 8089' and squeeze of 400 level foot @ 100 psi.

09/23/93 Open well (no psi). RIH w/2-7/8" N-80 tbg. Tag top of cement @ 7593'. POOH w/265 jts 2-7/8" N-80 tbg. Lay down stinger f/cement retainer. Make up 5-1/2" 17# full bore packer. RIH to 2000'. Test 5-1/2" csg from surface to 2000' @ 500 psi. Release packer. Secure well.
Note: Peter R. Wygle, Div Gas & Oil, witnessed tag @ 7593. Tag ok, wants to test to find location of hole.

09/27/93 Open well (no psi). Continue RIH w/5 1/2" full bore packer. Set @ 4000'. Leaking f/2000-4000'. Pull up. Testing csg every 300'. Locate hole @ 2593'. POOH w/packer & tbg. RIH w/265 jts to 7590'. Secure well.

10/01/93 Open well (no psi). Pickup 2 jts 2 7/8" tbg. Rig up pump & mud tank/ Pump 110 bbls 9.7 ppg mud f/7593 to 2700'. Displace w/15 bbls lse water. POOH lay down 165 jts 2 7/8" tbg. Close in well with 86 jt in hole, 2700'.

10/04/93 Open well (no psi). POOH w/86 jts. Fill well w/30 bbls lse water. Rig up MMI electric line. RIH w/10' perforator gun Dyna Jet 4 spf. Locate collar at 2389'. Shoot holes f/ 2399 to 2409'. POOH circulate well down 5 1/2" csg up 8 5/8" csg @ 300#. RIH w/88 jts 2 7/8" tbg w/tail at 2703'. Rig up Halliburton. Test lines 250# low. 4000# high,. Mix & pump 102 cubic ft 89.5 sx neat cement. Displace w/13 bbls lease water @ 400 psi max. Returns coming up 5 1/2" and 8 5/8" csg. Rig out Halliburton. Pull 30 jts to 1773'. Reverse circulate well clean 30 min. POOH, rig up MMI. RIH w/10' Dyna Jet perforator gun 4 spf. Locate collar @ 802'. Shoot holes @ 782-792'. POOH, rig out MMI. Estimated top of cement @ 2209'. Close in well.
NOTE: Called DOG. Steve Fields okayed, phone, pumping cement f/2700-2309' @ 8:00a.

10/05/93 Open well (no psi). RIH, tag cement plug @ 2063'. Displace 28 bbls 9.7 P.P.G. mud w/5 bbls water from 2063 to 806'. POOH w/40 jt 2 7/8" tbg. Tbg tail @ 806'. Rig up Halliburton, test lines 250# @ 2000#. Mix & pump 65 cubic feet, 57 sx neat cement down 2 7/8" tbg up 8 3/8" csg. Displace w/3.5 bbls lse water. Let cement gravitate in 5 1/2" csg. Pull 5 stand. lay down remaining tbg while waiting on cement. Rig up MMI. RIH w/2 ft link jt shoot 8 holes f/100-98'. POOH. RIH w/ 2 7/8" tbg. Cement still wet. POOH, close in well. Estimated top of cement @ 606'. DOG, Peter Wygle, witness tag @ 2063 top of cement at 9:30a.

10/06/93 Open well (no psi). RIH , tag cement plug @ 553'. POOH, laying down 22 jts 2 7/8" tbg. With tbg tail @ 124' rig up Halliburton. Mix and pump 30 sx in 5 1/2" & 8 5/8" csg to surface. Rig out Halliburton. Clean BOPE, lay down 4 jts. ND BOP. DRMO. DOG, Peter Wygle, witness tag @ 553' & placement of cement f/100' to surface 5 1/2 and 8 5/8" csg - 30 sx=34.2 cubic feet.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF WELL PLUGGING AND ABANDONMENT

Ventura, California

September 21, 1994

EXXON Corporation
Attn: Env. & Reg. Affairs
P.O. Box 1600
Midland, TX 79702

Your report of the plugging and abandonment of well "Newhall Land & Farming Co." 50, A.P.I. No. 037-16515, Section 14, T. 4N, R. 17W, S.B. B.& M., Castaic Junction field, Los Angeles County, dated 10-18-93, received 10-27-93, has been examined in conjunction with records filed in this office. We have determined that all of the requirements of this Division have been fulfilled relative to plugging and abandonment of the well, removal of well equipment and junk, and the filing of well records.

svl

William F. Guerard, Jr
State Oil and Gas Supervisor

By
Patrick J. Kinnear
Deputy Supervisor

cc: Conservation Committee
Update

Modified OG159 (4/94)

DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND
GEOTHERMAL RESOURCES

No. T293-267

Report on Operations

EXXON Corporation
Attn: Env. & Reg. Affairs
P.O. Box 1600
Midland, Texas 79702

Ventura, California
November 22, 1993

Your operations at well "Newhall Land & Farming Co." 50, API No. 037-16515, Sec. 14, T. 4N, R. 17W, S.B. B.&M. Castaic Junction Field, in Los Angeles County, were witnessed on 10-6-93. Pete Wygle, representative of the supervisor, was present from 0800 to 1000. There were also present C. Ballard, Operator's Rep.
Present condition of well: 10 3/4" cem 792'; 8 5/8" cem 2409'; 5 1/2" cem 11,235, perf 10,970' WSO, perf 99' - 101', 2399' - 2409', & @ ints 11,010' - 11,155', holes at 2593', damaged @ 8220' & 10,600'. TD 11,365'. Junk: 2 7/8" tbg 8340' - 10,960' w/pkr @ 10,960'. Plugged w/cem 11,365' - 11,215', w/approx 50 cf of cem below ret @ 8089' - 7593', 2703' - 2063', 806' - 553', & 126' - 5'.

The operations were performed for the purpose of abandonment.

DECISION:

The plugging operations as witnessed and reported are approved.

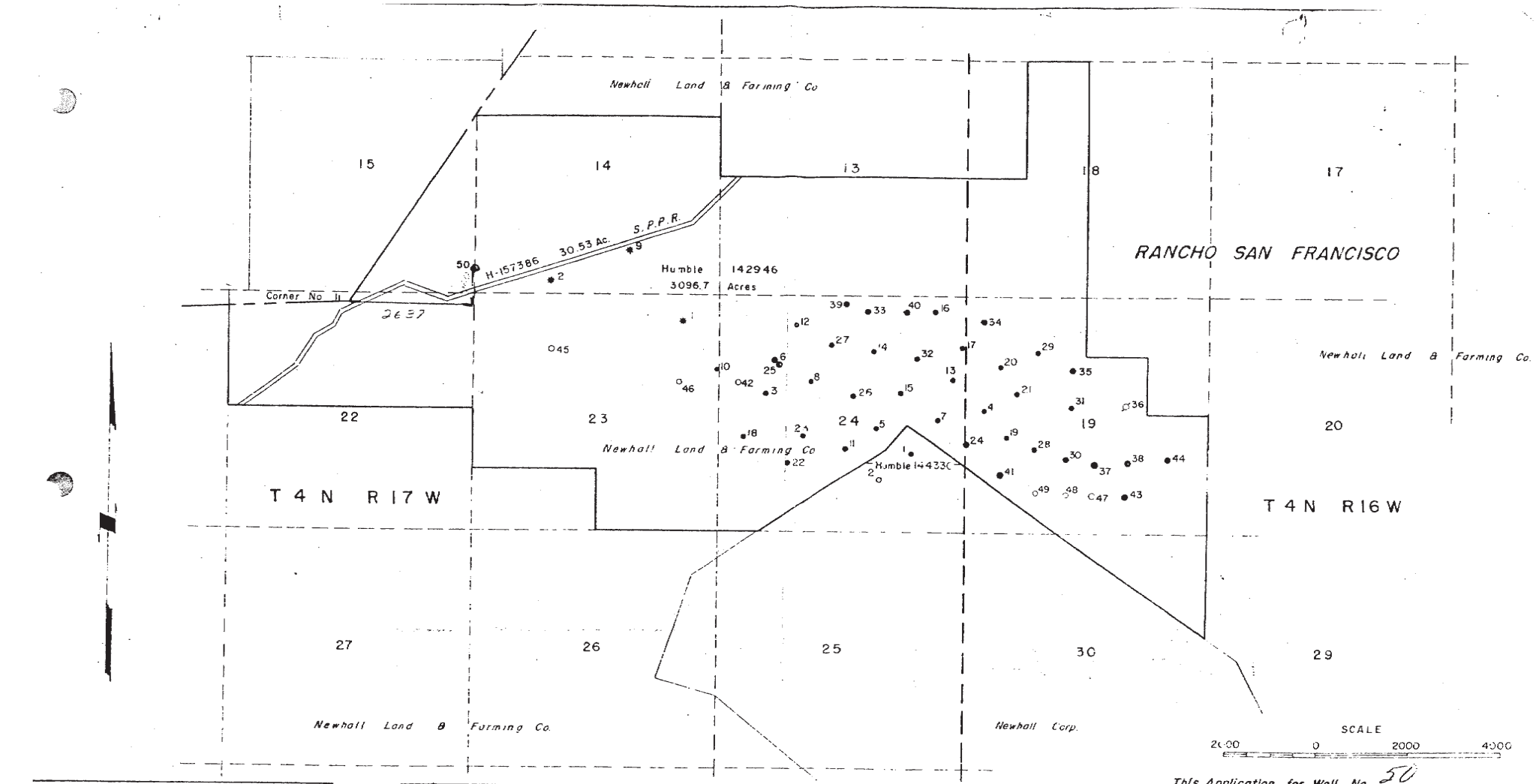
scv

William F. Guerard, Jr.
State Oil and Gas Supervisor

By _____

Patrick J. Kinnear
Deputy Supervisor

OG109 (Modified 1993)



REVISIONS					
NO	DATE	DESCRIPTION	BY	CHK	APPR

REVISIONS					
NO	DATE	DESCRIPTION	BY	CHK	APPR
7	1-28-55	ADD WELL NO 45	K.D.S.		
8	2-2-55	" " " 46	"		
9	3-2-55	" " " 47	"		
10	3-7-55	" " " 48	"		
11	3-7-55	" " " 49	"		
12	4-25-55	" " " 50	"		

REVISIONS					
NO	DATE	DESCRIPTION	BY	CHK	APPR
1	8-18-54	ADD WELL NO 40	KDS		
2	8-30-54	" " " 38	NDC		
3	9-2-54	" " " 41	NDC		
4	9-28-54	" " " 42	KDS		
5	12-14-54	" " " 43	KDS		
6	12-21-54	" " " 44	KDS		

This Application for Well No. 50

NEWHALL LAND & FARMING CO.
LEASE NO 142946
CASTAIC JUNCTION DIST. LOS ANGELES CO.

HUMBLE OIL & REFINING COMPANY
CIVIL ENGINEERING DIVISION
CALIFORNIA AREA

DRWN KDS	SCALE 1" = 2000'	FILE NO.
CHECKED	DATE 8-18-54	CAB 44
APPD	REVISED	

SUPERSEDES DRWG NO CAB 23

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF WELL PLUGGING AND ABANDONMENT

Ventura, California

September 21, 1994

EXXON Corporation
Attn: Env. & Reg. Affairs
P.O. Box 1600
Midland, TX 79702

Your report of the plugging and abandonment of well "Newhall Land & Farming Co." 9, A.P.I. No. 037-16480, Section 14, T. 4N, R. 17W, S.B. B.& M., Castaic Junction field, Los Angeles County, dated 10-28-93, received 11-05-93, has been examined in conjunction with records filed in this office. We have determined that all of the requirements of this Division have been fulfilled relative to plugging and abandonment of the well, removal of well equipment and junk, and the filing of well records.

svl

William F. Guerard, Jr
State Oil and Gas Supervisor

By
Patrick J. Kinnear
Deputy Supervisor

cc: Conservation Committee
Update

Modified OG159 (4/94)

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
RBDMS- RECORDS ENTERED

COMPANY Exxon WELL NO. Newhall Land & Farms B. 9

API NO. 037-16480 SEC. 14, T. 4N, R. 17W, SB B.&M.

COUNTY LA FIELD Castaic Jct

RBDMS DATA ENTERED: 3/24/98
(DATE)

BY: KAP
(NAME)

RBDMS DATA MUST BE UPDATED FOR ALL DATA THAT IS RECEIVED AFTER THE DATE INDICATED ABOVE.

WELL CONSTRUCTION DATA ONLY

OPERATOR Exxon Corp
LSE & NO "Newhall Ldg Farm Co" 9
MAP

	(1)	( )	( )	( )	( )	( )
[ ]NTION	Reperforate	ABANDON				
NOTICE DATED	12-15-77	5-7-93				
P-REPORT NUMBER	277-465	P293-147				
CHECKED BY/DATE	PV/7-28-78					
MAP LETTER DATED	Idle 8/5/78	2-19-94 SPM				
SYMBOL	⊖ Never produced	⊖ T7|12|57				

	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED
NOTICE	12-21-78		5-12-93									
HISTORY	7-26-78		11-5-93									
SUMMARY	—		—									
IES/ELECTRIC LOG	—		—									
[ ]ECTIONAL SURV	—		—									
CORE/SWS DESCRIP	—		—									
OTHER	—											
RECORDS COMPLETE	7/28/78		4-14-94									

ENGINEERING CHECK

T-REPORTS	✓
OPERATOR'S NAME	✓
WELL DESIGNATION	✓
LOC & ELEV	✓
SIGNATURE	✓
SURFACE INSPECTION	✓
FINAL LETTER OK	

CLERICAL CHECK

POSTED TO 121 ______ 170 MAILED ______ FINAL LETTER MAILED ______

RELEASED BOND ______

REMARKS: Sfc insp CK 4-12-94 PRV

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Exxon Corporation **Field** Castaic Junctio **County** Los Angeles
Well Newhall Land & Farming Co. #9, **Sec.** 14, **T** 4N, **R** 17W S.B. B. & M.
A.P.I. No. 037-16480 **Name** Julie H. Mitchell (Person submitting report) **Title** Staff Office Assist. (President, Secretary or Agent)
Date October 28, 19 93

Signature Julie H. Mitchell

Environmental & Regulatory Affairs, P.O. Box 1600, Midland, TX 79702 915/688-7888
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date

(see attached)

DIVISION OF OIL AND GAS
RECEIVED
NOV 3 1993
VENTURA, CALIFORNIA

OG103 (6/91/GSR1/5M)

10/27/93 MORNING REPORT 5:38PM

NEWHALL LAND & FARMING CO - 0009 Lease# 061590 Job# 60007687
Field Supt R. O. Storey CMP# 4037164800001 AFE# 00039455
PLUG AND ABANDON

Expected Buildup oil/gas /
Estimated PI

--- 10/26/93
Safety mtg. Open well. Rih, tag cement @ 615 ft. Ran to 120 ft. Rig up Halliburton, test lines. Mix and Pump 50 sx class G neat cement from 120 to surface. 10-3/4 and 7 in csg. Rig out Halliburton. Rig out all equipment.
Div of Oil & Gas, Peter R. Wygle witnessed and approved tag of top of cement at 615 ft. Also witnessed pumping of surface plug from 120 ft to surface in 10-3/4 and 7 in casings.

--- 10/21/93
Attend safety mtg. Rih tag cement @ 3476. 37 ft above holes. Rig up Halliburton with tbg hung at 3470. Mix and pump 20 sx, of class G neat cement 1.15 yield = 103 cuft displaced with 19 bbls water. Rig out Halliburton. Pull and lay down 86 Jts. Stood back 760 ft of tbg. Rig up MMI shot 80 holes between 7 and 10-3/4 in csg from 740 - 760 ft. Rig out MMI. Mud up down 7 in and up 10-3/4. Rih with tbg to 760 ft. Rig up Halliburton. Mix and Pump 87 sx, 100 cuft, Class G cement with 2% CACL2 displaced with 3.7 bbls. Rig out Halliburton. Calculated top of cement at 560 ft, 10-3/4 and 7 in. Pull tbg. Rig up MMI. shot 8 holes from 100 -102 ft. Secure well. eot.
Div of Oil & Gas, Stephen Mulqueen: Tag of cement @ 3476 ft is low. Ok to place 100 linear ft (15 sx) on top of plut @ 3476 ft without having to tag plug.
Div. of Oil & Gas, Stephen Mulqueen gave permission to squeeze fresh water without having to witness.

--- 10/20/93
Safety mtg. Open well. Pull and lay down 99 jts of tbg. Rig up Hallibur ton. Test lines with tbg hung at 3600 ft. Mix and pump 33 sx cement blended with 40% SSA-1, .3% CFR3 and .5% HR7 with a yield of 54 cuft. Displaced with 18.5 bbls. Pulled to 300 ft. Filled hole. Squeezed 20 cuft away at 300 psi, 1/2 bbls per min. Pulled to 2700 ft. Secure well eot.

--- 10/19/93
Safety mtg. Open well. Continue testing for holes in csg. Located holes between 3513 and 3534 ft. Pull out of hole with test packer. Ran tbg openended to 10400 ft. Pull and lay down 133 jts of tbg. Secure well eot.
Notified Div of Oil & Gas of location of holes. Got DOG approval to lay a cement plug from 3645 to 3413.

--- 10/18/93
Safety mtg. Open well. Rih . tag cement @ 10447. Pressured csg to 500 psi. Bleed to 0 psi in 45 seconds. Pulled tbg.-Made up Robinson test pkr. Rih to 1000 ft. Test csg ok. Ran to 2200 ft, ok. Ran to 332, test ok. Secure well, eot
Div of Oil & Gas, Steve Mulqueen, witnessed and approved tag @ 10447.

--- 10/14/93

NEWHALL LAND & FARMING CO - 0009 Lease# 061590 Job# 60007687
Field Supt R. O. Storey CMP# 4037164800001 AFE# 00039455
PLUG AND ABANDON

Expected Buildup oil/gas /
Estimated PI

Attend safety mtg. Open well. With tbg hung open ended at 10790 rig up Halliburton. Test lines. Mix and pump 53 sx, 110.42 cuft cement blened with 40% SSA-1, .3% CFR-3, -5% HR-7, displaced with 58 bbls mud Calculated top of cement @ 10390 ft. Pulled to 10090, reversed around twice. Pulled to 9490, secure well. eot.

--- 10/13/93
Attend safety mtg. Open well. Sting into retainer at 10793 ft. Rig up Halliburton. Unable to squeeze thru retainer. Rig out Halliburton. Got DOG approval to cement above retainer. Pooh with setting tool. RIH w/ openended tbg to 10790. Secure well, ready to cement in am.
Div of Oil & Gas, Peter Wygle, gave approval to lay 300 ft cement plug on top of retainer. Also approved change over to 9.3 ppg mud.

--- 10/12/93
Attend safety mtg. Pooh with kill string. Rih with wash pipe and drill collars. Pull and lay down drill collars and wah pipe. Notified DOG of new fish depth. Top of fish at 10809 ft. Make up Halliburton EZ Drill Retainer. Set retainer @ 10793 ft. Secure well, eot.
Div of Oil & Gas, Peter R. Wygle, waived witness, and approved by phone the setting of retainer ant 10809 feet.

--- 10/11/93
Attend safety mtg. Changed well over to 9.2 mud, 400 bbls. Well stopped flowing. Pull all tbg and fishing tools, 10600 ft. Recovered 114 ft of fish. Ran 720 ft kill string, secure well. Eot.

--- 10/09/93

--- 10/07/93
Attend safety mtg. Open well, circulate bottoms up cont pulling tbg. After pulling 10 stands well started flowing our tbg and csg. Hook up Kelly line, circulated around twice, well still flowing. INstall gauge in tbg. Got shut in surface pressure of 17 psi. Notified foreman of conditions. Decided to run back to top of fish at 10665 ft. and change over to mud. Ran tbg to 10170 ft. Secure well, shut down until am.

--- 10/06/93
Attend safety mtg. Open well, RIH circulate bottoms up from 9645 - washed over fish at 10665 to 10878. Stacked out to drive sub. Pulled to 10853. While attempting to cut, cutter let loose. Tried 3 times at 10853. Cutter kept releasing. PUlled to 10821. Attempted to cut. No success. Release cutter, pulled 8000 ft. Secure well. eot

--- 10/05/93
Attend safety mtg. Open well, ran tbg to 9645 ft. Circulate bottoms Clean out heavy contaminated mud to 10636 ft. Circulate clean. REady to make washover and first cut in am.

10/04/93
Attend safety mtg. Open well, ran 7200 ft OE tbg. Tbg tail at 9625 ft.

NEWHALL LAND & FARMING CO - 0009 Lease# 061590 Job# 60007687
Field Supt R. O. Storey CMP# 4037164800001 AFE# 00039455
PLUG AND ABANDON

Expected Buildup oil/gas /
Estimated PI
Rig up to reverse tbg. Unable to reverse. Pulled to 9300 ft. Circulated bottoms up. Got heavy mud returns. Ran to 9625, circulated, pulled to 8881, Secure well, eot.

--- 10/01/93
Attend safety mtg. Start up job. Cont pulling tb. Last 49 jts were gaulded. Had trouble breaking out. Laying down last 49 jts. Made up 250 ft of wash pipe with drill collars and outside cutter. RIH with wash pipe and tbg until eot. Secure well, eot

--- 09/27/93
Attend safety mtg. Open well. Reversed bottoms up form 10500 ft. Pull @ measure tbg. Unload wash pipe and fishing tools. Tbg seat @ 2400 ft, kill string in hole. Secure well, eot.

--- 09/23/93
Attend safety mtg. Open well work stuck packer to 7780 max yield for 2-7/8in N-80 tbg, 111,000 pull. Couldnot get loose. Rig up Dia-Log. Ran free point & collar locator to 11748. Logged collars and packer top at 11727. First collar above packer at 11696, log second collar up at 11665. Determined free point at 10700. Pulled collar locator and free point. Made up chemical cutter. RIH, cut at 11710 ft, 18 ft above pkr Pulled cutter, worked tbg to 11100. Would not come free. Pump fluid away at 500 psi. No returns. RIH with second cut. Cut at 10700 ft. Pipe came free. Rig out Dia-Log. Pull 5 stands. Secure well. eot.

--- 09/22/93
Attend safety mtg. Open well. Rig up Nowcam coil tbg unit. Tested BOP ran in hole with 1-1/2in coil tbg. Clean out mud from 10750 to 11747 ft Pull coil tbg. Rig out Nowcam. Secure well. eot.

--- 09/21/93
Drove to location. Attend safety mtg. Open well. Rig up Dia-Log, test lubricator. Made up 1in sinker bars and 1 in collar locator. Rih, went throug heavy fluid, like mud, to 11,090 ft. Hit fluid @ 10,809. Rig out Dia-Log. Secure well, shut down until am pending arrival of coiled tbg unit.

--- 09/20/93
Attend safety mtg. Open well. Attempt to release Lane Wells Packer at 11,700 ft. Worked at 110,000 pull 77% factor. Could not get loose. Rig up Dia-Log. Test Lubricator. RIH with free point and 1-5/8in sinker bars, Hit heavy fluid at 10,968 ft. Worked down to 10,809 ft. Could not go further. Tbg still free at this point. POOH and secure well. Ready to run 1 in sinker bars and free point in am.

--- 09/17/93
Attend safety mtg. Open well. Attempt to pump through bypass ports on Baker TBS tbg plug. Went to 200 psi with rig pump. Rig up Halliburton Pump truck. Rig up slickline & test lubricator. Held 3410 psi on tbg. Worked tsb plug loose. Pulled plug. Lay down lubricator. Bleed tbg to 0

NEWHALL LAND & FARMING CO - 0009 Lease# 061590 Job# 60007687
Field Supt R. O. Storey CMP# 4037164800001 AFE# 00039455
PLUG AND ABANDON

Expected Buildup oil/gas /
Estimated PI
psi. Rig out Halliburton. Secure well. eot.

--- 09/15/93
Safety mtg. Move all equipment from well 7 to 9. Rig up, guy mast, bleed csg from 250 psi to 0 psi in 10 min. Remove tree, install and test Class III BOP. Secure well, eot.

DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND
GEOTHERMAL RESOURCES

No. T293-266

Report on Operations

EXXON Corporation
Attn: Env. & Req. Affairs
P.O. Box 1600
Midland, Texas 79702

Ventura, California
November 19, 1993

Your operations at well "Newhall Land & Farming Co." 9, API No. 037-16480, Sec. 14, T. 4N, R. 17W, S.B. B.&M. Castaic Junction Field, in Los Angeles County, were witnessed on 11-4-93. Pete Wygle, representative of the supervisor, was present from 1015 to 1030. There were also present

Present condition of well: 10 3/4" cem 760'. 7" cem 11,785, perf 11,055' WSO, cp 11,054', perfs 100', 740'- 760' 11,120' - 11,150' holes 3513' - 3545'; 5 1/2" ld 11,753' - 12,156', perfs @ int. 11,780' - 12,155'. Junk below 10,818'. TD 12,157'. Retainer @ 10,793'. Plugged w/ cem 10,790' - 10,447', 3600' - 3272'+/-, 760' - 615', & 100' - 5'.

The operations were performed for the purpose of abandonment.

DECISION:

The plugging operations as witnessed and reported are approved.

scv

William F. Guerard, Jr.
State Oil and Gas Supervisor

By Patrick J. Kinnear
Patrick J. Kinnear
Deputy Supervisor

E3500 SAP T 2666

DIVISION OF OIL AND GAS
Cementing/Plugging Memo

Operator EXXON CORP. Well No. "Newhall Land & Farming Co."
API No. 037 - 16480 Sec. 14, T. 04N, R. 17W, SE B&M
Field CASTAIC JUNCTION, County LOS ANGELES. On 11-4-93,
Mr./Ms. P. Wygle, representative of the supervisor, was present from 1015 to 1530.
There were also present

Casing record of well: 10 3/4" cem 760'. 7" cem 11,785, perf 11,055' WSO, cp 11054' perfs 100', 740'-760', 11,120'-11,150', holes 3513'-3545', 5 1/2" TB 11,753'-12,156', perfs @ INT 11,780'-12,155'. Junk below 10818'. TD 12157'. RETAINER @ 10793'.

The operations were performed for the purpose of ABANDONMENT
Plugged w/ cem 10790'-10447', 3600'-3272'±, 760'-615', & 100'-5'

☑ The plugging/~~cementing~~ operations as witnessed and reported are approved.

☐ The location and hardness of the cement plug @_____' is approved.

Hole size:_____" fr._____' to_____', _____" to_____' & _____" to_____'

	Casing				Cemented			Top of Fill		Squeezed Away	Final Press.	Perfs.
	Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			
A	7"	23#-35#	0	11785'	10-14	RETAINER @ 10793' *	53sx	0	10447'	0	—	THRU. JU @ 10818
B	"	"	"	"	10-20	TBG @ 3600' BRADEN HEAD	54 cf	—	3476'	20 cf	300 psi	3513'-3545' HOLES

* NO BREAK-DOWN PLACED PLUG ON TOP OF RETAINER ONLY (33 sx)

Casing/~~tubing~~ ~~recovered~~ (perf 4 hpf): 7" shot/cut at 740'-760', 100', _____' pulled fr._____';
_____" shot/cut at_____', _____', _____' pulled fr._____'.

Junk (in hole): 10818' TBG STUB, PACKER BELOW @ 11708'

Hole fluid (bailed to) at_____'. Witnessed by_____

Mudding	Date	Bbls.	Displaced	Poured	Fill	Engr.
9.3#/g CLAY GEL	10-18-93	430	TBG @ 10447'	—	SURFACE	S. MULQUEEN

FOUND HOLES 3513'-3545' IN 7" CASING

	Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
	Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt/Sample	Date & Time	Engr.
A'	10/14	53sx	RETAINER @ 10793' TBG @ 10790' *	—	REPORTED	10447'	5K#	10/18 0930	S. MULQUEEN
B'	10/20	54 cf	TBG @ 3600'	—	"	3476'	10K#	10/21 0830	"
	10/21	20 sx	TBG @ 3470'	—	"	3272'±	CALC.	10/21 —	REPORTED
	10/25	100 cf	Equalized thru perfs 740'-760', Tag 760'	~	"	615'	Wt of Mud	10/26 0730	PRW
	10/26	60 cf	Fill 7" csg & 10 3/4 annulus thru perfs 100'	0900	PRW	S	Y1 S V2	11/4	

OGD10 (10/90/GSR1/5M)

Form 136

MEMORANDUM OF TELEPHONE OR PERSONAL CONVERSATION

_____, Calif.

_____ 19____

Operator EXXON Well No. "Newhall Land and Farming Co." 9

Field Castaic Junction Sec. 14 T. 4N R. 17W SB B&M

~~XXXXXXX~~ personal

A telephone conversation was held, concerning above well, with Mr. Ken Kennedy

_____ for above operator on 10-12 19 93 at 1130A M.

Details of the conversation were as follows:

Fishing attempts for the tubing and packer at 11,708' have been unsuccessful. Exxon has attempted to fish with almost the entire budgeted amount of the abandonment of the well. Tubing has been cut at 10,818' and washed over and recut at 11,693'. Unable to recover the second piece of tubing. Top of tubing fish is at 10,818'. Want to set a retainer as close to the top of fish as possible (cem outside of casing is at 10,778') and squeeze cem past fish. OK to proceed.

Wygle visited wellsite at 0700 on Oct 13 to witness squeeze cem operations. Unable to squeeze below ret at 10,800'. No breakdown. Pressure test no good above retainer. OKd 300'+/- plug on top of retainer. 9.3 ppg mud in hole to surface. OK for abandonment mud.

(Signed) Peter E Wygle

Title EMRE

New File

P-31 Rev. D24264

HUMBLE OIL & REFINING COMPANY

WELL RECORD

FIELD Castaic Junction LEASE Newhall Land & Farming Co. WELL NO. 9

COUNTY Los Angeles SURVEY Sec. 14, T 4 N, R 17 W, S.B.B.& M.

JOB ORDER NO. CAL-109 LOCATION OF WELL 1306' N and 5968' E of Corner 11, Rancho San Francisco

OPERATOR Humble Oil & Refining Company ADDRESS Box 2180, Houston, Texas

WELL DATA

ELEV. OF R.D.B. 976 977' ; ELEV. OF TOP FLG. OF OIL STRING CASINGHEAD 963'

DISTANCE BETWEEN TOP OF RTY. DR. BUSHING AND TOP OF TOP FLG. OF OIL STRING CASINGHEAD 14.2'

DISTANCE BETWEEN TOP OF RTY. DR. BUSHING AND TOP OF DERRICK FLOOR 2.6' ; TYPE WELL Potential G Well Standi

COMPLETION FLUID Oil Emulsion Mud ; TOTAL DEPTH 12,157' ; COMPLETION DEPTH (See Note)

FORMATION Miocene ; RESERVOIR Mohnian 21 ; PRODUCING FROM - TO -

COMPLETION DATE 6-26-52 ; HOLE SIZE BEHIND OIL STRING CSG. 9-7/8" ; SIZE OF OPEN HOLE BELOW CSG. 9-7/8"

PRODUCTION TESTS

INTL OR POT	DATE	SIZE CHOKE OR PLUNGER	HOURS TESTED	BBLS/DAY FLUID	BBLS/DAY OIL	% BS & W	GAS M C F /DAY	GAS OIL RATIO	TBG PR OR S P M	CSG PR OR L STROKE	COR GRAV
NONE											

DRILL STEM TESTS

DATE	TYPE OF TEST OPEN HOLE OR PERF CSG	FORMATION TESTED FROM	FORMATION TESTED TO	SIZE CHOKE TOP	SIZE CHOKE BOTTOM	TOOL OPEN MIN.	FORMATION PRESSURE FLOWING	FORMATION PRESSURE SHUT-IN	RECOVERY - FEET OIL	WATER	MUD	W.C. OTHER	WAS TEST SATIS.
4-5-52	OH	10437	10452	1"	1/4"	60	1460	5015	-			2500	Yes
4-17-52	OH	11119	11139	1	1/4	60	1250	4980	30	123	60	2500	Yes
4-18-52	OH	11136	11159	1	1/4	60	1235	5015	10	140	60	2500	Yes
4-20-52	OH	11149	11189	1	1/4	Tool failed to open							No
4-21-52	OH	11149	11189	1	1/4	Packer failed							No
4-22-52	OH	11158	11189	1	1/4	60	1240	4660	30	183	30	2500	Yes

CASING, SCREEN AND LINER RECORD

(Continued on page 2)

SIZE	GRADE AND KIND	WT/FT	NO. AND FORM THREADS	CLASS	MANUFACTURER	JOINTS	AMOUNT SET FEET	DEPTH SET AT
10-3/4"	H	40.5	8	1	J & L	28	743.85*	760.3
*Includes guide shoe and float collar.								
7" O.D.	N-80 LJ	26	8R	1	J&L	22	791.39	
7	N-80 LJ	23	8R	1	J&L	72	2793.60	
7	N-80	26	8R	1	J&L	82	3231.49	
7	N-80	29	8R	1	National	54	2109.54	9030.65
7	N-80	32	8R	1	National	56	2021.53	11052.18
7	N-80	35	8R	1	National	16	607.59	
7 Float Collar			8R	1	HOWCO		1.23	11741.0
7	N-80	35	8R	1	National	1	42.85	
7 Guide Shoe			8R	1	HOWCO		1.63	
							11770.85	11785.0

NOTE: 7" Baker "K" Magnesium retainer set @ 11091' with cement plug in casing to bottom of perforations @ 11120-50'. Float Collar and assembly has not been drilled out.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

REPORT OF WELL PLUGGING AND ABANDONMENT

Ventura, California

September 21, 1994

EXXON Corporation
Attn: Env. & Reg. Affairs
P.O. Box 1600
Midland, TX 79702

Your report of the plugging and abandonment of well "Newhall Land & Farming Co." 77, A.P.I. No. 037-22047, Section 14, T. 4N, R. 17W, S.B. B.& M., Castaic Junction field, Los Angeles County, dated 09-28-93, received 10-06-93, has been examined in conjunction with records filed in this office. We have determined that all of the requirements of this Division have been fulfilled relative to plugging and abandonment of the well, removal of well equipment and junk, and the filing of well records.

svl

William F. Guerard, Jr
State Oil and Gas Supervisor

By
Patrick J. Kinnear
Deputy Supervisor

cc: Conservation Committee
Update

Modified OG159 (4/94)

OPERATOR Exxon
LSE & NO DL+F 77
MAP 253

	(1)		(2)		( )		( )		( )		( )	
INTENTION	Drill & Supp		Supp. to drill C		Alter casing		ABANDON					
NOTICE DATED	10-10-79		1-21-80		9-11-81		5-10-93					
P-REPORT NUMBER	279-317		280-24		281-33[illegible]		293-158					
CHECKED BY/DATE			4/14/80									
MAP LETTER DATED	→		[illegible]				12/25/93					
SYMBOL	→						60-12002					
	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED
NOTICE	10-12-79		1-23-80		[illegible]		5-13-93					
HISTORY	→		2-20-81				10-6-93					
SUMMARY	→		2-20-81									
DISFL IES/ELECTRIC LOG			2-20-81									
DIRECTIONAL SURV			2-20-81									
CORE/SWS DESCRIP			2-20-81									
OTHER												
RECORDS COMPLETE	→		Done 4/14/82				FMN 2/29	94				

ENGINEERING CHECK

T-REPORTS	✓
OPERATOR'S NAME	✓
WELL DESIGNATION	✓
LOC & ELEV	✓
SIGNATURE	✓
SURFACE INSPECTION	2/17/94 FMN
FINAL LETTER OK	

CLERICAL CHECK

POSTED TO 121 ______ 170 MAILED ______ FINAL LETTER MAILED ______

RELEASED BOND ______

REMARKS:

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Exxon Corporation **Field** Castaic Junction **County** Los Angeles
Well Newhall Land & Farming Co. #77, **Sec.** 14, **T** 4 N, **R** 17W, **S.B. & M.**
A.P.I. No. 037-22047 **Name** Donna R. Devience (Person submitting report) **Title** Sr. Geological Asst (President, Secretary or Agent)
Date September 28, 19 93.

Signature Donna R. Devience

Environmental & Regulatory Affairs P.O. Box 1600 Midland, Tx. 79702 (915) 688-7882
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date

(See Attachment)

DIVISION OF OIL AND GAS
RECEIVED
OCT 6 199
VENTURA, CALIFORNIA

OG103 (6/91/GSR1/5M)

NEWHALL LAND & FARMING CO - 0077 Lease# 061590 Job# 60008763
Field Supt R. O. Storey CMP# 4037220470003 AFE# 00039513
PLUG AND ABANDON

Expected Buildup oil/gas /
Estimated PI

--- 09/14/93 Daily
Attend safety mtg. Open well, Tag fresh water plug @ 403 ft. Pulled and layed down tbg. Ran tbg to 125 ft. Attempt to circulate down 7 in and up 9-5/8in and 13-3/8 in. Unable to get good enough circulating rate for total anulus top plug. Mix and pump 25 sx class G cement with 2% CACL2. Got DOG approval, Peter R. Wygle, on tag of plug @ 403 ft and cmt in 7in from 130 feet to surface.
Note: DOG approved cementing down in tbg between csg strings after well head cut off

--- 09/13/93 Daily
Attend safety mtg. Open well. Pull and lay down all tbg. Filled tbg displacement with 9.8 mud. Rig up MMI wireline. Shot 80 holes from 488 feet to 508 feet. Rig out wireline. Rig up Halliburton. Ran 2-7/8in tbg tail to 514 ft. Tested lines. Mix & pump balanced plug between 7 in and 9-5/8in anules using class G cement with 2% CACL2 as per program. Calculated top of plug 403ft. Rig out Halliburton. Pull tbg. Rig up shooters. Shot 8 holes between all 3 string from 121-123 ft. Rig out shooters. Secure well. eot.

--- 09/10/93 Daily
Drove to job, attend safety mtg. Open well, ran tbg. Tag top of cement at 10423 ft. Performed csg test @ 500 psi. Changed well over ot 9.8 lb mud, pumped 388 bbls. Pulled and layed down 175 jts. Secure well, eot..
* Steve Mulqueen, Div of Oil & Gas, witnessed and approved:
Csg test to 500 psi.
Tag cement plug at 10,423 feet.
388 bbls mud, 9.8 change over.

--- 09/09/93 Daily
Attend safety mtg. Open well, run tbg, tag TOC @ 10900 ft. Rig up Halliburton. Test lines. Mix & pump 68 sx blended cement with 40% SSA-1 + .5% HR7 and .75% CFR-3. Displaced with 60 bbls water. Pulled 5 stds above calculated top of cement at 10400 ft. Reversed around twice. Pulled 5 more stands. Rig out Halliburton. Secure well, rig up to lay down tbg in am, shut down.

--- 09/08/93 Daily
Drove to job, attend safety mtg. Open well (25 psi, csg & tbg). Ran tbg tag fill at 11570. Notified DOG. Got approval to cement with tbg hung @ 11500. Rig up Halliburton. Test lines. Mix & pump 80 sx cement, blended with 40% SSA-1, .5% HR7, and .75% CFR-3, displaced with 63.6 bbls water. Max psi 3500. Pulled 5 stands above calculated TOC at 10900 feet. Reversed around twice. Pull 5 more stds. Secure well, rig out cementers. shut down until am.

--- 09/07/93 Daily
Drove to job, attend safety mtg. Open well, 25 psi on csg & tbg. Pulled and measured all tbg. Measure and pick up 1.9 string 702 ft. Ran tbg until eot. Secure well, shut down.

MORNING REPORT

NEWHALL LAND & FARMING CO - 0077 Lease# 061590 Job# 60008763
Field Supt R. O. Storey CMP# 4037220470003 AFE# 00039513
PLUG AND ABANDON

Expected Buildup oil/gas /
Estimated PI

--- 09/02/93 Daily
Drove to job. Attend safety mtg. Open well (0 psi csg & tbg). Remove tree, install and test class III BOP, Rig up working floor. Spot lay down trailers. PUlled ot of seal assembly. Rig up slickline. Tested lubricator to 3000 psi. RIH with slickline, latch onto plug @ 325 ft. Could not get loose, due to bottom hole pressure. Rig up pump to lubricator, pressured to 500 psi, got loose. Pulled tbg plug. Rig out slickline & circulated, bottoms up, with lease water. Changed completely over. Secure well. eot

--- 09/01/93 Daily
Drove to job. Attend safety mtg. Open well, 50 psi csg. Bleed to 0 in 2 min. 2150 psi on tbg. Rig up slick line. Test lubricator with 2300 psi on tbg with pump. RIH to 5260 ft with slickline. Hit heavy fluid, could go no further. Rig out slickline. Bleed well to 0 psi into blow down tank. Loaded tbg backside with lease water. Set DD plug at 325 ft Secure well. EOT

--- 08/31/93 Daily
Attend safety mtg. Move equipment from well # 8 to well # 77. Rig up guy mast, spot & rig up pump & manifold. Open well to manifold. Tbg side 2000# psi. Pumped 66 bbls lease water down tbg. Pressure still 2000# psi. Closed tbg in. Bled csg from 100 psi to 0 psi in 10 min. Close well in, eot.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

No. T293-314

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

Report on Operations

EXXON Corporation
Attn: Env. & Req. Affairs
P.O. Box 1600
Midland, Texas 79702

Ventura, California
December 21, 1993

Your operations at well "Newhall Land & Farming Co." 77, API No. 037-22047, Sec. 14, T. 4N, R. 17W, S.B. B.&M. Castaic Junction Field, in Los Angeles County, were witnessed on 9-14-93. Pete Wygle, representative of the supervisor, was present from 1100 to 1200. There were also present Dan Mullins

Present condition of well: 20" ld 40'; 13 3/8" cem 503'; 9 5/8" cem 4015'; 7" cem 11,895', perf & sqz 121'-123', 488'-508', & 10,550;, perf @ ints 10,630'-10,710' (sqz off), perf @ ints 11,272'-11,490'. TD 12,000'. Plugged w/cem 11,500'-10,423', 514'-403', & 130'-5'.

The operations were performed for the purpose of abandonment.

DECISION:

The plugging operations as witnessed and reported are approved.

scv

William F. Guerard, Jr.
State Oil and Gas Supervisor

By

Patrick J. Kinnear
Deputy Supervisor

OG109 (Modified 1993)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS
AND GEOTHERMAL RESOURCES

No. P293-158
Field Code 126
Area Code 00
New Pool Code --
Old Pool Code 20

PERMIT TO CONDUCT WELL OPERATIONS

EXXON Corporation
Attn: Env. & Reg. Affairs
P.O. Box 1600
Midland, Texas 79702

Ventura, California
May 28, 1993

Your proposal to abandon well "Newhall Land & Farming Co." 77, A.P.I. No. 037-22047, Section 14, T. 4 N, R. 17W, S.B. B.&M., Castaic Junction field, --- area, 21 Del Valle pool, Los Angeles County, dated 5-10-93, received 5-13-93, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Blowout prevention equipment conforming to DOG Class II 2M requirements shall be installed and maintained in operating condition at all times.
2. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
3. A diligent effort shall be made to clean out the well to at least 11,486'.
4. All portions of the well not plugged with cement are filled with inert mud fluid having a minimum density of 72 lbs./cu. ft. and a minimum gel-shear strength (10 min.) of 25 lbs./100 sq. ft.
5. This office shall be consulted before deviating from the proposed abandonment program.

Continued on Page 2

Blanket Bond
PK:SF:nr

Engineer Steve Fields

Phone (805) 654-4761

WILLIAM F. GUERARD, Jr.
Acting State Oil and Gas Supervisor

By
Patrick J. Kinnear
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.
OG111

6. THIS DIVISION SHALL BE NOTIFIED:
   a. To witness the location and hardness of the cement plug at 10,450'.
   b. To witness the mudding of the well.
   c. To witness the location and hardness of the cement plug at 403'.
   d. To witness the placing of cement inside the 7" casing and all annuli.
   e. To inspect and approve the cleanup of the well site before approval of abandonment will be issued.

STATE OF CALIFORNIA-RESOURCES AGENCY
GEORGE DEUKMEJIAN, Governor
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS
SOUTH OJAI STREET, P. O. BOX 67
SANTA PAULA, CALIFORNIA 93060
(805) 525-2105

May 21, 1984

Mr. L. M. Smedley, Agent
Exxon Corporation
P.O. Box DO
Ventura, CA 93002

Re: "NEWHALL LAND & FARMING CO."77
CASTAIC JUNCTION FIELD

Records on file with this office indicate that the above mentioned well has been suspended since 10-11-80 . Please respond by 6-29-84 , in writting any reasons why the well should not be immediately ordered abandoned pursuant to Section 3237 of the Public Resources Code.

Mike Kratovil

MIKE KRATOVIL
Division Engineer

cc: Newhall Land & Farming Co.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

REPORT OF CORRECTION OR CANCELLATION

Santa Paula, California

Oct. 18, 1983

Mr. L. M. Smedley, Agent
Exxon Corporation
P.O. Box DO
Ventura, CA 93002

In accordance with Sec. 3203, Div. 3, of the PRC requiring proposed operations commence within one year

the following change pertaining to your well No. "Newhall Land & Farming Co." 77, Sec. 14, T. 4N, R. 17W, SB B. & M., Castaic Junction field, Los Angeles County, District No. 2, is being made in our records:

☐ The corrected location is

☐ The corrected elevation is

☐ Report No. , dated , has been corrected as follows:

☒ Your notice to alter casing (Drill, abandon, etc.) dated Sept. 11, 1981, and our report No. P281-336, issued in answer thereto, are hereby cancelled inasmuch as the work will not be done. If you have a drilling bond on file covering this notice it will be returned. No request for such return is necessary.

☐ Other:

MAP	MAP BOOK	CARDS	BOND	FORMS 414	FORMS 121
				EDP	
				N/A	✓

MS/b

State Oil and Gas Supervisor

For By Murray W. Dosch, Deputy Supervisor

OGD165 (8-75, CSPI—3M)

FORM OG111 (11/80/DWRR/5M)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

No. P 281-336

REPORT ON PROPOSED OPERATIONS

126 (field code)
00 (area code)
20 (new pool code)
30 (old pool code)

E. C. Hutchinson, Agent
Exxon Corporation
P.O. Box DO
Ventura, CA 93002

Santa Paula, California
Sept. 29, 1981

Your proposal to alter casing well "Newhall Land & Farming Co." 77,
A.P.I. No. 037-22047, Section 14, T. 4N, R. 17W, SB B. & M.,
Castaic Junction field, any area, 21 Del Valle pool,
Los Angeles County, dated 9/11/81, received 9/15/81 has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Hole fluid of sufficient quality and quantity shall be maintained in the hole to control any subsurface condition, and a reserve supply shall be on hand for emergencies.
2. Unlined sumps, if they contain harmful waters, shall not be located over fresh water bearing aquifers.
3. Any sump used during these operations shall be thoroughly cleaned and filled with earth as soon as operations are completed.
4. Blowout prevention equipment of at least DOG Class II 3M, with a hydraulic actuating system, shall be installed and maintained in operating condition at all times.

Blanket Bond
MD:b

M. G. MEFFERD, State Oil and Gas Supervisor

By John L. Hardoin, Deputy Supervisor

A copy of this report and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

RECEIVED
SEP 15 1981
DIVISION OF OIL & GAS
BAKERSFIELD

DIVISION OF OIL AND GAS

Notice of Intention to Rework Well

DIVISION OF OIL AND GAS
RECEIVED
SEP 21 1981
SANTA PAULA, CALIFORNIA

This notice and indemnity or cash bond shall be filed and approval given, before rework begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

FOR DIVISION USE ONLY		
BOND	OGD114	OGD121
BB	✓	✓

DIVISION OF OIL AND GAS

In compliance with Section 3203, Division 3, Public Resources Code, notice is hereby given that it is our intention to rework well No. "Newhall Land & Farming Co;"77, API No. 037-22047, Sec. 14, T. 4N, R. 17W, S.B.B. & M., Castaic Junction Field, Los Angeles County.

The present condition of the well is as follows:

1. Total depth. 12,000'
   Casing shoe @ 11,895'. PBTD @ 11,816'.
2. Complete casing record, including plugs and perforations:
   See Attached.

3. Present producing zone name 21 DelValle Zone in which well is to be recompleted Same
4. Present zone pressure 3850 psi @ 10400 s.s New zone pressure same
5. Last produced 31 Jul 80 (Date) ---- (Oil, B/D) ----- (Water, B/D) 115 (Gas, Mcf/D)
   or
6. Last injected N/A (Date) (Water, B/D) (Gas, Mcf) (Surface pressure, psig.)

The proposed work is as follows:

See Attached

Cancelled

Dan Mannarino

It is understood that if changes in this plan become necessary we are to notify you immediately.

Address P.O. Box D.O. (Street)
Ventura, (City) CA (State) 93002 (Zip)
Telephone Number (805) 654-6800

Exxon Company, U.S.A. (Name of Operator)
By J.E. Garrison (Name) 9-11-81 (Date)
Type of Organization Corporation (Corporation, Partnership, Individual, etc.)

(1-78-GSRI-15M)

Attchment I
"Newhall Land & Farming Co." 77
API NO. 037-22047

2. Complete casing record, including plugs and perforations:

1. 13-3/8", 54.5# K-55 Buttress to 503'. Cemented to surface.

2. 9-5/8", 40# K-55 LT&C to 4015' cemented w/715 sacks in 12¼" open hole. Calculated TOC @ 230'±.

3. 7", 29# & 32# K-55 LT&C to 11895' cemented w/984 sacks in 8½" open hole. Calculated TOC @ 9500'±. PBTD @ 11816'. Selectively perfed 10,630' - 10,710 @ 2 spf (sqzd). Reperfed selectively 11,272' - 11,490' @ 2 spf.

4. 2-7/8", 6.5 tubing to 11,149'. Packer @ 11,149'.

The proposed work is as follows:

1. Run baseline temperature survey.
2. Install and test Class III 5,000 psi BOP for DOG.
3. Kill well and POH with tubing and packer.
4. Resqueeze cement perforations at 10,630' - 10,710'.
5. Drill out cement.
6. Set permanent packer @ 11,200'± and RIH with 3½" frac string. Test string to 15,000 psi.
7. Pump 85,000 gallons fracturing fluid with 135,000 lbs. of ceramic proppant at 11,000 psi±.
8. Run temperature logs to determine fracture height and proppant placement.
9. Drill out permanent packer.
10. RIH with production tubing and packer to 11,200'±.
11. Unload well with coiled tubing and nitrogen.
12. Put well on production. Run pressure buildup test.

ORIGINAL

DIVISION OF OIL AND GAS
RECEIVED
FEB 20 1981

API No. 037-22047

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

WELL SUMMARY REPORT

SANTA PAULA, CALIFORNIA

Operator: Exxon Corporation	Well: Newhall Land & Farming #77				
Field: Castaic Junction	County: Los Angeles	Sec.: 14	T.: 4N	R.: 17N	B.&M.: SB

Location (Give surface location from property or section corner, street center line and/or California coordinates): 1228' North along section line and 5977' East at right angles from Corner 11, RSF of Section 14.

Elevation of ground above sea level: 964'

Commenced drilling (date): 1-8-80

Completed drilling (date): 3-4-80

Commenced producing (date): 5-6-80

☒ Flowing ☐ Pumping

☐ Gas lift

Name of producing zone(s): 21 Zone

Total depth (1st hole)	(2nd)	(3rd)
12,000'		

Present effective depth: 11,816'

Junk:

Depth measurements taken from top of: ☐ Derrick Floor ☐ Rotary Table ☒ Kelly Bushing

Which is 15 feet above ground

GEOLOGICAL MARKERS	DEPTH
15 Zone	10,037'
21 Zone	11,270'

Formation and age at total depth: 21 Zone - Miocene

	Clean Oil (bbl per day)	Gravity Clean Oil	Percent Water including emulsion	Gas (Mcf per day)	Tubing Pressure	Casing Pressure
Initial Production	0			125	325	
Production After 30 days	6 bbls of fluid			282	370	

CASING RECORD (Present Hole)

Size of Casing (API)	Top of Casing	Depth of Shoe	Weight of Casing	Grade and Type of Casing	New or Second Hand	Size of Hole Drilled	Number of Sacks or Cubic Feet of Cement	Depth of Cementin (if through perforations)
20"	Surface	40'		Conductor	New	Driven		
13 3/8"	Surface	503'	54.5#	K-55 BT	New	17 1/2"	630 sx	
9 5/8"	Surface	4015'	40.0#	K-55 LT&C	New	12 1/4"	1200 sx	
7"	Surface	11,895'	29#, 32#	N-80 LT&C	New	8 1/2"	984 sx	

PERFORATED CASING (Size, top, bottom, perforated intervals, size and spacing of perforation and method.)

Perfed: 2 SPF: 11,486'-11,466'; 11466'-11,450'; 11,441'-11,424'; 11420'-11,400'; 11,394'-11,374'; 11,374'-11,362'; 11,352'-11,332'; 11,332'-11,313'; 11,308'-11,299'; 11,292'-11,284'; 10,710'-10,680'; 10,655'-10,630'

Was the well directionally drilled? If yes, show coordinates at total depth ☒ Yes ☐ No 633.66' S and 430.87' W

Electrical log depths: Compensated Density: 11,888'-4015'. Formation Factor: 11,888'-4015'. DISFL: 11,993'-510'. Shale Density: 12,000'-9940'. Dipmeter: 11,883'-4015'.

Other surveys: Cement Log: 11,700'-9000'.

Deviation Survey, Direction 1 Survey, Core Analysis.

In compliance with Sec. 3215, Division 3 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.

Name	Title	
D. Daly	Revenue & Regulatory Acctg. Section Head	
Address: 1800 Ave. of the Stars	City: Los Angeles, Ca	Zip Code: 90067
Telephone Number: (213) 552-5400	Signature: D. Daly	Date: 2/13/81

SUBMIT IN DUPLICATE

DIVISION OF OIL AND GAS
Cementing/Plugging Memo

Operator EXXON CORPORATION **Well No.** "N.L.S.F" 77
API No. 037 - 22047 **Sec.** 14, **T.** 04N, **R.** 17W, SB **B&M**
Field CASTAIC JUNCTION, **County** LOS ANGELES. **On** 9-14-93,
Mr./Ms. P Wyatt, **representative of the supervisor, was present from** 1100 **to** 1200.
There were also present DAN MULLINS

CASING RECORD OF WELL: 20" ld 40'; 13-3/8" cem 503'; 9-5/8" cem 4015'; 7" cem 11,895', perf & sqz 121'-123', 488'-508', & 10,550', perf @ ints 10,630'-10,710' (sqz off), perf @ ints 11,272-11,490'. TD 12,000'. Plugged w/cem 11,500'-10,423', 514'-403', & 130'-5'.

The operations were performed for the purpose of ABANDONMENT

☐ **The plugging/~~cementing~~ operations as witnessed and reported are approved.**

☐ **The location and hardness of the cement plug @_____' is approved.**

Hole size:_____" **fr.**_____' **to**_____', _____" **to**_____' **&**_____" **to**_____'

Casing				Cemented			Top of Fill		Squeezed Away	Final Press.	Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			

Casing/~~tubing~~ ~~recovered~~ perf 4 hpf: 7 **" shot/~~cut~~ at** 488-508', 121-123', _____' **pulled fr.**_____';
_____" **shot/cut at**_____', _____', _____' **pulled fr.**_____'.

Junk (in hole):_____

Hole fluid (bailed to) at_____'. **Witnessed by**_____

Mudding	Date	Bbls.	Displaced	Poured	Fill	Engr.
CLAY-GEL 9.8 #/g	9-10-93	388±	TBG @ 10423'	—	SURFACE	S. MULQUEEN

CLEAN OUT @ 11570'

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt/Sample	Date & Time	Engr.
9/9	148 sx	TBG @ 11500'	—	REPORTED	10423'	5K#	9/10 0800	S. MULQUEEN
9/13	148 cf	✓ 514	—	✓	403	wt of tbg	9/14 0730	PRW
9/14	30 cf	✓ 130	1200	PRW	Sfc	Visual	9/14 1100	PRW
9/15	50 cf	Pump to annulus thru (illegible)	—	RPH	5'	✓	9/23 1000	PRW

OGD10 (10/90/GSR1/5M)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

REPORT OF WELL PLUGGING AND ABANDONMENT

Ventura, California
May 19, 1994

EXXON Corporation
Attn: Env. & Reg. Affairs
P.O. Box 1600
Midland, Texas 79702

Your report of plugging and abandonment of well "Newhall Land & Farming Co." 1, A.P.I. No. 037-16472, Section 23, T. 4N, R. 17W, SB B.&M., Castaic Junction field, Los Angeles County, dated October 15, 1993, received October 22, 1993, has been examined in conjunction with operations witnessed and records filed in this office. We have determined that all of the requirements of this Division have been fulfilled.

tkc
cc: Conservation Committee
Update

WILLIAM F. GUERARD, Jr.
State Oil and Gas Supervisor

By Patrick J. Kinnear
Patrick J. Kinnear, Deputy Supervisor

OGD159 (6/92)

OPERATOR Exxon Corp
WELL NO. "Newhall Land & Farming Co." 1
MAP

ATTENTION	ABANDON	Supp. Add.				
NOTICE DATED	10-29-92	10-15-93				
P-REPORT NUMBER	292-319	293-393				
CHECKED BY/DATE		9M 2-19-94				
MAP LETTER DATED						
SYMBOL						

	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED	REC'D	NEED
NOTICE	11-4-92		10-22-93									
HISTORY			1-21-94									
SUMMARY												
E-LOG												
MUD LOG												
DIPMETER												
DIRECTIONAL												
CORE/SWS												
CBL												

ENGINEERING CHECK

T-REPORTS		✓				
OPERATOR'S NAME		✓				
WELL NO.		✓				
LOC & ELEV		—				
SIGNATURE		—				
SURFACE INSP.						
DRILL CARD		✓				

RECORD'S COMPLETE _____ 2-15-94 SAM _____ _____ _____ _____

FINAL LETTER _____ OK _____
MAILED _____
RELEASED BOND _____

INJECTION BOOK _____
IDLE WELL LIST _____
SURFACE INSP. CARD _____

REMARKS: Sfc insp OK 4-12-93 PBW

DATE TO RELEASE FROM CONFIDENTIAL _____
ABANDONED-REMOVED FROM E.D.P.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND
GEOTHERMAL RESOURCES

No. T294-43

Report on Operations

EXXON Corporation
Attn: Env. & Req. Affairs
P.O. Box 1600
Midland, Texas 79702

Ventura, California
February 15, 1994

Your operations at well "Newhall Land & Farming Co." 1, API No. 037-16472, Sec. 23, T. 4N, R. 17W, S.B. B.&M. Castaic Juncion Field, in Los Angeles County, were witnessed on 12-28-93. Steve Mulqueen, representative of the supervisor, was present from 0800 to 1100. There were also present C. Ballard, Operator's Rep.
Present condition of well: 20" cem 70'; 13 3/8" cem 1591'; 7" cem 11,792', perf 11,608' WSO, cp 100' & 1570', perfs 11,636'-11,778'. TD 11,952'. Plugged w/ cem 11,952'-11,783', 11,634'- 10,702', 1617'-1452' & 124'-5'.

The operations were performed for the purpose of abandonment.

DECISION:

The plugging operations as witnessed and reported are approved.

scv

William F. Guerard, Jr.
State Oil and Gas Supervisor

By Patrick J. Kinnear

Patrick J. Kinnear
Deputy Supervisor

OG109 (Modified 1993)

T294-43

DIVISION OF OIL AND GAS
Cementing/Plugging Memo

Operator Exxon Corp. Well No. "Newhall Land & Farming Co" 1
API No. 037-16472 Sec. 23, T. 4N, R. 17W, SB B&M
Field Castaic Jct, County LA. On 12-28-93,
Mr./~~Ms.~~ S. MULQUEEN, representative of the supervisor, was present from 0800 to 1100.
There were also present C. Ballard, operator's rep.

Casing record of well: 20" cem 70'; 13 3/8" cem 1591'; 7" cem 11792', perf 11608' WSO, cp 100' & 1570', perfs 11636'-11778'. TD 11952'. Plugged w/ cem 11952'-11783', 11634'-10702', 1617'-1452' & 124'-5'.

The operations were performed for the purpose of abandonment

[X] The plugging/~~cementing~~ operations as witnessed and reported are approved.

[ ] The location and hardness of the cement plug @ ____' is approved.

Hole size: ____" fr. ____' to ____', ____" to ____' & ____" to ____'

Casing				Cemented			Top of Fill		Squeezed Away	Final Press.	Perfs.
Size	Wt.	Top	Bottom	Date	MO-Depth	Volume	Annulus	Casing			
7"				12-27	TBG @ 1617' BRADEN HD.	99 sx	—	1452'	78 cf		1570'-1590'
7"				12-28	TBG @ 124'	113 cf	5'	5'	—		100'-102'

Casing/tubing recovered: 7" ~~shot/cut~~ PERFORATE at 1570' TO 1590', ____' pulled fr. ____';
7" shot/cut at 100' TO 102', ____' pulled fr. ____'.

Junk (in hole): ____

Hole fluid (bailed to) at ____'. Witnessed by ____

Mudding	Date	Bbls.	Displaced	Poured	Fill	Engr.
10.6 ppg	12-22-93	345	to 10,702	—	to 1590	PRW

CO 11,686'

Cement Plugs		Placing	Placing Witnessed		Top Witnessed			
Date	Sx./cf	MO & Depth	Time	Engr.	Depth	Wt/Sample	Date & Time	Engr.
12/22	128 cf	tbg 11,634	~	rpid	10,702	6k tbg	12-22 1800	PRW
12/27	99 sx	TBG @ 1617'	—	"	1452	ALL TBG WEIGHT	12/28 0830	S. MULQUEEN
12/28	113 cf	TBG @ 124'	1030	S. MULQUEEN	5'	VISUAL	12/28 1100	"

Pressure tested csg 10,702'-sfc w 750 psi, 10 min.

OGD10 (10/90/GSR1/5M)

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

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JAN 21 1994
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES
VENTURA, CALIFORNIA

23-4-17

Operator Exxon Corporation **Field** Castaic Junction **County** Los Angeles
Well Newhall Land & Farming Co. 1, **Sec.** 8, **T.** 4N, **R.** 16W, **S.B. B. & M.**
A.P.I. No. 037-16472 **Name** Julie H. Mitchell (Person submitting report) **Title** Staff Office Assist. (President, Secretary or Agent)
Date January 14, 19 94.

Signature Julie H. Mitchell

Environmental and Regulatory Affairs, PO Box 1600, Midland, TX 79702 915/688-7888
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
12/09/93	Move in rig up. Guy rig out, rig up tubing racking platform, rig up blow down line.
12/10/93	Rig up hard line, pump hoses to rig pump. Rig up plate steel on tubing platform and weld tubing basket to platform. Make stand from outrigger and weld on well. Hook up pump hoses to line coil tubing and 2-7/8 inch tubing. Pump down line coil tubing (plug). Pump down 2-7/8 inch tubing. Pump 2 barrels (pressure up). Rig up pump hose to 7 inch casing. Casing pressure 950 psi. Bled down 7 inch casing to blow down tank. Fill 7 inch casing with 150 barrels water. Latch on liner coil tubing. Remove packer, pull coil tubing, found cut at master valve. Recover 4 foot piece. Ran in hole with 1-3/4 inch jars on sand line. Tag up @ 13 feet. Pull out of hole, close in well.
12/11/93	Check well, tubing 0 psi, casing 250 psi. Bleed casing, fill well with 5 barrels fresh water. Fill tubing with 1 barrel fresh water. Well dead. Nipple down production tree. Nipple up Class III BOP and BOE, tested okay. Rig up working floor and tubing equipment. Close well in due to bad weather.

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VENTURA, CALIFORNIA

12/13/93 Open well, no pressure. Work stuck tubing. Rotate and work to 110,000#. Tubing parted after 20 minutes @ 110,000 approximately 90 feet down 2-7/8 tubing. Make up line grapple on 1-3/16 overshot. Ran in hole to 29 feet latch on 1 inch coil tubing. Pull up. Wait on coil tubing unit. Pull up on coil tubing. Parted @ 11000#. Fish tubing with comb overshots 4 times. Parted all 4 times - 1 inch to 4 inch. Lay down fishing tool and rod subs. Raise floor and haul in 3500 feet 1-1/4 inch tubing. Close well in.

12/14/93 Open well (no psi). Make up 1-5/16 inch overshot with line grapple. Ran in hole with 6 joints 1-1/4 inch tubing. Pull coil tubing. Parted. Pull out of hole standing back 1-1/4 inch tubing. Pull line tubing out bottom of stand, cutting tubing. Recovered about 240 feet. Make up 5-3/4 X 3-1/16 inch overshot on 2-7/8 inch tubing. Ran in hole to 180 feet. Latch on fish. Rig up for 1-1/4 BOP. Make up overshot with line grapple. Ran in hole to 180 feet. Could not get 2-7/8 inch tubing. Pull out of hole, close in well.

12/15/93 Open well, no pressure. Rig up Dia-Log. Ran in hole with 1-11/16 sinker bars and 2-1/8 chemical cutter to 178 feet. Could not get in fish. Pull out of hole. Ran in hole with 1-3/8 sinker bars, could not get in fish. Pull out of hole. Ran in hole with line sinker bar. Could get in fish. Rig out Dia-Log. Work 2-7/8 tubing, tubing moved 20 feet. Work tubing free - 2 hours @ 10000#. String weight 94000#. Pull out of hole to 5-3/4 inch fishing tool. Lay down tools. Lay down 6 joints 1-1/4 inch in derrick. Fill casing with 1 barrel fresh water. Rig up plastic around working floor. Pull out of hole, wet with 2-7/8 inch and 1 inch tubing. Lay down 60 feet in ct and 2 joints 2-7/8 inch tubing. Close in well.

12/16/93 Open well, no pressure. Continue laying down and cutting line coil tubing while pulling out of hole with 2-7/8 inch N-80 tubing, wet with water. Pull 35+0 stands. Came to mud. Rig up tubing basket and skid to lay down all tubing. Lay down 3 joints in H&H tank. Close in well.

12/17/93 Open well, no pressure. Continue pulling out of hole laying down 2-7/8 N-80 tubing with 1 inch coil tubing inside, wet with mud inside H&H tubing transfer tank. Fill casing with 30 barrels fresh water. Displace for 3937 feet, tubing is 24-1/2 barrel, well took 5 barrels. Lay down 62 joints, haul trailer to pipe yard. Unload tubing on racks.

12/18/93 Open well, no pressure. Continue pulling out of hole laying down 2-7/8 inch tubing with line coil tubing inside wet with mud. Lay down 80 joints. Fill well with 20 barrels tubing displacement 16 barrels. Close in well.

12/19/93 Open well, no pressure. Continue pulling out of hole with 2-7/8 inch N-80 tubing with line coil tubing inside and wet with mud. Stand back 26+0 laying down line out bottom. Came to heavy mud, start laying down singles in tubing bagkit on trailer. Lay down 25 joints. Fill well with 20 barrels displacement of tubing is 17 barrels. Close in well.

12/20/93 Open well, no pressure. Continue pulling out of hole with 2-7/8 inch N-80 tubing with line coil tubing inside and wet with mud. Lay down 53 joints and stand back 40+0. Pipe very tight. Lay down packer and perforated stub. Ran in hole with 10+0 stand kill string. Close in well.

12/21/93 Open well, no pressure. Lower working floor. Clean floor and working area. Measure in hole with 67 stands, 134 joints out of derrick. Circulate out mud every 40 joints. Due to heavy mud in tubing, lay down 18 joints bad tubing. Measure and pick up 382 joints tubing (work string). With tubing tail @ 10800 feet, reverse circulate well. Ran in hole, tag @ 11686 feet. Pull to 11364 - 300. Break circulation @ 2700# @ 1.3 barrels per minute. Ran in hole back to 11674. Rig up Halliburton. Circulate well @ 2500# @ 1.5 barrels per minute. Formation taking water. Close well in.

12/22/93 Continue pumping well with Halliburton. Circulate heavy mud out of casing. Surface equipment plugging up with mud. Pumped 1000 barrels fresh water. Recover 375 barrels mud and water due to weak zone. Well cleaned up. Mix and pump 128 cubic feet, 91 sacks class G cement @ 1400# maximum. Displace with 61 barrels fresh water. Pull 40 joints to 10434 feet. Cement from 11674 to 10674 estimated. Reverse out 40 minutes. Wait on cement for 5 hours. Ran in hole tag cement @ 10702 feet, okay. Test 7 inch casing from 10702 t surface @ 500# for 5 minutes, okay. Rig to pump 9.7 ppg P&H mud. Circulate 400 barrels mud. Pull out of hole with 11+0 stands. Close in well. Steve Field, Div of Oil and Gas, gave verbal approval to pump 1000# cement plug from 11674 to 10674. Peter R. Wygle, Div of Oil and Gas, witnessed and approved tag of plug @ 10702 feet, pressure test casing and mud operations from 10702 to 1590 feet.

12/23/93 Open well, no pressure. Continue laying down 2-7/8 inch N-80 workstring. Lay down 170 joints. Close in well.

12/27/93 Open well, no pressure. Continue laying down 2-7/8 inch N-80 work string. Lay down 40 joints. Had to lay down 134 joints 2-7/8 inch N-80 junk pipe. Had to lay down 40 joints in doubles because of tight pipe. Fill hole with 30 barrels 9.7 ppg P&A mud. Rig up kill line to 10-3/4 inch casing. Bleed casing 10-3/4 inch. Rig up MMI, ran in hole with 20 feet perf gun, 4 shots per foot. Shoot hole from 1570 to 1590 feet. Pull out of hole circulate 60 barrels mud down 7 inch and up 10-3/4 casing. Ran in hole with 54 joints 2-7/8 inch tubing. With tubing tail @ 1617 feet, rig up Halliburton. Test lines. Mix and pump 114 cubic feet, 99 sacks neat cement down 2-7/8 inch tubing and up 10-3/4 casing. Displace with 8 barrels lease water. Open 7 inch casing to gravitate in cement. Pull out of hole with 2-7/8 tubing. Rig up MMI, ran in hole with 2 inch perf gun 4 shots per foot to 100 feet. Shoot from 100 to 102 feet, pull out of hole. Close in well.

12/28/93 Open well. Ran in hole, tag cement @ 1452 feet. Pull out of hole laying down 50 joints 2-7/8 tubing. Rig up Halliburton with tubing tail @ 124 feet. Mix and pump 109 cubic feet, 95 sacks, neat cement down 2-7/8, up 7 & 10-3/4 inch casing to surface. Pull out of hole laying down 4 joints. Clean up BOPE and working floor and tubing equipment. Nipple down BOP, load out BOP. Rig out pump and miscellaneous equipment. Load out BOE. Load out 100 joints junk tubing. Cut 30 stands of tubing in half. Clean out Baker tank and mud pit. Stephen Mulqueen, Div of Oil and Gas, witnessed tag of bfw plug @ 1452 feet and approved placement of surface plug from 124 to surface in 7 inch and 10-3/4 inch annulus.

12/29/93 Rig down move out. Load out junk 2-7/8 tubing. Haul rig and tubing to upper lease. Off load tubing, return to location, load up flow lines and miscellaneous equipment. Load up rig mats.

DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND
GEOTHERMAL RESOURCES

No. P293-393

PERMIT TO CONDUCT WELL OPERATIONS

126 (field code)
00 (area code)
-- (new pool code)
00 (old pool code)

EXXON Corporation
Attn: Env. & Reg. Affairs
P.O. Box 1600
Midland, Texas 79702

Ventura, California
October 25, 1993

Your supplementary proposal to abandon well "Newhall Land & Farming Co." 1, A.P.I. No. 037-16472, Section 23, T. 4N, R. 17W, S.B. B.&M., Castaic Junction field, ---- area, Main pool, Los Angeles County, dated 10/15/93, received 10/22/93, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Requirements specified in permit No. P292-319 dated November, 1993 shall apply.

Fields/Kennard
C/O to 11,674
OK

Blanket Bond
SAF:sf

Engineer Steven A. Fields

Phone (805) 654-4761

William F. Guerard, Jr.
State Oil and Gas Supervisor

By _____

Patrick J. ~~Kinnear~~
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

OG111 (Modified 1993)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

SUPPLEMENTARY NOTICE

FOR DIVISION USE ONLY			
BOND	FORMS		EDP WELL
	OGD114	OGD121	FILE
BB	—	✓	

A notice to the Division of Oil and Gas dated October 29, 19 92, stating the intention to abandon (Drill, rework, abandon) well "Newhall Land & Farming Co." 1 (Well designation), API No. 037-16472,
Sec. 23, T. 4N, R. 17W, S.B. B.& M., Castaic Junction Field,
Kern County, should be amended because of changed conditions.

1. The complete casing record of the well (present hole), including plugs and perforations, is as follows:

2. The total depth is: _____ feet. The effective depth is: _____ feet.

3. Present completion zone (s): _____ (Name). Anticipated completion zone (s): _____ (Name).

4. Present zone pressure: _____ psi. Anticipated/existing new zone pressure: _____ psi.

We now propose: *(A complete program is preferred and may be attached.)*

Please extend P292-319 dated November 6, 1992 for one year.

RECEIVED
OCT 20 1993
DIVISION OF OIL & GAS
BAKERSFIELD

DIVISION OF OIL AND GAS
RECEIVED
OCT 2? 1993
VENTURA, CALIFORNIA

Note: If the well is to be redrilled, show proposed bottom-hole coordinates and estimated true vertical depth.
The Division must be notified if changes to this plan become necessary.

Name of Operator	Telephone Number	
Exxon Corporation	915/688-7888	
Address	**City**	**Zip Code**
P.O. Box 1600 ML 14	Midland, TX	79702
Name of Person Filing Notice	**Signature**	**Date**
Julie H. Mitchell	Julie H. Mitchell	10/15/93

File In Duplicate

OG123 (3/90/GSR1/5M)

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

No. P292-319
Field Code 126
Area Code 00
New Pool Code —
Old Pool Code 25

PERMIT TO CONDUCT WELL OPERATIONS

EXXON Corporation
Attn: Env. & Reg. Affairs
P.O. Box 1600
Midland, Texas 79702

Ventura, California
November 6, 1992

Your proposal to abandon well "Newhall Land & Farming Co." 1, A.P.I. No. 037-16472, Section 23, T. 4 N, R. 17W, S.B. B.&M., Castaic Junction field, --- area, Main pool, Los Angeles County, dated 10-29-92, received 11-04-92, has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Blowout prevention equipment conforming to DOG Class II 2M requirements shall be installed and maintained in operating condition at all times.
2. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
3. A diligent effort shall be made to clean out the well to at least 11,778'.
4. All portions of the well not plugged with cement are filled with inert mud fluid having a minimum density of 72 lbs./cu. ft. and a minimum gel-shear strength (10 min.) of 25 lbs./100 sq. ft.
5. The cement plug proposed to be placed from 11,783' to 11,783' extends from 11,783' to at least 11,508'
6. The well shall be plugged with cement from 324' to 224'to cover a high pressure water zone encountered during drilling.

Blanket Bond
SF:nr

Engineer Steve Fields

Phone (805) 654-4761

WILLIAM F. GUERARD, Jr.
Acting State Oil and Gas Supervisor

By Patrick J. Kinnear
Patrick J. Kinnear
Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.
OG111

7. This office shall be consulted before deviating from the proposed abandonment program.
8. THIS DIVISION SHALL BE NOTIFIED:
   a. To witness the location and hardness of the cement plug at 11,508' and 1470'.
   b. To witness the mudding of the well.
   c. To witness the placing of the surface plug or to verify its location.
   d. To inspect and approve the cleanup of the well site before approval of abandonment will be issued.

DEPARTMENT OF CONSERVATION
DIVISION OF OIL AND GAS

NOTICE OF INTENTION TO ABANDON WELL

This notice must be given at least five days before work is to begin.

DIVISION OF OIL AND GAS
RECEIVED
NOV 0 4 1992
VENTURA, CALIFORNIA

FOR DIVISION USE ONLY			
CARDS	BOND	FORMS	
		OGD114	OGD121
	BB	11-4-92	✓

DIVISION OF OIL AND GAS

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon well No. Newhall Land & Farming Co 1 (Well designation), API No. 037-16472

Sec. 8, T. 4N, R. 16W, S.B. B. & M., Castaic Junction Field, Los Angeles County.

commencing work on 10/26, 19 92.

The present condition of the well is:

1. Total depth 11952'

2. Complete casing record, including plugs and perforations
   20" 48# conductor 0'-70'
   13 3/8" 54.5# csg 0'-1591'
   7" 23/26/29/32# csg 0'-11952'
   perfs: 11636'-11744' (4 SPF)
   11670'-11778' (8 SPF)
   Botttom Hole Plug 11,952'-11,783'

3. Last produced 1986 (Date) 1 (Oil, B/D) 60 (Water, B/D) 5 (Gas, Mcf/D)

OR

4. Last injected _____ (Date) _____ (Water, B/D) _____ (Gas, Mcf/D) _____ (Surface pressure)

Addtional Data for dry hole (show depths)

5. Uppermost productive zone:
   Top of 10 Sand: 10,630'

6. Stratigraphic markers:

7. Formation and age at total depth:

8. Base of fresh water sands: 1580'

The proposed work is as follows:

1. MIRU. Install and test a DOG class III 5M BOPE.
2. Clean out to the bottom of the 7" casing 11,783'.
3. Place a Class "G" cement plug from 11783'-11536'. DOG to witness.
4. Shoot 20'of 4 SPF @ 1590-1570', place class "G" cement plug from 1590' to 1470' to cover fresh water base. DOG to witness.
5. Shoot 4 holes @ 100'. Circulate cement plug from 100' to surface getting returns in casing/conductor annulus.
6. Cut off casing @ 5' and weld plate with well identifier.
8. Clean location. DOG will inspect.

It is understood that if changes in this plan become necessary, we are to notify you immediately

Address 25 Desta Drive (Street) P.O. Box 1600
Midland, (City) TX (State) 79702 (Zip)
Telephone Number 915-688-7888

Exxon Corp. (Name of Operator)
By Judy M. Bagwell (Name-Printed)
Judy Bagwell (Name-Signature) 10-29-92 (Date)
Type of Organization Corporation

Forms\Abandon.DOG

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
NOV - 1 1978
SANTA PAULA, CALIFORNIA

History of Oil or Gas Well

Operator EXXON CORPORATION Field or County Castaic Junction
Well "Newhall Land & Farming Co." 1, Sec. 23, T 4N, R 17W, S.B. & M.
A.P.I. No. 037-16472 Name E. L. McBee (Person submitting report) Title Operations Supt. (President, Secretary or Agent)
Date October 20, , 19 78

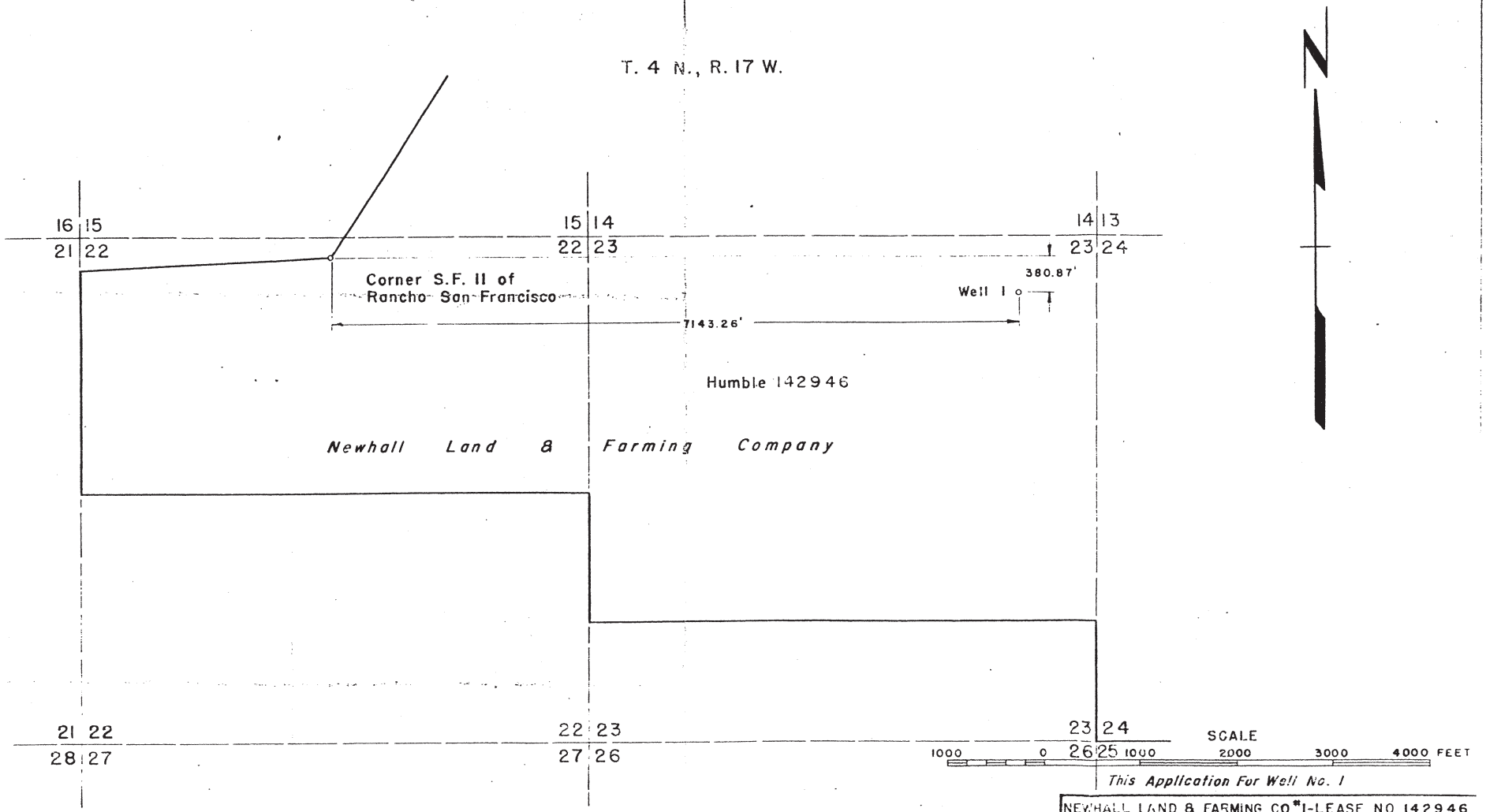
Signature M. E. McBee 11-27

2755 Orange Avenue, Long Beach, CA 90807 (Address) (213) 426-8844 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
9-1-76	MIRU. Installed lubricator and perforated with 2 spf from 11,744' to 11,636' using 2-1/8" link jet gun. Tagged bottom at 11,764' prior to perforating. Hit fluid at 6300' on first perf run and fluid at 3500' on last run. Had no pressure on tbg.
9-2-76	Well shut-in for 12 hrs with 250# tbg pressure. Opened well to tank. Flowed 1 Bbl of oil to tank in 30 min then died. Shut-in to pressure back up.
-76	Shut in for 20 hrs. Tbg pressure 450#. Opened to tank and bled to zero in 15 min (no fluid).
9-4-76	Pressured up with gas lift gas to 1,425#. Shut in for 20 hrs. Opened well to tank and bled to zero in 22 min (no fluid). Shut-in pressure 550#.
9-5-76	Well shut-in.

T. 4 N., R. 17 W.



NEWHALL LAND & FARMING CO. #1-LEASE NO. 142946
LOS ANGELES COUNTY, CALIFORNIA
CALIFORNIA DISTRICT

HUMBLE OIL & REFINING COMPANY
CIVIL ENGINEERING DIVISION
GULF COAST DIVISION

DRAWN Bmb	SCALE 1" = 1000'	FILE NO.
CHECKED	DATE 7-7-49	STB-1445
APPR.	REVISED	

FORM 159 (9-49)

(17)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

REPORT OF WELL ABANDONMENT

Los Angeles, California

April 9 1956

Mr. J E Cox Agent
Humble Oil & Refining Co
613 San Fernando Road
Newhall California

Dear Sir

Your report of abandonment of Well No. "Newhall Land & Farming Co." 54, Sec. 23, T. 4 N, R. 17 W, S B B. & M., Castaic Junction field, Los Angeles County, dated April 2, 1956, 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
18A N.W. cor of Sec. 23	ok		[illegible]		[illegible] M.J.

Orig - Company, L.A.
cc - Mr E H Musser
Company, Newhall (2)
Newhall Land & Farming Co
Conservation Committee
Mr L A Dutton
Fire Prevention Bureau
es

E. H. MUSSER
State Oil and Gas Supervisor

By R. J. Walling
Deputy Supervisor

17601 8-55 11,200 SPC

WORK PERFORMED:

Drill______ Redrill______ Deepen______

Plug______ Alter casing______

Water flood______ Water disposal______

Abandon______

Other______________________

STATUS: (Date)

Producing______________________

Recomp. prod.______________________

Water flood______________________

Water disposal______________________

Abandoned______________________

Other______________________

MAP AND BOOK______________________

RECORDS FILED & DATE: Clerk ______

Summary (dup.)______________________

Log & Core (dup.)______________________

History (dup.)______________________

E-log______________________

Radio log______________________

✓ D. Survey Surf - 12077 11/5/6_ OK

Other______________________

(Check records for signature and correct name of operator or well, S.T.R. and field.)

Location____ Notice states______

Elevation____ Notice states______

Production Reports______________________

(If production reports not received, make notation and inform Sr. Steno. when rec'd.)

If stimulation or disposal well:
Form 121______ Folder______

RECORDS & REQUIREMENTS CHECKED: Eng.____

Surface inspection______________________

Data needed______________________

Request records______________________

Correct records______________________
(Specify)

CARDS______________________

BOND: ______________________

Hold___ Reason______________________

Release___ Date elig.______________________

End premium year____
Release requested____ (Check one)
Bond superseded____
Well abandoned____

FINAL LETTER
and
FILE CLEARED______________________

Clerk:

F 170____

F 165____

165A____

F 150b

F 159____

F 121____

Form 100.

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS

APR 9 1956

LOS ANGELES, CALIFORNIA

WELL SUMMARY REPORT

Operator Humble Oil & Refining Company

Well No. "Newhall Land & Farming Co." #54

Location 969' South and 3727' East from Corner 11, Rancho San Francisco, Los Angeles County.

Date April 9, 1956

Geologist Rex M. Smith

Field Castaic Junction Proj.

Sec. 23, T. 4-N, R. 17-W, S.B. B.&M.

Elevation above sea level 929 feet.

All depth measurements taken from top of Rotary Drive Bushing, which is 12.70 feet above ground.

Signed S. D. McCarty

S. D. McCarty

Title District Superintendent (Agent)

Commenced drilling 12-19-55 Completed drilling 2-29-56 Drilling tools-Rotary

Total depth 12077 Plugged depth --

Junk None

Commenced producing - Dry Hole

GEOLOGICAL MARKERS	DEPTH
Top of Miocene (E. Log)	7600'

Initial Production - None

CASING RECORD

Size of Casing	Depth of Shoe	Top Csg	Weight	New Used	Seamless Lapweld	Grade	Size Hole	Sacks Cemt.	Depth Perfs.
10-3/4	831'	17	40.5	New	SS	J-55	16"	500	-

PERFORATIONS

None

Electrical Log Depths 10648, 10941, 11960, 12062, 12077'.

Form 103.

DIVISION OF OIL AND GAS

HISTORY OF OIL OR GAS WELL

Operator Humble Oil & Refining Company Field Castaic Junction Proj.

Well No. Newhall Land & Farming Co. #54 Sec. 23, T. 4-N, R. 17-W, S.B. B.&M.

Signed S. D. McCarty

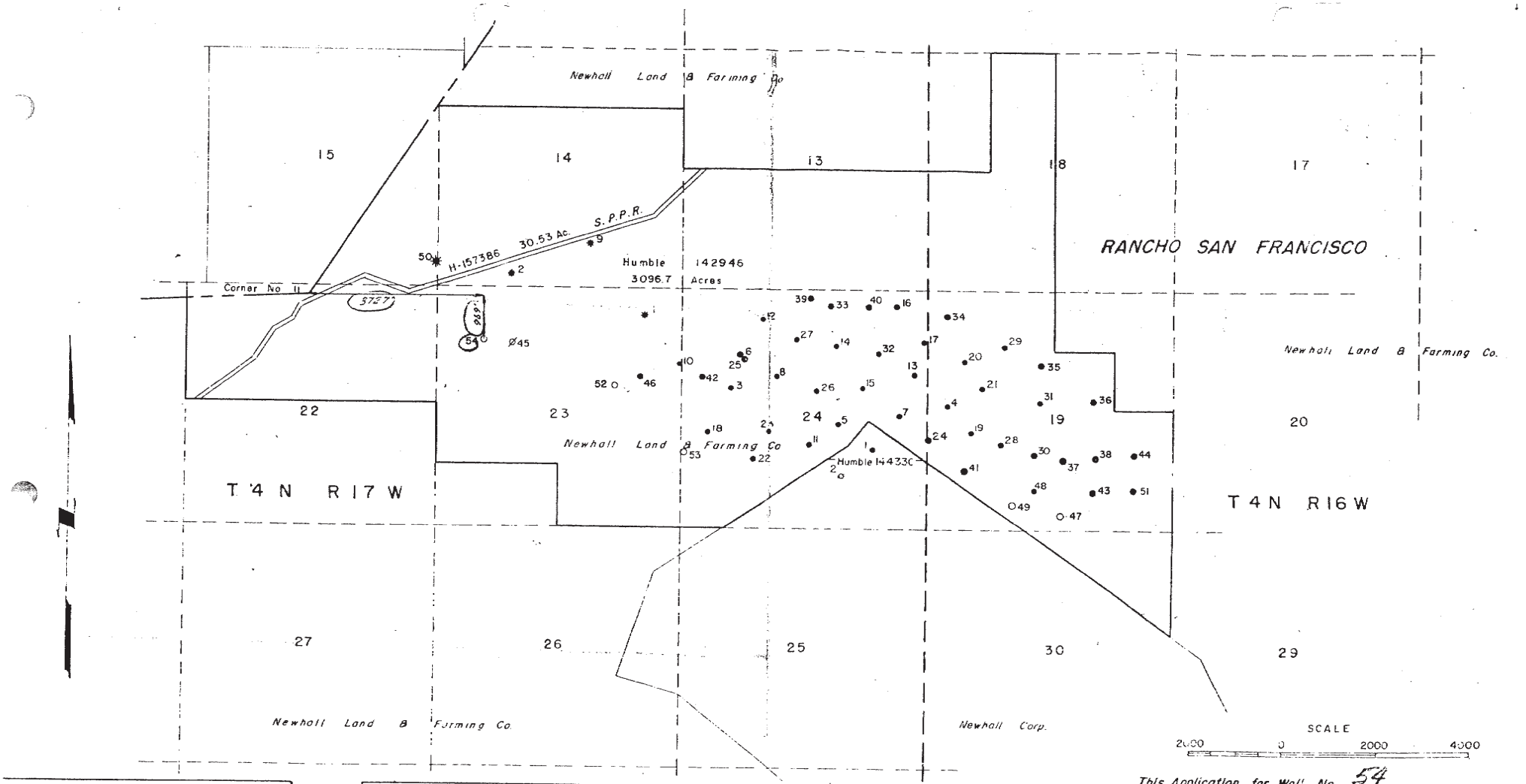
Date April 2, 1956 Title District Superintendent (Agent)

Date	Depth	Description
12-19-55	-	Moving in and rigging up.
12-20 thru 12-21	852	Spudded 11" hole at 12:01 AM, 12-20-56 and drilled to 852'. Opened 11" hole to 16" to 840'. Ran and set 814' of 10 3/4" casing at 831'. Cemented with 500 sacks of cement. Waiting on cement.
12-22 thru 12-23	2560	Drilled 9 7/8" hole to 1931' and twisted off. Ran fishing tools and recovered fish. Drilling 9 7/8" hole.
12-24 thru 1-13-56	8886	Drilled to 2563' and twisted off. Ran fishing tools and recovered fish. Drilling 9 7/8" hole.
1-14 thru 1-17	8942	Drilled 9 7/8" hole to 8921'. Circulated and cleaned hole. Ran and set whipstock at 8921'. Drilled off face of whipstock from 8921' to 8932' with 7 5/8" bit. Opened 7 5/8" hole to 9 7/8" from 8921 to 8932'. Drilling 9 7/8" hole.
1-18 thru 1-19	8999	Drilled 9 7/8" hole to 8972'. Ran and set whipstock at 8972'. Drilled off face of whipstock from 8972' to 8984' with 7 1/2" bit. Opened 7 1/2" hole to 9 7/8" from 8972' to 8984'. Drilling 9 7/8" hole.
1-20 thru 1-22	9032	Drilled 9 7/8" hole to 9016' and ran and set whipstock. Drilled off face of whipstock from 9016' to 9022' with 7 1/2" bit. Opened 7 1/2" hole to 9 7/8" from 9016' to 9022'. Ran and set whipstock at 9022' and drilled off face to 9032' with 7 1/2" bit.
1-23 thru 1-24	9077	Opened 7 1/2" hole to 9 7/8" from 9022' to 9032' and drilled to 9067'. Ran and set whipstock at 9067'. Drilled off face of whipstock to 9077' with 7 1/2" bit. Opened 7 1/2" hole to 9 7/8" from 9067' to 9077'.
1-25 thru 1-27	9160	Drilled 9 7/8" hole to 9106' and ran and set whipstock. Drilled off face of whipstock to 9116' with 7 1/2" bit. Opened 7 1/2" hole to 9 7/8" from 9106' to 9116'. Drilling 9 7/8" hole.
1-28	9184	Drilled 9 7/8" hole to 9174' and ran and set whipstock. Drilled off face of whipstock from 9174' to 9184' with 7 1/2" bit.

Form 103.

WELL HISTORY (Cont'd)
Humble Oil & Refining Co.
Newhall Land & Farming Co. #54

Date	Depth	Description
1-29 thru 2-10	10348	Opened 7 1/2" hole to 9 7/8" from 9174' to 9184'. Drilled 9 7/8" hole to 9204' and ran and set whipstock. Drilled off face of whipstock to 9212' with 7 1/2" bit. Opened 7 1/2" hole to 9 7/8" from 9204' to 9212'. Drilled 9 7/8" hole to 10348'.
2-11 thru 2-12	10564	Reduced 9 7/8" hole to 8 3/4" at 10348'. Drilling 8 3/4" hole.
2-13 thru 2-17	10940	Drilled to 10650' and ran electric log to 10648'. Drilling 8 3/4" hole.
2-18 thru 2-23	11883	Ran electric log to 10941'. Drilling 9 7/8" hole.
2-24	11960	Drilled to 11960' and ran electric log to 11960'.
2-25	12020	Drilled 8 3/4" hole to 12000'. Cored from 12000' to 12020' with 6 1/4" core head.
2-26	12077	Opened 6 1/4" hole to 8 3/4" from 12000' to 12020' and drilled to 12077'. Ran electric log to 12062'.
2-27	12077 TD	Placed cement plug #1 from 11998' to 11798' with 75 sacks of cement. Placed plug #2 from 10967' to 10767' with 75 sacks of cement. Placed plug #3 from 3400' to 3170' with 100 sacks of cement. Top of plug #3 witnessed by the Division of Oil and Gas.
2-28	12077	Placed plug #4 from 930' to 730' with 100 sacks of cement. Released rig at 12:00 Noon, 2-28-56. Tearing out rig.
2-29		Placed plug #5 from 20' to surface with 20 sacks of cement. Welded steel plate on top of 10 3/4" casing. Finished tearing out rig. Well dry and abandoned. Final report for rig and well.



This Application for Well No. 54

REVISIONS				
DATE	DESCRIPTION	BY	CHK	APPR
5-20-55	ADD WELL NO. 51	KDS		
8-25-55	" " " 52	"		
10-12-55	" " " 53	"		
11-55	" " " 54	"		

REVISIONS				
NO	DATE	DESCRIPTION	BY	CHK APPR
7	1-28-55	ADD WELL NO 45	K.D.S.	
8	2-2-55	" " " 46	"	
9	3-29-55	" " " 47	N.D.C.	
10	3-7-55	" " " 48	K.D.S.	
11	12-21-55	" " " 49	"	
12	4-25-55	" " " 50	"	

REVISIONS				
NO	DATE	DESCRIPTION	BY	CHK APPR
1	8-18-54	ADD WELL NO 40	KDS	
2	8-30-54	" " " 38	NDC	
3	9-2-54	" " " 41	NDC	
4	9-28-54	" " " 42	KDS	
5	12-14-54	" " " 43	KDS	
6	12-21-54	" " " 44	KDS	

NEWHALL LAND & FARMING CO.
LEASE NO 142946
CASTAIC JUNCTION DIST. LOS ANGELES CO.

HUMBLE OIL & REFINING COMPANY
CIVIL ENGINEERING DIVISION
CALIFORNIA AREA

DRAWN KDS
CHECKED
APPR

SCALE 1" = 2000'
DATE 8-18-54
REVISED

FILE NO.
CAB 44

SUPERCEDES DRWG NO CAB 23

ORM 105

037-16511

STATE OF CALIFORNIA

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS 3

(D)

DIVISION OF OIL AND GAS
RECEIVED
FEB 1 1955
LOS ANGELES, CALIFORNIA

Notice of Intention to Drill New Well

This notice and surety bond must be filed before drilling begins

Los Angeles Calif. January 27, 1955

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. Newhall Land & Farming Co. Proj. No. 45, Sec. 23, T. 4-N, R. 17-W, SB B. & M., Castaic Junction Field, Los Angeles, County.

Legal description of lease See attached Plat.
(Attach map or plat to scale)

Location of Well: 835 feet South (Direction) and 4269 feet East (Direction) at right angles to said line from corner 11, Rancho San Francisco, Los Angeles, County, California. Also located 1,020 feet South and 3,698 feet West from the Northeast corner of Projected Section 23, T-4-N, R-17-W, SBB&M.

Elevation of ground above sea level feet To be submitted Later datum.

All depth measurements taken from top of Kelly Bushing which is 12 feet above ground.
(Derrick Floor, Rotary Table or Kelly Bushing)

PROPOSED CASING PROGRAM

SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	CEMENTING DEPTHS
10-3/4"	40.5#	J-55	0	800	Cemented to surface
5-1/2"	17 -20 & 23#	N-80	0	12000	Cemented 1000 feet above shoe

Intended zone or zones of completion: Zone 21, Upper Miocene, 12000'

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
34-18A	WFP	EB	Blanket	EB	EB

It is understood that if changes in this plan become necessary we are to notify you before running casing.

Address 612 South Flower Street
Los Angeles 17, California

Telephone Number MA 6-7701

Humble Oil & Refining Co.
(Name of Operator)

By James E. Cox

SEND ONE COPY OF NOTICE TO DIVISION OFFICE IN DISTRICT WHERE WELL IS LOCATED

FORM 111 (1-49)

D

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS

No. P 155-198

Mr. J E Cox
Newhall
California
Agent for HUMBLE OIL & REFINING CO

Los Angeles 15 California
February 7 1955

12-1

DEAR SIR:

Your "Newhall Land & Farming Co." proposal to drill Well No. 45,

Section 23, T. 4 N, R. 17 W, S B B. & M., Castaic Junction Field, Los Angeles County,

dated Jan. 27 19 55, received Feb. 1 1955, 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 lease See attached Plat.
Location of Well: 835 feet South and 4269 feet East at right angles to said line from corner 11, Rancho San Francisco, Los Angeles, County, California. Also located 1,020 feet South and 3,698 feet West from the Northeast corner of Projected Section 23, T-4-N, R-17-W, SBB&M
Elevation of ground above sea level To be submitted Later
All depth measurements taken from top of Kelly Bushing which is 12 feet above ground."

PROPOSAL
"PROPOSED CASING PROGRAM

Size of Casing Inches	A.P.I. Weight	Grade and Type	Top	Bottom	Cementing Depths
10-3/4"	40.5#	J-55	0	800	Cemented to surface
5-1/2"	17 -20 & 23#	N-80	0	12000	Cemented 1000 feet above shoe

Intended zone or zones of completion: Zone 21, Upper Miocene, 12000'
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 pipe.
2. Adequate blowout prevention equipment shall be installed and maintained in operating condition at all times.
3. THIS DIVISION SHALL BE NOTIFIED AS FOLLOWS:
   (a) To inspect the installed blowout prevention equipment before drilling below 2000'.
   (b) To witness a test of the effectiveness of the 5½" shut-off.

FEK:OH

cc Company (2)
Newhall Land & Farming Co

Orig Company Los Angeles

Blanket bond.

98406 5-54 25M SPO

E. H. MUSSER
State Oil and Gas Supervisor

By R. M. Walling Deputy

FORM 109-D

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 155-682

Mr. J E Cox
613 San Fernando Road
Newhall California
Agent for HUMBLE OIL & REFINING CO

Los Angeles 15 Calif.
March 29 19 55

DEAR SIR:

Operations at your well No. "Newhall Land & Farming Co." 45 Sec. 23, T. 4 N., R. 17 W., S B B. & M., Castaic Junction Field, in Los Angeles County, were witnessed on March 21, 19 55. Mr. G. Y. Lee, Engineer, representative of the supervisor was present from 9:30 A.M. to 10:00 A.M. There were also present J. Ortega, Drilling Foreman G. Micheli, Driller

Present condition of well: 10 3/4" cem. 824'; T.D. 7435'

The operations were performed for the purpose of inspecting blowout prevention equipment and installation

Mr. Ortega reported:

1. A 16" rotary hole was drilled from the surface to 824'.
2. On March 6, 1955, 10 3/4", 40 lb. casing was cemented at 824' with 450 sacks of cement.
3. Cement returned to the surface.
4. A 9 7/8" rotary hole was drilled from 824' to 7435'.

THE ENGINEER NOTED THAT the well was equipped with the following blowout prevention equipment:

1. A Shaffer double cellar control gate for closing in the well with the drill pipe out of the hole, and for closing around the 4 1/2" drill pipe.
2. A G. K. Hydril Blowout Preventer for closing around the 4 1/2" drill pipe.
3. The controls for the above equipment were located outside the derrick.
4. A 2" mud fill-up line with a 2" high pressure Nordstrom stopcock into the 10 3/4" casing below the above equipment.
5. A high pressure stopcock on the kelly.

THE BLOWOUT PREVENTION EQUIPMENT AND INSTALLATION ARE APPROVED.

GYL:lg

cc Company (2)
Newhall Land & Farming Co.

Orig Company Los Angeles

E. H. MUSSER
State Oil and Gas Supervisor

By R. N. Kelley Deputy

12962 2-55 18,100 © SPO

FORM 108. 57613 2-52 20M ⓢ SPO

DIVISION OF OIL AND GAS
RECEIVED
MAY 4 1955
LOS ANGELES, CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin; one copy only

Newhall, Calif. May 2, 19 55

DIVISION OF OIL AND GAS
1015 West Olympic Blvd.
Los Angeles 15, Calif.

In compliance with Secs. 3228, 3229, 3230, 3231 and 3232, Ch. 93, Stat. 1939, notice is hereby given that it is our intention to abandon well No. Newhall Land & Farming Co. #45

Sec. 23, T. 4-N, R. 17-W, S.B. B. & M. Castaic Junction Field,

Los Angeles County, commencing work on the 2nd day

of May 1955.

The present condition of the well is as follows:

1. Total depth. 11,947' - Drilled 9-7/8" hole to TD without encountering any commercial oil or gas shows. Approximate top of 21-zone - 11,700', top of 15-zone - 10,690', base of fresh water sand 3300'.
2. Complete casing record.

10-3/4" 40.50 J-55 Casing set at 824'.

3. Last produced. Dry Hole _____ _____ _____

Date | Net oil | Gravity | Cut

The proposed work is as follows: Place cement plugs as follows:

#1 - from 11,800 to 11,600, using 100 sacks cement
#2 - from 10,750 to 10,550, using 100 sacks cement
#3 - from 3,300 to 3,100, using 100 sacks cement
DOG will be notified to witness location and hardness of plug #3 which is at base of fresh water sand.
#4 - from 925 to 725 using 100 sacks cement
#5 - from 20 to 0 using 10 sacks cement
and weld steel plate on top of casing.

abandon

MAP	MAP BOOK	CARDS	BOND	FORMS 114	FORMS 121
	EB	blanket	EB	EB	

HUMBLE OIL & REFINING COMPANY
(Name of Operator)

By James E. Cox
James E. Cox

ADDRESS ONE COPY OF NOTICE TO DIVISION OF OIL AND GAS IN DISTRICT WHERE WELL IS LOCATED

FORM 111 (1-49)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS

No. P 155-800

Mr J E Cox
613 San Fernando Road
Newhall California
Agent for HUMBLE OIL & REFINING CO

Los Angeles 15
May 5 Calif. 55
19

DEAR SIR:

Your abandon proposal to "Newhall Land & Farming Co." Well No. 45,

Section 23, T. 4 N, R. 17 W, S B B. & M., Castaic Junction Field, Los Angeles County,

dated May 2 55 19, received May 4 55 19, 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:

1. Total depth. 11,947' - Drilled 9-7/8" hole to TD without encountering any commercial oil or gas shows. Approximate top of 21-zone - 11,700', top of 15-zone - 10,690', base of fresh water sand 3300'.
2. Complete casing record.
   10-3/4" 40.50 J-55 Casing set at 824'.
3. Last produced. Dry Hole."

PROPOSAL

"The proposed work is as follows: Place cement plugs as follows:

#1 - from 11,800 to 11,600, using 100 sacks cement
#2 - from 10,750 to 10,550, using 100 sacks cement
#3 - from 3,300 to 3,100, using 100 sacks cement
DOG will be notified to witness location and hardness of plug #3 which is at base of fresh water sand.
#4 - from 925 to 725 using 100 sacks cement
#5 - from 20 to 0 using 10 sacks cement and weld steel plate on top of casing."

DECISION

THE PROPOSAL, COVERING WORK ALREADY COMPLETED IN ACCORDANCE WITH PRIOR AGREEMENT, IS APPROVED.

FEK:OH

2 cc Humble Oil & Refining Co
P O Box 1196
Newhall California

Newhall Land & Farming Co
Route 3 Box 77
Saugus California

Orig. Humble Oil & Refining Co
612 South Flower Street
LOS ANGELES 17

Blanket bond.

E. H. MUSSER, State Oil and Gas Supervisor

By G. H. Walling, Deputy

FORM 109-D

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL AND GAS

Special Report on Operations Witnessed

No. T 155-1146

Mr. J E Cox
613 San Fernando Road
Newhall California
Agent for HUMBLE OIL & REFINING CO

Los Angeles 15 Calif.
May 20 1955

DEAR SIR: "Newhall Land & Farming Co."

Operations at your well No. 45 Sec. 23, T. 4 N, R. 17 W, S B B. & M., Castaic Junction Field, in Los Angeles County, were witnessed on May 4, 1955. Mr. R. Ybarra, Engineer, representative of the supervisor was present from 1:00 to 2:00 p.m. There were also present J. Walvoord, Engineer; J. Ortega, Drilling Foreman.

Present condition of well: 10-3/4" cem. 824'. T.D. 11,947', plugged with cement 11,800'-11,600', 10,750'-10,550', 3300'-3095', 914'-714', and 27'-7'.

The operations were performed for the purpose of witnessing the plugging operations in the process of abandonment.

Mr. xxxxxx reported:

ENGINEER YBARRA VISITED THE WELL FROM 8:30 - 9:30 A.M., MAY 4, 1955, AND MR. WALVOORD REPORTED: 1. A 9-7/8" rotary hole was drilled from 824' to 11,947'.

2. No commercial showings of oil or gas were encountered.
3. On May 2, 1955, 100 sacks of cement was pumped into the hole through 4½" drill pipe hanging at 11,800', filling to 11,600'.
4. On May 2, 1955, 100 sacks of cement was pumped into the hole through 4½" drill pipe hanging at 10,750', filling to 10,550'.
5. On May 3, 1955, 100 sacks of cement was pumped into the hole through 4½" drill pipe hanging at 3,300', filling to 3,095'.

THE ENGINEER NOTED THAT the cement plug at the reported depth of 3,095' supported 15 point of the weight of the 4½" drill pipe.

THE ENGINEER ARRIVED AT THE WELL AT 1:00 P.M. AND MR. ORTEGA REPORTED:

1. On May 4, 1955, 100 sacks of cement was pumped into the hole through 4½" drill pipe hanging at 914', calculated to fill to 714'.
2. A wooden plug was driven to 27'.
3. Seven sacks of cement was poured into the hole.

THE ENGINEER NOTED THAT the top of the cement in the 10-3/4" casing was at the cellar floc 7' below the ground level.

THE PLUGGING OPERATIONS AS WITNESSED AND REPORTED ARE APPROVED.

RY:OH

(2) cc Humble Oil & Refining Co.
P O Box 1196
Newhall California

Newhall Land & Farming Co.
Route 3 Box 77
Saugus California

E. H. MUSSER
State Oil and Gas Supervisor

By R. N. Nelling Deputy

Orig. Humble Oil & Refining Co.
612 South Flower Street
LOS ANGELES 17

12362 2-55 18,100 SPO

FORM 159 (9-49)

STATE OF CALIFORNIA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS

(25)

REPORT OF WELL ABANDONMENT

Los Angeles 15, California

June 27, 1955

Mr J E Cox Agent
Humble Oil & Refining Co
613 San Fernando Road
Newhall California

Dear Sir

Your report of abandonment of Well No. "Newhall Land & Farming Co." 45 Sec. 23, T. 4 N, R. 17 W, S B B. & M., Castaic Junction field, Los Angeles County, dated May 31, 1955, 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
Cmpl 18A	WDP		Blanket		

M.J.

Yours truly

E. H. MUSSER
State Oil and Gas Supervisor

By R. W. Walling
Deputy Supervisor

cc Mr E H Musser
Company
Newhall Land & Farming Co
Mr L A Dutton
Fire Prevention Bureau
Conservation Committee

es

98061 4-54 11,200 SPO

Form 100.

DIVISION OF OIL AND GAS

WELL SUMMARY REPORT

RECEIVED
JUN 24 1955
LOS ANGELES, CALIFORNIA

Operator Humble Oil & Refining Company

Field Castaic Junction

Well No. Newhall Land & Farming Co. #45

Sec. 23, T. 4-N, R. 17-W, S. B. B.&M.

Location 835' South and 4269' East at right angles to said line from corner 11, Rancho San Francisco, Los Angeles County.

Elevation above sea level 943 feet. All depth measurements taken from top of Rotary Drive Bushing, which is 955 feet above ground.

Date May 31, 1955

Signed James E. Cox

Geologist Paul H Dudley Jr

Title James E. Cox
District Superintendent

Commenced drilling 3-4-55 Completed drilling 5-5-55 Rotary Drilling tools

Total depth 11947' Plugged depth -

Junk None

~~Commenced producing~~ Dry Hole

Initial production None

GEOLOGICAL MARKERS	DEPTH
Top of Miocene(E.Log)	7700(?)

CASING RECORD

Size of Casing	Depth Shoe	Top Csg	Weight	New Used	Seamless Lapweld	Grade	Size Hole	Cemt.	Depth Perfs.
10-3/4"	824'	16'	40.5#	New	SS	J-55	16"	450	-

PERFORATIONS - None

Plug To Abandon:

No. 1	11800-11600	Using 100 sacks Hi-Temp Cement
No. 2	10750-10550	Using 100 sacks Hi-Temp Cement
No. 3	3300- 3100	Using 100 sacks Construction Cement
No. 4	914- 714	Using 100 sacks Construction Cement

Top plug from bottom of cellar down 20'.

Electrical Log Depths 10737' and 11947'

Form 103.

DIVISION OF OIL AND GAS

HISTORY OF OIL OR GAS WELL

Operator Humble Oil & Refining Company Field Castaic Junction

Well No. Newhall Land & Farming Co. #45 Sec. 23, T. 4-N, R. 17-W, S. B. B.&M.

Signed James E. Cox

Date May 31, 1955 Title District Superintendent

Date	Depth	Description
3-4-55	-	Moved in and rigged up.
3-5-55	811	Spudded 11" hole @ 12:01 A.M. and drilled to 811'.
3-6-55	871	Drilled 11" hole to 871'. Opened 11" hole to 16" from 0 to 835'. Ran and set 807' of 10-3/4" casing at 824'. Cemented with 450 sacks of construction cement mixed with 8% gel. Waiting on cement to set.
3-7-55	1153	Tested surface casing w/500 lbs. for 1/2 hour. Drilled 9-7/8" hole to 1153'.
3-8-55 thru 3-9-55	2433	Drilling 9-7/8" hole.
3-10-55	2937	Drilled 9-7/8" hole to 2514'. Twisted off, leaving 3 drill collars in hole. Ran in with socket, bumper sub, and jars. Recovered fish. Drilled 9-7/8" hole to 2937'.
3-11-55 thru 4-12-55	10701	Drilling 9-7/8" hole. Placed Baroid mud logging unit on well on 3-16-55 and ran to total depth (11947').
4-13-55	10726	Coring 7-5/8" hole.
4-14-55	10726	Ran 9-7/8" string reamer and reamed tight hole from 4150' to 4658'.
4-15-55	10726	Reamed 9-7/8" hole to bottom. Set pipe on bottom and backed off at 5223'.
4-16-55	10726	Screwed into fish and pulled same out of hole. Preparing to run drill stem test.
4-17-55	10736	Ran in hole for HOWCO DST #1 to test from 10706' to 10726'. Packer failed - no test resulted. Cored 7-5/8" hole to 10736'. Preparing to run drill stem test.
4-18-55	10737	Ran HOWCO DST #2 from 10711' to 10736' using 1" top and 1/4" bottom chokes. Tool open 80 minutes with flowing pressure of 1435#. Shut-in pressure 3760#. Recovered 350' salt water, 8500 ppm chloride, and 100' drilling fluid. Open 7-5/8" hole to 9-7/8" and drilled one foot to 10737'.

Form 103.

RECEIVED
JUN 24 1955
LOS ANGELES, CALIFORNIA

WELL HISTORY (Cont'd) Page No. 2
Humble Oil & Refining Company
Newhall Land & Farming Co. #45

Date	Depth	Description
4-19-55	10814	Ran electric log to 10737'. Drilled 9-7/8" hole to 10814".
4-20-55	10844	Cored 7-5/8" hole to 10844'.
4-21-55	10903	Ran HOWCO DST #3 from 10819' to 10844' using 1" top and 1/4" bottom chokes. Tool open 60 minutes with flowing pressure of 1470#. Shut-in pressure 5105#. Recovered 315' salt water, 1200 ppm chloride, 30' drilling fluid, and 15' thin black oil. Opened 7-5/8" hole to 9-7/8" and drilled to 10903'.
4-22-55 thru 4-29-55	11879	Drilling 9-7/8" hole.
4-30-55	11947	Completed drilling 9-7/8" hole. Ran Caliper Log from 6993' to 11947', Contact Log from 10500' to 11947', Dipmeter from 7000' to 11947', and Electric Log to 11947'.
5-1-55		Preparing to run drill stem test.
5-2-55		Planned to test from 10718' to 10765' but packers failed to hold. Placed Plug No. 1 from 11800' to 11600' using 100 sacks Colton Hi-Temp Cement. Placed Plug No. 2 from 10750' to 10550' using 100 sacks Colton Hi-Temp Cement.
5-3-55		Placed Plug No. 3 from 3300' to 3100' using 100 sacks Construction Cement. Found top at 3095'. Witnessed and approved by representative from Division of Oil and Gas. Placed Plug No. 4 from 914' to 714' using 100 sacks Construction Cement.
5-4-55		Placed top plug from bottom of cellar down 20'. Witnessed and approved by representative from Division of Oil and Gas. Tearing down and moving out rig.
5-5-55		Finished moving out. Well abandoned as dry hole.

Form 101.

RECEIVED
JUL 24 1955
LOS ANGELES, CALIFORNIA

DIVISION OF OIL AND GAS

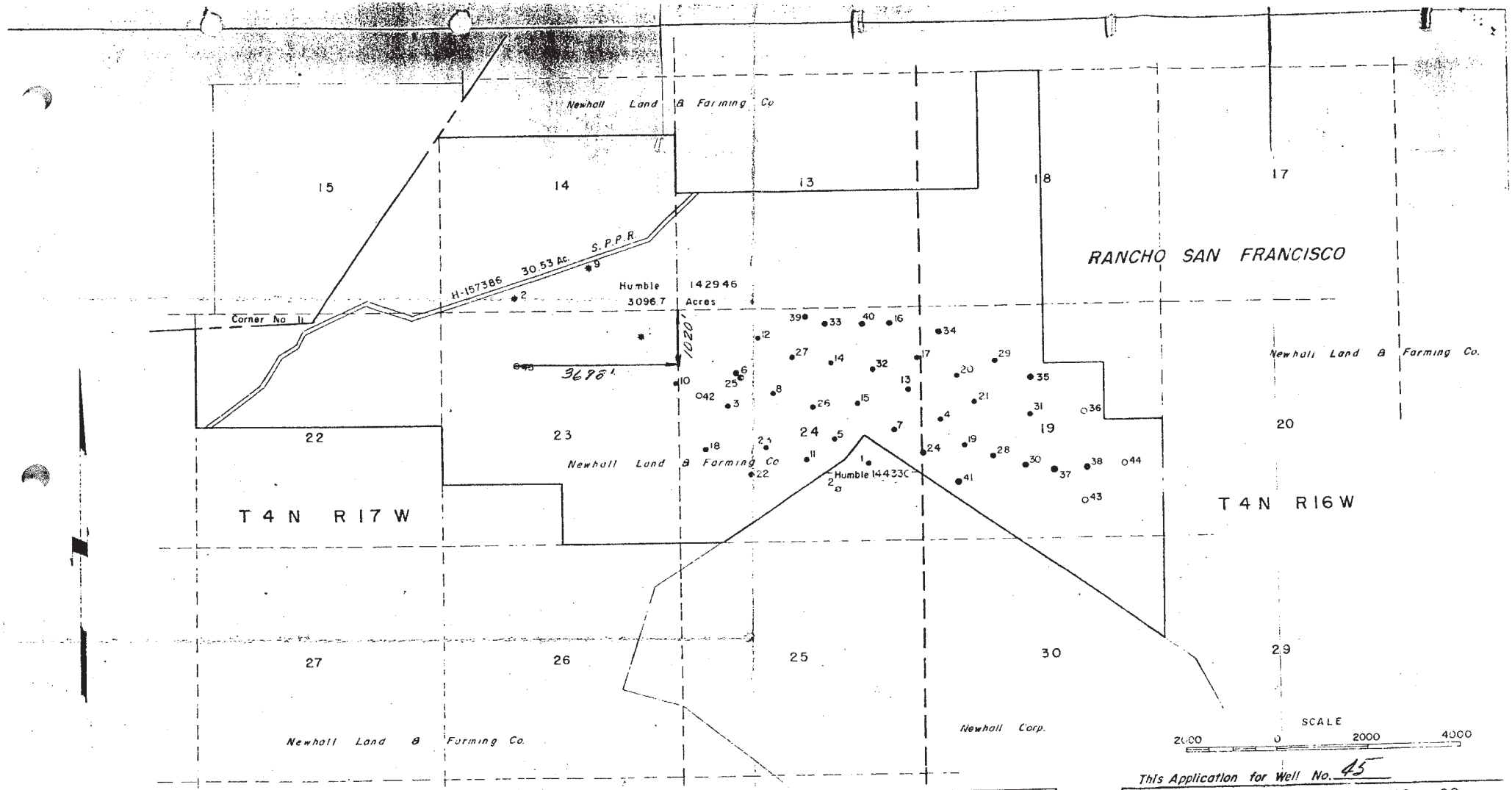
LOG AND CORE RECORD OF OIL OR GAS WELL

Operator Humble Oil & Refining Company Field Castaic Junction

Well No. Newhall Land & Farming Co. #45 Sec. 23, T. 4-N, R. 17-W, S. B. B.&M.

FORMATIONS PENETRATED BY WELL

Depth To Top of Formation	Depth To Bottom of Formation	Drilled or Cored	Description
0	871	D	Sand, boulders, and gravel
871	3655	D	Sand
3655	5478	D	Shale
5478	7714	D	Shale and sand
7714	10701	D	Shale
10701	10736	C	See core description attached
10736	10814	D	Shale
10814	10844	C	See core description attached
10844	11947	D	Shale



This Application for Well No. 45

REVISIONS				
NO	DATE	DESCRIPTION	BY	CHK	APPR

REVISIONS				
NO	DATE	DESCRIPTION	BY	CHK	APPR
7	11-28-55	ADD WELL NO 45	K.D.S		

REVISIONS				
NO	DATE	DESCRIPTION	BY	CHK	APPR
1	8-18-54	ADD WELL NO 40	KDS		
2	8-30-54	" " " 38	NDC		
3	9-2-54	" " " 41	NDC		
4	9-28-54	" " " 42	KDS		
5	12-14-54	" " " 43	KDS		
6	12-21-54	" " " 44	KDS		

NEWHALL LAND & FARMING CO.
LEASE NO 142946
CASTAIC JUNCTION DIST. LOS ANGELES CO.

HUMBLE OIL & REFINING COMPANY
CIVIL ENGINEERING DIVISION
CALIFORNIA AREA

DRAWN KDS	SCALE 1" = 2000'	FILE NO.
CHECKED	DATE 8-18-54	CAB 44
APPR	REVISED	

SUPERCEDES DRWG NO CAB 23

APPENDIX F:

DOGGR Well Abandonment Procedures

DEPARTMENT OF CONSERVATION'S

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

District 2-Ventura

CONSTRUCTION PROJECT SITE REVIEW

AND

WELL ABANDONMENT PROCEDURE

12 - 9 - 03

OIL AND GAS WELL REVIEW PROCEDURE

Applicant _____ Permitting Office _____

Address _____ _____

City _____ Zip _____ Mailing Address _____

Date _____ City _____ Zip _____

Plan Check No. _____

Plan Checker _____
Print or Type Name Signature Phone Number

The proposed construction site is located at _____

_____

_____

There is/are _____ (number) active, idle, or abandoned well(s) located on or adjacent to the site; therefore, before a building/grading permit should be issued, The Division of Oil and Gas (Division) recommends that a site-plan review be obtained. The Division will determine if affected wells have been abandoned to current standards. Wells that are not abandoned to current standards may require abandonment/reabandonment. Cost of the required abandonment/reabandonment shall be the responsibility of the landowner or developer. (PRC Section 3208.1)

THE DIVISION OF OIL AND GAS RECOMMENDS THAT A DILIGENT EFFORT BE MADE TO AVOID BUILDING NEAR ANY WELL.

SITE REVIEW PROCEDURE TO BE FOLLOWED BY PROJECT APPLICANT

1. Contact and make an appointment with the Division at:

   California Department of Conservation
   Division of Oil, Gas, and Geothermal Resources
   1000 S. Hill Road Suite 116
   Ventura, CA. 93003-4458

2. Provide the following information: (EXAMPLE)

   a. Area, location.....Section, Township, and Range
   b. Oil field/County.....Placerita Oil Field, L.A. County
   c. Company/Operator.....XYZ Oil Company
   d. Well Designation....."Gusher" 1
   e. Section-Township-Range: 35-T5N-R17W
   f. Major Cross streets..Main Street and X street
      (or other identifier)

3. The Division will provide you with the location or record for each well. Using this information, uncover the well(s) and have the well locations(s) surveyed by a licensed surveyor. If any well cannot be located using the original description on file, a diligent effort, including excavation, must be made to locate it.

4. The following procedures are to be used to locate wells on site plans and to verify that an adequate search was completed.

Step 1. The developer/landowner shall survey the well locations using the "location of record". If the well cannot be found then excavate at least 15 feet long, 15 feet wide, and 12 feet dig. If any indications of an oil well (i.e. cellar, oilfield debris, oil- saturated soil) are observed, or if any information available that original conditions have changed since "location of record" was determined, a larger hole may be required.

Step 2. If the well is not located using the procedures listed in step #1, a metal detector should be used to survey the area (inside and outside the excavation).

Step 3. The developer/landowner shall excavate all indicated metal detector locations by digging a hole that is at least 10 feet long, 10 feet wide, and 12 feet deep, if necessary. If any indications of an oil well are observed upon completion of the excavation, or if there is any information available that original conditions have changed since the well was drilled, a larger hole may be required.

Step 4. The developer/landowner shall notify the Division to witness all completed excavations before they are refilled. Pictures shall be taken of all excavations. The survey of the well shall be available to the Division engineer for review.

Step 5. If the well search efforts prove unsuccessful, the Division engineer and the developer shall prepare written report describing the search procedures and attach the excavation pictures.

5. **All accessible previously plugged and abandoned wells located on the project site shall be tested for gas leakage and inspected for fluid leakage.** The testing/inspection shall be done by Division personnel or the developer. If the developer performs the test, the Division shall be notified to witness the test.

If there is any indication of fluid or gas leakage, the well condition shall be remedied, even if the well will not be located nearby a structure. The cost of the reabandonment shall be the responsibility of the landowner or developer. (PRC Section 3208.1)

6. The location of each well must be plotted on the site plan. The well survey description must reference a point on the site plan which in turn must reference a point on existing Division maps. (Section corner, Rancho corner, latitude/longitude, etc.) Identify each well with the name of the company/operator and well designation. Submit <u>THREE</u> copies of the site plan and three copies of each well-location survey to the Division.

If a developer/landowner locates a well within a 4-foot radius of the wells "location of record", there is no need to survey the actual well location. However, the developer/landowner must verify that the well was found within 4 feet of the "location of record".

The site plans should indicate the property boundaries, an area of at least 25 feet outward from the perimeter of the property, any proposed or existing structures, and any existing or proposed roads or streets that pass through or are immediately adjacent to the property. The site plan should also include a plot (to scale) of all existing and proposed oilfield facilities (tanks, processing equipment, pipelines, etc.) that will be operating on the site after completion of the proposed development and include a description of the existing type and height of all oilfield enclosures and list any facility modifications that are part of the development plans.

If a structure is proposed within 10 feet of an abandoned/reabandoned well, the site plans should include an approved well-vent system designed to vent natural gases to the atmosphere. If a structure is within 25 feet of a structure and the permitting agency is Los Angeles County then an approval letter from Los Angeles County Environmental Programs Division must be submitted.

7. A Division engineer will review the submitted plans. The Division will prepare a "Plan Review" (Form OG190), which will indicate the wells on the project site and our recommendations with respect to the wells.

After the review is complete, the reviewing engineer will affix the Division certification stamp to the three copies of the site plans and three copies of the FORM OG190. One copy will be returned to the applicant and one copy will be forwarded to the permitting agency. The remaining copy will be retained by the Division.

PLUGGING AND ABANDONMENT PERMIT PROCESS

1. Before any well operations are commenced, an application to plug and abandon or reabandon or extend casing for each well must be filed with the Division. (FORM OG108 or FORM OG123) This application must be outline the work proposed to upgrade the well to current requirements.

2. The Division will respond with a "Permit to Conduct Well Operations" that sets forth the conditions and requirements to be met.

3. When the well work is completed and all records received the Report of Well Plugging and Abandonment or Reabanonment will be issued.

IF, DURING THE CONSTRUCTION/GRADING PROCESS, ANY PREVIOUSLY UNKNOWN WELL IS DISCOVERED, THE DIVISION MUST BE NOTIFIED IMMEDIATELY, SO PLUGGING AND ABANDONMENT REQUIREMENTS CAN BE DETERMINED.

ONSHORE ABANDONMENT/REABANDONMENT REQUIREMENTS
DISTRICT 2

General

Plugging is required to protect life, health, property, deposits of oil, gas, or fresh water from loss or damage. A written notice (OG108) stating in detail the proposed method of abandonment, must be filed. For reabandonments, a written notice (OG1123) stating in detail, the proposed method of reabandonment, must be filed. All required downhole cement plugs shall use cement that has a minimum compressive strength of 1000 psi and a maximum liquid permeability of .1 md. No more than a 4% gel mixture shall be allowed. The sand/cement ratio for downhole muds is limited to 2:1.

Mudding

All portions of the hole not occupied by cement shall be filled with good quality, water-base mud fluid having proper weight and consistency to prevent movement of other fluids into the wellbore. Under "normal" conditions, proper weight and consistency is 72 lbs./cf with a minimum gel-shear strength (10 min.) 25 lbs./100 sq. ft.

Surface Pour

No aggregate concrete (NO ROCKS) may be used for surface plugs. The maximum sand/cement ration that is acceptable is 4:1. When there is more than one string of casing at the surface, cement shall be placed between. The preferred alliterative is to cut and pull all inside strings before the surface plug is placed. A surface cement-pour is permitted only in an empty hole with a diameter of not less than 5 inches. Depth limitations shall be determined on an individual well basis.

Bailers

Bailer placed cement plugs are limited to 3000' or less.

Junk in Hole

Diligent effort shall be made to recover junk when such junk may prevent proper abandonment. In the event that the junk cannot be removed and fresh-water or oil and gas zones penetrated below cannot therefore be properly abandoned, cement shall be down-squeezed through or past the junk and a 100-foot cement plug shall be placed on top of the junk. In the event that a retainer is used, then 100 foot plug shall be placed on top of the retainer.

Recovery of Casing

Approval to recover all casing possible will be given in the abandonment of wells where subsurface plugging can be done to the satisfaction of the Division.

Extending Casing

The final grade of the well shall be no greater than 5 feet below ground. In the event that the casing is to be extended, it shall be extended with adequate casing of the same size of the casing that is found at the surface. In addition, the casing shall be filled with cement.

Open Hole

Oil and Gas Zones- Cement plug shall be place from total depth or at least 100 feet below the bottom of each oil and gas zone, whichever is less, to at least 100 feet above the top of each zone.

Freshwater Zones- A minimum 200 foot cement plug shall be placed across all fresh-saltwater interfaces. An interface plug may be placed wholly within a thick shale if such a shale separates the freshwater sands from the brackish or saltwater sands.

Cased Hole

Oil and Gas zones- All perforations shall be plugged with cement and the plug shall extend at least 100 feet above the top of a landed liner, the uppermost perforations, the casing cementing point or the water shut-off holes, whichever is highest. (See CCR for special requirements)

Bridge plugs- A bridge plug above the lowermost zone in a multiple-zone completion my be allowed in lieu of cement through the lowermost zone if such lowermost zone is isolated from the upper zone by cement behind casing.

Fresh water zones- a 100 feet cement plug across the fresh water interface opposite cemented casing; in un-cemented casing, squeeze cementing sufficient cement to fill 200 feet behind casing and plug 100 feet above the perforations; or cavity shot immediately below the fresh water and cemented to 100 feet above the shot.

Surface Plugging

The well and all annuli shall be plugged from 30 feet to 5 feet. All casing shall be cut off 5 feet below the surface or the ground. In urban areas, a steel plate shall be welded on top of all casings.

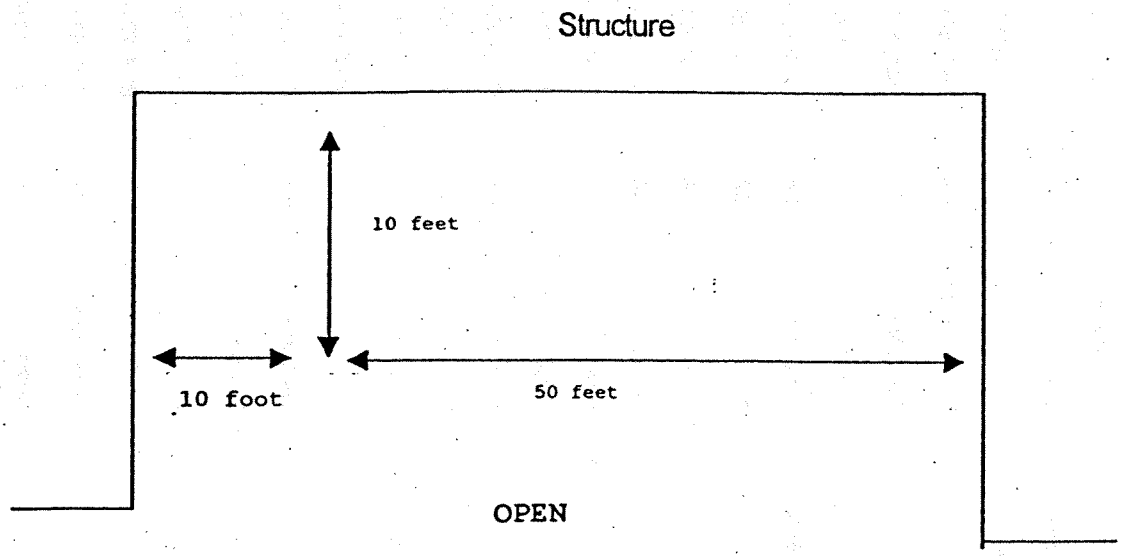
In the event that fill is proposed over the well, then the casing may have to be extended to have the top of the casing 5 feet below ground level.

Cleanup

Return surface to original condition as practical. Property owner with good reason may apply for exceptions. Contact Regional Water Quality Control Board for ground contamination problems. The cleanup must be performed within 60 days after the completion of the work.

NEARBY

Nearby is defined as being within 10 feet from the structure and/or property line, limited to any two adjacent sides of the well, and within 50 feet from the property line and/or structure on the third side of the well. The fourth side of the well shall always have open access.



Well Abandonment Contractors--District 2

Company Name	*Contact*	*Address*	*City*	*State*	*Phone #*	*License Number*
AATR Entertprises	Willie Smith	3249 South La Clenega Blvd	Los Angeles	CA	(213) 752-0055	629460
ACCES	Hamid Assadi	2034 Cotner Avenue 2nd Floor	Los Angeles	CA		557581
Access Drilling	E. Abill	2893 E La Palma Avenue	Anaheim	CA	(714)237-1187	763494
Accurate Excavating Inc	Kevin Hodges	27241 Burbank	Foothill Ranch	CA	(949) 598-7311	654063
Allan Walker Inc	Ed Levin	P O Box 82531	Bakersfield	CA	(661) 391-9152	493118
Allwaste Transportation & Remediation Inc	Jeff Bertoni	P O Box 431	San Ardo	CA	(831) 627-2595	534002
Arbor Services	Jim Staley	9155 Brown Deer Road Suite 1	San Diego	CA	(619) 687-5475	688532
Bud's Equipment Inc	Joe Lowry	P O Box 558	Coalinga	CA	(559) 935-2672	422391
CEDA Mechnical Services	Chris Davis	2756 St Louis Avenue	Signal Hill	CA	(562) 989-3650	722902
Clark Engineering Construction	Don Clark	2235 N Ventura Avenue	Ventura	CA	(805) 643-8119	627891
CMH Environmental Group Inc	Property Valuation	2501 E Chapman Avenue Suite 100	Fullerton	CA	(714) 447-4345	678295
DPH Contracting Services	Daniel Hencey	28101 Langside Avenue	Canyon Country	CA	(805) 298-4540	730421
Ecology Control Industries	Larry Hartzell	19500 Normandie Avenue	Torrance	CA	(310) 320-2555	741611
El Capitan Environmental Services Inc		722 W Wilson Avenue	Glendale	CA	(818) 265-1222	640045
Engineering Remediation Resource Group Inc	Randy Randall	4070 Nelson Avenue Suite B	Concord	CA	(925) 969-0750	743750
Env America Incorporated	Jim Larwood	16 Technology Drive Suite 154	Irvine	CA	(949) 453-9191	648559
EPS Engineering Services	Patrick Mbaba	P O Box 64365	Los Angeles	CA	(310) 826-9733	597765
First Energy Services	Mark Sterbenk	3143 Petrol Road	Bakersfield	CA	(661) 387-9300	756192
Fleet Cementers Inc	Ken Moon	1355 West Kern Street	Taft	CA	(661) 763-1859	727918
Foss Environmental Services	Robert Russell	909 East Harbor Drive	San Diego	CA	(619) 234-3677	716581
Frost Equipment Rentals L.P.	Owen Clark	250 South Hallock Drive	Santa Paula	CA	(805) 933-3334	763960
Gary Drilling Company	Troy Azlin	7001 Charity Avenue	Bakersfield	CA	(800) 443-5925	222619

Company Name	Contact	Address	City	State	Phone #	License Number
GCE Technologies	Sharon Bison	17244 Darwin Suite J	Hesperia	CA	(714) 632-9969	724889
Gradient Engineers Inc	Nick Berzins	17781 Cowan Suite 140	Irvine	CA	(949) 477-0555	734297
Grayson Service Inc	Bob Grayson	4004 South Enos Lane	Bakersfield	CA	(661) 399-6300	287659
Halliburton Energy Services Inc	Kyle Holden	5500 Ming Avenue Suite 365	Bakersfield	CA	(661) 837-2971	256183
Jensen Drilling Co	Nancy Butler	1775 Henderson Avenue	Eugene	OR	(541) 726-7435	340115
KM Scrivner Inc	Jerry Deverick	P O Box 1075	Coalinga	CA	(559) 935-0815	485655
Minco Construction	Refaat Mina	P O Box 1273	Redondo Beach	CA	(310) 376-2929	612429
MMI Services Inc	David Knoeb	6400 Price Way	Bakersfield	CA	(661) 589-9366	684884
Oil Well Service Company	Paul Braden	1241 E Burnett Street	Long Beach	CA	(562) 595-4501	178480
PC Exploration Inc	Parris Baker	1780 Vernon Street Suite 3	Roseville	CA	(916) 783-9733	265556
Pool California Energy Services Inc	Tim Barman	1025 Earthmover Court	Bakersfield	CA	(661) 588-6140	115753
Protec Engineering Services Inc	Kay Akinrele	11288 Ventura Blvd Suite 284	Studio City	CA	(818) 704-6331	716350
QST Environmental	Tom Gibbons	235 East Clark Ave	Orcutt	CA	(805) 938-7952	658022
Randoph Construction	Don Randolph	P O Box 430	Santa Maria	CA	(805) 349-1275	693014
Redi Rental and Leasing	Thurman Rock	841 E. Washington Avenue	Santa Ana	CA	(714) 547-9012	630433
RMR Inc	Mario Perea	P O Box 1715	Santa Maria	CA	(805) 928-4013	535800
SI Nor Inc	Silas Ugorji	1345 Fitzgerald Avenue Suite F	Rialto	CA	(909) 820-4010	717123
Suma Pacific Corp	Rich Steward	P O Box 1251	Grants Pass	OR	(541) 479-1461	461280
Tetra Tech Inc	Dennis Zafuto	3201 Airpark Drive Suite 108	Santa Maria	CA	(805) 739-2600	551555
The Reynolds Group		250 El Camino Real Suite 204	Tustin	CA	(714) 730-5397	659765
Tidelands Oil Production Company	Mark Kapelke	P O Box 1330	Long Beach	CA	(562) 436-9918	681859
Trak Environmental Group Inc	Bradford Newman	4125 Market Street Suite 19	Ventura	CA	(805) 650-5333	709623
Wayne Perry Inc	Richard Kreis	11230 Gold Express Drive, Suite 31	Gold Rive	CA	(916) 635-6719	300345
Western Colima Corporation	David Nowel	1780 E McFadden Avenue Suite 11	Santa Ana	CA	(714) 542-2644	638004
WZI Inc.	Tom Gibbons	235 E. Clark Avenue, Suite C	Orcutt	CA	(805) 937-2040	629898

STATE OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

CARDS
BOND
OGD114
OGD121

Notice of Intention to Abandon Well

File in Duplicate

In compliance with Section 3229, Division 3, Public Resources Code, notice is hereby given that it is our intention to abandon

Well _____ **API No.** _____ **Sec.** _____ **T.** _____ **R.** _____ _____ **B.&M.**

_____ **Field** _____ **County, starting work on** _____

The present condition of the well is

1. Total depth:

2. Complete casing record, with plugs and perforations (present hole):

3. Date last produced or injected:

Additional data for dry hole (show depths)

1. Oil or gas shows:

2. Stratigraphic markers:

3. Formation and age at total depth:

4. Base of freshwater sands:

Is this a critical well according to the definition on the reverse side of this form (or on page 2 if you are using the Internet)?

☐ Yes ☐ No

The proposed work is as follows:

It is understood that if changes in this plan become necessary, we are to notify you immediately.

Address _____ (Street)

_____ (City) (State) (Zip)

Telephone Number _____ (Area Code) (Number)

_____ (Name of Operator)

By _____ (Print Name)

_____ (Signature) (Date)

OG108 (9/00)

CRITICAL WELL

As defined in the California Administrative Code, Title 14, Section 1720 (a), "Critical well" means a well within:

(1) 300 feet of the following:
   (A) Any building intended for human occupancy that is not necessary to the operation of the well; or
   (B) Any airport runway.

(2) 100 feet of the following:
   (A) Any dedicated public street, highway, or nearest rail of an operating railway that is in general use;
   (B) Any navigable body of water or watercourse perennially covered by water;
   (C) Any public recreational facility such as a golf course, amusement park, picnic ground, campground, or any other area of periodic high-density population; or
   (D) Any officially recognized wildlife preserve.

Exceptions or additions to this definition may be established by the supervisor upon his own judgment or upon written request of an operator. This written request shall contain justification for such an exception.

APPENDIX G:

Government Records Report

The EDR Radius Map
with GeoCheck®

Tentative Tract Map No. 53108
Wolcott Way/Henry Mayo Drive
Valencia, CA 91355

Inquiry Number: 1108642.4s

January 08, 2004

Environmental Data Resources, Inc.

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06890

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

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

FEDERAL ASTM STANDARD

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 09/10/2003 has revealed that there are 3 RCRIS-LQG sites within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
T A MANUFACTURING CO	*28065 W FRANKLIN PKWY*	*1/2 - 1 NE*	*10*	*15*
DEL WEST ENGINEERING	*28128 W LIVINGSTON AVE*	*1 - 2 NNE*	*E28*	*31*
PHARMAVITE LLC	*28305 W LIVINGSTON AVE*	*1 - 2 NNE*	*G35*	*36*

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 09/10/2003 has revealed that there are 4 RCRIS-SQG sites within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CHIQUITA CANYON SANITARY LANDF	*29201 HENRY MAYO DRIVE*	*1/2 - 1 W*	*B9*	*15*
R A H INDUSTRIES	*28035 HARRISON PKWY*	*1 - 2 NNE*	*E25*	*29*
TIME AVIATION SERVICES INC	*28402 W LIVINGSTON AVE*	*1 - 2 N*	*F32*	*34*
KIMBALL MICROELECTRONICS	*28575 LIVINGSTON AVE*	*1 - 2 N*	*37*	*39*

STATE ASTM STANDARD

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 8

CHMIRS sites within approximately 2.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
Not reported	27900 CHIQUITO CANYON R	1 - 2 W	13	17
Not reported	*28201 FRANKLIN PARKWAY*	*1 - 2 NE*	*D23*	*25*
Not reported	28201 FRANKLIN PKWY, B	1 - 2 NE	D24	28
Not reported	27353 SAN MARTINEZ GRAN	1 - 2 W	53	53
Not reported	*29300 THE OLD ROAD*	*>2 NE*	*K54*	*54*
Not reported	29300 THE OLD ROAD	>2 NE	K55	59
Not reported	N/B I-5, CASTAIC INSP F	>2 NE	59	67
Not reported	HASELY CYN 1MI NORTH OF	>2 NNE	61	68

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 9 Cortese sites within approximately 2.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LA CO FD FIRE TRAINING CN	28101 CHIQUITO CNYN	1 - 2 W	C19	24
SCHWARTZ OIL CO.	*27241 HENRY MAYO DR*	*1 - 2 NE*	*I44*	*44*
LA CO FD FIRE STA #076	*27223 W HENRY MAYO DR*	*1 - 2 NE*	*I47*	*47*
NEWHALL LAND & FARMING	*27230 HENRY MAYO RD*	*1 - 2 ENE*	*J52*	*51*
DIXIE DIESEL STATION	*29471 THE OLD ROAD*	*>2 NE*	*56*	*60*
NEWHALL LAND & FARMING CO	*28760 N CASTAIC CANYON*	*>2 ENE*	*L57*	*62*
TRI-R-TRUCKING	*28748 CASTAIC CANYON RD*	*>2 ENE*	*L58*	*65*
CHEVRON STATION 9 1899	*28805 THE OLD RD*	*>2 ENE*	*60*	*68*

Lower Elevation	Address	Dist / Dir	Map ID	Page
NEWHALL LAND & FARMING	*3003 WALNUT ORCHARD RD*	*1 - 2 WSW*	*14*	*18*

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 are 2 SWF/LF sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CHIQUITA CANYON LANDFILL INC	*29201 HENRY MAYO DRIVE*	*1/2 - 1 W*	*B4*	*7*
CHIQUITA CANYON LANDFILL	*29201 HENRY MAYO DR*	*1/2 - 1 W*	*B6*	*10*

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, has revealed that there are 2 WMUDS/SWAT sites

EXECUTIVE SUMMARY

WDS: California Water Resources Control Board - Waste Discharge System.

A review of the CA WDS list, as provided by EDR, and dated 09/22/2003 has revealed that there is 1 CA WDS site within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CHIQUITA CANYON LANDFILL	***29201 HENRY MAYO DR***	***1/2 - 1 W***	***B6***	***10***

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 12/31/2001 has revealed that there are 3 EMI sites within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CHIQUITA CANYON LANDFILL	***29201 HENRY MAYO DR***	***1/2 - 1 W***	***B6***	***10***
US POSTAL SERVICE, SANTA CLARI	28201 FRANKLIN PKY	1 - 2 NE	D21	25
SCHWARTZ OIL CO	***27241 HENRY MAYO DR***	***1 - 2 NE***	***I43***	***43***

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 2 CA SLIC sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
UNOCAL - LINCOLN LEASE	28101 CHIQUITO CYN	1 - 2 W	C18	24
PROPOSED SCHOOL BUS STOP	28300 LIVINGSTON	1 - 2 NNE	G34	36

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 19 HAZNET sites within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CHIQUITA CANYON LANDFILL INC	***29201 HENRY MAYO DRIVE***	***1/2 - 1 W***	***B4***	***7***
CHIQUITA CANYON LANDFILL	***29201 HENRY MAYO DR***	***1/2 - 1 W***	***B6***	***10***
T A MANUFACTURING CO	***28065 W FRANKLIN PKWY***	***1/2 - 1 NE***	***10***	***15***
BLOOMERS METAL STAMPINGS INC	28615 BRAXTON AVE	1 - 2 NE	12	17
LA CTY FIRE DEPT/DELVAL TRG CT	28101 CHIQUITO CANYON R	1 - 2 W	C16	21
Not reported	***28201 FRANKLIN PARKWAY***	***1 - 2 NE***	***D23***	***25***
R A H INDUSTRIES	***28035 HARRISON PKWY***	***1 - 2 NNE***	***E25***	***29***
EMCO	28045 W HARRISON PKWY	1 - 2 NNE	E26	30
JERRY AVALOS TRUCKING	28459 CHIQUITO CANYON R	1 - 2 WNW	27	30
DEL WEST ENGINEERING	***28128 W LIVINGSTON AVE***	***1 - 2 NNE***	***E28***	***31***
20TH CENTURY FOX,PAPI CHULO	28455 LIVINGSTON AVE	1 - 2 N	30	32
REGENT AEROSPACE INC	28110 HARRISON PKWY	1 - 2 NNE	E31	33
TIME AVIATION SERVICES	28402 W LIVINGSTON AVE	1 - 2 N	F33	34
PHARMAVITE LLC	***28305 W LIVINGSTON AVE***	***1 - 2 NNE***	***G35***	***36***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
PHARMAVITE LLC	***28310 W LIVINGSTON AVE***	***1 - 2 NNE***	***G36***	***37***
KIMBALL MICROELECTRONICS	***28575 LIVINGSTON AVE***	***1 - 2 N***	***37***	***39***
WALT DISNEY PICTURES & TELEVIS	28150 W HARRISON PARKWA	1 - 2 NNE	38	40
THE VALENCIA TRAVEL VILLAGE	27946 HENRY MAYO ROAD,	1 - 2 NE	H41	42
SCHWARTZ OIL CO	***27241 HENRY MAYO DR***	***1 - 2 NE***	***I43***	***43***

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 8 LOS ANGELES CO. HMS sites within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CHIQUITA CANYON LANDFILL	29201 W HENRY MAYO DR	1/4 - 1/2 WNW	A1	6
LAIDLAW WASTE SYSTEMS INC	29201 W HENRY MAYO DR	1/4 - 1/2 WNW	A2	6
L A COUNTY FIRE DEPT	***28101 N CHIQUITO CANYON***	***1 - 2 W***	***C17***	***22***
DEL WEST ENGINEERING	28128 W LIVINGSTON AVE	1 - 2 NNE	E29	32
PHARMAVITE LLC	***28310 W LIVINGSTON AVE***	***1 - 2 NNE***	***G36***	***37***
FIESTA RESORTS	27946 W HENRY MAYO DR	1 - 2 ENE	H39	41
VALENCIA TRAVEL VILLAGE	27946 W HENRY MAYO DR	1 - 2 ENE	H40	41
LA CO FD FIRE STA #076	***27223 W HENRY MAYO DR***	***1 - 2 NE***	***I47***	***47***

Site Mitigation Complaint Control Log: The Los Angeles County Site Mitigation Log comes from Community Health Services.

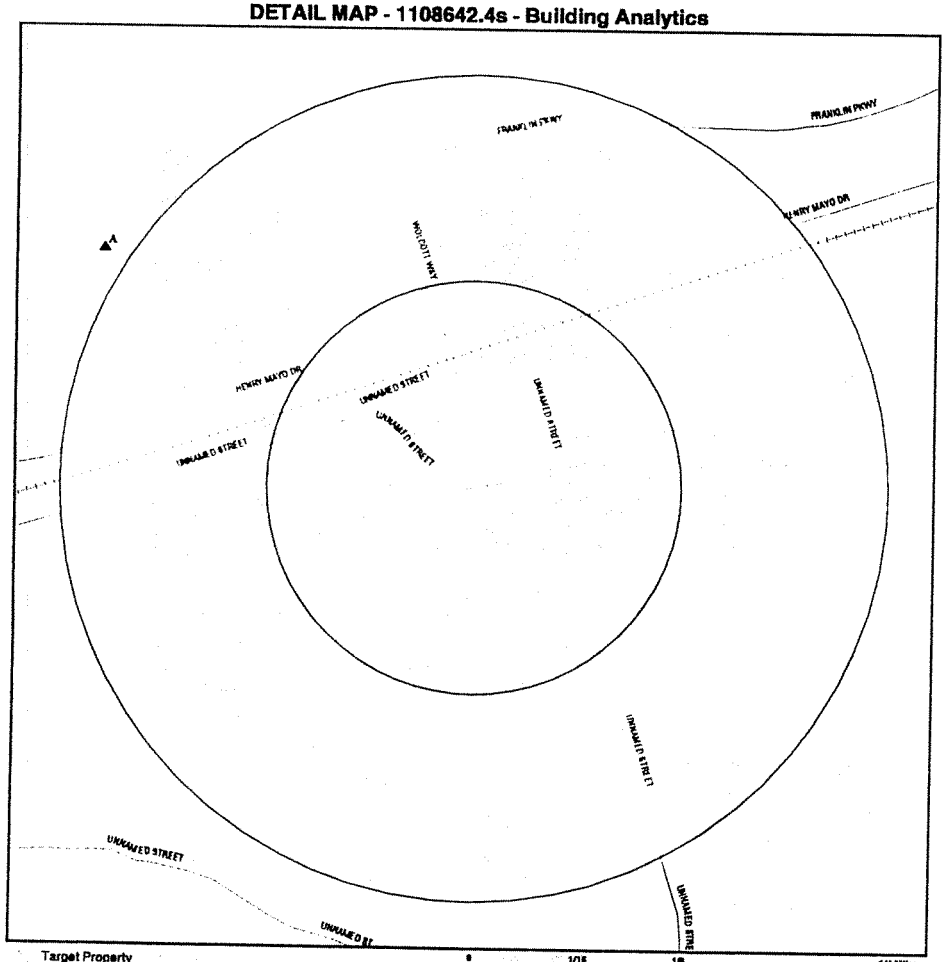
A review of the LA Co. Site Mitigation list, as provided by EDR, has revealed that there is 1 LA Co. Site Mitigation site within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
DEL VALLE TRAINING CENTER	28101 CHIQUITO CANYON R	1 - 2 W	C15	21

EDR PROPRIETARY HISTORICAL DATABASES

See the EDR Proprietary Historical Database Section for details

DETAIL MAP - 1108642.4s - Building Analytics



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites
- Historical Gas Stations / Historical Dry Cleaners See the EDR Proprietary Historical Map Findings
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- County Boundary
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

TARGET PROPERTY:	Tentative Tract Map No. 53108	CUSTOMER:	Building Analytics
ADDRESS:	Wolcott Way/Henry Mayo Drive	CONTACT:	Joe Montoya
CITY/STATE/ZIP:	Valencia CA 91355	INQUIRY #:	1108642.4s
LAT/LONG:	34.4243 / 118.6373	DATE:	January 08, 2004 12:47 pm

MAP FINDINGS SUMMARY

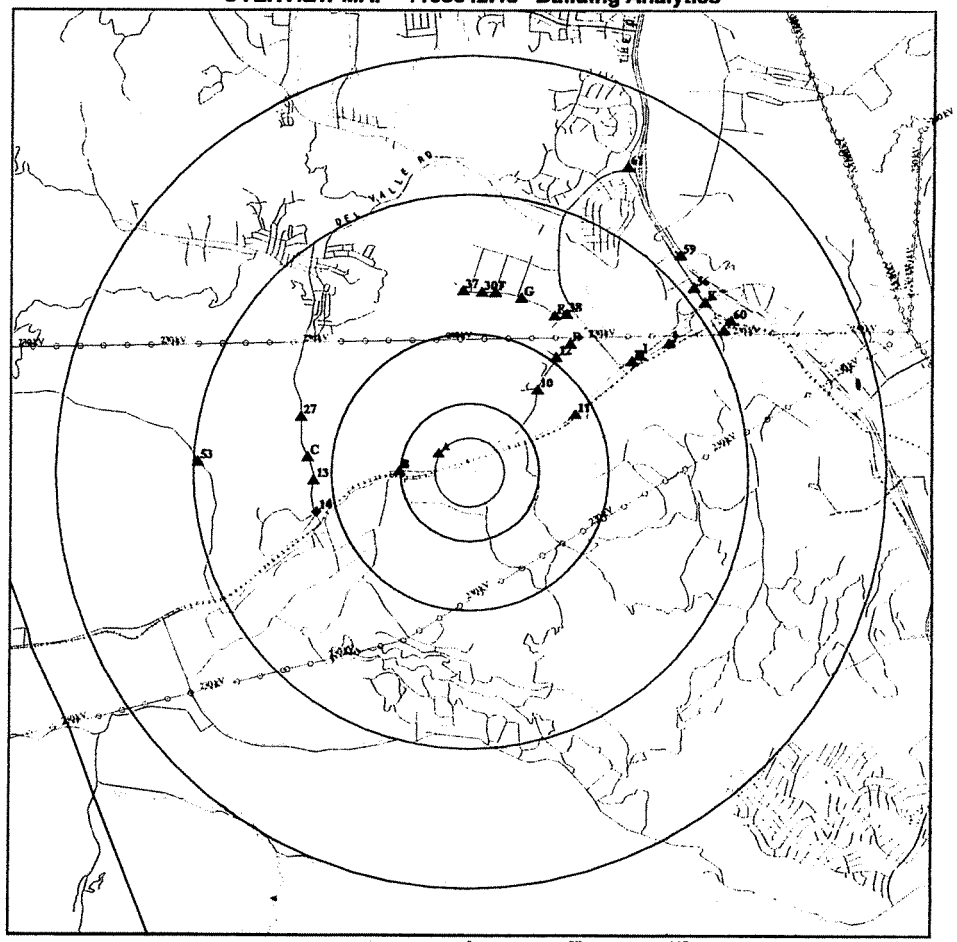
Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL ASTM STANDARD								
NPL		2.500	0	0	0	0	0	0
Proposed NPL		2.500	0	0	0	0	0	0
CERCLIS		2.000	0	0	0	0	0	0
CERC-NFRAP		1.750	0	0	0	0	0	0
CORRACTS		2.500	0	0	0	0	0	0
RCRIS-TSD		2.000	0	0	0	0	0	0
RCRIS Lg. Quan. Gen.		1.750	0	0	0	1	2	3
RCRIS Sm. Quan. Gen.		1.750	0	0	0	1	3	4
ERNS		1.500	0	0	0	0	0	0
STATE ASTM STANDARD								
AWP		2.500	0	0	0	0	0	0
Cal-Sites		2.500	0	0	0	0	0	0
CHMIRS		2.500	0	0	0	0	8	8
Cortese		2.500	0	0	0	0	9	9
Notify 65		2.500	0	0	0	0	0	0
Toxic Pits		2.500	0	0	0	0	0	0
State Landfill		2.000	0	0	0	2	0	2
WMUDS/SWAT		2.000	0	0	1	1	0	2
LUST		2.000	0	0	0	0	5	5
CA Bond Exp. Plan		2.500	0	0	0	0	0	0
UST		1.750	0	0	0	1	2	3
VCP		2.000	0	0	0	0	0	0
INDIAN UST		1.750	0	0	0	0	0	0
CA FID UST		1.750	0	0	0	1	3	4
HIST UST		1.750	0	0	0	1	3	4
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		2.500	0	0	0	0	0	0
ROD		2.500	0	0	0	0	0	0
Delisted NPL		2.500	0	0	0	0	0	0
FINDS		1.500	0	0	0	2	6	8
HMIRS		1.500	0	0	0	0	0	0
MLTS		1.500	0	0	0	0	0	0
MINES		1.750	0	0	0	0	0	0
NPL Liens		1.500	0	0	0	0	0	0
PADS		1.500	0	0	0	0	0	0
DOD		2.500	0	0	0	0	0	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
RAATS		1.500	0	0	0	0	0	0
TRIS		1.500	0	0	0	0	0	0
TSCA		1.500	0	0	0	0	0	0
SSTS		1.500	0	0	0	0	0	0
FTTS		1.500	0	0	0	0	0	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
AST		1.500	0	0	0	0	2	2

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, RCRIS-TSD, FINDS, CORRACTS, CERC-NFRAP, LOS ANGELES CO. HMS
BERTH 70, LONG BEACH HARBOUR	CHMIRS, HAZNET
BERTH 30 LONG BEACH HARBOUR	CHMIRS, HAZNET
FLORENCE AVE / TELEGRAPH RD WHITTIER	CHMIRS, LUST
CSI CRIME SCENE INVESTIGATION	HAZNET
CALIFORNIA INSTITUTE OF THE ARTS	HAZNET
PRODUCTION GOODBYE LOVER	HAZNET
LOS ANGELES COUNTY FIRE DEPT	HAZNET
TECHNICAL TROUBLE SHOOTING	HAZNET
HOWARD CUSTOM BOATS INCORPORATED	FINDS, EMI, HAZNET
DEPARTMENT OF TRANSPORTATION	RCRIS-SQG, FINDS
TWO WATER WELLS RESTORATION	CA WDS
COMMERCE CENTER BRIDGE	CA WDS
CASTAIC CREEK CHANNEL LINING	CA WDS
HWY. 126 BRIDGE	CA WDS
GOLDEN VALLEY ROAD EXTENSION	CA WDS
WATER WELL NO. W-11	CA WDS
GRUBER SYSTEMS, INC	REF
SCHOOL ON 18 ACRE SITE	SCH

OVERVIEW MAP - 1108642.4s - Building Analytics



TARGET PROPERTY:	Tentative Tract Map No. 53108	CUSTOMER:	Building Analytics
ADDRESS:	Wolcott Way/Henry Mayo Drive	CONTACT:	Joe Montoya
CITY/STATE/ZIP:	Valencia CA 91355	INQUIRY #:	1108642.4s
LAT/LONG:	34.4243 / 118.6373	DATE:	January 08, 2004 12:46 pm

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
CLEANERS		1.750	0	0	0	0	0	0
CA WDS		1.500	0	0	0	1	0	1
DEED		1.500	0	0	0	0	0	0
SCH		1.750	0	0	0	0	0	0
NFA		1.750	0	0	0	0	0	0
EMI		1.500	0	0	0	1	2	3
REF		1.750	0	0	0	0	0	0
NFE		1.750	0	0	0	0	0	0
CA SLIC		2.000	0	0	0	0	2	2
HAZNET		1.750	0	0	0	3	16	19
Los Angeles Co. HMS		1.500	0	0	2	0	6	8
LA Co. Site Mitigation		1.500	0	0	0	0	1	1
AOCONCERN		2.500	0	0	0	0	0	0
EDR PROPRIETARY HISTORICAL DATABASES								
Gas Stations/Dry Cleaners		0.250	0	0	NR	NR	NR	0
Coal Gas		2.500	0	0	0	0	0	0
BROWNFIELDS DATABASES								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
VCP		2.000	0	0	0	0	0	0

NOTES:

See the EDR Proprietary Historical Database Section for details

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.) / Elevation — Site — Database(s) — EDR ID Number / EPA ID Number

A1
WNW
1/4-1/2
1402 ft.

CHIQUITA CANYON LANDFILL — LOS ANGELES CO. HMS — 1001865073 / N/A
29201 W HENRY MAYO DR
UNINCORPORATED, CA

Site 1 of 3 in cluster A

Relative: Higher

Actual: 1034 ft.

HMS:

Facility Id:	005897-I06111		
Area:	7		
Facility Type:	I08		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Permit		
Region:	Los Angeles County:		
Facility Id:	005897-037921		
Area:	7		
Facility Type:	I09		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		
Facility Id:	005897-037920		
Area:	7		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

A2
WNW
1/4-1/2
1402 ft.

LAIDLAW WASTE SYSTEMS INC — LOS ANGELES CO. HMS — S102064584 / N/A
29201 W HENRY MAYO DR
UNINCORPORATED, CA

Site 2 of 3 in cluster A

Relative: Higher

Actual: 1034 ft.

HMS:

Facility Id:	005897-006111		
Area:	7		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Permit		
Region:	Los Angeles County:		

A3
WNW
1/4-1/2
1402 ft.

UNIVERSAL BY-PRODUCTS-VALENCIA — WMUDS/SWAT — S103441396 / N/A
29201 SAUGUS-VENTURA ROAD
VALENCIA, CA

Site 3 of 3 in cluster A

Relative: Higher

Actual: 1034 ft.

WMUDS:

Region:	4
Date of Last Facility Edit:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System ID:	4 190133NUR
Solid Waste Information ID:	Not reported
Waste Discharge System:	False
Solid Waste Assessment Test Program:	True
Facility Name:	Not reported
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act Program:	False
Department of Defense:	False

UNIVERSAL BY-PRODUCTS-VALENCIA (Continued) S103441396

Open to Public:	False
Number of WMUDS at Facility:	1
Facility Telephone:	Not reported
Primary Standard Industrial Classification:	Not reported
Secondary Standard Industrial Classification:	Not reported
Solid Waste Assessment Test Program Name:	UNIVERSAL BY-PRODUCTS
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Sub Chapter 15:	False
Reg. Board Project Officer:	LT
Section Range:	Not reported
RCRA Facility:	Not reported
Waste Discharge Requirements:	Not reported
Base Meridian:	Not reported
Waste List:	False
Facility Description:	Not reported
Self-Monitoring Rept. Frequency:	Not reported

Threat to Water Quality:Not reported

Agency:	UNIVERSAL BY-PRODUCTS
Address:	Not reported
Department:	Not reported
Contact:	Not reported
Telephone:	Not reported
Landowner:	Not reported
Address:	CA
Telephone:	Not reported
Contact:	Not reported

B4
West
1/2-1
2690 ft.

Relative:
Higher

Actual:
974 ft.

CHIQUITA CANYON LANDFILL INC HAZNET S100932492
29201 HENRY MAYO DRIVE SWF/LF N/A
VALENCIA, CA 91355

Site 1 of 6 in cluster B

LF:

Facility ID:	19-AA-0052
Operator:	Republic Services Of California I, L.L.C
Operator Phone:	(661) 257-3655
Operator Addr:	29201 Henry Mayo Drive Valencia, CA 91355
Owner:	Republic Services Of California I, L.L.C
Owner Address:	Not reported 29201 Henry Mayo Drive Valencia, CA 91355
Owner Telephone:	(661) 257-3655
Activity:	Solid Waste Landfill
Operator's Status:	Active
Regulation Status:	Permitted
Region:	STATE
Lat/Long:	34 / -119
Permit Date:	Not reported
Accepted Waste:	Construction/demolition,Green Materials,Industrial,Inert,Mixed municipal
Restrictions:	
Status :	Not reported
Swisnumber :	Not reported
Site Type :	Not reported

CHIQUITA CANYON LANDFILL INC (Continued) S100932492

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:	6000
Permitted Throughput with Units:	6000
Permitted Throughput with Units:	6000
Actual Throughput with Units:	Tons/day
Actual Capacity with Units:	45889550
Permitted Capacity with Units:	45889550
Remaining Capacity with Units:	Cubic Yards
Permitted Total Acreage:	592
Inspection Frequency:	Monthly
Landuse Name:	Residential,Recreational,Industrial,Agricultural
GIS Source:	Map
Permit Status:	Permitted
Category:	Disposal
Unit Number:	01
Last Waste Tire Inspection Count :	Not reported
Last Waste Tire Inspection Date:	Not reported
Original Waste Tire Count:	Not reported
Original Waste Tire Count Date:	Not reported
Closure Date:	11/24/2019
Closure Type:	Estimated
Disposal Acreage:	257
Remaining Capacity:	26024360

HAZNET:

Gepaid:	CAL000035857
TSD EPA ID:	AZD049318009
Gen County:	Los Angeles
Tsd County:	99
Tons:	.4250
Waste Category:	Laboratory waste chemicals
Disposal Method:	Transfer Station
Contact:	CHIQUITA CANYON LANDFILL INC
Telephone:	(805) 257-3655
Mailing Address:	29201 HENRY MAYO DR VALENCIA, CA 91355
County	Los Angeles

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	CHIQUITA CANYON LANDFILL INC (Continued)		S100932492

Gepaid: CAL000035857
TSD EPA ID: AZD049318009
Gen County: Los Angeles
Tsd County: 99
Tons: .5000
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Contact: CHIQUITA CANYON LANDFILL INC
Telephone: (805) 257-3655
Mailing Address: 29201 HENRY MAYO DR
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000035857
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2400
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Contact: CHIQUITA CANYON LANDFILL INC
Telephone: (805) 257-3655
Mailing Address: 29201 HENRY MAYO DR
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000035857
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1542
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: CHIQUITA CANYON LANDFILL INC
Telephone: (805) 257-3655
Mailing Address: 29201 HENRY MAYO DR
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000035857
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.0850
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: CHIQUITA CANYON LANDFILL INC
Telephone: (805) 257-3655
Mailing Address: 29201 HENRY MAYO DR
VALENCIA, CA 91355
County Los Angeles

The CA HAZNET database contains 16 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	CHIQUITA CANYON LANDFILL INC (Continued)		S100932492

B5 **LAIDLAW WASTE SYSTEMS INC** CA FID UST S101586012
West **29201 HENRY MAYO DR** N/A
1/2-1 **VALENCIA, CA 91355**
2690 ft.

Site 2 of 6 in cluster B

Relative: Higher

Actual: 974 ft.

FID:

Facility ID:	19036223	Regulate ID:	Not reported
Reg By:	Active Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Active	Facility Tel:	(805) 257-3655
Mail To:	Not reported 29201 HENRY MAYO DR 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		

B6 **CHIQUITA CANYON LANDFILL** CA WDS 1002687338
West **29201 HENRY MAYO DR** EMI N/A
1/2-1 **VALENCIA, CA 91310** HAZNET
2690 ft. SWF/LF

Site 3 of 6 in cluster B

Relative: Higher

Actual: 974 ft.

LF:

Facility ID:	Not reported		
Operator:	Not reported		
Operator Phone:	Not reported		
Operator Addr:			
Owner:	Not reported		
Owner Address:	Not reported		
		Not reported	
Owner Telephone:	Not reported		
Activity:	Not reported		
Operator's Status:	Not reported		
Regulation Status:	Not reported		
Region:	LOS ANGELES		
Lat/Long:	Not reported		
Permit Date:	Not reported		
Accepted Waste:			
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	

CHIQUITA CANYON LANDFILL (Continued) **1002687338**

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:	Not reported
Permitted Throughput with Units:	Not reported
Permitted Throughput with Units:	Not reported
Actual Throughput with Units:	Not reported
Actual Capacity with Units:	Not reported
Permitted Capacity with Units:	Not reported
Remaining Capacity with Units:	Not reported
Permitted Total Acreage:	Not reported
Inspection Frequency:	Not reported
Landuse Name:	Not reported
GIS Source:	Not reported
Permit Status:	Not reported
Category:	Not reported
Unit Number:	Not reported
Last Waste Tire Inspection Count :	Not reported
Last Waste Tire Inspection Date:	Not reported
Original Waste Tire Count:	Not reported
Original Waste Tire Count Date:	Not reported
Closure Date:	/ /
Closure Type:	Not reported
Disposal Acreage:	Not reported
Remaining Capacity:	Not reported

HAZNET:

Gepaid:	CAL000196316
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.00
Waste Category:	Off-specification, aged, or surplus organics
Disposal Method:	Transfer Station
Contact:	MATT TERRELL
Telephone:	(661) 257-3655
Mailing Address:	29201 HENRY MAYO DR VALENCIA, CA 91355
County	Not reported

Gepaid:	CAL000196316
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.14
Waste Category:	Off-specification, aged, or surplus organics
Disposal Method:	Recycler
Contact:	MATT TERRELL
Telephone:	(661) 257-3655
Mailing Address:	29201 HENRY MAYO DR VALENCIA, CA 91355
County	Not reported

CHIQUITA CANYON LANDFILL (Continued) **1002687338**

Gepaid:	CAL000196316
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.66
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	MATT TERRELL
Telephone:	(661) 257-3655
Mailing Address:	29201 HENRY MAYO DR VALENCIA, CA 91355
County	Not reported

Gepaid:	CAL000196316
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.0166
Waste Category:	Off-specification, aged, or surplus organics
Disposal Method:	Recycler
Contact:	REPUBLIC SERVICES OF CA I LLC
Telephone:	(661) 257-3655
Mailing Address:	29201 HENRY MAYO DR VALENCIA, CA 91355
County	Los Angeles

Gepaid:	CAL000196316
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:	REPUBLIC SERVICES OF CA I LLC
Telephone:	(661) 257-3655
Mailing Address:	29201 HENRY MAYO DR VALENCIA, CA 91355
County	Los Angeles

The CA HAZNET database contains 8 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

WDS:

Facility ID:	0		
Facility Contact	Mike Dean (General manager)	Facility Telephone	(661) 257-3655
SIC Code:	4953	SIC Code 2:	Not reported
Agency Name:	A REPUBLIC WASTE SERVICES CO.		
Agency Address:	0		
Agency Contact:	Not reported	Agency Phone:	Not reported
Design Flow:	0 Million Gal/Day	Baseline Flow:	0 Million Gal/Day
Facility Type:	Solid Waste Site-Class III - Landfills for non hazardous solid wastes.		
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.		
Agency Type:	Private		
Waste Type:	Solid Wastes - Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).		

CHIQUITA CANYON LANDFILL (Continued) 1002687338

Threat to Water: Not reported
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 facility is not a POTW.
NPDES Number: Not reported
Subregion: 4

EMISSIONS :

Facility ID :	61029
Air District Code :	SC
SIC Code :	4959
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
Total Organic Hydrocarbon Gases :	2
Reactive Organic Gases :	1
Carbon Monoxide Emissions :	6
NOX Gas Emissions (Nitrogen - Oxygen) :	5
SOX Gas Emissions (Sulphur - Oxygen) :	3

Facility ID :	61029
Air District Code :	SC
SIC Code :	4959
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
Total Organic Hydrocarbon Gases :	Not reported
Reactive Organic Gases :	Not reported
Carbon Monoxide Emissions :	Not reported
NOX Gas Emissions (Nitrogen - Oxygen) :	Not reported
SOX Gas Emissions (Sulphur - Oxygen) :	Not reported

B7
West
1/2-1
2690 ft.

Relative:
Higher

Actual:
974 ft.

CHIQUITA CANYON LANDFILL WMUDS/SWAT 1001526767
29201 HENRY MAYO DR N/A
VALENCIA CA, CA 91310

Site 4 of 6 in cluster B

WMUDS:

Region:	4
Date of Last Facility Edit:	11/22/1996
Last Facility Editors:	JHM, JHM, JHM
Waste Discharge System ID:	4A190359001
Solid Waste Information ID:	19-AA-0052
Waste Discharge System:	True
Solid Waste Assessment Test Program:	True

CHIQUITA CANYON LANDFILL (Continued) 1001526767

Facility Name:	LAIDLAW WASTE SYSTEMS CHIQUITA, INC.
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act Program:	False
Department of Defense:	False
Open to Public:	False
Number of WMUDS at Facility:	5
Facility Telephone:	(805) 257-3655
Primary Standard Industrial Classification:	4953
Secondary Standard Industrial Classification:	Not reported
Solid Waste Assessment Test Program Name:	LAIDLAW WASTE SYSTEMS CHIQUITA, INC
NPID:	Not reported
Tonnage:	5000
Regional Board ID:	67-20
Municipal Solid Waste:	True
Superorder:	True
Sub Chapter 15:	True
Reg. Board Project Officer:	Not reported
Section Range:	04N17W14
RCRA Facility:	No
Waste Discharge Requirements:	A
Base Meridian:	SB
Waste List:	True
Facility Description:	Not reported
Self-Monitoring Rept. Frequency:	Quarterly Submittal

Threat to Water Quality: 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.
Facility Type: Solid Waste Site-Class III - Landfills for non hazardous solid wastes.
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.
Prime Waste: Solid Wastes - Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Agency: USA WASTE
Address: 29201 HENRY MAYO DRIVE
VALENCIA CA 91310
Department: REGIONAL ENGINEER
Contact: RYAN WURGLER
Telephone: (805) 257-3655
Type: Private
Landowner: NEWHALL LAND & FARMING
Address: 27050 HENRY MAYO DR.
CASTAIC, CA 91310
Telephone: (805) 255-4000
Contact: Not reported
Comments: REGIONAL BOARD SAYS 3500 TONS PER DAY...

CHIQUITA CANYON LANDFILL (Continued) — **1001526767**

B8 **LAIDLAW WASTE SYSTEMS INC** — **UST** — **U003776127**
West **29201 HENRY MAYO DR** — **N/A**
1/2-1 **CASTAIC, CA 91384**
2690 ft.

Site 5 of 6 in cluster B

Relative: **Higher**

Actual: **974 ft.**

State UST:
Facility ID: 6111
Region: STATE
Local Agency: 19000

B9 **CHIQUITA CANYON SANITARY LANDFILL** — **RCRIS-SQG** — **1000820545**
West **29201 HENRY MAYO DRIVE** — **FINDS** — **CAD983666041**
1/2-1 **CASTAIC, CA 91384**
2690 ft.

Site 6 of 6 in cluster B

Relative: **Higher**

Actual: **974 ft.**

RCRIS:
Owner: LAIDLAW WASTE SYSTEMS INC
(805) 257-3655
EPA ID: CAD983666041
Contact: SONNY STAATS
(805) 257-3655
Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
AIRS/AIRS Facility Subystem (AIRS/AFS)
National Emissions Inventory (NEI)
National Emissions Trends (NET)
National Toxics Inventory (NTI)
Resource Conservation and Recovery Act Information system (RCRAINFO)
Solid Waste Inventory System (California sub-system of landfills) (SWIS)

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10 **T A MANUFACTURING CO** — **RCRIS-LQG** — **1001231332**
NE **28065 W FRANKLIN PKWY** — **FINDS** — **CAR000039230**
1/2-1 **VALENCIA, CA 91355** — **HAZNET**
4090 ft.

Relative: **Higher**

Actual: **983 ft.**

RCRIS:
Owner: T A MANUFACTURING CO
(805) 775-1100
EPA ID: CAR000039230
Contact: DAVID SCHMIDT
(805) 775-1100
Classification: Large Quantity Generator
TSDF Activities: Not reported

T A MANUFACTURING CO (Continued) — **1001231332**

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAR000039230
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 0.00
Waste Category: Other inorganic solid waste
Disposal Method: Treatment, Incineration
Contact: ERIC BENFORD
Telephone: (661) 775-1100
Mailing Address: 28065 W FRANKLIN PKWY
VALENCIA, CA 91355
County Not reported

Gepaid: CAR000039230
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 0.10
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Disposal, Land Fill
Contact: ERIC BENFORD
Telephone: (661) 775-1100
Mailing Address: 28065 W FRANKLIN PKWY
VALENCIA, CA 91355
County Not reported

Gepaid: CAR000039230
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 0.04
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Recycler
Contact: ERIC BENFORD
Telephone: (661) 775-1100
Mailing Address: 28065 W FRANKLIN PKWY
VALENCIA, CA 91355
County Not reported

Gepaid: CAR000039230
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 3.62
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: ERIC BENFORD
Telephone: (661) 775-1100
Mailing Address: 28065 W FRANKLIN PKWY
VALENCIA, CA 91355
County Not reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	T A MANUFACTURING CO (Continued)		**1001231332**
	Gepaid: CAR000039230 TSD EPA ID: Not reported Gen County: Los Angeles Tsd County: Los Angeles Tons: 0.40 Waste Category: Unspecified organic liquid mixture Disposal Method: Recycler Contact: ERIC BENFORD Telephone: (661) 775-1100 Mailing Address: 28065 W FRANKLIN PKWY VALENCIA, CA 91355 County Not reported The CA HAZNET database contains 55 additional records for this site. Please click here or contact your EDR Account Executive for more information.		
11 **ENE** **1/2-1** **4583 ft.** **Relative:** **Higher** **Actual:** **984 ft.**	**TRAVEL VILLAGE** **27946 HENRY MAYO DR** **CASTAIC, CA 91355** UST HIST: Facility ID: 41379 — Facility Status: Not reported Total Tanks: 1 — Region: STATE Owner Name: NEWHALL INVESTMENT PROPERTIES — Box Number: Not reported Owner Address: 23823 VALENCIA BOULEVARD VALENCIA, CA 91355	**HIST UST**	**U001567876** **N/A**
12 **NE** **> 1** **5500 ft.** **Relative:** **Higher** **Actual:** **1020 ft.**	**BLOOMERS METAL STAMPINGS INC** **28615 BRAXTON AVE** **VALENCIA, CA 91355** HAZNET: Gepaid: CAL000214634 TSD EPA ID: Not reported Gen County: Los Angeles Tsd County: Kings Tons: 4.21 Waste Category: Other inorganic solid waste Disposal Method: Disposal, Land Fill Contact: PERRY BLOOMER / VICE PRESIDENT Telephone: (661) 257-2955 Mailing Address: 28615 BRAXTON AVE VALENCIA, CA 91355 County Not reported	**HAZNET**	**S105724739** **N/A**
13 **West** **> 1** **5954 ft.** **Relative:** **Higher** **Actual:** **962 ft.**	**27900 CHIQUITO CANYON ROAD** **UNINC, CA** CHMIRS: OES Control Number: 8904996 Chemical Name: Not reported Extent of Release: Not reported Property Use: Petroleum Refinery	**CHMIRS**	**S100216887** **N/A**

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	(Continued)		**S100216887**
	Incident Date: 23-FEB-89 Date Completed: 23-FEB-89 Time Completed : 2035 Agency Id Number : 19110 Agency Incident Number : 52 OES Incident Number : 8904996 Time Notified : 1915 Surrounding Area : 946 Estimated Temperature : Not reported 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 : 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 W. EVERETT Report Date : 26-FEB-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		
14 **WSW** **> 1** **6031 ft.** **Relative:** **Lower** **Actual:** **949 ft.**	**NEWHALL LAND & FARMING** **3003 WALNUT ORCHARD RD** **VALENCIA, CA 91350** State LUST: Cross Street: HENRY MAYO DRIVE Qty Leaked: Not reported Case Number I-14101 Reg Board: 4 Chemical: Gasoline Lead Agency: Regional Board	**Cortese** **LUST**	**S102434348** **N/A**

NEWHALL LAND & FARMING (Continued) S102434348

Local Agency : 19000
Case Type: Soil only
Status: Case Closed
Review Date: Not reported
Workplan: 3/9/90
Pollution Char: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: 06/27/1996
Release Date: 03/09/1990
Cleanup Fund Id : Not reported
Discover Date : 01/25/1989
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 03/05/1990
Funding: Federal Funds
Staff Initials: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Interim : Not reported
Leak Cause: UNK
Leak Source: UNK
MTBE Date : / /
Max MTBE GW : 0 Parts per Billion
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Priority: Not reported
Local Case # : Not reported
Beneficial: Not reported
Staff : JLC
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: Not reported
Operator : JONES, ROGER ALSO SEE I-14100
Oversight Prgm: RB Lead Underground Storage Tank
Oversight Prgm : UST
Review Date : 07/22/1998
Stop Date : 01/25/1989
Work Suspended : Not reported
Responsible Party: NEWHALL LAND AND FARM
RP Address: 23823 VALENCIA BLVD., VAKENCIA, 91355 C
Global Id: T0603704137
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 1
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: 3/9/90
Remed Plan: Not reported

LUST Region 4:
Report Date: 3/9/1990
Lead Agency: Regional Board
Local Agency: 19000
Case Number: I-14101
Substance: Gasoline

NEWHALL LAND & FARMING (Continued) S102434348

Case Type: Soil
Status: Case Closed
Region: 4
Staff: Not reported
Source of Cleanup Funding: Federal Funds
Date the Leak was Discovered: 1/25/1989
How the Leak was Discovered: Tank Closure
How the Leak was Stopped: Close Tank
Cause of Leak: Unknown
Leak Source: Unknown
Date The Leak was Stopped: 1/25/1989
Date Confirmation Leak Began: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 3/9/1990
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: 6/27/1996
Date Case Last Changed on Database: 7/22/1998
Enforcement Action Date: Not reported
Date Leak First Reported: 3/9/1990
Enforcement Type: Not reported
Global ID : T0603704137
Organization : Not reported
Historical Max MTBE Data: 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
Regional Board: 04
Owner Contact: Not reported
Responsible Party: NEWHALL LAND AND FARM
RP Address: 23823 VALENCIA BLVD., VAKENCIA, 91355 C
Significant Interim Remedial Action Taken: Not reported
Program : UST
Lat / Long : 34.4200613 / -118.6567124
MTBE Counts : 0
MTBE Fuel : 1
MTBE Tested : NT
Local Agency Staff: UNK
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 : Not reported
Substance Quantity : Not reported
Abatement Method Used at the Site: Not reported
Operator : JONES, ROGER ALSO SEE I-14100
Water System : WALNUT HILL
Well Name : WELL C-6
Approx. Dist To Production Well (ft) : 8339.414175864259907788982 95
W Global ID : W0603709014
Assigned Name : 04N/17W-14Q07 S

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	NEWHALL LAND & FARMING (Continued)		**S102434348**
	MTBE Class : Not reported		
	CORTESE:		
	Region: CORTESE		
	Fac Address 2: 3003 WALNUT ORCHARD RD		
C15 / **West** / **> 1** / **6207 ft.** / **Relative: Higher** / **Actual: 994 ft.**	**DEL VALLE TRAINING CENTER** **28101 CHIQUITO CANYON RD** **SCV, CA 91350**	**LA Co. Site Mitigation**	**S103697023** **N/A**
	Site 1 of 6 in cluster C		
	Site Mitigation Log:		
	Case Number: 91S259		
	Abatement Date: 08/12/97		
	Thomas Guide Page Numbers: 4549C2		
C16 / **West** / **> 1** / **6207 ft.** / **Relative: Higher** / **Actual: 994 ft.**	**LA CTY FIRE DEPT/DELVAL TRG CTR** **28101 CHIQUITO CANYON ROAD** **CASTAIC, CA 91384**	**HAZNET**	**S103649248** **N/A**
	Site 2 of 6 in cluster C		
	HAZNET:		
	Gepaid: CAL000100193		
	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: COUNTY OF LOS ANGELES-FIRE DEP		
	Telephone: (818) 448-0161		
	Mailing Address: 1320 N EASTERN AVE		
	LOS ANGELES, CA 90063 - 3294		
	County Los Angeles		
	Gepaid: CAL000100193		
	TSD EPA ID: CAD000088252		
	Gen County: Los Angeles		
	Tsd County: Los Angeles		
	Tons: .5293		
	Waste Category: Other inorganic solid waste		
	Disposal Method: Transfer Station		
	Contact: COUNTY OF LOS ANGELES-FIRE DEP		
	Telephone: (818) 448-0161		
	Mailing Address: 1320 N EASTERN AVE		
	LOS ANGELES, CA 90063 - 3294		
	County Los Angeles		
	Gepaid: CAL000100193		
	TSD EPA ID: CAD000088252		
	Gen County: Los Angeles		
	Tsd County: Los Angeles		
	Tons: .3880		
	Waste Category: Other inorganic solid waste		
	Disposal Method: Transfer Station		
	Contact: COUNTY OF LOS ANGELES-FIRE DEP		
	Telephone: (818) 448-0161		
	Mailing Address: 1320 N EASTERN AVE		

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	LA CTY FIRE DEPT/DELVAL TRG CTR (Continued)		**S103649248**
	LOS ANGELES, CA 90063 - 3294		
	County Los Angeles		
C17 / **West** / **> 1** / **6207 ft.** / **Relative: Higher** / **Actual: 994 ft.**	**L A COUNTY FIRE DEPT** **28101 N CHIQUITO CANYON RD** **CASTAIC, CA 91384**	**LOS ANGELES CO. HMS** **LUST**	**S102064540** **N/A**
	Site 3 of 6 in cluster C		
	State LUST:		
	Cross Street: SAN MARTINEZ CYN RD		
	Qty Leaked: Not reported		
	Case Number R-00003		
	Reg Board: 4		
	Chemical: Hydrocarbons		
	Lead Agency: Local Agency		
	Local Agency : 19000		
	Case Type: Soil only		
	Status: Leak being confirmed		
	Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site		
	Review Date: 04/10/1991 — Confirm Leak: 04/10/1991		
	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: 12/03/1997		
	Cleanup Fund Id : Not reported		
	Discover Date : 04/10/1991		
	Enforcement Dt : Not reported		
	Enf Type: Not reported		
	Enter Date : 02/18/1998		
	Funding: Not reported		
	Staff Initials: Not reported		
	How Discovered: OM		
	How Stopped: Not reported		
	Interim : Not reported		
	Leak Cause: Not reported		
	Leak Source: Tank		
	MTBE Date : / /		
	Max MTBE GW : 0 Parts per Billion		
	MTBE Tested: Not Required to be Tested.		
	Priority: Not reported		
	Local Case # : Not reported		
	Beneficial: Not reported		
	Staff : JLC		
	GW Qualifier : Not reported		
	Max MTBE Soil : Not reported		
	Soil Qualifier : Not reported		
	Hydr Basin #: Not reported		
	Operator : Not reported		
	Oversight Prgm: Local Implementing Agency UST (includes non-LOP cases within LOP jurisdiction)		
	Oversight Prgm : LIA		
	Review Date : 12/03/1997		
	Stop Date : / /		
	Work Suspended :Not reported		
	Responsible PartyUNOCAL CORP		

L A COUNTY FIRE DEPT (Continued) **S102064540**

RP Address: 2125 KNOLL DR., P.O. BOX 6176, VENTURA, CA 93003
Global Id: T0603704507
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

LUST Region 4:
Report Date: 12/3/1997
Lead Agency: Local Agency
Local Agency: 19000
Case Number: R-00003
Substance: Hydrocarbons
Case Type: Soil
Status: Leak being confirmed
Region: 4
Staff: Not reported
Source of Cleanup Funding: Not reported
Date the Leak was Discovered: 4/10/1991
How the Leak was Discovered: Other Means
How the Leak was Stopped: Close Tank
Cause of Leak: Not reported
Leak Source: Tank
Date The Leak was Stopped: Not reported
Date Confirmation Leak Began: 4/10/1991
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
Date Case Last Changed on Database: 12/3/1997
Enforcement Action Date: Not reported
Date Leak First Reported: 12/3/1997
Enforcement Type: Not reported
Global ID : T0603704507
Organization : 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
Regional Board: 04
Owner Contact: Not reported
Responsible Party: UNOCAL CORP
RP Address: 2125 KNOLL DR., P.O. BOX 6176, VENTURA, CA 93003
Significant Interim Remedial Action Taken: Not reported
Program : LIA
Lat / Long : 34.4358266 / -118.6591324
MTBE Counts : 0
MTBE Fuel : 0

L A COUNTY FIRE DEPT (Continued) **S102064540**

MTBE Tested : NRQ
Local Agency Staff: UNK
Summary : TPH 17000 PPM, 36000 PPM & 20000 PPM IN SOIL DEPTH TO GW 300 FT BGS.
Hydrologic Basin # : 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: Excavate and Dispose
Operator : Not reported
Water System : WALNUT HILL
Well Name : WELL C-6
Approx. Dist To Production Well (ft) : 9199.31482410373742409151O048
W Global ID : W0603709014
Assigned Name : 04N/17W-14Q07 S
MTBE Class : Not reported

HMS:
Facility Id: 000003-I00003
Area: 7
Facility Type: I09
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

Facility Id: 000003-000003
Area: 7
Facility Type: T0
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

C18 **UNOCAL - LINCOLN LEASE** **CA SLIC** **S104404774**
West **28101 CHIQUITO CYN** **N/A**
> 1 **CASTAIC, CA 91384**
6207 ft.

Site 4 of 6 in cluster C

Relative: Higher

Actual: 994 ft.

SLIC Region 4:
Facility Status: Closure
Region: 4
SLIC 0520B
Staff: Manjulika Chakarbarti
Substance: TPH

C19 **LA CO FD FIRE TRAINING CN** **Cortese** **S105023127**
West **28101 CHIQUITO CNYN** **N/A**
> 1 **CASTAIC, CA 91384**
6212 ft.

Site 5 of 6 in cluster C

Relative: Higher

Actual: 994 ft.

CORTESE:
Region: CORTESE
Fac Address 2: Not reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	LA CO FD FIRE TRAINING CN (Continued)		**S105023127**
C20 **West** **> 1** **6212 ft.** **Relative:** **Higher** **Actual:** **994 ft.**	**DEL VALLE REGIONAL EMERGENCY TRAINING CTR** **28101 CHIQUITO CANYON RD** **CASTAIC, CA 91384** **Site 6 of 6 in cluster C** AST: Owner: LOS ANGELES COUNTY FIRE DEPT Total Gallons: 2000	**AST**	**A100210954** **N/A**
D21 **NE** **> 1** **6222 ft.** **Relative:** **Higher** **Actual:** **1022 ft.**	**US POSTAL SERVICE, SANTA CLARI** **28201 FRANKLIN PKY** **SANTA CLARITA, CA 91383** **Site 1 of 4 in cluster D** EMISSIONS : Facility ID : 100544 Air District Code : SC SIC Code : 4300 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 Total Organic Hydrocarbon Gases : Not reported Reactive Organic Gases : Not reported Carbon Monoxide Emissions : Not reported NOX Gas Emissions (Nitrogen - Oxygen) : Not reported SOX Gas Emissions (Sulphur - Oxygen) : Not reported	**EMI**	**S105940246** **N/A**
D22 **NE** **> 1** **6222 ft.** **Relative:** **Higher** **Actual:** **1022 ft.**	**US POSTAL - SANTA CLARITA P&DC** **28201 FRANKLIN PKWY** **SANTA CLARITA, CA 91383** **Site 2 of 4 in cluster D** State UST: Facility ID: 17066 Region: STATE Local Agency: 19000	**UST**	**U003777338** **N/A**
D23 **NE** **> 1** **6222 ft.** **Relative:** **Higher** **Actual:** **1022 ft.**	**28201 FRANKLIN PARKWAY** **SANTA CLARITA, CA 02584** **Site 3 of 4 in cluster D**	**CHMIRS** **HAZNET**	**S103993337** **N/A**

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	(Continued)		**S103993337**

HAZNET:
Gepaid: CAL000157107
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Not reported
Tons: 0.33
Waste Category: Polychlorinated biphenyls and material containing PCB's
Disposal Method: Recycler
Contact: KEN GONZALES/MAINT ENG SP
Telephone: (661) 775-7975
Mailing Address: 28201 FRANKLIN PKWY
SANTA CLARITA, CA 91383 - 9735
County Not reported

Gepaid: CAL000157107
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.04
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Contact: KEN GONZALES/MAINT ENG SP
Telephone: (661) 775-7975
Mailing Address: 28201 FRANKLIN PKWY
SANTA CLARITA, CA 91383 - 9735
County Not reported

Gepaid: CAL000157107
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 3.28
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: KEN GONZALES/MAINT ENG SP
Telephone: (661) 775-7975
Mailing Address: 28201 FRANKLIN PKWY
SANTA CLARITA, CA 91383 - 9735
County Not reported

Gepaid: CAL000157107
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 0.22
Waste Category: Waste oil and mixed oil
Disposal Method: Transfer Station
Contact: KEN GONZALES/MAINT ENG SP
Telephone: (661) 775-7975
Mailing Address: 28201 FRANKLIN PKWY
SANTA CLARITA, CA 91383 - 9735
County Not reported

(Continued) S103993337

Gepaid: CAL000157107
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 0.20
Waste Category: Unspecified oil-containing waste
Disposal Method: Transfer Station
Contact: KEN GONZALES/MAINT ENG SP
Telephone: (661) 775-7975
Mailing Address: 28201 FRANKLIN PKWY
SANTA CLARITA, CA 91383 - 9735
County Not reported

The CA HAZNET database contains 39 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

CHMIRS:

OES Control Number:	97-2033
Chemical Name:	Ink
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 :	97-2033
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 :	Yes
Waterway :	Drain
Spill Site :	Other

(Continued) S103993337

Cleanup By : Not being accomplished
Containment : Unknown
What Happened : Dumped by employees, weekley into drain
Type : OTHER, CHEMICAL
Other : Ink
Chemical 1 : Solvent
Quantity Released : 15 Gal(s)
Chemical 2 : Not Reported
Chemical 3 : Not Reported
Date/Time : 5/21/97
Evacuations : 0

D24
NE
> 1
6222 ft.

28201 FRANKLIN PKWY, BMF
SANTA CLARITA, CA 91387

CHMIRS S105882989
N/A

Site 4 of 4 in cluster D

Relative:
Higher

Actual:
1022 ft.

CHMIRS:

OES Control Number:	02-1417
Chemical Name:	Motor Oil
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 :	02-1417
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 :	Yes
Waterway :	storm drain
Spill Site :	Other

(Continued) S105882989

Cleanup By :	Reporting Party
Containment :	Unknown
What Happened :	A vehicle leaked oil into a storm drain
Type :	Qt.(s)
Other :	Not reported
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	3/14/2002 1330
Evacuations :	0

E25 NNE > 1 6527 ft. — R A H INDUSTRIES; 28035 HARRISON PKWY; VALENCIA, CA 91355 — RCRIS-SQG, FINDS, HAZNET — 1004677606, CAR000099523

Site 1 of 5 in cluster E

Relative: Higher

Actual: 1054 ft.

RCRIS:

Owner:	R A H INDUSTRIES INC
	(661) 295-5190
EPA ID:	CAR000099523
Contact:	RICHARD CRESPO
	(661) 295-5190
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:	CAR000099523
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.27
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	Richard Crespo
Telephone:	(661) 295-5190
Mailing Address:	28035 Harrison Pkwy
	Valencia, CA 91355
County	Not reported

Gepaid:	CAR000099523
TSD EPA ID:	Not reported
Gen County:	Not reported
Tsd County:	Not reported
Tons:	0.69
Waste Category:	Waste oil and mixed oil
Disposal Method:	Not reported
Contact:	Richard Crespo
Telephone:	(661) 295-5190
Mailing Address:	28035 Harrison Pkwy
	Valencia, CA 91355
County	Not reported

R A H INDUSTRIES (Continued) 1004677606

Gepaid:	CAR000099523
TSD EPA ID:	Not reported
Gen County:	Not reported
Tsd County:	Not reported
Tons:	0.69
Waste Category:	Waste oil and mixed oil
Disposal Method:	Transfer Station
Contact:	Richard Crespo
Telephone:	(661) 295-5190
Mailing Address:	28035 Harrison Pkwy
	Valencia, CA 91355
County	Not reported

E26 NNE > 1 6578 ft. — EMCO; 28045 W HARRISON PKWY; VALENCIA, CA 91355 — HAZNET — S106092383, N/A

Site 2 of 5 in cluster E

Relative: Higher

Actual: 1053 ft.

HAZNET:

Gepaid:	CAL000229937
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.34
Waste Category:	Aqueous solution with less than 10% total organic residues
Disposal Method:	Transfer Station
Contact:	MATT HAY
Telephone:	(661) 294-9966
Mailing Address:	28045 W HARRISON PKWY
	VALENCIA, CA 91355
County	Not reported

27 WNW > 1 6784 ft. — JERRY AVALOS TRUCKING; 28459 CHIQUITO CANYON RD; VAL VERDE, CA 91350 — HAZNET — S105724410, N/A

Relative: Higher

Actual: 1046 ft.

HAZNET:

Gepaid:	CAL000207708
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.02
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Not reported
Contact:	ROBERT AVALOS
Telephone:	(818) 367-8415
Mailing Address:	28459 CHIQUITO CANYON RD
	VAL VERDE, CA 91350
County	Not reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
E28 NNE > 1 6790 ft. Relative: Higher Actual: 1063 ft.	**DEL WEST ENGINEERING** **28128 W LIVINGSTON AVE** **VALENCIA, CA 91355** **Site 3 of 5 in cluster E**	RCRIS-LQG FINDS HAZNET	1001459707 CAR000048694

RCRIS:
- Owner: DEL WEST ENGINEERING (805) 295-5700
- EPA ID: CAR000048694
- Contact: BEN MC CABE (805) 295-5700
- Classification: Large 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: CAR000048694
- TSD EPA ID: Not reported
- Gen County: Los Angeles
- Tsd County: Los Angeles
- Tons: 5.00
- Waste Category: Unspecified oil-containing waste
- Disposal Method: Not reported
- Contact: R J SOUKUP/FACILITIES MGR
- Telephone: (661) 295-5700
- Mailing Address: 28128 W LIVINGSTON AVE VALENCIA, CA 91355
- County: Not reported

- Gepaid: CAR000048694
- TSD EPA ID: Not reported
- Gen County: Los Angeles
- Tsd County: Los Angeles
- Tons: 4.17
- Waste Category: Unspecified oil-containing waste
- Disposal Method: Recycler
- Contact: R J SOUKUP/FACILITIES MGR
- Telephone: (661) 295-5700
- Mailing Address: 28128 W LIVINGSTON AVE VALENCIA, CA 91355
- County: Not reported

- Gepaid: CAR000048694
- TSD EPA ID: Not reported
- Gen County: Los Angeles
- Tsd County: Los Angeles
- Tons: 0.01
- Waste Category: Liquids with pH <UN-> 2
- Disposal Method: Recycler
- Contact: R J SOUKUP/FACILITIES MGR
- Telephone: (661) 295-5700
- Mailing Address: 28128 W LIVINGSTON AVE VALENCIA, CA 91355
- County: Not reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	DEL WEST ENGINEERING (Continued)		1001459707

- Gepaid: CAR000048694
- TSD EPA ID: Not reported
- Gen County: Los Angeles
- Tsd County: San Bernardino
- Tons: 7.50
- Waste Category: Other inorganic solid waste
- Disposal Method: Transfer Station
- Contact: R J SOUKUP/FACILITIES MGR
- Telephone: (661) 295-5700
- Mailing Address: 28128 W LIVINGSTON AVE VALENCIA, CA 91355
- County: Not reported

- Gepaid: CAR000048694
- TSD EPA ID: Not reported
- Gen County: Los Angeles
- Tsd County: San Bernardino
- Tons: 14.63
- Waste Category: Other organic solids
- Disposal Method: Transfer Station
- Contact: R J SOUKUP/FACILITIES MGR
- Telephone: (661) 295-5700
- Mailing Address: 28128 W LIVINGSTON AVE VALENCIA, CA 91355
- County: Not reported

The CA HAZNET database contains 41 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
E29 NNE > 1 6795 ft. Relative: Higher Actual: 1063 ft.	**DEL WEST ENGINEERING** **28128 W LIVINGSTON AVE** **UNINCORPORATED, CA** **Site 4 of 5 in cluster E**	LOS ANGELES CO. HMS	1001472911 N/A

HMS:
- Facility Id: 017610-024096
- Area: 7
- 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
30 North > 1 6873 ft. Relative: Higher Actual: 1173 ft.	**20TH CENTURY FOX,PAPI CHULO** **28455 LIVINGSTON AVE** **VALENCIA, CA 91355**	HAZNET	S106088596 N/A

HAZNET:
- Gepaid: CAC002555271
- TSD EPA ID: Not reported
- Gen County: Los Angeles
- Tsd County: Los Angeles
- Tons: 0.31
- Waste Category: Latex waste
- Disposal Method: Recycler
- Contact: ORLANDO PEREZ, PAINTER
- Telephone: (818) 800-0454

Map ID / Direction / Distance / Distance (ft.) / Elevation | Site | Database(s) | EDR ID Number / EPA ID Number

20TH CENTURY FOX,PAPI CHULO (Continued) — S106088596

Mailing Address: 805 S SAN FERNANDO RD
BURBANK, CA 91502
County: Not reported

E31 | **REGENT AEROSPACE INC** | HAZNET | S105725099
NNE | **28110 HARRISON PKWY** | N/A
> 1 | **VALENCIA, CA 91355**
6895 ft.

Site 5 of 5 in cluster E

Relative: Higher

Actual: 1042 ft.

HAZNET:
Gepaid: CAL000220147
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.02
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: MIKE VARGAS
Telephone: (661) 257-3000
Mailing Address: 28110 HARRISON PKWY
VALENCIA, CA 91355
County: Not reported

Gepaid: CAL000220147
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.24
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Treatment, Tank
Contact: MIKE VARGAS
Telephone: (661) 257-3000
Mailing Address: 28110 HARRISON PKWY
VALENCIA, CA 91355
County: Not reported

Gepaid: CAL000220147
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.06
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Transfer Station
Contact: MIKE VARGAS
Telephone: (661) 257-3000
Mailing Address: 28110 HARRISON PKWY
VALENCIA, CA 91355
County: Not reported

Gepaid: CAL000220147
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: MIKE VARGAS
Telephone: (661) 257-3000
Mailing Address: 28110 HARRISON PKWY

Map ID / Direction / Distance / Distance (ft.) / Elevation | Site | Database(s) | EDR ID Number / EPA ID Number

REGENT AEROSPACE INC (Continued) — S105725099

VALENCIA, CA 91355
County: Not reported

Gepaid: CAL000220147
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Sacramento
Tons: 1.17
Waste Category: Other organic solids
Disposal Method: Disposal, Other
Contact: MIKE VARGAS
Telephone: (661) 257-3000
Mailing Address: 28110 HARRISON PKWY
VALENCIA, CA 91355
County: Not reported

The CA HAZNET database contains 4 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

F32 | **TIME AVIATION SERVICES INC** | RCRIS-SQG | 1001967326
North | **28402 W LIVINGSTON AVE** | FINDS | CAR000067363
> 1 | **VALENCIA, CA 91355**
6913 ft.

Site 1 of 2 in cluster F

Relative: Higher

Actual: 1151 ft.

RCRIS:
Owner: JOHN W BUTLER
(661) 702-0800
EPA ID: CAR000067363
Contact: LARRY COLLINS
(661) 702-7311
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)

F33 | **TIME AVIATION SERVICES** | HAZNET | S105094017
North | **28402 W LIVINGSTON AVE** | N/A
> 1 | **VALENCIA, CA 91355**
6913 ft.

Site 2 of 2 in cluster F

Relative: Higher

Actual: 1151 ft.

HAZNET:
Gepaid: CAR000067363
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.42
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: LARRY COLLINGS - DIR OF QUALIT
Telephone: (661) 702-7311
Mailing Address: 28402 W LIVINGSTON AVE
VALENCIA, CA 91355 - 1415

TIME AVIATION SERVICES (Continued) S105094017

County Not reported

Gepaid: CAR000067363
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.12
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Transfer Station
Contact: LARRY COLLINGS - DIR OF QUALIT
Telephone: (661) 702-7311
Mailing Address: 28402 W LIVINGSTON AVE
VALENCIA, CA 91355 - 1415
County Not reported

Gepaid: CAR000067363
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.06
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Transfer Station
Contact: LARRY COLLINGS - DIR OF QUALIT
Telephone: (661) 702-7311
Mailing Address: 28402 W LIVINGSTON AVE
VALENCIA, CA 91355 - 1415
County Not reported

Gepaid: CAR000067363
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 1.04
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Contact: LARRY COLLINGS - DIR OF QUALIT
Telephone: (661) 702-7311
Mailing Address: 28402 W LIVINGSTON AVE
VALENCIA, CA 91355 - 1415
County Not reported

Gepaid: CAR000067363
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.8
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: LARRY COLLINGS - DIR OF QUALIT
Telephone: (661) 702-7311
Mailing Address: 28402 W LIVINGSTON AVE
VALENCIA, CA 91355 - 1415
County Not reported

The CA HAZNET database contains 4 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

TIME AVIATION SERVICES (Continued) S105094017

G34 **PROPOSED SCHOOL BUS STOP** CA SLIC S103878798
NNE **28300 LIVINGSTON** N/A
> 1 **CASTAIC, CA 91384**
6923 ft.

Site 1 of 3 in cluster G

Relative:
Higher

Actual:
1102 ft.

SLIC Region 4:
Facility Status: Closure
Region: 4
SLIC 0834
Staff: Jenny Au
Substance: TPH

G35 **PHARMAVITE LLC** RCRIS-LQG 1001815586
NNE **28305 W LIVINGSTON AVE** FINDS CAR000057190
> 1 **VALENCIA, CA 91355** HAZNET
6924 ft.

Site 2 of 3 in cluster G

Relative:
Higher

Actual:
1103 ft.

RCRIS:
Owner: OTSUKA AMERICA INC
(415) 986-5300
EPA ID: CAR000057190
Contact: TIM COFFMAN
(818) 837-3633
Classification: Large 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: CAR000057190
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.08
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200
Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County Not reported

Gepaid: CAR000057190
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 107.84
Waste Category: Baghouse waste
Disposal Method: Disposal, Land Fill
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200

PHARMAVITE LLC (Continued) 1001815586

Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County: Not reported

Gepaid: CAR000057190
TSD EPA ID: NVT330010000
Gen County: Los Angeles
Tsd County: 99
Tons: 17.6988
Waste Category: Baghouse waste
Disposal Method: Disposal, Land Fill
Contact: OTSUKA AMERICA INC
Telephone: (000) 000-0000
Mailing Address: 15451 SAN FERNANDO MISSION BLV
MISSION HILLS, CA 91345
County: Los Angeles

Gepaid: CAR000057190
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 143.69
Waste Category: Baghouse waste
Disposal Method: Disposal, Land Fill
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200
Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County: Not reported

Gepaid: CAR000057190
TSD EPA ID: NVT330010000
Gen County: Los Angeles
Tsd County: 99
Tons: 18.5416
Waste Category: Baghouse waste
Disposal Method: Not reported
Contact: OTSUKA AMERICA INC
Telephone: (000) 000-0000
Mailing Address: 15451 SAN FERNANDO MISSION BLV
MISSION HILLS, CA 91345
County: Los Angeles

The CA HAZNET database contains 1 additional record for this site.
Please click here or contact your EDR Account Executive for more information.

G36 **PHARMAVITE LLC** **LOS ANGELES CO. HMS** 1001959798
NNE **28310 W LIVINGSTON AVE** HAZNET N/A
> 1 **VALENCIA, CA 91355**
6927 ft.

Site 3 of 3 in cluster G

Relative:
Higher

Actual:
1106 ft.

PHARMAVITE LLC (Continued) 1001959798

HAZNET:
Gepaid: CAR000064444
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.62
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200
Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County: Not reported

Gepaid: CAR000064444
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.54
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200
Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County: Not reported

Gepaid: CAR000064444
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 0.03
Waste Category: Other organic solids
Disposal Method: Not reported
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200
Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County: Not reported

Gepaid: CAR000064444
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 12.50
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Recycler
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200
Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County: Not reported

PHARMAVITE LLC (Continued) 1001959798

Gepaid: CAR000064444
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 8.42
Waste Category: Baghouse waste
Disposal Method: Disposal, Land Fill
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200
Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County Not reported

The CA HAZNET database contains 9 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

HMS:
Facility Id: 020797-037829
Area: 7
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

37
North
> 1
6928 ft.

KIMBALL MICROELECTRONICS RCRIS-SQG 1004677121
28575 LIVINGSTON AVE FINDS CAR000093468
VALENCIA, CA 91355 HAZNET

Relative:
Higher

Actual:
1252 ft.

RCRIS:
Owner: KIMBALL INTL INC
(812) 482-1600
EPA ID: CAR000093468
Contact: FRANK FABIANO
(661) 775-3500
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)

HAZNET:
Gepaid: CAR000093468
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.44
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Contact: KENT DAVIS
Telephone: (661) 775-3500
Mailing Address: 28575 LIVINGSTON AVE
VALENCIA, CA 91355
County Not reported

KIMBALL MICROELECTRONICS (Continued) 1004677121

Gepaid: CAR000093468
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.67
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Contact: KENT DAVIS
Telephone: (661) 775-3500
Mailing Address: 28575 LIVINGSTON AVE
VALENCIA, CA 91355
County Not reported

38
NNE
> 1
7080 ft.

WALT DISNEY PICTURES & TELEVISION HAZNET S104581097
28150 W HARRISON PARKWAY N/A
VALENCIA, CA 91355

Relative:
Higher

Actual:
1046 ft.

HAZNET:
Gepaid: CAL000180976
TSD EPA ID: CAD050806850
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.2085
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Transfer Station
Contact: WALT DISNEY PICTURES & TV
Telephone: (000) 000-0000
Mailing Address: 500 S. BUENA VISTA ST.
BURBANK, CA 91521 - 2663
County Los Angeles

Gepaid: CAL000180976
TSD EPA ID: CAD050806850
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.9875
Waste Category: Other organic solids
Disposal Method: Transfer Station
Contact: WALT DISNEY PICTURES & TV
Telephone: (000) 000-0000
Mailing Address: 500 S. BUENA VISTA ST.
BURBANK, CA 91521 - 2663
County Los Angeles

Gepaid: CAL000180976
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.86
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Transfer Station
Contact: DEBBIE GONZALEZ ENVIRONMENTAL
Telephone: (818) 553-4061
Mailing Address: 500 S. BUENA VISTA ST.
BURBANK, CA 91521 - 6015
County Not reported

WALT DISNEY PICTURES & TELEVISION (Continued) — S104581097

Gepaid: CAL000180976
TSD EPA ID: CAD050806850
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .6255
Waste Category: Waste oil and mixed oil
Disposal Method: Transfer Station
Contact: WALT DISNEY PICTURES & TV
Telephone: (000) 000-0000
Mailing Address: 500 S. BUENA VISTA ST.
BURBANK, CA 91521 - 2663
County Los Angeles

Gepaid: CAL000180976
TSD EPA ID: CAD050806850
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3000
Waste Category: Other organic solids
Disposal Method: Transfer Station
Contact: WALT DISNEY PICTURES & TV
Telephone: (000) 000-0000
Mailing Address: 500 S. BUENA VISTA ST.
BURBANK, CA 91521 - 2663
County Los Angeles

The CA HAZNET database contains 1 additional record for this site.
Please click here or contact your EDR Account Executive for more information.

H39 | **ENE** | **> 1** | **7331 ft.** | **Relative: Higher** | **Actual: 1001 ft.**

FIESTA RESORTS — LOS ANGELES CO. HMS — S102064533 / N/A
27946 W HENRY MAYO DR
UNINCORPORATED, CA

Site 1 of 4 in cluster H

HMS:
Facility Id: 014852-015631
Area: 7
Facility Type: T0
Permit Number: 174 — Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

H40 | **ENE** | **> 1** | **7331 ft.** | **Relative: Higher** | **Actual: 1001 ft.**

VALENCIA TRAVEL VILLAGE — LOS ANGELES CO. HMS — S102064534 / N/A
27946 W HENRY MAYO DR
UNINCORPORATED, CA

Site 2 of 4 in cluster H

HMS:
Facility Id: 014852-021889
Area: 7
Facility Type: T0
Permit Number: 174 — Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

VALENCIA TRAVEL VILLAGE (Continued) — S102064534

H41 | **NE** | **> 1** | **7485 ft.** | **Relative: Higher** | **Actual: 998 ft.**

THE VALENCIA TRAVEL VILLAGE — HAZNET — S103991139 / N/A
27946 HENRY MAYO ROAD, RTE 126
VALENCIA, CA 91384

Site 3 of 4 in cluster H

HAZNET:
Gepaid: CAC001485192
TSD EPA ID: CAD982484933
Gen County: Los Angeles
Tsd County: 7
Tons: .2500
Waste Category: Other empty containers 30 gallons or more
Disposal Method: Recycler
Contact: STEWART BLAIR
Telephone: (805) 257-3333
Mailing Address: 27946 HENRY MAYO ROAD, RTE 126
VALENCIA, CA 91384
County Los Angeles

Gepaid: CAC001485192
TSD EPA ID: CAD028409019
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4170
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Treatment, Tank
Contact: STEWART BLAIR
Telephone: (805) 257-3333
Mailing Address: 27946 HENRY MAYO ROAD, RTE 126
VALENCIA, CA 91384
County Los Angeles

H42 | **NE** | **> 1** | **7485 ft.** | **Relative: Higher** | **Actual: 998 ft.**

FIESTA RESORT TRAVEL VILLAGE — CA FID UST — S101584732 / N/A
27946 HENRY MAYO RD
VALENCIA, CA 91384

Site 4 of 4 in cluster H

FID:
Facility ID: 19014937 — Regulate ID: Not reported
Reg By: Active Underground Storage Tank Location
Cortese Code: Not reported — SIC Code: Not reported
Status: Active — Facility Tel: (805) 257-1135
Mail To: Not reported
27946 HENRY MAYO DR
VALENCIA, CA 91384
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

I43
NE
> 1
7816 ft.

SCHWARTZ OIL CO
27241 HENRY MAYO DR
VALENCIA, CA 91355

UST **U001567874**
EMI **N/A**
HIST UST
HAZNET

Site 1 of 8 in cluster I

Relative:
Higher

Actual:
996 ft.

HAZNET:

Gepaid:	CAL000171310
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.14
Waste Category:	Tank bottom waste
Disposal Method:	Recycler
Contact:	GINNY OSTROVE-OFFICE MGR
Telephone:	(661) 259-4000
Mailing Address:	27241 HENRY MAYO DR VALENCIA, CA 91355
County	Not reported

Gepaid:	CAL000171310
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	15.01
Waste Category:	Off-specification, aged, or surplus organics
Disposal Method:	Recycler
Contact:	GINNY OSTROVE-OFFICE MGR
Telephone:	(661) 259-4000
Mailing Address:	27241 HENRY MAYO DR VALENCIA, CA 91355
County	Not reported

Gepaid:	CAL000171310
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	10.42
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	GINNY OSTROVE-OFFICE MGR
Telephone:	(661) 259-4000
Mailing Address:	27241 HENRY MAYO DR VALENCIA, CA 91355
County	Not reported

Gepaid:	CAC001421632
TSD EPA ID:	CAD028409019
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.8556
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Treatment, Tank
Contact:	TRUDY EMETERIO
Telephone:	(000) 000-0000
Mailing Address:	27241 HENRY MAYO VALENCIA, CA 00000
County	Los Angeles

SCHWARTZ OIL CO (Continued) **U001567874**

Gepaid:	CAC001421632
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:	TRUDY EMETERIO
Telephone:	(000) 000-0000
Mailing Address:	27241 HENRY MAYO VALENCIA, CA 00000
County	Los Angeles

The CA HAZNET database contains 1 additional record for this site.
Please click here or contact your EDR Account Executive for more information.

UST HIST:

Facility ID:	5275	Facility Status:	Not reported
Total Tanks:	4	Region:	STATE
Owner Name:	SCHWARTZ OIL COMPANY INC.	Box Number:	Not reported
Owner Address:	27241 HENRY MAYO RD. VALENCIA, CA 91355		

EMISSIONS :

Facility ID :	35743
Air District Code :	SC
SIC Code :	5171
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
Total Organic Hydrocarbon Gases :	Not reported
Reactive Organic Gases :	Not reported
Carbon Monoxide Emissions :	Not reported
NOX Gas Emissions (Nitrogen - Oxygen) :	Not reported
SOX Gas Emissions (Sulphur - Oxygen) :	Not reported

State UST:

Facility ID:	16425
Region:	STATE
Local Agency:	19000

I44
NE
> 1
7816 ft.

SCHWARTZ OIL CO.
27241 HENRY MAYO DR
VALENCIA, CA 91355

Cortese **S104160064**
LUST **N/A**

Site 2 of 8 in cluster I

Relative:
Higher

Actual:
996 ft.

State LUST:

Cross Street:	THE OLD ROAD
Qty Leaked:	Not reported
Case Number	I-16425
Reg Board:	4
Chemical:	Gasoline
Lead Agency:	Regional Board
Local Agency :	19000

SCHWARTZ OIL CO. (Continued) S104160064

Case Type: Other ground water affected
Status: Case Closed
Review Date: Not reported
Confirm Leak: Not reported
Workplan: 4/14/92
Prelim Assess: 4/14/92
Pollution Char: Not reported
Remed Plan: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: 08/30/1996
Release Date: 04/14/1992
Cleanup Fund Id : Not reported
Discover Date : 01/23/1992
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 05/26/1992
Funding: Federal Funds
Staff Initials: Not reported
How Discovered: OM
How Stopped: Not reported
Interim : Not reported
Leak Cause: UNK
Leak Source: Tank
MTBE Date : / /
Max MTBE GW : 0 Parts per Billion
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Priority: Not reported
Local Case # : Not reported
Beneficial: Not reported
Staff : JLC
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: Not reported
Operator : Not reported
Oversight Prgm: RB Lead Underground Storage Tank
Oversight Prgm : UST
Review Date : 09/24/1996
Stop Date : / /
Work Suspended Not reported
Responsible PartySCHWARTZ OIL CO.
RP Address: 2615 NUTMEG ST., MORRO BAY, 93442 D
Global Id: T0603704411
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 1
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: 4/14/1992
Lead Agency: Regional Board
Local Agency: 19000
Case Number: I-16425
Substance: Gasoline
Case Type: Groundwater

SCHWARTZ OIL CO. (Continued) S104160064

Status: Case Closed
Region: 4
Staff: Not reported
Source of Cleanup Funding: Federal Funds
Date the Leak was Discovered: 1/23/1992
How the Leak was Discovered: Other Means
How the Leak was Stopped: Not reported
Cause of Leak: Unknown
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: 4/14/1992
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: 8/30/1996
Date Case Last Changed on Database: 9/24/1996
Enforcement Action Date: Not reported
Date Leak First Reported: 4/14/1992
Enforcement Type: Not reported
Global ID : T0603704411
Organization : 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
Regional Board: 04
Owner Contact: Not reported
Responsible Party: SCHWARTZ OIL CO.
RP Address: 2615 NUTMEG ST., MORRO BAY, 93442 D
Significant Interim Remedial Action Taken: Not reported
Program : UST
Lat / Long : 34.4391864 / -118.609307
MTBE Counts : 0
MTBE Fuel : 1
MTBE Tested : NT
Local Agency Staff: UNK
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 : Not reported
Substance Quantity : Not reported
Abatement Method Used at the Site: Not reported
Operator : Not reported
Water System : PETER PITCHESS HONOR RANCHO, LAC SHERIFF
Well Name : WELL 01A - INACTIVE
Approx. Dist To Production Well (ft) : 4770.981732651974542165717283 1
W Global ID : W0603700046
Assigned Name : 1900046-008
MTBE Class : Not reported

SCHWARTZ OIL CO. (Continued) S104160064

CORTESE:
Region: CORTESE
Fac Address 2: 27241 HENRY MAYO DR

I45 **SCHWARTZ OIL CO INC** FINDS 1006306954
NE **27241 HENRY MAYO DR** 110012435551
> 1 **VALENCIA, CA 91355**
7816 ft.

Site 3 of 8 in cluster I

Relative: **Higher**

FINDS:
Other Pertinent Environmental Activity Identified at Site:
National Emissions Inventory (NEI)
National Toxics Inventory (NTI)

Actual: **996 ft.**

I46 **LA COUNTY FIRE DEPT STATION 75** AST A100211166
NE **27223 HENRY MAYO DR** N/A
> 1 **VALENCIA, CA 91355**
7839 ft.

Site 4 of 8 in cluster I

Relative: **Higher**

AST:
Owner: LOS ANGELES COUNTY FIRE DEPT
Total Gallons: 1000

Actual: **996 ft.**

I47 **LA CO FD FIRE STA #076** LOS ANGELES CO. HMS S102064489
NE **27223 W HENRY MAYO DR** Cortese N/A
> 1 **VALENCIA, CA 91355** LUST
7839 ft.

Site 5 of 8 in cluster I

Relative: **Higher**

State LUST:
Cross Street: CASTAIC CANYON RD
Qty Leaked: Not reported
Case Number R-12547
Reg Board: 4
Chemical: Hydrocarbons
Lead Agency: Local Agency
Local Agency : 19000
Case Type: Soil only
Status: Case Closed
Abate Method: Other Means
Review Date: Not reported
Workplan: Not reported
Pollution Char: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: 08/13/1997
Release Date: 06/26/1997
Cleanup Fund Id : Not reported
Discover Date : 06/04/1997
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 07/17/1997
Funding: Not reported
Staff Initials: Not reported
How Discovered: Tank Closure
Confirm Leak: Not reported
Prelim Assess: Not reported
Remed Plan: Not reported

Actual: **996 ft.**

LA CO FD FIRE STA #076 (Continued) S102064489

How Stopped: Not reported
Interim : Not reported
Leak Cause: UNK
Leak Source: Tank
MTBE Date : / /
Max MTBE GW : 0 Parts per Billion
MTBE Tested: Not Required to be Tested.
Priority: Not reported
Local Case # : Not reported
Beneficial: Not reported
Staff : JLC
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: Not reported
Operator : Not reported
Oversight Prgm: Local Implementing Agency UST (includes non-LOP cases within LOP jurisdiction)
Oversight Prgm : LIA
Review Date : 08/13/1997
Stop Date : / /
Work Suspended : Not reported
Responsible Party: LA COUNTY FIRE DEPARTMENT
RP Address: 1320 N. EASTERN AVE., LOS ANGELES CA 90063-3294
Global Id: T0603705143
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

LUST Region 4:
Report Date: 6/26/1997
Lead Agency: Local Agency
Local Agency: 19000
Case Number: R-12547
Substance: Hydrocarbons
Case Type: Soil
Status: Case Closed
Region: 4
Staff: Not reported
Source of Cleanup Funding: Not reported
Date the Leak was Discovered: 6/4/1997
How the Leak was Discovered: Tank Closure
How the Leak was Stopped: Close Tank
Cause of Leak: Unknown
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

LA CO FD FIRE STA #076 (Continued) — **S102064489**

Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	8/13/1997
Date Case Last Changed on Database:	8/13/1997
Enforcement Action Date:	Not reported
Date Leak First Reported:	6/26/1997
Enforcement Type:	Not reported
Global ID :	T0603705143
Organization :	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
Regional Board:	04
Owner Contact: Not reported	
Responsible Party:	LA COUNTY FIRE DEPARTMENT
RP Address:	1320 N. EASTERN AVE., LOS ANGELES CA 90063-3294
Significant Interim Remedial Action Taken:	Not reported
Program :	LIA
Lat / Long :	34.4391864 / -118.609307
MTBE Counts :	0
MTBE Fuel :	0
MTBE Tested :	NRQ
Local Agency Staff:	UNK
Summary :	DEPTH TO G.W. 25TH. BGS. FURTHER ASSESSMENT REQ'D. POTENTIAL G.W. CONTAMINATION.
Hydrologic Basin # :	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:	OT
Operator :	Not reported
Water System :	PETER PITCHESS HONOR RANCHO, LAC SHERIFF
Well Name :	WELL 01A - INACTIVE
Approx. Dist To Production Well (ft) :	4770.981732651974542165717283 1
W Global ID :	W0603700046
Assigned Name :	1900046-008
MTBE Class :	Not reported

CORTESE:
Region: CORTESE
Fac Address 2: 27223 HENRY MAYO DR

HMS:
Facility Id: 012416-012547
Area: 7
Facility Type: TO
Permit Number: 174 — Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

LA CO FD FIRE STA #076 (Continued) — **S102064489**

I48 — **HIST UST** — **U001562296** / **N/A**
NE
> 1
7839 ft.
Relative: Higher
Actual: 996 ft.

FIRE STATION #76
27223 HENRY MAYO DR
VALENCIA, CA 90063

Site 6 of 8 in cluster I

UST HIST:

Facility ID:	20631	Facility Status:	Not reported
Total Tanks:	2	Region:	STATE
Owner Name:	LOS ANGELES COUNTY MECHANICAL	Box Number:	Not reported
Owner Address:	1100 N. EASTERN AVE. LOS ANGELES, CA 90063		

I49 — **CA FID UST** — **S101587195** / **N/A**
NE
> 1
7839 ft.
Relative: Higher
Actual: 996 ft.

LA CO FD FIRE STA #076
27223 HENRY MAYO DR
NEWHALL, CA 91321

Site 7 of 8 in cluster I

FID:

Facility ID:	19055062	Regulate ID:	00020631
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 1320 N EASTERN AVE NEWHALL, CA 91321		
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		

I50 — **HIST UST** — **U001567871** / **N/A**
NE
> 1
7857 ft.
Relative: Higher
Actual: 996 ft.

R.M. PYLES BOYS CAMP, INC.
27211 HENRY MAYO DR
VALENCIA, CA 91355

Site 8 of 8 in cluster I

UST HIST:

Facility ID:	55879	Facility Status:	Not reported
Total Tanks:	1	Region:	STATE
Owner Name:	R.M. PYLES BOYS CAMP, INC.	Box Number:	Not reported
Owner Address:	27211 HENRY MAYO DRIVE VALENCIA, CA 91355		

J51 — **CA FID UST** — **S101583389** / **N/A**
ENE
> 1
8897 ft.
Relative: Higher
Actual: 1009 ft.

SCHUARTI OIL CO. INC.
27241 HENRY MAYO RD
VALENCIA, CA 91355

Site 1 of 2 in cluster J

SCHUARTI OIL CO. INC. (Continued) S101583389

FID:

Facility ID:	19003595	Regulate ID:	Not reported
Reg By:	Active Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Active	Facility Tel:	(805) 259-4000
Mail To:	Not reported 6215 NUTMEG 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		

J52
ENE
> 1
9015 ft.

Relative:
Higher

Actual:
1010 ft.

NEWHALL LAND & FARMING Cortese S102064490
27230 HENRY MAYO RD LUST N/A
VALENCIA, CA 91355

Site 2 of 2 in cluster J

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	I-14698		
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
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	01/29/1990		
Release Date:	01/29/1990		
Cleanup Fund Id :	Not reported		
Discover Date :	/ /		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	01/22/1990		
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 :	/ /		
Max MTBE GW :	0 Parts per Billion		
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.		
Priority:	Not reported		
Local Case # :	Not reported		
Beneficial:	Not reported		
Staff :	JLC		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		

NEWHALL LAND & FARMING (Continued) S102064490

Soil Qualifier :	Not reported
Hydr Basin #:	Not reported
Operator :	Not reported
Oversight Prgm:	Local Implementing Agency UST (includes non-LOP cases within LOP jurisdiction)
Oversight Prgm :	LIA
Review Date :	01/29/1990
Stop Date :	/ /
Work Suspended :	Not reported
Responsible Party	NEWHALL LAND & FARMING CO.
RP Address:	23823 VALENCIA BOULEVARD, VALENCIA, 91355
Global Id:	T0603704197
Org Name:	Not reported
Contact Person:	Not reported
MTBE Conc:	0
Mtbe Fuel:	1
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:	1/29/1990
Lead Agency:	Local Agency
Local Agency:	19000
Case Number:	I-14698
Substance:	Gasoline
Case Type:	Soil
Status:	Case Closed
Region:	4
Staff:	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	Not reported
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:	1/29/1990
Date Case Last Changed on Database:	1/29/1990
Enforcement Action Date:	Not reported
Date Leak First Reported:	1/29/1990
Enforcement Type:	Not reported
Global ID :	T0603704197
Organization :	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

NEWHALL LAND & FARMING (Continued) S102064490

County: Los Angeles
Regional Board: 04
Owner Contact: Not reported
Responsible Party: NEWHALL LAND & FARMING CO.
RP Address: 23823 VALENCIA BOULEVARD, VALENCIA, 91355
Significant Interim Remedial Action Taken: Not reported
Program : LIA
Lat / Long : 34.4391864 / -118.609307
MTBE Counts : 0
MTBE Fuel : 1
MTBE Tested : NT
Local Agency Staff: UNK
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 : Not reported
Substance Quantity : Not reported
Abatement Method Used at the Site: Not reported
Operator : Not reported
Water System : PETER PITCHESS HONOR RANCHO, LAC SHERIFF
Well Name : WELL 01A - INACTIVE
Approx. Dist To Production Well (ft) : 4770.981732651974542165717283 1
W Global ID : W0603700046
Assigned Name : 1900046-008
MTBE Class : Not reported

CORTESE:
Region: CORTESE
Fac Address 2: 27230 HENRY MAYO RD

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53 | **West** | **> 1** | **10396 ft.** | **Relative: Higher** | **Actual: 1030 ft.**

27353 SAN MARTINEZ GRANDE CANYON CHMIRS S105648719
SANTA CLARITA, CA 0 N/A

CHMIRS:
OES Control Number: 97-4284
Chemical Name: crude oil
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 : 97-4284
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

(Continued) S105648719

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 : River Bed
Spill Site : Road
Cleanup By : To be determined
Containment : No
What Happened : A tanker truck loaded with 1,000 gals of crude oil was involved in a traffic accident an unknown amount of the crude oil was released. The release is ongoing. The substance going into the Santa Clarita River Bed, No flowing water in the riverbed at this
Type : PETROLEUM
Other : 1,000 Potential
Chemical 1 : Not Reported
Chemical 2 : Not Reported
Chemical 3 : Not Reported
Date/Time : 10/27/97
Evacuations : 0

K54 | **NE** | **> 1** | **11010 ft.** | **Relative: Higher** | **Actual: 1018 ft.**

29300 THE OLD ROAD CHMIRS S100279945
SAUGUS, CA 91384 EMI N/A
HAZNET
SWF/LF

Site 1 of 2 in cluster K

LF:
Facility ID: 19-AA-0057
Operator: County Of Los Angeles Sheriff's Dept
Operator Phone: (213) 974-4528
Operator Addr: 293000 The Old Road
Saugus, CA 90012
Owner: County Of Los Angeles Sheriff's Dept
Owner Address: Not reported
293000 The Old Road
Saugus, CA 90012
Owner Telephone: (213) 974-4528
Activity: Solid Waste Landfill
Operator's Status: Closed
Regulation Status: Permitted
Region: STATE
Lat/Long: 34 / -118
Permit Date: Not reported
Accepted Waste: Agricultural,Construction/demolition,Mixed municipal,Other hazardous,Tires

(Continued) S100279945

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: 154
Permitted Throughput with Units: 154
Permitted Throughput with Units: 154
Actual Throughput with Units: Cu Yards/day
Actual Capacity with Units: Not reported
Permitted Capacity with Units: Not reported
Remaining Capacity with Units: Not reported
Permitted Total Acreage: 54
Inspection Frequency: Quarterly
Landuse Name: Not reported
GIS Source: External
Permit Status: Permitted
Category: Disposal
Unit Number: 01
Last Waste Tire Inspection Count : Not reported
Last Waste Tire Inspection Date: Not reported
Original Waste Tire Count: Not reported
Original Waste Tire Count Date: Not reported
Closure Date: 01/01/1992
Closure Type: Actual
Disposal Acreage: 0
Remaining Capacity: Not reported

HAZNET:
Gepaid: CAL000022055
TSD EPA ID: CAD000088252
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .6000
Waste Category: Contaminated soil from site clean-ups
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

(Continued) S100279945

Gepaid: CAL000022055
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 6.1090
Waste Category: Paint sludge
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: CAL000022055
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.2935
Waste Category: Unspecified organic liquid mixture
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: CAL000022055
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.0425
Waste Category: Unspecified solvent mixture Waste
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: CAL000022055
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3335
Waste Category: Tank bottom waste
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

The CA HAZNET database contains 131 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

CHMIRS:
OES Control Number: 9014303
Chemical Name: Not reported
Extent of Release: Not reported

(Continued) S100279945

Property Use:	Industrial, Utility
Incident Date:	05-DEC-90
Date Completed:	05-DEC-90
Time Completed :	1935
Agency Id Number :	19110
Agency Incident Number :	51
OES Incident Number :	9014303
Time Notified :	1835
Surrounding Area :	099
Estimated Temperature :	60
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 :	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. LYNN MOHR #124351
Report Date :	05-DEC-90
Comments :	Yes
Facility Telephone Number :	213 267-2401
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

EMISSIONS :

Facility ID :	6488
Air District Code :	SC
SIC Code :	9223
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

(Continued) S100279945

Community Health Air Pollution Info System :	Not reported
Consolidated Emission Reporting Rule :	Not reported
Total Organic Hydrocarbon Gases :	1
Reactive Organic Gases :	1
Carbon Monoxide Emissions :	1
NOX Gas Emissions (Nitrogen - Oxygen) :	4
SOX Gas Emissions (Sulphur - Oxygen) :	0
Facility ID :	58949
Air District Code :	SC
SIC Code :	9223
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 :	Y
Consolidated Emission Reporting Rule :	Not reported
Total Organic Hydrocarbon Gases :	65
Reactive Organic Gases :	6
Carbon Monoxide Emissions :	5
NOX Gas Emissions (Nitrogen - Oxygen) :	28
SOX Gas Emissions (Sulphur - Oxygen) :	1
Facility ID :	6488
Air District Code :	SC
SIC Code :	9223
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
Total Organic Hydrocarbon Gases :	Not reported
Reactive Organic Gases :	Not reported
Carbon Monoxide Emissions :	Not reported
NOX Gas Emissions (Nitrogen - Oxygen) :	Not reported
SOX Gas Emissions (Sulphur - Oxygen) :	Not reported
Facility ID :	58949
Air District Code :	SC
SIC Code :	9223
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 :	Y
Consolidated Emission Reporting Rule :	Not reported
Total Organic Hydrocarbon Gases :	Not reported
Reactive Organic Gases :	Not reported
Carbon Monoxide Emissions :	Not reported
NOX Gas Emissions (Nitrogen - Oxygen) :	Not reported

(Continued) S100279945

SOX Gas Emissions (Sulphur - Oxygen) : Not reported

K55
NE
> 1
11010 ft.

29300 THE OLD ROAD
VALENCIA, CA 91384

Database(s): CHMIRS
EDR ID Number: S100279260
EPA ID Number: N/A

Site 2 of 2 in cluster K

Relative: Higher

Actual: 1016 ft.

CHMIRS:

OES Control Number:	8905392
Chemical Name:	Not reported
Extent of Release:	Not reported
Property Use:	099
Incident Date:	29-MAR-89
Date Completed:	29-MAR-89
Time Completed :	1606
Agency Id Number :	19110
Agency Incident Number :	27
OES Incident Number :	8905392
Time Notified :	1446
Surrounding Area :	099
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 :	CAPT. JOHN W. EVERETT
Report Date :	29-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

(Continued) S100279260

56
NE
> 1
11020 ft.

DIXIE DIESEL STATION
29471 THE OLD ROAD
SAUGUS, CA 91350

Database(s): Cortese, LUST
EDR ID Number: S102428845
EPA ID Number: N/A

Relative: Higher

Actual: 1020 ft.

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	I-12830		
Reg Board:	4		
Chemical:	Diesel		
Lead Agency:	Local Agency		
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:	2/3/87	Prelim Assess:	2/3/87
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	6/20/30		
Monitoring:	Not reported		
Close Date:	11/30/1993		
Release Date:	04/06/1987		
Cleanup Fund Id :	Not reported		
Discover Date :	/ /		
Enforcement Dt :	1/1/65		
Enf Type:	Informal Enforcement Actions,including Notices of Violations and Staff Enforcement Letters		
Enter Date :	/ /		
Funding:	Federal Funds		
Staff Initials:	Not reported		
How Discovered:	Subsurface Monitoring		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	UNK		
Leak Source:	UNK		
MTBE Date :	/ /		
Max MTBE GW :	0 Parts per Billion		
MTBE Tested:	Not Required to be Tested.		
Priority:	Not reported		
Local Case # :	Not reported		
Beneficial:	Not reported		
Staff :	JLC		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	Not reported		
Operator :	Not reported		
Oversight Prgm:	Local Implementing Agency UST (includes non-LOP cases within LOP jurisdiction)		
Oversight Prgm :	LIA		
Review Date :	11/30/1993		
Stop Date :	/ /		
Work Suspended :	Not reported		
Responsible Party:	GORTIKOV/HASLEY PARTNERS, LTD		
RP Address:	15165 VENTURA BLVD, #230, SHERMAN OAKS, 91403		
Global Id:	T0603704004		
Org Name:	Not reported		

DIXIE DIESEL STATION (Continued) S102428845

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

LUST Region 4:
Report Date: 4/6/1987
Lead Agency: Local Agency
Local Agency: 19000
Case Number: I-12830
Substance: Diesel
Case Type: Groundwater
Status: Case Closed
Region: 4
Staff: Not reported

Source of Cleanup Funding:	Federal Funds
Date the Leak was Discovered:	Not reported
How the Leak was Discovered:	Subsurface Monitoring
How the Leak was Stopped:	Not reported
Cause of Leak:	Unknown
Leak Source:	Unknown
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	2/3/1987
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	6/20/1930
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	11/30/1993
Date Case Last Changed on Database:	11/30/1993
Enforcement Action Date:	Not reported
Date Leak First Reported:	4/6/1987
Enforcement Type:	IEA
Global ID :	T0603704004
Organization :	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
Regional Board:	04
Owner Contact: Not reported	
Responsible Party:	GORTIKOV/HASLEY PARTNERS, LTD
RP Address:	15165 VENTURA BLVD, #230, SHERMAN OAKS, 91403
Significant Interim Remedial Action Taken:	Not reported
Program :	LIA
Lat / Long :	34.4680232 / -118.4689948
MTBE Counts :	0
MTBE Fuel :	0
MTBE Tested :	NRQ
Local Agency Staff:	UNK
Summary :	2215 MG/KG TPH IN SOIL AT 10'. 5 MG/L TPH IN WATER

DIXIE DIESEL STATION (Continued) S102428845

2ND LEAK REPORTED 1/29/91

OLD CASE #021089-08

Hydrologic Basin # :	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:	Excavate and Dispose
Operator :	Not reported
Water System :	CLEVELAND NATIONAL FOREST
Well Name :	LPA REPORTED PRIMARY SOURCE
Approx. Dist To Production Well (ft) :	1452.033932136087145347 1030342
W Global ID :	W0607300028
Assigned Name :	3700028-001GEN
MTBE Class :	Not reported

CORTESE:
Region: CORTESE
Fac Address 2: 29471 THE OLD ROAD

L57
ENE
> 1
11058 ft.

Relative:
Higher

Actual:
1016 ft.

NEWHALL LAND & FARMING CO LOS ANGELES CO. HMS S102064571
28760 N CASTAIC CANYON RD Cortese N/A
VALENCIA, CA 91355 LUST

Site 1 of 2 in cluster L

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	I-05310		
Reg Board:	4		
Chemical:	Gasoline		
Lead Agency:	Local Agency		
Local Agency :	19000		
Case Type:	Soil only		
Status:	Case Closed		
Review Data:	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:	01/10/1990		
Release Date:	01/10/1990		
Cleanup Fund Id :	Not reported		
Discover Date :	/ /		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	01/22/1990		
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 :	/ /		

NEWHALL LAND & FARMING CO (Continued) S102064571

Max MTBE GW : 0 Parts per Billion
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Priority: Not reported
Local Case # : Not reported
Beneficial: Not reported
Staff : JLC
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: Not reported
Operator : Not reported
Oversight Prgm: Local Implementing Agency UST (Includes non-LOP cases within LOP jurisdiction)
Oversight Prgm : LIA
Review Date : 01/29/1990
Stop Date : / /
Work Suspended :Not reported
Responsible PartyNEWHALL LAND & FARMING
RP Address: 23823 VALENCIA BOULEVARD, VALENCIA, 91355
Global Id: T0603703062
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 1
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: 1/10/1990
Lead Agency: Local Agency
Local Agency: 19000
Case Number: I-05310
Substance: Gasoline
Case Type: Soil
Status: Case Closed
Region: 4
Staff: Not reported
Source of Cleanup Funding: Not reported
Date the Leak was Discovered: Not reported
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: 1/10/1990
Date Case Last Changed on Database: 1/29/1990
Enforcement Action Date: Not reported
Date Leak First Reported: 1/10/1990

NEWHALL LAND & FARMING CO (Continued) S102064571

Enforcement Type: Not reported
Global ID : T0603703062
Organization : 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
Regional Board: 04
Owner Contact: Not reported
Responsible Party: NEWHALL LAND & FARMING
RP Address: 23823 VALENCIA BOULEVARD, VALENCIA, 91355
Significant Interim Remedial Action Taken: Not reported
Program : LIA
Lat / Long : 34.4392614 / -118.6062849
MTBE Counts : 0
MTBE Fuel : 1
MTBE Tested : NT
Local Agency Staff: UNK
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 : Not reported
Substance Quantity : Not reported
Abatement Method Used at the Site: Not reported
Operator : Not reported
Water System : PETER PITCHESS HONOR RANCHO, LAC SHERIFF
Well Name : WELL 01A - INACTIVE
Approx. Dist To Production Well (ft) : 5154.170056466850371916246237 5
W Global ID : W0603700046
Assigned Name : 1900046-008
MTBE Class : Not reported

CORTESE:
Region: CORTESE
Fac Address 2: 28760 CASTAIC CANYON RD

HMS:
Facility Id: 005116-005310
Area: 7
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: Removed
Region: Los Angeles County:

Facility Id: 014173-014696
Area: 7
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: Removed
Region: Los Angeles County:

NEWHALL LAND & FARMING CO (Continued) S102064571

L58 ENE > 1 11175 ft.
Relative: Higher
Actual: 1016 ft.

TRI-R-TRUCKING Cortese S101298311
28748 CASTAIC CANYON RD LUST N/A
VALENCIA, CA 91355

Site 2 of 2 in cluster L

State LUST:

Cross Street:	THE OLD RD		
Qty Leaked:	Not reported		
Case Number	I-15245		
Reg Board:	4		
Chemical:	Diesel		
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:	10/11/1994		
Release Date:	10/29/1990		
Cleanup Fund Id :	Not reported		
Discover Date :	12/08/1989		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	12/05/1990		
Funding:	Federal Funds		
Staff Initials:	Not reported		
How Discovered:	Tank Closure		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	UNK		
Leak Source:	UNK		
MTBE Date :	/ /		
Max MTBE GW :	0 Parts per Billion		
MTBE Tested:	Not Required to be Tested.		
Priority:	Not reported		
Local Case # :	Not reported		
Beneficial:	Not reported		
Staff :	JLC		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	Not reported		
Operator :	JAMES, ED OLD CASE#120690-17		
Oversight Prgm:	Local Implementing Agency UST (includes non-LOP cases within LOP jurisdiction)		
Oversight Prgm :	LIA		
Review Date :	10/11/1994		
Stop Date :	12/08/1989		
Work Suspended :	Not reported		
Responsible Party	TRI-R TRUCKING		
RP Address:	28748 CASTIAC CYN RD, VALENCIA CA 91355		
Global Id:	T0603704280		
Org Name:	Not reported		
Contact Person:	Not reported		

TRI-R-TRUCKING (Continued) S101298311

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		

LUST Region 4:

Report Date:	10/29/1990
Lead Agency:	Local Agency
Local Agency:	19000
Case Number:	I-15245
Substance:	Diesel
Case Type:	Soil
Status:	Case Closed
Region:	4
Staff:	Not reported
Source of Cleanup Funding:	Federal Funds
Date the Leak was Discovered:	12/8/1989
How the Leak was Discovered:	Tank Closure
How the Leak was Stopped:	Close Tank
Cause of Leak:	Unknown
Leak Source:	Unknown
Date The Leak was Stopped:	12/8/1989
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:	10/11/1994
Date Case Last Changed on Database:	10/11/1994
Enforcement Action Date:	Not reported
Date Leak First Reported:	10/29/1990
Enforcement Type:	Not reported
Global ID :	T0603704280
Organization :	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
Regional Board:	04
Owner Contact:	Not reported
Responsible Party:	TRI-R TRUCKING
RP Address:	28748 CASTIAC CYN RD, VALENCIA CA 91355
Significant Interim Remedial Action Taken:	Not reported
Program :	LIA
Lat / Long :	34.4389004 / -118.6060599
MTBE Counts :	0
MTBE Fuel :	0
MTBE Tested :	NRQ
Local Agency Staff:	UNK
Summary :	Not reported
Hydrologic Basin # :	Not reported

TRI-R-TRUCKING (Continued) S101298311

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 :	JAMES, ED OLD CASE#120890-17
Water System :	PETER PITCHESS HONOR RANCHO, LAC SHERIFF
Well Name :	WELL 01A - INACTIVE
Approx. Dist To Production Well (ft) :	5301.736465194323767948137824 3
W Global ID :	W0603700046
Assigned Name :	1900046-008
MTBE Class :	Not reported

CORTESE:

Region:	CORTESE
Fac Address 2:	28748 CASTAIC CANYON RD

59
NE
> 1
11470 ft.

N/B I-5, CASTAIC INSP FACILITY CHMIRS S100279769
SANTA CLARITA, CA N/A

Relative:
Higher

Actual:
1039 ft.

CHMIRS:

OES Control Number:	9010073
Chemical Name:	Not reported
Extent of Release:	Not reported
Property Use:	099
Incident Date:	09-FEB-90
Date Completed:	09-FEB-90
Time Completed :	645
Agency Id Number :	66
Agency Incident Number :	90-027
OES Incident Number :	9010073
Time Notified :	15
Surrounding Area :	099
Estimated Temperature :	Not reported
Property Management :	S
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 :	L. ACEVEDO #8721

(Continued) S100279769

Report Date :	20-MAR-90
Comments :	Not reported
Facility Telephone Number :	916 327-3310
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

60
ENE
> 1
11471 ft.

CHEVRON STATION 9 1899 RCRIS-SQG 1000886345
28805 THE OLD RD FINDS CA0000138552
VALENCIA, CA 91355 Cortese

Relative:
Higher

Actual:
1019 ft.

RCRIS:

Owner:	CHEVRON U S A PRODUCTS CO (310) 694-7452
EPA ID:	CA0000138552
Contact:	RAMON J CRESSALL (805) 257-2584
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)

CORTESE:

Region:	CORTESE
Fac Address 2:	Not reported

61
NNE
> 1
13061 ft.

HASELY CYN 1MI NORTH OF THE OLD ROAD CHMIRS S100275931
CASTAIC, CA 91355 N/A

Relative:
Higher

Actual:
1047 ft.

CHMIRS:

OES Control Number:	9012379
Chemical Name:	Not reported
Extent of Release:	Not reported
Property Use:	Vacant Lot
Incident Date:	13-AUG-90
Date Completed:	13-AUG-90
Time Completed :	2115
Agency Id Number :	19110
Agency Incident Number :	A-65
OES Incident Number :	9012379
Time Notified :	1956

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	(Continued)		S100275931

Surrounding Area :	936
Estimated Temperature :	80
Property Management :	P
More Than Two Substances Involved? :	Y
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Y
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 :	MARTIN L. SCOTT #081235
Report Date :	13-AUG-90
Comments :	Yes
Facility Telephone Number :	213 267-2401
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

MAP FINDINGS - EDR PROPRIETARY HISTORICAL DATABASES

YEAR	NAME	ADDRESS	CITY	ST	DIR.	DIST.	ELEV.	TYPE

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.
EDR Historical Gas Station & Dry Cleaner Search: No mapped sites were found in EDR's search of the EDR Historical Gas Station & Dry Cleaner Database within 0.250 mile of the Target Property.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CANYON COUNTRY	S105774538	TWO WATER WELLS RESTORATION	SIERRA HWY. / ARLINE ST.	91355	CA WDS
CASTAIC	S105628449	SCHOOL ON 18 ACRE SITE	RIDGE ROUTE ROAD	91384	SCH
LOS ANGELES COUNTY	S105637568		BERTH 70, LONG BEACH HARBOUR		CHMIRS, HAZNET
LOS ANGELES COUNTY	S105641187		BERTH 30 LONG BEACH HARBOUR		CHMIRS, HAZNET
LOS ANGELES COUNTY	S105630661		FLORENCE AVE / TELEGRAPH RD WHITTIER		CHMIRS, LUST
SANTA CLARITA	S105774545	COMMERCE CENTER BRIDGE	HWY 126 / THE OLD ROAD	91355	CA WDS
SANTA CLARITA	S105774543	CASTAIC CREEK CHANNEL LINING	HWY. 126 / THE OLD ROAD	91355	CA WDS
SANTA CLARITA	S105774544	HWY. 126 BRIDGE	HWY. 126 / CASTAIC CREEK	91355	CA WDS
SANTA CLARITA	1005441285	DEPARTMENT OF TRANSPORTATION	RTE 5 MAGIC MOUNTAIN PKWY EXIT	91355	RCRIS-SQG, FINDS
SANTA CLARITA	S105774535	GOLDEN VALLEY ROAD EXTENSION	BETWEEN SIERRA HWY / SOLEDAD CYN RD	91355	CA WDS
SANTA CLARITA	S106085278	CSI CRIME SCENE INVESTIGATION	3 MILES N OF TEMPLIN HWY ON	91355	HAZNET
VALENCIA	S106089351	CALIFORNIA INSTITUTE OF THE ARTS	VY #147 MCBEAN PRKWY / HWY 5	91355	HAZNET
VALENCIA	1000119892	PPG INDUSTRIES INC WORKS 24	25663 W AVE STANFORD	91355	RCRIS-SQG, RCRIS-TSD, FINDS, CORRACTS, CERC-NFRAP, LOS ANGELES CO. HMS
VALENCIA	S103646510	PRODUCTION GOODBYE LOVER	25135 AVENUE ANZA	91355	HAZNET
VALENCIA	S103648520	LOS ANGELES COUNTY FIRE DEPT	27223 HENRY MAYO DR- STATION 76	91355	HAZNET
VALENCIA	S105090242	TECHNICAL TROUBLE SHOOTING	24932 KEARNY AVENUE	91355	HAZNET
VALENCIA	S105774562	WATER WELL NO. W-11	S MCBEAN / COPPERHILL DR	91355	CA WDS
VALENCIA	1006839028	HOWARD CUSTOM BOATS INCORPORATED	28113 STANFORD AVENUE	91355	FINDS, EMI, HAZNET
VALENCIA	S101480564	GRUBER SYSTEMS, INC	25636 STANFORD AVENUE	91355	REF

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: 10/21/03
Date Made Active at EDR: 12/08/03
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 11/03/03
Elapsed ASTM days: 35
Date of Last EDR Contact: 11/03/03

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
Source: EPA
Telephone: N/A

Date of Government Version: 10/14/03
Date Made Active at EDR: 12/08/03
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 12/01/03
Elapsed ASTM days: 7
Date of Last EDR Contact: 11/03/03

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: 09/11/03
Date Made Active at EDR: 10/29/03
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 09/24/03
Elapsed ASTM days: 35
Date of Last EDR Contact: 12/22/03

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: 09/11/03
Date Made Active at EDR: 10/29/03
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 09/24/03
Elapsed ASTM days: 35
Date of Last EDR Contact: 12/22/03

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/17/03
Date Made Active at EDR: 11/11/03
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 10/01/03
Elapsed ASTM days: 41
Date of Last EDR Contact: 12/08/03

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: 09/10/03
Date Made Active at EDR: 10/01/03
Database Release Frequency: Varies

Date of Data Arrival at EDR: 09/11/03
Elapsed ASTM days: 20
Date of Last EDR Contact: 11/18/03

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: 12/31/02
Date Made Active at EDR: 02/03/03
Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/27/03
Elapsed ASTM days: 7
Date of Last EDR Contact: 10/27/03

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: 12/16/03
Date of Next Scheduled EDR Contact: 03/15/04

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: 07/09/03
Database Release Frequency: Annually

Date of Last EDR Contact: 10/08/03
Date of Next Scheduled EDR Contact: 01/05/04

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: 10/21/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/03/03
Date of Next Scheduled EDR Contact: 02/02/04

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: 10/23/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/07/03
Date of Next Scheduled EDR Contact: 01/05/04

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: 08/11/03
Database Release Frequency: Annually

Date of Last EDR Contact: 10/23/03
Date of Next Scheduled EDR Contact: 01/19/04

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: 10/16/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/07/03
Date of Next Scheduled EDR Contact: 01/05/04

MINES: Mines Master Index File
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 08/27/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/29/03
Date of Next Scheduled EDR Contact: 03/29/04

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: 11/21/03
Date of Next Scheduled EDR Contact: 02/23/04

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: 09/30/03
Database Release Frequency: Annually

Date of Last EDR Contact: 11/12/03
Date of Next Scheduled EDR Contact: 02/09/04

DOD: Department of Defense Sites
Source: USGS
Telephone: 703-648-5920
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: 11/12/03
Date of Next Scheduled EDR Contact: 02/09/04

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

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: 07/15/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/17/03
Date of Next Scheduled EDR Contact: 03/15/04

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

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: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-260-1531
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: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

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: 10/20/03
Date of Next Scheduled EDR Contact: 01/19/04

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: 10/16/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

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: 10/20/03
Date of Next Scheduled EDR Contact: 01/19/04

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: 10/16/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

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: 11/30/03
Date Made Active at EDR: 01/08/04
Database Release Frequency: Annually

Date of Data Arrival at EDR: 12/01/03
Elapsed ASTM days: 38
Date of Last EDR Contact: 12/01/03

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: 11/30/03
Date Made Active at EDR: 01/08/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/01/03
Elapsed ASTM days: 38
Date of Last EDR Contact: 12/01/03

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: 11/24/03

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: 10/27/03

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: 10/20/03

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: 11/03/03

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: 11/14/03
Date Made Active at EDR: 01/08/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/16/03
Elapsed ASTM days: 23
Date of Last EDR Contact: 12/16/03

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: 12/09/03

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: 04/02/03
Date Made Active at EDR: 04/25/03
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 04/16/03
Elapsed ASTM days: 9
Date of Last EDR Contact: 10/14/03

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

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: 04/02/03
Date Made Active at EDR: 04/30/03
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 04/16/03
Elapsed ASTM days: 14
Date of Last EDR Contact: 10/14/03

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: 11/30/03
Date Made Active at EDR: 12/23/03
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 12/01/03
Elapsed ASTM days: 22
Date of Last EDR Contact: 12/01/03

INDIAN UST: Underground Storage Tanks on Indian Land
Source: EPA Region 9
Telephone: 415-972-3368

Date of Government Version: 12/05/03
Date Made Active at EDR: 01/08/04
Database Release Frequency: Varies
Date of Data Arrival at EDR: 12/05/03
Elapsed ASTM days: 34
Date of Last EDR Contact: 11/24/03

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: 07/01/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 11/03/03
Date of Next Scheduled EDR Contact: 02/02/04

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: 11/26/03
Database Release Frequency: Annually
Date of Last EDR Contact: 01/07/04
Date of Next Scheduled EDR Contact: 04/05/04

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CA WDS: Waste Discharge System
Source: State Water Resources Control Board
Telephone: 916-657-1571
Sites which have been issued waste discharge requirements.

Date of Government Version: 09/22/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

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: 10/07/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 10/08/03
Date of Next Scheduled EDR Contact: 01/05/04

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: 11/30/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/01/04

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: 12/31/01
Database Release Frequency: Varies
Date of Last EDR Contact: 10/20/03
Date of Next Scheduled EDR Contact: 01/19/04

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: 11/30/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/01/04

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: 11/30/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/01/04

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: 11/30/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/01/04

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: 11/11/03
Date of Next Scheduled EDR Contact: 02/09/04

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: 10/27/03
Date of Next Scheduled EDR Contact: 01/26/04

Underground Tanks
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

Date of Government Version: 07/03/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/27/03
Date of Next Scheduled EDR Contact: 01/26/04

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: 12/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/01/04

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: 10/07/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/08/03
Date of Next Scheduled EDR Contact: 02/09/04

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: 07/25/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/08/04

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: 11/21/03
Date of Next Scheduled EDR Contact: 02/16/04

City of El Segundo Underground Storage Tank
Source: City of El Segundo Fire Department
Telephone: 310-524-2236

Date of Government Version: 09/11/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/17/03
Date of Next Scheduled EDR Contact: 02/16/04

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: 11/24/03
Date of Next Scheduled EDR Contact: 02/23/04

City of Torrance Underground Storage Tank
Source: City of Torrance Fire Department
Telephone: 310-618-2973

Date of Government Version: 09/03/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/17/03
Date of Next Scheduled EDR Contact: 02/16/04

City of Los Angeles Landfills
Source: Engineering & Construction Division
Telephone: 213-473-7869

Date of Government Version: 03/01/02
Database Release Frequency: Varies

Date of Last EDR Contact: 12/16/03
Date of Next Scheduled EDR Contact: 03/15/04

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: 11/17/03
Date of Next Scheduled EDR Contact: 02/16/04

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: 01/07/03
Database Release Frequency: Annually

Date of Last EDR Contact: 11/17/03
Date of Next Scheduled EDR Contact: 02/16/04

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: 08/19/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/03/03
Date of Next Scheduled EDR Contact: 02/02/04

NAPA COUNTY:

Sites With Reported Contamination
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 10/02/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/29/03
Date of Next Scheduled EDR Contact: 03/29/04

Closed and Operating Underground Storage Tank Sites
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 10/02/03
Database Release Frequency: Annually

Date of Last EDR Contact: 12/29/03
Date of Next Scheduled EDR Contact: 03/29/04

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: 07/01/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/25/03
Date of Next Scheduled EDR Contact: 03/08/04

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: 09/02/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/19/03
Date of Next Scheduled EDR Contact: 03/08/04

List of Industrial Site Cleanups
Source: Health Care Agency
Telephone: 714-834-3446
Petroleum and non-petroleum spills.

Date of Government Version: 10/24/00
Database Release Frequency: Annually

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

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: 10/16/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

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: 06/03/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/20/03
Date of Next Scheduled EDR Contact: 01/19/04

Underground Storage Tank Tank List
Source: Health Services Agency
Telephone: 909-358-5055

Date of Government Version: 05/30/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/20/03
Date of Next Scheduled EDR Contact: 01/19/04

SACRAMENTO COUNTY:

CS - Contaminated Sites
Source: Sacramento County Environmental Management
Telephone: 916-875-8406

Date of Government Version: 07/17/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/03/03
Date of Next Scheduled EDR Contact: 02/02/04

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: 07/17/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/03/03
Date of Next Scheduled EDR Contact: 02/02/04

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: 09/30/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

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: 11/21/03
Date of Next Scheduled EDR Contact: 02/23/04

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: 10/07/03
Date of Next Scheduled EDR Contact: 01/05/04

SAN FRANCISCO COUNTY:

Local Oversite Facilities
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920

Date of Government Version: 12/09/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

Underground Storage Tank Information
Source: Department of Public Health
Telephone: 415-252-3920

Date of Government Version: 09/11/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

SAN MATEO COUNTY:

Fuel Leak List
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921

Date of Government Version: 11/24/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/27/03
Date of Next Scheduled EDR Contact: 01/26/04

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: 11/13/03
Database Release Frequency: Annually

Date of Last EDR Contact: 10/13/03
Date of Next Scheduled EDR Contact: 01/12/04

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report
Source: Santa Clara Valley Water District
Telephone: 408-265-2600

Date of Government Version: 07/02/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/29/03
Date of Next Scheduled EDR Contact: 03/29/04

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: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

SOLANO COUNTY:

Leaking Underground Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 08/21/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/16/03
Date of Next Scheduled EDR Contact: 03/15/04

Underground Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 08/21/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/18/03
Date of Next Scheduled EDR Contact: 03/15/04

SONOMA COUNTY:

Leaking Underground Storage Tank Sites
Source: Department of Health Services
Telephone: 707-565-6565

Date of Government Version: 10/01/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/27/03
Date of Next Scheduled EDR Contact: 01/26/04

SUTTER COUNTY:

Underground Storage Tanks
Source: Sutter County Department of Agriculture
Telephone: 530-822-7500

Date of Government Version: 07/01/01
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 01/05/04

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 — Date of Last EDR Contact: 11/26/03
Database Release Frequency: Annually — Date of Next Scheduled EDR Contact: 02/23/04

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: 09/26/03 — Date of Last EDR Contact: 12/16/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 03/15/04

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: 07/30/03 — Date of Last EDR Contact: 10/16/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 01/12/04

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: 09/02/03 — Date of Last EDR Contact: 12/16/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 03/15/04

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Source: Yolo County Department of Health
Telephone: 530-666-8646

Date of Government Version: 10/29/03 — Date of Last EDR Contact: 10/20/03
Database Release Frequency: Annually — Date of Next Scheduled EDR Contact: 01/19/04

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 — Date of Last EDR Contact: 11/21/03
Database Release Frequency: No Update Planned — Date of Next Scheduled EDR Contact: 02/23/04

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: 03/28/03 — Date of Last EDR Contact: 10/14/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 01/12/04

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 — Date of Last EDR Contact: 11/17/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 02/16/04

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: 08/09/01 — Date of Last EDR Contact: 12/31/03
Database Release Frequency: No Update Planned — Date of Next Scheduled EDR Contact: 03/29/04

LUST REG 5: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-255-3125

Date of Government Version: 07/01/03 — Date of Last EDR Contact: 10/16/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 01/05/04

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 — Date of Last EDR Contact: 12/08/03
Database Release Frequency: No Update Planned — Date of Next Scheduled EDR Contact: 03/08/04

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: 11/13/03 — Date of Last EDR Contact: 10/07/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 01/05/04

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: 07/02/02 — Date of Last EDR Contact: 12/29/03
Database Release Frequency: Semi-Annually — Date of Next Scheduled EDR Contact: 03/29/04

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: 09/16/03 — Date of Last EDR Contact: 11/12/03
Database Release Frequency: No Update Planned — Date of Next Scheduled EDR Contact: 02/09/04

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: 10/20/03
Date of Next Scheduled EDR Contact: 01/19/04

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: 11/21/03
Date of Next Scheduled EDR Contact: 02/23/04

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: 03/28/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/14/03
Date of Next Scheduled EDR Contact: 01/12/04

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: 11/17/03
Date of Next Scheduled EDR Contact: 02/16/04

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: 10/01/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/27/03
Date of Next Scheduled EDR Contact: 01/26/04

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: 10/20/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/07/03
Date of Next Scheduled EDR Contact: 01/05/04

SLIC REG 6L: SLIC Sites
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574

Date of Government Version: 09/09/03
Database Release Frequency: Varies

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

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: 05/08/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/07/03
Date of Next Scheduled EDR Contact: 01/05/04

SLIC REG 7: SLIC List
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491

Date of Government Version: 05/29/03
Database Release Frequency: Varies

Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 02/23/04

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: 10/20/03
Date of Next Scheduled EDR Contact: 01/05/04

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: 12/01/03
Database Release Frequency: Annually

Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/04/04

EDR PROPRIETARY HISTORICAL DATABASES

EDR Historical Gas Station and Dry Cleaners: EDR has searched select national collections of business directories and has collected listings of potential dry cleaner and gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning and gas station/filling station/service station establishments. The categories reviewed included, but were not limited to: *gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, dry cleaner, cleaners, laundry, laundromat, cleaning/laundry, wash & dry, etc.*

This information is meant to assist and complement environmental professionals in their conduct of environmental site assessments, and is not meant to be a substitute for a full historical investigation as defined in ASTM E1527. The information provided in this proprietary database may or may not be complete; i.e., the absence of a dry cleaner or gas station/filling station/service station site does not necessarily mean that such a site did not exist in the area covered by this report.

(A note on "dry cleaning" sites: it is not possible for EDR to differentiate between establishments that use PERC on-site as a cleaning solvent and sites that function simply as drop-off and pick-up locations or that are traditional wet cleaning/laundry facilities. Therefore, it is essential for environmental professionals to incorporate professional judgment in the evaluation of each site.)

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by 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.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

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: 11/30/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/01/04

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

GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

TENTATIVE TRACT MAP NO. 53108
WOLCOTT WAY/HENRY MAYO DRIVE
VALENCIA, CA 91355

TARGET PROPERTY COORDINATES

Latitude (North):	34.424301 - 34° 25' 27.5"
Longitude (West):	118.637299 - 118° 38' 14.3"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	349543.9
UTM Y (Meters):	3810222.8
Elevation:	958 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).

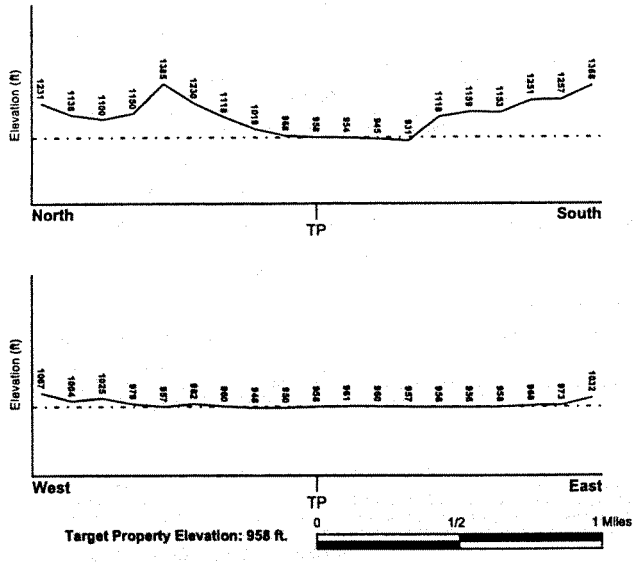
TOPOGRAPHIC INFORMATION

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-D6 VAL VERDE, CA
General Topographic Gradient:	General South
Source:	USGS 7.5 min quad index

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0650430340B

Additional Panels in search area: 0650430475B

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
VAL VERDE	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
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	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
No Wells Found		

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	4565	1/4 - 1/2 Mile ENE

STATE OIL/GAS WELL INFORMATION

DISTANCE FROM TP (Miles)	DISTANCE FROM TP (Miles)
2 - 3 Miles North	2 - 3 Miles North
2 - 3 Miles North	2 - 3 Miles North
2 - 3 Miles North	2 - 3 Miles North
2 - 3 Miles North	2 - 3 Miles North
2 - 3 Miles North	2 - 3 Miles North
2 - 3 Miles North	2 - 3 Miles North
2 - 3 Miles NNW	2 - 3 Miles North
2 - 3 Miles North	2 - 3 Miles NNW
2 - 3 Miles NNW	2 - 3 Miles NW
2 - 3 Miles NNE	2 - 3 Miles NNW
1 - 2 Miles North	2 - 3 Miles NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

DISTANCE FROM TP (Miles)
2 - 3 Miles NNW
2 - 3 Miles NE
1 - 2 Miles NNW
1 - 2 Miles NNW
1 - 2 Miles NNW
1 - 2 Miles North
1 - 2 Miles North
1 - 2 Miles NNE
1 - 2 Miles NNW
1 - 2 Miles NW
1 - 2 Miles WNW
1 - 2 Miles WNW
2 - 3 Miles WNW
2 - 3 Miles WNW
1/2 - 1 Mile NNW
1 - 2 Miles WNW
1 - 2 Miles ENE
1 - 2 Miles WNW
1 - 2 Miles WNW
1 - 2 Miles WNW
1 - 2 Miles ENE
2 - 3 Miles East
1 - 2 Miles East
2 - 3 Miles West
1 - 2 Miles West
1 - 2 Miles West
2 - 3 Miles West
2 - 3 Miles West
2 - 3 Miles West
1/2 - 1 Mile ENE
1 - 2 Miles West
2 - 3 Miles West
2 - 3 Miles West
2 - 3 Miles West
2 - 3 Miles West
1 - 2 Miles West
2 - 3 Miles West
1 - 2 Miles West
2 - 3 Miles West
2 - 3 Miles West
1 - 2 Miles West
2 - 3 Miles West
1 - 2 Miles East
1 - 2 Miles West
1 - 2 Miles West
1 - 2 Miles West
1/4 - 1/2 Mile East
2 - 3 Miles East
2 - 3 Miles West
1 - 2 Miles East
2 - 3 Miles West
1 - 2 Miles West
1 - 2 Miles West
1/4 - 1/2 Mile West

DISTANCE FROM TP (Miles)
2 - 3 Miles NNW
2 - 3 Miles NW
1 - 2 Miles NNW
2 - 3 Miles NNW
1 - 2 Miles NNW
2 - 3 Miles NE
1 - 2 Miles North
2 - 3 Miles WNW
2 - 3 Miles ENE
1 - 2 Miles NE
1 - 2 Miles WNW
1 - 2 Miles WNW
1/2 - 1 Mile NNW
1 - 2 Miles WNW
1 - 2 Miles ENE
2 - 3 Miles WNW
1 - 2 Miles WNW
1 - 2 Miles WNW
1/2 - 1 Mile NE
2 - 3 Miles West
1 - 2 Miles WNW
1/2 - 1 Mile ENE
1 - 2 Miles West
1 - 2 Miles East
2 - 3 Miles West
1 - 2 Miles West
1 - 2 Miles West
1 - 2 Miles West
1 - 2 Miles East
1 - 2 Miles West
1 - 2 Miles West
2 - 3 Miles West
2 - 3 Miles West
1 - 2 Miles West
2 - 3 Miles West
1 - 2 Miles West
1 - 2 Miles East
1 - 2 Miles East
1 - 2 Miles West
1 - 2 Miles East
2 - 3 Miles West
1/4 - 1/2 Mile ENE
1 - 2 Miles West
1 - 2 Miles West
2 - 3 Miles West
1 - 2 Miles West
2 - 3 Miles West
1 - 2 Miles West
2 - 3 Miles West
1/2 - 1 Mile East
2 - 3 Miles West
2 - 3 Miles West
2 - 3 Miles West
1/2 - 1 Mile West

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

DISTANCE FROM TP (Miles)
1/2 - 1 Mile West
1 - 2 Miles West
1 - 2 Miles West
2 - 3 Miles West
1 - 2 Miles West
2 - 3 Miles West
2 - 3 Miles West
2 - 3 Miles West
1 - 2 Miles East
1 - 2 Miles East
1 - 2 Miles ESE
2 - 3 Miles East
1/4 - 1/2 Mile South
1 - 2 Miles ESE
1 - 2 Miles ESE
1 - 2 Miles ESE
2 - 3 Miles West
1 - 2 Miles ESE
2 - 3 Miles ESE
1 - 2 Miles ESE
2 - 3 Miles WSW
1/2 - 1 Mile SE
1 - 2 Miles ESE
1/2 - 1 Mile SE
1 - 2 Miles ESE
1 - 2 Miles ESE
1 - 2 Miles ESE
2 - 3 Miles ESE
1 - 2 Miles ESE
1 - 2 Miles ESE
1 - 2 Miles SE
1 - 2 Miles SE
2 - 3 Miles ESE
1 - 2 Miles SE
2 - 3 Miles ESE
1 - 2 Miles SE
1 - 2 Miles ESE
1 - 2 Miles ESE
2 - 3 Miles ESE
2 - 3 Miles ESE
1 - 2 Miles SW
1 - 2 Miles SSW
1 - 2 Miles SSW
1 - 2 Miles SW
1 - 2 Miles SW
1 - 2 Miles SW
1 - 2 Miles SSW
1 - 2 Miles SSW
1 - 2 Miles SW
1 - 2 Miles SW
1 - 2 Miles SW
1 - 2 Miles South
1 - 2 Miles SSW
1 - 2 Miles SW
1 - 2 Miles SSW

DISTANCE FROM TP (Miles)
2 - 3 Miles West
0 - 1/8 Mile SSW
2 - 3 Miles West
1 - 2 Miles West
2 - 3 Miles West
2 - 3 Miles West
1 - 2 Miles East
1 - 2 Miles East
1 - 2 Miles East
1/2 - 1 Mile ESE
2 - 3 Miles West
2 - 3 Miles West
2 - 3 Miles West
1 - 2 Miles East
1/4 - 1/2 Mile SSW
2 - 3 Miles West
1/2 - 1 Mile ESE
1 - 2 Miles ESE
1/2 - 1 Mile SE
1 - 2 Miles ESE
2 - 3 Miles WSW
2 - 3 Miles WSW
1/2 - 1 Mile SE
1 - 2 Miles ESE
1/2 - 1 Mile SE
1/2 - 1 Mile SSE
1 - 2 Miles ESE
2 - 3 Miles ESE
1 - 2 Miles SW
1 - 2 Miles ESE
2 - 3 Miles WSW
1 - 2 Miles ESE
1 - 2 Miles ESE
1 - 2 Miles SE
2 - 3 Miles ESE
1 - 2 Miles SE
1 - 2 Miles SE
1 - 2 Miles SSW
1 - 2 Miles WSW
1 - 2 Miles WSW
1 - 2 Miles South
1 - 2 Miles SW
1 - 2 Miles SW
1 - 2 Miles SSW
1 - 2 Miles SW
1 - 2 Miles South
1 - 2 Miles South
1 - 2 Miles SE
1 - 2 Miles SW
1 - 2 Miles SSE
1 - 2 Miles SW
1 - 2 Miles SSW
1 - 2 Miles South
1 - 2 Miles SSW
1 - 2 Miles SSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

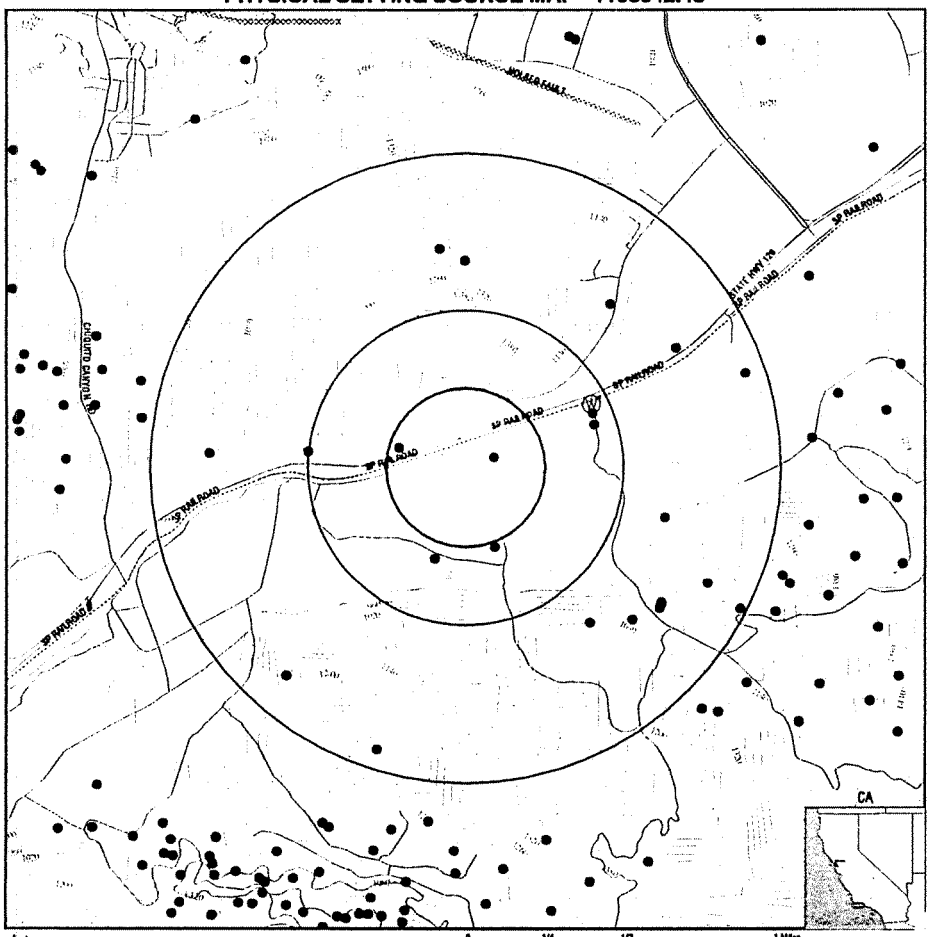
DISTANCE FROM TP (Miles)	DISTANCE FROM TP (Miles)
1 - 2 Miles SSE	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles SSW
1 - 2 Miles SE	1 - 2 Miles SSW
1 - 2 Miles SW	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles South
1 - 2 Miles SSW	1 - 2 Miles SSW
1 - 2 Miles South	1 - 2 Miles SSW
1 - 2 Miles SW	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles South
1 - 2 Miles SSE	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles South
1 - 2 Miles SSW	1 - 2 Miles SSE
1 - 2 Miles South	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles SSW
1 - 2 Miles South	1 - 2 Miles SSW
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles SSW	1 - 2 Miles South
1 - 2 Miles South	2 - 3 Miles SW
1 - 2 Miles South	1 - 2 Miles SSW
1 - 2 Miles South	1 - 2 Miles SSW
1 - 2 Miles SSE	1 - 2 Miles SSW
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles SSW	1 - 2 Miles South
1 - 2 Miles South	1 - 2 Miles SSW
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles SSW	1 - 2 Miles SSE
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles SSE	1 - 2 Miles South
1 - 2 Miles South	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles South
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles South	1 - 2 Miles South
2 - 3 Miles SSE	1 - 2 Miles SSE
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles South	2 - 3 Miles SSW
2 - 3 Miles South	1 - 2 Miles South
1 - 2 Miles South	2 - 3 Miles South
2 - 3 Miles SSE	2 - 3 Miles South
2 - 3 Miles South	2 - 3 Miles SSE
2 - 3 Miles SSE	2 - 3 Miles SSE
2 - 3 Miles South	2 - 3 Miles South
2 - 3 Miles South	2 - 3 Miles South
2 - 3 Miles SSE	2 - 3 Miles South
2 - 3 Miles South	2 - 3 Miles SSE
2 - 3 Miles South	2 - 3 Miles SSE
2 - 3 Miles SSE	2 - 3 Miles South
2 - 3 Miles South	2 - 3 Miles South
2 - 3 Miles SSE	2 - 3 Miles South

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

DISTANCE FROM TP (Miles)	DISTANCE FROM TP (Miles)
2 - 3 Miles SSE	2 - 3 Miles South
2 - 3 Miles South	2 - 3 Miles SSE
2 - 3 Miles South	2 - 3 Miles SSE
2 - 3 Miles South	2 - 3 Miles South
2 - 3 Miles South	2 - 3 Miles SSW
2 - 3 Miles SSE	2 - 3 Miles SSE
2 - 3 Miles SSE	2 - 3 Miles SSE

PHYSICAL SETTING SOURCE MAP - 1108642.4s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

TARGET PROPERTY:	Tentative Tract Map No. 53108	CUSTOMER:	Building Analytics
ADDRESS:	Wolcott Way/Henry Mayo Drive	CONTACT:	Joe Montoya
CITY/STATE/ZIP:	Valencia CA 91355	INQUIRY #:	1108642.4s
LAT/LONG:	34.4243 / 118.6373	DATE:	January 08, 2004 12:47 pm

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID / Direction / Distance / Elevation	Database	EDR ID Number
1 **ENE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**4565**

Water System Information:

Prime Station Code:	04N/17W-14Q07 S	User ID:	19C
FRDS Number:	1909014001	County:	Los Angeles
District Number:	49	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	342538.0 1183746.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL C-6		
System Number:	1909014		
System Name:	WALNUT HILL		
Organization That Operates System:	23823 VALENCIA VALENCIA, CA 91355		
Pop Served:	50	Connections:	10
Area Served:	Not Reported		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Direction / Distance | Database | EDR ID Number

North
2 - 3 Miles | **OIL_GAS** | **CA00010927**

Well Number:	5	Status:	Completed oil- directional
API Number:	03722953	Operator:	Petrominerals Corporation
Latitude:	34.459921	Longitude:	-118.636642
Region:	2	Lease:	Sadd
Section:	02	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | **OIL_GAS** | **CA00010926**

Well Number:	4	Status:	Completed oil- directional
API Number:	03722948	Operator:	Petrominerals Corporation
Latitude:	34.459793	Longitude:	-118.636673
Region:	2	Lease:	Sadd
Section:	02	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | **OIL_GAS** | **CA00011006**

Well Number:	7	Status:	Completed oil
API Number:	03722750	Operator:	Petrominerals Corporation
Latitude:	34.459727	Longitude:	-118.640970
Region:	2	Lease:	Burns Crist
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | **OIL_GAS** | **CA00011004**

Well Number:	5	Status:	001
API Number:	03724193	Operator:	Petrominerals Corporation
Latitude:	34.459573	Longitude:	-118.640939
Region:	2	Lease:	Burns Crist
Section:	03	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | **OIL_GAS** | **CA00010953**

Well Number:	1	Status:	Completed oil- directional
API Number:	03722739	Operator:	Petrominerals Corporation
Latitude:	34.458657	Longitude:	-118.639917
Region:	2	Lease:	Sadd
Section:	02	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | **OIL_GAS** | **CA00011005**

Well Number:	6	Status:	Completed oil
API Number:	03722740	Operator:	Petrominerals Corporation
Latitude:	34.458523	Longitude:	-118.641679
Region:	2	Lease:	Burns Crist
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | **OIL_GAS** | **CA00010925**

Well Number:	2	Status:	Completed oil
API Number:	03722940	Operator:	Petrominerals Corporation
Latitude:	34.458479	Longitude:	-118.639731
Region:	2	Lease:	Sadd
Section:	02	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | **OIL_GAS** | **CA00010950**

Well Number:	3	Status:	Completed oil- directional
API Number:	03722747	Operator:	Petrominerals Corporation
Latitude:	34.457277	Longitude:	-118.639759
Region:	2	Lease:	McGillivrae
Section:	02	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | OIL_GAS | CA00010948

Well Number:	9	Status:	001
API Number:	03724195	Operator:	Petrominerals Corporation
Latitude:	34.456633	Longitude:	-118.641273
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | OIL_GAS | CA00010941

Well Number:	10	Status:	001
API Number:	03724196	Operator:	Petrominerals Corporation
Latitude:	34.456607	Longitude:	-118.641520
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | OIL_GAS | CA00010946

Well Number:	7	Status:	Completed oil
API Number:	03722727	Operator:	Petrominerals Corporation
Latitude:	34.456428	Longitude:	-118.641365
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | OIL_GAS | CA00010947

Well Number:	8	Status:	001
API Number:	03724194	Operator:	Petrominerals Corporation
Latitude:	34.456353	Longitude:	-118.641056
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | OIL_GAS | CA00013454

Well Number:	17	Status:	Plugged and abandoned oil
API Number:	03707260	Operator:	G. R. Nance Co., Inc
Latitude:	34.456041	Longitude:	-118.656948
Region:	2	Lease:	Towle
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | OIL_GAS | CA00010949

Well Number:	2	Status:	Completed oil
API Number:	03722349	Operator:	Petrominerals Corporation
Latitude:	34.455897	Longitude:	-118.639788
Region:	2	Lease:	McGillivrae
Section:	02	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | OIL_GAS | CA00010945

Well Number:	6	Status:	Completed oil
API Number:	03722340	Operator:	Petrominerals Corporation
Latitude:	34.455253	Longitude:	-118.641239
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
2 - 3 Miles | OIL_GAS | CA00010966

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03721689	Operator:	Petrominerals Corporation
Latitude:	34.455147	Longitude:	-118.656791
Region:	2	Lease:	Hilgenfeld
Section:	03	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — OIL_GAS — CA00013495

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03707259	Operator:	Federal Oil Company
Latitude:	34.454320	Longitude:	-118.652337
Region:	2	Lease:	Federal-Towle
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NW
2 - 3 Miles — OIL_GAS — CA00010784

Well Number:	88-4	Status:	Plugged and abandoned oil
API Number:	03707261	Operator:	Porsco Operating Company
Latitude:	34.454295	Longitude:	-118.659325
Region:	2	Lease:	Claiborne
Section:	04	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNE
2 - 3 Miles — OIL_GAS — CA00015458

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03707262	Operator:	British-American Oil Prod Co
Latitude:	34.454254	Longitude:	-118.613133
Region:	2	Lease:	Wayside Honor Farm
Section:	01	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
2 - 3 Miles — OIL_GAS — CA00010943

Well Number:	4	Status:	Completed oil
API Number:	03722060	Operator:	Petrominerals Corporation
Latitude:	34.454010	Longitude:	-118.645937
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
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 — CA00010967

Well Number:	1	Status:	Completed oil
API Number:	03707258	Operator:	Petrominerals Corporation
Latitude:	34.453848	Longitude:	-118.641113
Region:	2	Lease:	Mabel E. Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
2 - 3 Miles — OIL_GAS — CA00010944

Well Number:	5	Status:	Plugged and abandoned-dry hole
API Number:	03722072	Operator:	Petrominerals Corporation
Latitude:	34.453826	Longitude:	-118.647420
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
2 - 3 Miles — OIL_GAS — CA00010940

Well Number:	2	Status:	Completed oil
API Number:	03721715	Operator:	Petrominerals Corporation
Latitude:	34.453634	Longitude:	-118.643833
Region:	2	Lease:	Mabel E. Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
2 - 3 Miles — OIL_GAS — CA00010942

Well Number:	3	Status:	Completed oil- directional
API Number:	03721805	Operator:	Petrominerals Corporation
Latitude:	34.453607	Longitude:	-118.644112
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
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

NE
2 - 3 Miles — OIL_GAS — CA00007344

Well Number:	27	Status:	Plugged and abandoned-dry hole
API Number:	03707281	Operator:	Vintage Petroleum Inc
Latitude:	34.453190	Longitude:	-118.610317
Region:	2	Lease:	Honor Rancho 'A' (NCT-1)
Section:	01	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NW
2 - 3 Miles — OIL_GAS — CA00013497

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705395	Operator:	Fernando Oil Company
Latitude:	34.452872	Longitude:	-118.657065
Region:	2	Lease:	Wel No.
Section:	10	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1 - 2 Miles — OIL_GAS — CA00012074

Well Number:	81X	Status:	Plugged and abandoned-dry hole
API Number:	03721466	Operator:	Montara Petroleum Company
Latitude:	34.452826	Longitude:	-118.641111
Region:	2	Lease:	Sterling
Section:	10	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1 - 2 Miles — OIL_GAS — CA00010933

Well Number:	2-10	Status:	Completed oil
API Number:	03721816	Operator:	Petrominerals Corporation
Latitude:	34.452744	Longitude:	-118.642502
Region:	2	Lease:	Sterling
Section:	10	Township:	04N
Range:	17W	Map Number:	253
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 Miles — OIL_GAS — CA00010932

Well Number:	1-10	Status:	Completed oil
API Number:	03721801	Operator:	Petrominerals Corporation
Latitude:	34.452663	Longitude:	-118.643893
Region:	2	Lease:	Sterling
Section:	10	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
2 - 3 Miles — OIL_GAS — CA00008486

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706205	Operator:	U. S. Natural Gas C & Manning
Latitude:	34.452622	Longitude:	-118.648222
Region:	2	Lease:	Strawn
Section:	10	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1 - 2 Miles — OIL_GAS — CA00015649

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705148	Operator:	Atlantic Oil Company
Latitude:	34.452428	Longitude:	-118.645253
Region:	2	Lease:	Strawn
Section:	10	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1 - 2 Miles — OIL_GAS — CA00013952

Well Number:	3-10	Status:	Plugged and abandoned oil
API Number:	03721871	Operator:	Decalta International Corp
Latitude:	34.450949	Longitude:	-118.644354
Region:	2	Lease:	Sterling
Section:	10	Township:	04N
Range:	17W	Map Number:	253
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** | **CA00009001**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706082	Operator:	Texaco E & P Inc
Latitude:	34.450430	Longitude:	-118.639127
Region:	2	Lease:	Fernando
Section:	11	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NE
2 - 3 Miles | **OIL_GAS** | **CA00008942**

Well Number:	D-3	Status:	Plugged and abandoned-dry hole
API Number:	03707300	Operator:	Texaco E & P Inc
Latitude:	34.447757	Longitude:	-118.604933
Region:	2	Lease:	Newhall
Section:	07	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** | **CA00008939**

Well Number:	B-1	Status:	Plugged and abandoned-dry hole
API Number:	03706107	Operator:	Texaco E & P Inc
Latitude:	34.444225	Longitude:	-118.630643
Region:	2	Lease:	Newhall
Section:	11	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
1 - 2 Miles | **OIL_GAS** | **CA00008940**

Well Number:	D-1	Status:	Plugged and abandoned-dry hole
API Number:	03706108	Operator:	Texaco E & P Inc
Latitude:	34.444098	Longitude:	-118.630303
Region:	2	Lease:	Newhall
Section:	11	Township:	04N
Range:	17W	Map Number:	253
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

NNE
1 - 2 Miles | **OIL_GAS** | **CA00008941**

Well Number:	D-2	Status:	Plugged and abandoned-dry hole
API Number:	03706109	Operator:	Texaco E & P Inc
Latitude:	34.444058	Longitude:	-118.619976
Region:	2	Lease:	Newhall
Section:	12	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
2 - 3 Miles | **OIL_GAS** | **CA00009857**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705882	Operator:	Shell Western E. & P. Inc.
Latitude:	34.443227	Longitude:	-118.667094
Region:	2	Lease:	Daugherty
Section:	09	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1 - 2 Miles | **OIL_GAS** | **CA00008973**

Well Number:	1	Status:	Plugged and abandoned-dry hole-directional
API Number:	03706091	Operator:	Texaco E & P Inc
Latitude:	34.443164	Longitude:	-118.648605
Region:	2	Lease:	Malis
Section:	10	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ENE
2 - 3 Miles | **OIL_GAS** | **CA00008944**

Well Number:	F-1	Status:	Plugged and abandoned-dry hole
API Number:	03706111	Operator:	Texaco E & P Inc
Latitude:	34.440622	Longitude:	-118.601451
Region:	2	Lease:	Newhall
Section:	07	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 - 2 Miles — OIL_GAS — CA00012519

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705621	Operator:	Marathon Oil Co
Latitude:	34.440369	Longitude:	-118.651382
Region:	2	Lease:	Mabel S. Henderson
Section:	10	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NE
1 - 2 Miles — OIL_GAS — CA00013561

Well Number:	B-1	Status:	Plugged and abandoned-dry hole
API Number:	03705490	Operator:	Exxon Corp
Latitude:	34.439071	Longitude:	-118.613720
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	12	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — OIL_GAS — CA00008923

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706117	Operator:	Texaco E & P Inc
Latitude:	34.438953	Longitude:	-118.661520
Region:	2	Lease:	Seaboard-So Cal Pet. Daugherty
Section:	09	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — OIL_GAS — CA00010509

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706664	Operator:	Rothschild Oil Company
Latitude:	34.438293	Longitude:	-118.660282
Region:	2	Lease:	Barbour
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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 — CA00011095

Well Number:	1-16	Status:	Plugged and abandoned-dry hole-directional
API Number:	03722947	Operator:	Pancandian Petroleum Co
Latitude:	34.437987	Longitude:	-118.659972
Region:	2	Lease:	N. L. & F.
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — OIL_GAS — CA00014987

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706671	Operator:	Chevron USA, Inc.
Latitude:	34.437767	Longitude:	-118.657127
Region:	2	Lease:	Boobier
Section:	15	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
2 - 3 Miles — OIL_GAS — CA00008784

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706631	Operator:	The British American Oil Prod
Latitude:	34.437578	Longitude:	-118.667330
Region:	2	Lease:	Kinler-So. Cal
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1/2 - 1 Mile — OIL_GAS — CA00010300

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03722056	Operator:	Santa Fe Energy Resources
Latitude:	34.434360	Longitude:	-118.637827
Region:	2	Lease:	N. L. & F.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — **OIL_GAS** — **CA00010278**

Well Number:	16-1	Status:	Plugged and abandoned-dry hole
API Number:	03706666	Operator:	Scope Industries
Latitude:	34.434221	Longitude:	-118.669889
Region:	2	Lease:	Kinler
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — **OIL_GAS** — **CA00016378**

Well Number:	1	Status:	Plugged and abandoned oil-directional
API Number:	03706629	Operator:	Amax Petroleum Corporation
Latitude:	34.434002	Longitude:	-118.666890
Region:	2	Lease:	Kinler
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1/2 - 1 Mile — **OIL_GAS** — **CA00013589**

Well Number:	55	Status:	Plugged and abandoned-dry hole
API Number:	03716518	Operator:	Exxon Corp
Latitude:	34.433828	Longitude:	-118.636435
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ENE
1 - 2 Miles — **OIL_GAS** — **CA00013576**

Well Number:	69	Status:	135
API Number:	03716528	Operator:	Exxon Corp
Latitude:	34.433372	Longitude:	-118.605058
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	18	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** — **CA00016403**

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03706626	Operator:	Amax Petroleum Corporation
Latitude:	34.433315	Longitude:	-118.665961
Region:	2	Lease:	Barbour
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
2 - 3 Miles — **OIL_GAS** — **CA00013452**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03721365	Operator:	G. R. Nance Co., Inc
Latitude:	34.433214	Longitude:	-118.672732
Region:	2	Lease:	Gallagher
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ENE
1 - 2 Miles — **OIL_GAS** — **CA00013538**

Well Number:	2	Status:	230
API Number:	03716535	Operator:	Exxon Corp
Latitude:	34.433129	Longitude:	-118.617295
Region:	2	Lease:	Newhall Land & Farming Co. 12
Section:	13	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — **OIL_GAS** — **CA00016404**

Well Number:	2	Status:	Plugged and abandoned oil
API Number:	03706627	Operator:	Amax Petroleum Corporation
Latitude:	34.432941	Longitude:	-118.663301
Region:	2	Lease:	Barbour
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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 — CA00016405

Well Number:	3	Status:	Plugged and abandoned oil
API Number:	03706628	Operator:	Amax Petroleum Corporation
Latitude:	34.432538	Longitude:	-118.661569
Region:	2	Lease:	Barbour
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — OIL_GAS — CA00015495

Well Number:	1-16	Status:	Plugged and abandoned-dry hole-directional
API Number:	03722707	Operator:	Black Hawk Resources Corp
Latitude:	34.432378	Longitude:	-118.663455
Region:	2	Lease:	N. L. & F.
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — OIL_GAS — CA00016379

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03706630	Operator:	Amax Petroleum Corporation
Latitude:	34.432286	Longitude:	-118.667690
Region:	2	Lease:	Kinler
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NE
1/2 - 1 Mile — OIL_GAS — CA00013578

Well Number:	70	Status:	Plugged and abandoned oil-directional
API Number:	03716529	Operator:	Exxon Corp
Latitude:	34.431838	Longitude:	-118.628381
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
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 — CA00011714

Well Number:	10	Status:	Completed oil
API Number:	03706728	Operator:	Nuevo Energy Company
Latitude:	34.430692	Longitude:	-118.663235
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00014523

Well Number:	5	Status:	Plugged and abandoned-dry hole
API Number:	03706681	Operator:	Chevron USA, Inc.
Latitude:	34.430390	Longitude:	-118.676467
Region:	2	Lease:	Sepulveda
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ENE
1 - 2 Miles — OIL_GAS — CA00013556

Well Number:	76	Status:	Plugged and abandoned oil-directional
API Number:	03716534	Operator:	Exxon Corp
Latitude:	34.430373	Longitude:	-118.608880
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	13	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — OIL_GAS — CA00014985

Well Number:	5	Status:	Plugged and abandoned-dry hole
API Number:	03706668	Operator:	Chevron USA, Inc.
Latitude:	34.430357	Longitude:	-118.656865
Region:	2	Lease:	Blair
Section:	15	Township:	04N
Range:	17W	Map Number:	253
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

East
2 - 3 Miles — OIL_GAS — CA00013553

Well Number:	73	Status:	137
API Number:	03716531	Operator:	Exxon Corp
Latitude:	34.429852	Longitude:	-118.596595
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	18	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 - 1 Mile — OIL_GAS — CA00013575

Well Number:	68	Status:	Plugged and abandoned oil
API Number:	03716527	Operator:	Exxon Corp
Latitude:	34.429832	Longitude:	-118.624709
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — OIL_GAS — CA00013573

Well Number:	66	Status:	Plugged and abandoned oil
API Number:	03701977	Operator:	Exxon Corp
Latitude:	34.429748	Longitude:	-118.604609
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	18	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 — CA00011698

Well Number:	4	Status:	Completed oil
API Number:	03706722	Operator:	Nuevo Energy Company
Latitude:	34.429525	Longitude:	-118.660914
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles — OIL_GAS — CA00012525

Well Number:	20	Status:	Completed gas
API Number:	03722026	Operator:	Marathon Oil Co
Latitude:	34.429188	Longitude:	-118.676589
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — OIL_GAS — CA00013580

Well Number:	72	Status:	Plugged and abandoned oil
API Number:	03716530	Operator:	Exxon Corp
Latitude:	34.429084	Longitude:	-118.612185
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	13	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — OIL_GAS — CA00011687

Well Number:	13	Status:	Completed oil
API Number:	03706731	Operator:	Nuevo Energy Company
Latitude:	34.429017	Longitude:	-118.659861
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00011929

Well Number:	3	Status:	Completed oil
API Number:	03706698	Operator:	Nuevo Energy Company
Latitude:	34.428991	Longitude:	-118.674486
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles | OIL_GAS | CA00011700

Well Number:	6	Status:	Completed oil
API Number:	03706724	Operator:	Nuevo Energy Company
Latitude:	34.428895	Longitude:	-118.665581
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles | OIL_GAS | CA00011691

Well Number:	17	Status:	Completed oil
API Number:	03706735	Operator:	Nuevo Energy Company
Latitude:	34.428859	Longitude:	-118.661129
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles | OIL_GAS | CA00011906

Well Number:	9	Status:	Completed oil
API Number:	03706704	Operator:	Nuevo Energy Company
Latitude:	34.428846	Longitude:	-118.672105
Region:	2	Lease:	Barnes
Section:	18	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles | OIL_GAS | CA00008178

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03706717	Operator:	Union Oil Company, Operator
Latitude:	34.428825	Longitude:	-118.656553
Region:	2	Lease:	Liebhart
Section:	15	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles | OIL_GAS | CA00012669

Well Number:	4-17	Status:	Completed oil
API Number:	03706643	Operator:	LBth Inc
Latitude:	34.428772	Longitude:	-118.678721
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles | OIL_GAS | CA00011672

Well Number:	7	Status:	Completed oil
API Number:	03706725	Operator:	Nuevo Energy Company
Latitude:	34.428739	Longitude:	-118.659057
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles | OIL_GAS | CA00012675

Well Number:	8-17	Status:	Completed oil
API Number:	03706647	Operator:	LBth Inc
Latitude:	34.428703	Longitude:	-118.676495
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles | OIL_GAS | CA00013579

Well Number:	71	Status:	169
API Number:	03706299	Operator:	Exxon Corp
Latitude:	34.428699	Longitude:	-118.601974
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	18	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

ENE
1/2 - 1 Mile — **OIL_GAS** — **CA00013574**

Well Number:	67	Status:	Plugged and abandoned oil
API Number:	03716526	Operator:	Exxon Corp
Latitude:	34.428670	Longitude:	-118.620842
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	13	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — **OIL_GAS** — **CA00011945**

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03706696	Operator:	Nuevo Energy Company
Latitude:	34.428605	Longitude:	-118.668116
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — **OIL_GAS** — **CA00011713**

Well Number:	1	Status:	Completed oil
API Number:	03706719	Operator:	Nuevo Energy Company
Latitude:	34.428597	Longitude:	-118.663200
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — **OIL_GAS** — **CA00011686**

Well Number:	12	Status:	Completed oil
API Number:	03706730	Operator:	Nuevo Energy Company
Latitude:	34.428564	Longitude:	-118.665148
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles — **OIL_GAS** — **CA00012691**

Well Number:	12-17	Status:	Completed oil
API Number:	03706651	Operator:	LBth Inc
Latitude:	34.428471	Longitude:	-118.677020
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00011946**

Well Number:	10	Status:	Plugged and abandoned-dry hole
API Number:	03706705	Operator:	Nuevo Energy Company
Latitude:	34.428430	Longitude:	-118.674083
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00011925**

Well Number:	19	Status:	Completed oil- directional
API Number:	03706714	Operator:	Nuevo Energy Company
Latitude:	34.428406	Longitude:	-118.673743
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00011920**

Well Number:	14	Status:	Completed oil- directional
API Number:	03706709	Operator:	Nuevo Energy Company
Latitude:	34.428353	Longitude:	-118.674392
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles — OIL_GAS — CA00011923

Well Number:	17	Status:	Completed oil
API Number:	03706712	Operator:	Nuevo Energy Company
Latitude:	34.428316	Longitude:	-118.670310
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — OIL_GAS — CA00008179

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03706718	Operator:	Union Oil Company, Operator
Latitude:	34.428295	Longitude:	-118.654387
Region:	2	Lease:	Liebhart
Section:	15	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00011931

Well Number:	5	Status:	Completed oil- directional
API Number:	03706700	Operator:	Nuevo Energy Company
Latitude:	34.428251	Longitude:	-118.674051
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00011947

Well Number:	11	Status:	026
API Number:	03706706	Operator:	Nuevo Energy Company
Latitude:	34.428225	Longitude:	-118.674299
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles — OIL_GAS — CA00011696

Well Number:	21	Status:	Completed oil
API Number:	03706739	Operator:	Nuevo Energy Company
Latitude:	34.428035	Longitude:	-118.663044
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — OIL_GAS — CA00011690

Well Number:	16	Status:	Completed oil
API Number:	03706734	Operator:	Nuevo Energy Company
Latitude:	34.427951	Longitude:	-118.665115
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00011927

Well Number:	20	Status:	Completed oil- directional
API Number:	03706715	Operator:	Nuevo Energy Company
Latitude:	34.427846	Longitude:	-118.673216
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — OIL_GAS — CA00013572

Well Number:	65	Status:	Plugged and abandoned oil-directional
API Number:	03716470	Operator:	Exxon Corp
Latitude:	34.427717	Longitude:	-118.665676
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	13	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles | OIL_GAS | CA00011689

Well Number:	15	Status:	Completed oil
API Number:	03706733	Operator:	Nuevo Energy Company
Latitude:	34.427627	Longitude:	-118.662672
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles | OIL_GAS | CA00011928

Well Number:	21	Status:	Completed oil- directional
API Number:	03706716	Operator:	Nuevo Energy Company
Latitude:	34.427530	Longitude:	-118.668454
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles | OIL_GAS | CA00011924

Well Number:	18	Status:	Completed oil
API Number:	03706713	Operator:	Nuevo Energy Company
Latitude:	34.427495	Longitude:	-118.671113
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles | OIL_GAS | CA00013570

Well Number:	63	Status:	Plugged and abandoned oil-directional
API Number:	03700147	Operator:	Exxon Corp
Latitude:	34.427308	Longitude:	-118.609028
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	13	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles | OIL_GAS | CA00012728

Well Number:	7	Status:	Completed oil
API Number:	03706669	Operator:	LBth Inc
Latitude:	34.427187	Longitude:	-118.656951
Region:	2	Lease:	Blair
Section:	15	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles | OIL_GAS | CA00011692

Well Number:	18	Status:	Completed oil
API Number:	03706736	Operator:	Nuevo Energy Company
Latitude:	34.427181	Longitude:	-118.658714
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles | OIL_GAS | CA00012694

Well Number:	15-17	Status:	Completed gas
API Number:	03706654	Operator:	LBth Inc
Latitude:	34.427042	Longitude:	-118.676337
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles | OIL_GAS | CA00013571

Well Number:	64	Status:	Plugged and abandoned oil
API Number:	03716525	Operator:	Exxon Corp
Latitude:	34.426960	Longitude:	-118.612985
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	13	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles — OIL_GAS — CA00011673

Well Number:	8	Status:	Completed oil
API Number:	03706726	Operator:	Nuevo Energy Company
Latitude:	34.426952	Longitude:	-118.665577
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00011930

Well Number:	4	Status:	Completed oil
API Number:	03706699	Operator:	Nuevo Energy Company
Latitude:	34.426911	Longitude:	-118.670122
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00012671

Well Number:	5-17	Status:	Plugged and abandoned oil
API Number:	03706644	Operator:	LBth Inc
Latitude:	34.426888	Longitude:	-118.676553
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ENE
1/4 - 1/2 Mile — OIL_GAS — CA00013560

Well Number:	9	Status:	Plugged and abandoned-dry hole
API Number:	03716480	Operator:	Exxon Corp
Latitude:	34.426825	Longitude:	-118.629340
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
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

East
1 - 2 Miles — OIL_GAS — CA00013567

Well Number:	60	Status:	Plugged and abandoned oil
API Number:	03705101	Operator:	Exxon Corp
Latitude:	34.426786	Longitude:	-118.600438
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	18	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 — CA00011688

Well Number:	14	Status:	Completed oil
API Number:	03706732	Operator:	Nuevo Energy Company
Latitude:	34.426778	Longitude:	-118.664989
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — OIL_GAS — CA00011699

Well Number:	5	Status:	Completed oil
API Number:	03706723	Operator:	Nuevo Energy Company
Latitude:	34.426782	Longitude:	-118.663227
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — OIL_GAS — CA00011694

Well Number:	2	Status:	Completed oil
API Number:	03706720	Operator:	Nuevo Energy Company
Latitude:	34.426764	Longitude:	-118.661155
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles — OIL_GAS — CA00011926

Well Number:	2	Status:	036
API Number:	03706697	Operator:	Nuevo Energy Company
Latitude:	34.426740	Longitude:	-118.667741
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00012698

Well Number:	19-17	Status:	Completed oil
API Number:	03706658	Operator:	LBth Inc
Latitude:	34.426701	Longitude:	-118.678872
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — OIL_GAS — CA00012727

Well Number:	27	Status:	Completed oil
API Number:	03706670	Operator:	LBth Inc
Latitude:	34.426609	Longitude:	-118.654353
Region:	2	Lease:	Blair
Section:	15	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — OIL_GAS — CA00011715

Well Number:	11	Status:	Completed oil
API Number:	03706729	Operator:	Nuevo Energy Company
Latitude:	34.426508	Longitude:	-118.661309
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

East
1/4 - 1/2 Mile — OIL_GAS — CA00013557

Well Number:	77	Status:	Plugged and abandoned-dry hole-directional
API Number:	03722047	Operator:	Exxon Corp
Latitude:	34.426314	Longitude:	-118.629247
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00011949

Well Number:	13	Status:	Completed oil
API Number:	03706708	Operator:	Nuevo Energy Company
Latitude:	34.426170	Longitude:	-118.670028
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
2 - 3 Miles — OIL_GAS — CA00013568

Well Number:	61	Status:	Plugged and abandoned oil-directional
API Number:	03716523	Operator:	Exxon Corp
Latitude:	34.425995	Longitude:	-118.595433
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	18	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 — CA00011693

Well Number:	19	Status:	Completed oil
API Number:	03706737	Operator:	Nuevo Energy Company
Latitude:	34.425971	Longitude:	-118.661185
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles — OIL_GAS — CA00011933

Well Number:	7	Status:	Completed oil- directional
API Number:	03706702	Operator:	Nuevo Energy Company
Latitude:	34.425940	Longitude:	-118.669904
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00011921

Well Number:	15	Status:	Completed oil- directional
API Number:	03706710	Operator:	Nuevo Energy Company
Latitude:	34.425719	Longitude:	-118.674696
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — OIL_GAS — CA00013593

Well Number:	59	Status:	Plugged and abandoned oil
API Number:	03716522	Operator:	Exxon Corp
Latitude:	34.425718	Longitude:	-118.603938
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	18	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1/2 - 1 Mile — OIL_GAS — CA00013592

Well Number:	58	Status:	Plugged and abandoned oil-directional
API Number:	03716521	Operator:	Exxon Corp
Latitude:	34.425693	Longitude:	-118.617125
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	13	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles — OIL_GAS — CA00011932

Well Number:	6	Status:	Completed oil
API Number:	03706701	Operator:	Nuevo Energy Company
Latitude:	34.425592	Longitude:	-118.674510
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00012676

Well Number:	9-17	Status:	Completed oil
API Number:	03706648	Operator:	LBth Inc
Latitude:	34.425577	Longitude:	-118.678622
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — OIL_GAS — CA00011695

Well Number:	20	Status:	Completed oil
API Number:	03706738	Operator:	Nuevo Energy Company
Latitude:	34.425524	Longitude:	-118.664770
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00012692

Well Number:	13-17	Status:	Completed oil- directional
API Number:	03706652	Operator:	LBth Inc
Latitude:	34.425457	Longitude:	-118.676674
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles

OIL_GAS CA00011934

Well Number:	8	Status:	036
API Number:	03706703	Operator:	Nuevo Energy Company
Latitude:	34.425331	Longitude:	-118.668913
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles

OIL_GAS CA00012693

Well Number:	14-17	Status:	Plugged and abandoned oil
API Number:	03706653	Operator:	LBth Inc
Latitude:	34.425278	Longitude:	-118.676873
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1/4 - 1/2 Mile

OIL_GAS CA00013584

Well Number:	50	Status:	Plugged and abandoned oil
API Number:	03716515	Operator:	Exxon Corp
Latitude:	34.425228	Longitude:	-118.640066
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1/2 - 1 Mile

OIL_GAS CA00008933

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706695	Operator:	Texaco E & P Inc
Latitude:	34.425057	Longitude:	-118.645105
Region:	2	Lease:	Newhall
Section:	15	Township:	04N
Range:	17W	Map Number:	253
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

West
1/2 - 1 Mile

OIL_GAS CA00013672

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706638	Operator:	Exxon Corp
Latitude:	34.424987	Longitude:	-118.650578
Region:	2	Lease:	Castaic Junction Gas Unit #1
Section:	15	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles

OIL_GAS CA00011948

Well Number:	12	Status:	Completed oil
API Number:	03706707	Operator:	Nuevo Energy Company
Latitude:	34.424829	Longitude:	-118.673426
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles

OIL_GAS CA00011674

Well Number:	9	Status:	Plugged and abandoned oil
API Number:	03706727	Operator:	Nuevo Energy Company
Latitude:	34.424807	Longitude:	-118.665325
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
0 - 1/8 Mile

OIL_GAS CA00013634

Well Number:	2	Status:	Plugged and abandoned oil-directional
API Number:	03716473	Operator:	Exxon Corp
Latitude:	34.424787	Longitude:	-118.634809
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles — **OIL_GAS** — **CA00011697**

Well Number:	3	Status:	Plugged and abandoned-dry hole
API Number:	03706721	Operator:	Nuevo Energy Company
Latitude:	34.424703	Longitude:	-118.658585
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00012695**

Well Number:	16-17	Status:	Completed oil
API Number:	03706655	Operator:	LBth Inc
Latitude:	34.424691	Longitude:	-118.676394
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00011922**

Well Number:	16	Status:	Oil well converted to water disposal
API Number:	03706711	Operator:	Nuevo Energy Company
Latitude:	34.424482	Longitude:	-118.670519
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — **OIL_GAS** — **CA00012672**

Well Number:	6	Status:	Completed oil
API Number:	03706694	Operator:	LBth Inc
Latitude:	34.423361	Longitude:	-118.668513
Region:	2	Lease:	Vasquez
Section:	21	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles — **OIL_GAS** — **CA00013236**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706634	Operator:	Havenstrite Oil Co
Latitude:	34.423300	Longitude:	-118.658934
Region:	2	Lease:	Vasquez
Section:	21	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00012700**

Well Number:	3	Status:	Completed oil
API Number:	03706691	Operator:	LBth Inc
Latitude:	34.423283	Longitude:	-118.671345
Region:	2	Lease:	Vasquez
Section:	21	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00008995**

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03706633	Operator:	Texaco E & P Inc
Latitude:	34.423258	Longitude:	-118.676515
Region:	2	Lease:	Encinas Fee
Section:	20	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00014377**

Well Number:	4	Status:	Plugged and abandoned oil-directional
API Number:	03706692	Operator:	Chevron USA, Inc.
Latitude:	34.423186	Longitude:	-118.671558
Region:	2	Lease:	Vasquez
Section:	21	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles

OIL_GAS CA00012699

Well Number:	2-17	Status:	Completed oil
API Number:	03706690	Operator:	LBth Inc
Latitude:	34.422999	Longitude:	-118.673648
Region:	2	Lease:	Vasquez
Section:	21	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles

OIL_GAS CA00013621

Well Number:	33	Status:	Plugged and abandoned oil
API Number:	03716503	Operator:	Exxon Corp
Latitude:	34.422943	Longitude:	-118.612414
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles

OIL_GAS CA00012670

Well Number:	5	Status:	Completed oil- directional
API Number:	03706693	Operator:	LBth Inc
Latitude:	34.422886	Longitude:	-118.673919
Region:	2	Lease:	Vasquez
Section:	21	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles

OIL_GAS CA00013599

Well Number:	39	Status:	136
API Number:	03706409	Operator:	Exxon Corp
Latitude:	34.422889	Longitude:	-118.614261
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
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

East
1 - 2 Miles

OIL_GAS CA00013630

Well Number:	16	Status:	Plugged and abandoned oil
API Number:	03716487	Operator:	Exxon Corp
Latitude:	34.422344	Longitude:	-118.608066
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles

OIL_GAS CA00013601

Well Number:	40	Status:	Plugged and abandoned oil
API Number:	03716507	Operator:	Exxon Corp
Latitude:	34.422263	Longitude:	-118.609969
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles

OIL_GAS CA00013622

Well Number:	34	Status:	Plugged and abandoned oil
API Number:	03716504	Operator:	Exxon Corp
Latitude:	34.422208	Longitude:	-118.604877
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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 - 1 Mile

OIL_GAS CA00013623

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03716472	Operator:	Exxon Corp
Latitude:	34.422040	Longitude:	-118.625317
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
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 — CA00013626

Well Number:	12	Status:	Plugged and abandoned oil
API Number:	03716483	Operator:	Exxon Corp
Latitude:	34.421679	Longitude:	-118.617297
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00014213

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706632	Operator:	Conoco Inc
Latitude:	34.421566	Longitude:	-118.678243
Region:	2	Lease:	Newhall
Section:	20	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
2 - 3 Miles — OIL_GAS — CA00014751

Well Number:	6	Status:	Plugged and abandoned-dry hole
API Number:	03716536	Operator:	Chevron USA, Inc.
Latitude:	34.420819	Longitude:	-118.596350
Region:	2	Lease:	Newhall Land & Farming
Section:	19	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
2 - 3 Miles — OIL_GAS — CA00008706

Well Number:	2	Status:	Plugged and abandoned oil
API Number:	03706663	Operator:	The Newhall Land & Farming Co
Latitude:	34.420664	Longitude:	-118.671385
Region:	2	Lease:	Socal
Section:	21	Township:	04N
Range:	17W	Map Number:	253
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
1/4 - 1/2 Mile — OIL_GAS — CA00013606

Well Number:	45	Status:	Plugged and abandoned-dry hole
API Number:	03716511	Operator:	Exxon Corp
Latitude:	34.420650	Longitude:	-118.634767
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00008705

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03706662	Operator:	The Newhall Land & Farming Co
Latitude:	34.420525	Longitude:	-118.673550
Region:	2	Lease:	Socal
Section:	21	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013614

Well Number:	27	Status:	Plugged and abandoned oil
API Number:	03716498	Operator:	Exxon Corp
Latitude:	34.420239	Longitude:	-118.614736
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — OIL_GAS — CA00013616

Well Number:	29	Status:	136
API Number:	03706300	Operator:	Exxon Corp
Latitude:	34.420225	Longitude:	-118.600935
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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 CA00013631

Well Number:	17	Status:	Plugged and abandoned oil
API Number:	03716488	Operator:	Exxon Corp
Latitude:	34.420220	Longitude:	-118.606611
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1/4 - 1/2 Mile

OIL_GAS CA00013588

Well Number:	54	Status:	Plugged and abandoned-dry hole-directional
API Number:	03716517	Operator:	Exxon Corp
Latitude:	34.420122	Longitude:	-118.636090
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles

OIL_GAS CA00013628

Well Number:	14	Status:	Plugged and abandoned oil
API Number:	03716485	Operator:	Exxon Corp
Latitude:	34.419900	Longitude:	-118.612093
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles

OIL_GAS CA00012701

Well Number:	12-20	Status:	Completed oil- directional
API Number:	03722746	Operator:	LBth Inc
Latitude:	34.419879	Longitude:	-118.678301
Region:	2	Lease:	N. L. & F.
Section:	20	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles

OIL_GAS CA00012702

Well Number:	14-20	Status:	Completed oil
API Number:	03729957	Operator:	LBth Inc
Latitude:	34.419675	Longitude:	-118.678146
Region:	2	Lease:	N. L. & F.
Section:	20	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1/2 - 1 Mile

OIL_GAS CA00013594

Well Number:	6	Status:	Plugged and abandoned oil
API Number:	03716477	Operator:	Exxon Corp
Latitude:	34.419343	Longitude:	-118.618768
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles

OIL_GAS CA00013635

Well Number:	20	Status:	Plugged and abandoned oil
API Number:	03716491	Operator:	Exxon Corp
Latitude:	34.419305	Longitude:	-118.603759
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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 CA00013620

Well Number:	32	Status:	Plugged and abandoned oil
API Number:	03716502	Operator:	Exxon Corp
Latitude:	34.419300	Longitude:	-118.608938
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles

OIL_GAS CA00013595

Well Number:	35	Status:	Plugged and abandoned oil
API Number:	03716505	Operator:	Exxon Corp
Latitude:	34.419067	Longitude:	-118.598330
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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 - 1 Mile

OIL_GAS CA00013624

Well Number:	10	Status:	Plugged and abandoned oil
API Number:	03716481	Operator:	Exxon Corp
Latitude:	34.418972	Longitude:	-118.622942
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles

OIL_GAS CA00013612

Well Number:	25	Status:	136
API Number:	03716496	Operator:	Exxon Corp
Latitude:	34.418950	Longitude:	-118.618369
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles

OIL_GAS CA00013559

Well Number:	8	Status:	Plugged and abandoned oil
API Number:	03716479	Operator:	Exxon Corp
Latitude:	34.418401	Longitude:	-118.616208
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
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

WSW
2 - 3 Miles

OIL_GAS CA00007251

Well Number:	8-20	Status:	Completed oil
API Number:	03722323	Operator:	Vintage Petroleum Inc
Latitude:	34.418247	Longitude:	-118.677247
Region:	2	Lease:	N. L. & F.
Section:	20	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WSW
2 - 3 Miles

OIL_GAS CA00007269

Well Number:	11-20	Status:	Completed oil- directional
API Number:	03722738	Operator:	Vintage Petroleum Inc
Latitude:	34.418095	Longitude:	-118.676968
Region:	2	Lease:	N. L. & F.
Section:	20	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1/2 - 1 Mile

OIL_GAS CA00013590

Well Number:	56	Status:	Plugged and abandoned oil-directional
API Number:	03716519	Operator:	Exxon Corp
Latitude:	34.418097	Longitude:	-118.625511
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WSW
2 - 3 Miles

OIL_GAS CA00007247

Well Number:	4-20	Status:	Drilling-Idle
API Number:	03722308	Operator:	Vintage Petroleum Inc
Latitude:	34.418068	Longitude:	-118.677339
Region:	2	Lease:	N. L. & F.
Section:	20	Township:	04N
Range:	17W	Map Number:	253
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 — CA00013627

Well Number:	13	Status:	Plugged and abandoned oil
API Number:	03716484	Operator:	Exxon Corp
Latitude:	34.418069	Longitude:	-118.607116
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1/2 - 1 Mile — OIL_GAS — CA00013607

Well Number:	46	Status:	Plugged and abandoned oil
API Number:	03716512	Operator:	Exxon Corp
Latitude:	34.417857	Longitude:	-118.625595
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1/2 - 1 Mile — OIL_GAS — CA00013603

Well Number:	42	Status:	Plugged and abandoned gas
API Number:	03716509	Operator:	Exxon Corp
Latitude:	34.417819	Longitude:	-118.621121
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013617

Well Number:	3	Status:	Plugged and abandoned oil
API Number:	03716474	Operator:	Exxon Corp
Latitude:	34.417690	Longitude:	-118.619161
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
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 — CA00013636

Well Number:	21	Status:	Plugged and abandoned oil
API Number:	03716492	Operator:	Exxon Corp
Latitude:	34.417500	Longitude:	-118.602317
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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 - 1 Mile — OIL_GAS — CA00013586

Well Number:	52	Status:	137
API Number:	03716516	Operator:	Exxon Corp
Latitude:	34.417322	Longitude:	-118.627121
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013629

Well Number:	15	Status:	Plugged and abandoned oil
API Number:	03716486	Operator:	Exxon Corp
Latitude:	34.417226	Longitude:	-118.610494
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1/2 - 1 Mile — OIL_GAS — CA00013591

Well Number:	57	Status:	Plugged and abandoned-dry hole-directional
API Number:	03716520	Operator:	Exxon Corp
Latitude:	34.417166	Longitude:	-118.629478
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
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 — CA00013613

Well Number:	26	Status:	Plugged and abandoned oil
API Number:	03716497	Operator:	Exxon Corp
Latitude:	34.416961	Longitude:	-118.613448
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013600

Well Number:	4	Status:	Plugged and abandoned oil
API Number:	03716475	Operator:	Exxon Corp
Latitude:	34.416748	Longitude:	-118.604866
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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
2 - 3 Miles — OIL_GAS — CA00013596

Well Number:	36	Status:	Plugged and abandoned oil
API Number:	03706353	Operator:	Exxon Corp
Latitude:	34.416730	Longitude:	-118.594291
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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
2 - 3 Miles — OIL_GAS — CA00013619

Well Number:	31	Status:	Plugged and abandoned oil-directional
API Number:	03716501	Operator:	Exxon Corp
Latitude:	34.416720	Longitude:	-118.598237
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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 — CA00013577

Well Number:	7	Status:	Plugged and abandoned oil
API Number:	03716478	Operator:	Exxon Corp
Latitude:	34.416152	Longitude:	-118.608730
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — OIL_GAS — CA00010738

Well Number:	1	Status:	Plugged and abandoned-dry hole-directional
API Number:	03722352	Operator:	Quintana Petroleum Corp
Latitude:	34.414731	Longitude:	-118.646321
Region:	2	Lease:	NL&F-Trifield
Section:	22	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013583

Well Number:	5	Status:	Plugged and abandoned oil
API Number:	03716476	Operator:	Exxon Corp
Latitude:	34.414706	Longitude:	-118.612305
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013633

Well Number:	19	Status:	Plugged and abandoned oil
API Number:	03716490	Operator:	Exxon Corp
Latitude:	34.414621	Longitude:	-118.603049
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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

SE
1 - 2 Miles — OIL_GAS — CA00013632

Well Number:	18	Status:	Plugged and abandoned oil
API Number:	03716489	Operator:	Exxon Corp
Latitude:	34.414409	Longitude:	-118.620771
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WSW
2 - 3 Miles — OIL_GAS — CA00010733

Well Number:	1-21	Status:	Plugged and abandoned oil-directional
API Number:	03722347	Operator:	Quintana Petroleum Corp
Latitude:	34.414386	Longitude:	-118.675377
Region:	2	Lease:	N. L. & F.
Section:	21	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles — OIL_GAS — CA00013610

Well Number:	23	Status:	Plugged and abandoned oil
API Number:	03716494	Operator:	Exxon Corp
Latitude:	34.414335	Longitude:	-118.616708
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013611

Well Number:	24	Status:	Plugged and abandoned oil
API Number:	03716495	Operator:	Exxon Corp
Latitude:	34.413945	Longitude:	-118.605969
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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
2 - 3 Miles — OIL_GAS — CA00013615

Well Number:	28	Status:	Plugged and abandoned oil
API Number:	03716499	Operator:	Exxon Corp
Latitude:	34.413946	Longitude:	-118.600944
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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 — CA00013646

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03706359	Operator:	Exxon Corp
Latitude:	34.413921	Longitude:	-118.609888
Region:	2	Lease:	Newhall Corporation
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles — OIL_GAS — CA00013625

Well Number:	11	Status:	Plugged and abandoned oil
API Number:	03716482	Operator:	Exxon Corp
Latitude:	34.413576	Longitude:	-118.613921
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles — OIL_GAS — CA00013558

Well Number:	78	Status:	Plugged and abandoned-dry hole
API Number:	03722728	Operator:	Exxon Corp
Latitude:	34.413208	Longitude:	-118.623247
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — OIL_GAS — CA00013618

Well Number:	30	Status:	Plugged and abandoned oil
API Number:	03716500	Operator:	Exxon Corp
Latitude:	34.413191	Longitude:	-118.598683
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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
2 - 3 Miles — OIL_GAS — CA00013597

Well Number:	37	Status:	Plugged and abandoned oil
API Number:	03713506	Operator:	Exxon Corp
Latitude:	34.413175	Longitude:	-118.596309
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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 — CA00013587

Well Number:	53	Status:	136
API Number:	03706358	Operator:	Exxon Corp
Latitude:	34.413070	Longitude:	-118.622358
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles — OIL_GAS — CA00013609

Well Number:	22	Status:	136
API Number:	03716493	Operator:	Exxon Corp
Latitude:	34.412628	Longitude:	-118.617868
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
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 — CA00013602

Well Number:	41	Status:	Plugged and abandoned oil
API Number:	03716508	Operator:	Exxon Corp
Latitude:	34.412374	Longitude:	-118.603543
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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 — CA00013647

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03716471	Operator:	Exxon Corp
Latitude:	34.412161	Longitude:	-118.612355
Region:	2	Lease:	Newhall Corporation
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013648

Well Number:	3	Status:	Plugged and abandoned oil
API Number:	03706298	Operator:	Exxon Corp
Latitude:	34.411406	Longitude:	-118.606614
Region:	2	Lease:	Newhall Corporation
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — OIL_GAS — CA00011180

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03712619	Operator:	Oryx Energy Co.
Latitude:	34.411341	Longitude:	-118.641297
Region:	2	Lease:	Newhall Land and Farming
Section:	22	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — **OIL_GAS** — **CA00013581**

Well Number:	48	Status:	Plugged and abandoned oil
API Number:	03716513	Operator:	Exxon Corp
Latitude:	34.411173	Longitude:	-118.598564
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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** — **CA00008951**

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03712659	Operator:	Texaco E & P Inc
Latitude:	34.410582	Longitude:	-118.664094
Region:	2	Lease:	N. L. & F.
Section:	21	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
2 - 3 Miles — **OIL_GAS** — **CA00013582**

Well Number:	49	Status:	Plugged and abandoned oil
API Number:	03716514	Operator:	Exxon Corp
Latitude:	34.410224	Longitude:	-118.599815
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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** — **CA00008950**

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03712658	Operator:	Texaco E & P Inc
Latitude:	34.409984	Longitude:	-118.662582
Region:	2	Lease:	N. L. & F.
Section:	21	Township:	04N
Range:	17W	Map Number:	253
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

SW
1 - 2 Miles — **OIL_GAS** — **CA00008934**

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03712660	Operator:	Texaco E & P Inc
Latitude:	34.409727	Longitude:	-118.656815
Region:	2	Lease:	Newhall
Section:	22	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012400**

Well Number:	152	Status:	Plugged and abandoned oil
API Number:	03712654	Operator:	Medallion Calif Prpts Co
Latitude:	34.408044	Longitude:	-118.638431
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012416**

Well Number:	142	Status:	136
API Number:	03712895	Operator:	Medallion Calif Prpts Co
Latitude:	34.407981	Longitude:	-118.644284
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — **OIL_GAS** — **CA00011167**

Well Number:	134	Status:	136
API Number:	03712888	Operator:	Oryx Energy Co.
Latitude:	34.407966	Longitude:	-118.653138
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00012393**

Well Number:	145	Status:	136
API Number:	03712898	Operator:	Medallion Calif Prpts Co
Latitude:	34.407775	Longitude:	-118.643927
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — **OIL_GAS** — **CA00011135**

Well Number:	62	Status:	Plugged and abandoned oil
API Number:	03712875	Operator:	Oryx Energy Co.
Latitude:	34.407770	Longitude:	-118.657084
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — **OIL_GAS** — **CA00011160**

Well Number:	104	Status:	136
API Number:	03713283	Operator:	Oryx Energy Co.
Latitude:	34.407720	Longitude:	-118.658997
Region:	2	Lease:	Rancho San Francisco
Section:	28	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011168**

Well Number:	135	Status:	Plugged and abandoned oil
API Number:	03712889	Operator:	Oryx Energy Co.
Latitude:	34.407668	Longitude:	-118.640469
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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

SW
1 - 2 Miles — **OIL_GAS** — **CA00011144**

Well Number:	86	Status:	Plugged and abandoned oil
API Number:	03713265	Operator:	Oryx Energy Co.
Latitude:	34.407367	Longitude:	-118.654801
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — **OIL_GAS** — **CA00012359**

Well Number:	66	Status:	036
API Number:	03710663	Operator:	Medallion Calif Prpts Co
Latitude:	34.407327	Longitude:	-118.650194
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — **OIL_GAS** — **CA00012370**

Well Number:	41	Status:	Plugged and abandoned oil
API Number:	03712855	Operator:	Medallion Calif Prpts Co
Latitude:	34.407234	Longitude:	-118.652701
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012396**

Well Number:	148	Status:	Completed oil
API Number:	03710658	Operator:	Medallion Calif Prpts Co
Latitude:	34.407218	Longitude:	-118.631878
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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 | CA00012402

Well Number:	154	Status:	Completed oil
API Number:	03712656	Operator:	Medallion Calif Prpts Co
Latitude:	34.406719	Longitude:	-118.641473
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | OIL_GAS | CA00012416

Well Number:	144	Status:	036
API Number:	03712897	Operator:	Medallion Calif Prpts Co
Latitude:	34.406710	Longitude:	-118.636999
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles | OIL_GAS | CA00012431

Well Number:	127	Status:	Completed oil
API Number:	03712881	Operator:	Medallion Calif Prpts Co
Latitude:	34.406675	Longitude:	-118.646809
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles | OIL_GAS | CA00011122

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706028	Operator:	Oryx Energy Co.
Latitude:	34.406603	Longitude:	-118.608929
Region:	2	Lease:	Sunray-McCulloch NCS
Section:	25	Township:	04N
Range:	17W	Map Number:	253
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

SW
1 - 2 Miles | OIL_GAS | CA00012442

Well Number:	111	Status:	Completed oil
API Number:	03713290	Operator:	Medallion Calif Prpts Co
Latitude:	34.406594	Longitude:	-118.653065
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles | OIL_GAS | CA00012421

Well Number:	116	Status:	Completed oil
API Number:	03713295	Operator:	Medallion Calif Prpts Co
Latitude:	34.406485	Longitude:	-118.652590
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles | OIL_GAS | CA00012394

Well Number:	146	Status:	Completed oil
API Number:	03712899	Operator:	Medallion Calif Prpts Co
Latitude:	34.406463	Longitude:	-118.650544
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1 - 2 Miles | OIL_GAS | CA00011172

Well Number:	155	Status:	Plugged and abandoned oil
API Number:	03712657	Operator:	Oryx Energy Co.
Latitude:	34.406209	Longitude:	-118.626209
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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

SW
1 - 2 Miles — **OIL_GAS** — **CA00012439**

Well Number:	107	Status:	Completed oil
API Number:	03713286	Operator:	Medallion Calif Prpts Co
Latitude:	34.406113	Longitude:	-118.650383
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — **OIL_GAS** — **CA00011158**

Well Number:	56	Status:	Plugged and abandoned oil
API Number:	03712868	Operator:	Oryx Energy Co.
Latitude:	34.406045	Longitude:	-118.654267
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012415**

Well Number:	141	Status:	Completed oil
API Number:	03712894	Operator:	Medallion Calif Prpts Co
Latitude:	34.405879	Longitude:	-118.634270
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011162**

Well Number:	110	Status:	Plugged and abandoned oil
API Number:	03713289	Operator:	Oryx Energy Co.
Latitude:	34.405769	Longitude:	-118.649093
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00012428**

Well Number:	124	Status:	Completed oil
API Number:	03712878	Operator:	Medallion Calif Prpts Co
Latitude:	34.405729	Longitude:	-118.644447
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012429**

Well Number:	125	Status:	Completed oil
API Number:	03712879	Operator:	Medallion Calif Prpts Co
Latitude:	34.405673	Longitude:	-118.636915
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — **OIL_GAS** — **CA00012389**

Well Number:	27	Status:	Plugged and abandoned oil
API Number:	03712645	Operator:	Medallion Calif Prpts Co
Latitude:	34.405593	Longitude:	-118.652138
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012391**

Well Number:	29	Status:	Completed oil
API Number:	03712647	Operator:	Medallion Calif Prpts Co
Latitude:	34.405587	Longitude:	-118.650284
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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 — CA00012373

Well Number:	45	Status:	Completed oil
API Number:	03712858	Operator:	Medallion Calif Prpts Co
Latitude:	34.405456	Longitude:	-118.647783
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — OIL_GAS — CA00012374

Well Number:	47	Status:	036
API Number:	03712860	Operator:	Medallion Calif Prpts Co
Latitude:	34.405450	Longitude:	-118.645909
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1 - 2 Miles — OIL_GAS — CA00012395

Well Number:	147	Status:	036
API Number:	03712900	Operator:	Medallion Calif Prpts Co
Latitude:	34.405297	Longitude:	-118.629468
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — OIL_GAS — CA00012423

Well Number:	119	Status:	Completed oil
API Number:	03713297	Operator:	Medallion Calif Prpts Co
Latitude:	34.405276	Longitude:	-118.639661
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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 — CA00012419

Well Number:	114	Status:	Completed oil
API Number:	03713293	Operator:	Medallion Calif Prpts Co
Latitude:	34.405266	Longitude:	-118.647463
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — OIL_GAS — CA00012412

Well Number:	137	Status:	Completed oil
API Number:	03712890	Operator:	Medallion Calif Prpts Co
Latitude:	34.404787	Longitude:	-118.647592
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles — OIL_GAS — CA00012462

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705637	Operator:	Mcor Oil and Gas Corporation
Latitude:	34.404634	Longitude:	-118.610344
Region:	2	Lease:	McCulloch NC
Section:	25	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — OIL_GAS — CA00011169

Well Number:	138	Status:	Plugged and abandoned oil
API Number:	03712891	Operator:	Oryx Energy Co.
Latitude:	34.404547	Longitude:	-118.641614
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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

SW
1 - 2 Miles — **OIL_GAS** — **CA00011164**

Well Number:	121	Status:	Plugged and abandoned oil
API Number:	03700071	Operator:	Oryx Energy Co.
Latitude:	34.404364	Longitude:	-118.652213
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012411**

Well Number:	136	Status:	Idle oil
API Number:	03706405	Operator:	Medallion Calif Prpts Co
Latitude:	34.404333	Longitude:	-118.648944
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012385**

Well Number:	23	Status:	Idle oil
API Number:	03712642	Operator:	Medallion Calif Prpts Co
Latitude:	34.404289	Longitude:	-118.648162
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012426**

Well Number:	122	Status:	Completed oil
API Number:	03713299	Operator:	Medallion Calif Prpts Co
Latitude:	34.404277	Longitude:	-118.635216
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00012436**

Well Number:	102	Status:	Completed oil
API Number:	03713282	Operator:	Medallion Calif Prpts Co
Latitude:	34.404219	Longitude:	-118.646290
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011132**

Well Number:	59	Status:	136
API Number:	03712871	Operator:	Oryx Energy Co.
Latitude:	34.403982	Longitude:	-118.639738
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012410**

Well Number:	132	Status:	108
API Number:	03712886	Operator:	Medallion Calif Prpts Co
Latitude:	34.403961	Longitude:	-118.631592
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012390**

Well Number:	28	Status:	Completed oil
API Number:	03712646	Operator:	Medallion Calif Prpts Co
Latitude:	34.403889	Longitude:	-118.645343
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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

SW
1 - 2 Miles — **OIL_GAS** — **CA00011136**

Well Number:	63	Status:	Plugged and abandoned oil
API Number:	03712876	Operator:	Oryx Energy Co.
Latitude:	34.403850	Longitude:	-118.652649
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012443**

Well Number:	112	Status:	036
API Number:	03713291	Operator:	Medallion Calif Prpts Co
Latitude:	34.403810	Longitude:	-118.642229
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011155**

Well Number:	48	Status:	136
API Number:	03712861	Operator:	Oryx Energy Co.
Latitude:	34.403796	Longitude:	-118.641751
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012387**

Well Number:	25	Status:	108
API Number:	03712644	Operator:	Medallion Calif Prpts Co
Latitude:	34.403766	Longitude:	-118.650434
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00012440**

Well Number:	108	Status:	Completed oil
API Number:	03713287	Operator:	Medallion Calif Prpts Co
Latitude:	34.403720	Longitude:	-118.641008
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011154**

Well Number:	46	Status:	Plugged and abandoned oil
API Number:	03712859	Operator:	Oryx Energy Co.
Latitude:	34.403691	Longitude:	-118.643456
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012355**

Well Number:	58	Status:	Completed oil
API Number:	03712870	Operator:	Medallion Calif Prpts Co
Latitude:	34.403614	Longitude:	-118.643000
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011138**

Well Number:	75	Status:	Plugged and abandoned oil
API Number:	03713254	Operator:	Oryx Energy Co.
Latitude:	34.403439	Longitude:	-118.639869
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00011165**

Well Number:	131	Status:	Plugged and abandoned oil
API Number:	03712885	Operator:	Oryx Energy Co.
Latitude:	34.403208	Longitude:	-118.644255
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012332**

Well Number:	97	Status:	036
API Number:	03713277	Operator:	Medallion Calif Prpts Co
Latitude:	34.403133	Longitude:	-118.637277
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1 - 2 Miles — **OIL_GAS** — **CA00012417**

Well Number:	143	Status:	Completed oil
API Number:	03712896	Operator:	Medallion Calif Prpts Co
Latitude:	34.402996	Longitude:	-118.626936
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012444**

Well Number:	113	Status:	108
API Number:	03713292	Operator:	Medallion Calif Prpts Co
Latitude:	34.402974	Longitude:	-118.645075
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00012425**

Well Number:	120	Status:	Completed oil
API Number:	03713298	Operator:	Medallion Calif Prpts Co
Latitude:	34.402959	Longitude:	-118.639979
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012407**

Well Number:	129	Status:	Plugged and abandoned oil
API Number:	03712883	Operator:	Medallion Calif Prpts Co
Latitude:	34.402778	Longitude:	-118.637995
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011170**

Well Number:	140	Status:	Plugged and abandoned oil
API Number:	03712893	Operator:	Oryx Energy Co.
Latitude:	34.402426	Longitude:	-118.650340
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1 - 2 Miles — **OIL_GAS** — **CA00011179**

Well Number:	6-7	Status:	Plugged and abandoned oil
API Number:	03712618	Operator:	Oryx Energy Co.
Latitude:	34.402421	Longitude:	-118.623989
Region:	2	Lease:	Newhall Corp.-Wolfson
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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 Miles | OIL_GAS | CA00012377

Well Number:	52	Status:	136
API Number:	03712865	Operator:	Medallion Calif Prpts Co
Latitude:	34.402382	Longitude:	-118.637472
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles | OIL_GAS | CA00012382

Well Number:	20	Status:	Plugged and abandoned oil
API Number:	03712639	Operator:	Medallion Calif Prpts Co
Latitude:	34.402287	Longitude:	-118.646443
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles | OIL_GAS | CA00012383

Well Number:	21	Status:	Completed oil
API Number:	03712640	Operator:	Medallion Calif Prpts Co
Latitude:	34.402204	Longitude:	-118.641034
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles | OIL_GAS | CA00011173

Well Number:	17	Status:	Plugged and abandoned oil
API Number:	03712636	Operator:	Oryx Energy Co.
Latitude:	34.402171	Longitude:	-118.644209
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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 Miles | OIL_GAS | CA00012365

Well Number:	72	Status:	Completed oil
API Number:	03713251	Operator:	Medallion Calif Prpts Co
Latitude:	34.402078	Longitude:	-118.637615
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles | OIL_GAS | CA00012388

Well Number:	26	Status:	046
API Number:	03700069	Operator:	Medallion Calif Prpts Co
Latitude:	34.402025	Longitude:	-118.650858
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | OIL_GAS | CA00012358

Well Number:	65	Status:	Completed oil
API Number:	03713245	Operator:	Medallion Calif Prpts Co
Latitude:	34.402027	Longitude:	-118.635092
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | OIL_GAS | CA00011142

Well Number:	84	Status:	136
API Number:	03713263	Operator:	Oryx Energy Co.
Latitude:	34.402023	Longitude:	-118.632798
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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 | CA00012386

Well Number:	24	Status:	Completed oil
API Number:	03712643	Operator:	Medallion Calif Prpts Co
Latitude:	34.401942	Longitude:	-118.648270
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | OIL_GAS | CA00012379

Well Number:	54	Status:	Completed oil
API Number:	03712866	Operator:	Medallion Calif Prpts Co
Latitude:	34.401892	Longitude:	-118.639475
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | OIL_GAS | CA00012372

Well Number:	44	Status:	Completed oil
API Number:	03712775	Operator:	Medallion Calif Prpts Co
Latitude:	34.401655	Longitude:	-118.639119
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
2 - 3 Miles | OIL_GAS | CA00011166

Well Number:	133	Status:	Plugged and abandoned-dry hole
API Number:	03712887	Operator:	Oryx Energy Co.
Latitude:	34.401605	Longitude:	-118.657611
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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 Miles | OIL_GAS | CA00012420

Well Number:	115	Status:	Completed oil
API Number:	03713294	Operator:	Medallion Calif Prpts Co
Latitude:	34.401452	Longitude:	-118.635262
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles | OIL_GAS | CA00012435

Well Number:	101	Status:	Completed gas
API Number:	03713281	Operator:	Medallion Calif Prpts Co
Latitude:	34.401368	Longitude:	-118.642110
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | OIL_GAS | CA00012441

Well Number:	109	Status:	Completed oil
API Number:	03713288	Operator:	Medallion Calif Prpts Co
Latitude:	34.401373	Longitude:	-118.632033
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles | OIL_GAS | CA00011145

Well Number:	98	Status:	136
API Number:	03713278	Operator:	Oryx Energy Co.
Latitude:	34.401273	Longitude:	-118.647984
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00011174**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03712813	Operator:	Oryx Energy Co.
Latitude:	34.401215	Longitude:	-118.625593
Region:	2	Lease:	Newhall Corp.-Wolfson
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012398**

Well Number:	150	Status:	Completed oil
API Number:	03712652	Operator:	Medallion Calif Prpts Co
Latitude:	34.400628	Longitude:	-118.643242
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00011159**

Well Number:	57	Status:	136
API Number:	03712869	Operator:	Oryx Energy Co.
Latitude:	34.400633	Longitude:	-118.633068
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012378**

Well Number:	53	Status:	Completed oil
API Number:	03700070	Operator:	Medallion Calif Prpts Co
Latitude:	34.400601	Longitude:	-118.639246
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00012408**

Well Number:	13	Status:	Completed oil
API Number:	03712632	Operator:	Medallion Calif Prpts Co
Latitude:	34.400556	Longitude:	-118.641637
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012406**

Well Number:	128	Status:	Completed oil
API Number:	03712882	Operator:	Medallion Calif Prpts Co
Latitude:	34.400510	Longitude:	-118.635290
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00011141**

Well Number:	8	Status:	Plugged and abandoned oil
API Number:	03712627	Operator:	Oryx Energy Co.
Latitude:	34.400424	Longitude:	-118.639481
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012380**

Well Number:	19	Status:	Completed oil
API Number:	03712638	Operator:	Medallion Calif Prpts Co
Latitude:	34.400273	Longitude:	-118.643826
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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 Miles — OIL_GAS — CA00011171

Well Number:	15	Status:	Plugged and abandoned oil
API Number:	03712634	Operator:	Oryx Energy Co.
Latitude:	34.400228	Longitude:	-118.637345
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — OIL_GAS — CA00012344

Well Number:	80	Status:	Completed oil
API Number:	03713259	Operator:	Medallion Calif Prpts Co
Latitude:	34.400233	Longitude:	-118.630250
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — OIL_GAS — CA00012375

Well Number:	50	Status:	Plugged and abandoned oil
API Number:	03712863	Operator:	Medallion Calif Prpts Co
Latitude:	34.400173	Longitude:	-118.635511
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — OIL_GAS — CA00012422

Well Number:	118	Status:	Completed gas
API Number:	03713296	Operator:	Medallion Calif Prpts Co
Latitude:	34.400144	Longitude:	-118.637997
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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 — CA00012384

Well Number:	22	Status:	Plugged and abandoned oil
API Number:	03712641	Operator:	Medallion Calif Prpts Co
Latitude:	34.400086	Longitude:	-118.646126
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1 - 2 Miles — OIL_GAS — CA00011143

Well Number:	85	Status:	136
API Number:	03713264	Operator:	Oryx Energy Co.
Latitude:	34.400023	Longitude:	-118.627790
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — OIL_GAS — CA00012364

Well Number:	71	Status:	Completed oil
API Number:	03713250	Operator:	Medallion Calif Prpts Co
Latitude:	34.399995	Longitude:	-118.636071
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — OIL_GAS — CA00011134

Well Number:	61	Status:	Plugged and abandoned oil
API Number:	03712873	Operator:	Oryx Energy Co.
Latitude:	34.399819	Longitude:	-118.633035
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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 | CA00011175

Well Number:	2-7	Status:	Plugged and abandoned oil
API Number:	03712614	Operator:	Oryx Energy Co.
Latitude:	34.399762	Longitude:	-118.625771
Region:	2	Lease:	Newhall Corp.-Wolfson
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | OIL_GAS | CA00012427

Well Number:	123	Status:	Completed oil
API Number:	03713300	Operator:	Medallion Calif Prpts Co
Latitude:	34.399348	Longitude:	-118.631520
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | OIL_GAS | CA00012437

Well Number:	105	Status:	Completed oil
API Number:	03713284	Operator:	Medallion Calif Prpts Co
Latitude:	34.399089	Longitude:	-118.635275
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles | OIL_GAS | CA00012330

Well Number:	95	Status:	Completed oil
API Number:	03713275	Operator:	Medallion Calif Prpts Co
Latitude:	34.399072	Longitude:	-118.644607
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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 | CA00011146

Well Number:	30	Status:	Plugged and abandoned oil
API Number:	03712648	Operator:	Oryx Energy Co.
Latitude:	34.398936	Longitude:	-118.643101
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles | OIL_GAS | CA00012346

Well Number:	82	Status:	Oil well converted to water disposal
API Number:	03713261	Operator:	Medallion Calif Prpts Co
Latitude:	34.398705	Longitude:	-118.644657
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles | OIL_GAS | CA00012404

Well Number:	16	Status:	Completed oil
API Number:	03712635	Operator:	Medallion Calif Prpts Co
Latitude:	34.398624	Longitude:	-118.641791
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | OIL_GAS | CA00011161

Well Number:	11	Status:	Plugged and abandoned oil
API Number:	03712630	Operator:	Oryx Energy Co.
Latitude:	34.398612	Longitude:	-118.635003
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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 Miles | OIL_GAS | CA00012354

Well Number:	55	Status:	134
API Number:	03712867	Operator:	Medallion Calif Prpts Co
Latitude:	34.398571	Longitude:	-118.630682
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | OIL_GAS | CA00011157

Well Number:	5	Status:	Plugged and abandoned oil
API Number:	03712624	Operator:	Oryx Energy Co.
Latitude:	34.398424	Longitude:	-118.637341
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | OIL_GAS | CA00012361

Well Number:	69	Status:	Completed oil
API Number:	03712348	Operator:	Medallion Calif Prpts Co
Latitude:	34.398417	Longitude:	-118.632561
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | OIL_GAS | CA00011140

Well Number:	79	Status:	136
API Number:	03713258	Operator:	Oryx Energy Co.
Latitude:	34.398406	Longitude:	-118.628660
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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 Miles | OIL_GAS | CA00012405

Well Number:	18	Status:	Plugged and abandoned oil
API Number:	03712637	Operator:	Medallion Calif Prpts Co
Latitude:	34.398318	Longitude:	-118.633195
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | OIL_GAS | CA00012352

Well Number:	90	Status:	Completed oil
API Number:	03713269	Operator:	Medallion Calif Prpts Co
Latitude:	34.398310	Longitude:	-118.640767
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | OIL_GAS | CA00011133

Well Number:	6	Status:	Plugged and abandoned oil
API Number:	03712625	Operator:	Oryx Energy Co.
Latitude:	34.398284	Longitude:	-118.639583
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | OIL_GAS | CA00012341

Well Number:	74	Status:	Completed gas
API Number:	03713253	Operator:	Medallion Calif Prpts Co
Latitude:	34.397992	Longitude:	-118.637507
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — **OIL_GAS** — **CA00011176**

Well Number:	3-5	Status:	Plugged and abandoned oil
API Number:	03712615	Operator:	Oryx Energy Co.
Latitude:	34.397752	Longitude:	-118.619935
Region:	2	Lease:	Newhall Corp.-Wolfson
Section:	25	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1 - 2 Miles — **OIL_GAS** — **CA00012347**

Well Number:	83	Status:	Completed oil
API Number:	03713262	Operator:	Medallion Calif Prpts Co
Latitude:	34.397611	Longitude:	-118.625051
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012430**

Well Number:	126	Status:	Completed oil
API Number:	03712880	Operator:	Medallion Calif Prpts Co
Latitude:	34.397520	Longitude:	-118.630159
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00011185**

Well Number:	4	Status:	Plugged and abandoned oil
API Number:	03712823	Operator:	Oryx Energy Co.
Latitude:	34.397141	Longitude:	-118.635448
Region:	2	Lease:	Ranch San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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 Miles — **OIL_GAS** — **CA00012327**

Well Number:	92	Status:	Completed oil
API Number:	03713272	Operator:	Medallion Calif Prpts Co
Latitude:	34.396986	Longitude:	-118.634592
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
2 - 3 Miles — **OIL_GAS** — **CA00012351**

Well Number:	9	Status:	Plugged and abandoned oil
API Number:	03712628	Operator:	Medallion Calif Prpts Co
Latitude:	34.396931	Longitude:	-118.641918
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles — **OIL_GAS** — **CA00012356**

Well Number:	60	Status:	136
API Number:	03712872	Operator:	Medallion Calif Prpts Co
Latitude:	34.396745	Longitude:	-118.628691
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012376**

Well Number:	51	Status:	Completed oil
API Number:	03712864	Operator:	Medallion Calif Prpts Co
Latitude:	34.396733	Longitude:	-118.630947
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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 Miles — OIL_GAS — CA00011183

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03712620	Operator:	Oryx Energy Co.
Latitude:	34.396683	Longitude:	-118.637431
Region:	2	Lease:	Ranch San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles — OIL_GAS — CA00012362

Well Number:	7	Status:	Completed oil
API Number:	03712626	Operator:	Medallion Calif Prpts Co
Latitude:	34.396671	Longitude:	-118.639707
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles — OIL_GAS — CA00012366

Well Number:	73	Status:	Completed oil
API Number:	03713252	Operator:	Medallion Calif Prpts Co
Latitude:	34.396613	Longitude:	-118.626457
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles — OIL_GAS — CA00012433

Well Number:	10	Status:	Completed oil
API Number:	03712629	Operator:	Medallion Calif Prpts Co
Latitude:	34.396484	Longitude:	-118.632944
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — OIL_GAS — CA00012409

Well Number:	130	Status:	Completed oil
API Number:	03712884	Operator:	Medallion Calif Prpts Co
Latitude:	34.396445	Longitude:	-118.640268
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles — OIL_GAS — CA00012349

Well Number:	88	Status:	036
API Number:	03713267	Operator:	Medallion Calif Prpts Co
Latitude:	34.396179	Longitude:	-118.621185
Region:	2	Lease:	Rancho San Francisco
Section:	25	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles — OIL_GAS — CA00012333

Well Number:	99	Status:	Completed oil
API Number:	03713279	Operator:	Medallion Calif Prpts Co
Latitude:	34.396163	Longitude:	-118.624061
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles — OIL_GAS — CA00011177

Well Number:	4-5	Status:	Plugged and abandoned oil
API Number:	03712616	Operator:	Oryx Energy Co.
Latitude:	34.395879	Longitude:	-118.617688
Region:	2	Lease:	Newhall Corp.-Wolfson
Section:	25	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | **OIL_GAS** | **CA00012414**

Well Number:	14	Status:	Completed oil
API Number:	03712633	Operator:	Medallion Calif Prpts Co
Latitude:	34.395152	Longitude:	-118.631109
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00011184**

Well Number:	3	Status:	Plugged and abandoned oil
API Number:	03712622	Operator:	Oryx Energy Co.
Latitude:	34.394860	Longitude:	-118.635153
Region:	2	Lease:	Ranch San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00012424**

Well Number:	12	Status:	Plugged and abandoned oil
API Number:	03712631	Operator:	Medallion Calif Prpts Co
Latitude:	34.394753	Longitude:	-118.637298
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00012381**

Well Number:	2	Status:	Completed oil
API Number:	03712621	Operator:	Medallion Calif Prpts Co
Latitude:	34.394727	Longitude:	-118.633015
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | **OIL_GAS** | **CA00011139**

Well Number:	78	Status:	Plugged and abandoned oil
API Number:	03713257	Operator:	Oryx Energy Co.
Latitude:	34.394692	Longitude:	-118.624488
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00012434**

Well Number:	100	Status:	Completed oil
API Number:	03713280	Operator:	Medallion Calif Prpts Co
Latitude:	34.394668	Longitude:	-118.638161
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00011153**

Well Number:	43	Status:	136
API Number:	03712857	Operator:	Oryx Energy Co.
Latitude:	34.394590	Longitude:	-118.628831
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles | **OIL_GAS** | **CA00012353**

Well Number:	91	Status:	Plugged and abandoned-dry hole
API Number:	03713270	Operator:	Medallion Calif Prpts Co
Latitude:	34.394369	Longitude:	-118.618793
Region:	2	Lease:	Rancho San Francisco
Section:	25	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | OIL_GAS | CA00012348

Well Number:	87	Status:	Completed oil
API Number:	03713266	Operator:	Medallion Calif Prpts Co
Latitude:	34.394335	Longitude:	-118.634652
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles | OIL_GAS | CA00011185

Well Number:	91	Status:	Plugged and abandoned oil
API Number:	03713271	Operator:	Oryx Energy Co.
Latitude:	34.394339	Longitude:	-118.619154
Region:	2	Lease:	Ranch San Francisco
Section:	25	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles | OIL_GAS | CA00011178

Well Number:	5-5	Status:	Plugged and abandoned oil
API Number:	03712617	Operator:	Oryx Energy Co.
Latitude:	34.394288	Longitude:	-118.614897
Region:	2	Lease:	Newhall Corp.-Wolfson
Section:	25	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | OIL_GAS | CA00012328

Well Number:	93	Status:	Completed oil
API Number:	03713273	Operator:	Medallion Calif Prpts Co
Latitude:	34.394049	Longitude:	-118.628014
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | OIL_GAS | CA00012345

Well Number:	81	Status:	Completed oil
API Number:	03713260	Operator:	Medallion Calif Prpts Co
Latitude:	34.393239	Longitude:	-118.630727
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | OIL_GAS | CA00011148

Well Number:	34	Status:	Plugged and abandoned oil
API Number:	03712848	Operator:	Oryx Energy Co.
Latitude:	34.393161	Longitude:	-118.633157
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles | OIL_GAS | CA00012343

Well Number:	77	Status:	Completed oil
API Number:	03713256	Operator:	Medallion Calif Prpts Co
Latitude:	34.393159	Longitude:	-118.622675
Region:	2	Lease:	Rancho San Francisco
Section:	36	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | OIL_GAS | CA00012368

Well Number:	36	Status:	Plugged and abandoned oil
API Number:	03712850	Operator:	Medallion Calif Prpts Co
Latitude:	34.393110	Longitude:	-118.630378
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — **OIL_GAS** — **CA00011150**

Well Number:	37	Status:	136
API Number:	03712851	Operator:	Oryx Energy Co.
Latitude:	34.393077	Longitude:	-118.626334
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles — **OIL_GAS** — **CA00012397**

Well Number:	149	Status:	Completed oil
API Number:	03712651	Operator:	Medallion Calif Prpts Co
Latitude:	34.393039	Longitude:	-118.633617
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles — **OIL_GAS** — **CA00012392**

Well Number:	31	Status:	Plugged and abandoned oil
API Number:	03712649	Operator:	Medallion Calif Prpts Co
Latitude:	34.392956	Longitude:	-118.628634
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles — **OIL_GAS** — **CA00012331**

Well Number:	96	Status:	Completed oil
API Number:	03713276	Operator:	Medallion Calif Prpts Co
Latitude:	34.392238	Longitude:	-118.616366
Region:	2	Lease:	Rancho San Francisco
Section:	36	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — **OIL_GAS** — **CA00012399**

Well Number:	151	Status:	Completed oil
API Number:	03712653	Operator:	Medallion Calif Prpts Co
Latitude:	34.391926	Longitude:	-118.629748
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles — **OIL_GAS** — **CA00011151**

Well Number:	39	Status:	136
API Number:	03712853	Operator:	Oryx Energy Co.
Latitude:	34.391584	Longitude:	-118.624342
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles — **OIL_GAS** — **CA00012357**

Well Number:	64	Status:	Completed oil
API Number:	03712877	Operator:	Medallion Calif Prpts Co
Latitude:	34.391463	Longitude:	-118.628809
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles — **OIL_GAS** — **CA00012350**

Well Number:	89	Status:	Completed oil
API Number:	03713268	Operator:	Medallion Calif Prpts Co
Latitude:	34.391404	Longitude:	-118.627480
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — **OIL_GAS** — **CA00012369**

Well Number:	38	Status:	Plugged and abandoned oil
API Number:	03712852	Operator:	Medallion Calif Prpts Co
Latitude:	34.391367	Longitude:	-118.626333
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
2 - 3 Miles — **OIL_GAS** — **CA00008320**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03720085	Operator:	Union Oil Co of Ca
Latitude:	34.391242	Longitude:	-118.645217
Region:	2	Lease:	R.S.F.
Section:	34	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles — **OIL_GAS** — **CA00012413**

Well Number:	139	Status:	Completed oil
API Number:	03712892	Operator:	Medallion Calif Prpts Co
Latitude:	34.391064	Longitude:	-118.622780
Region:	2	Lease:	Rancho San Francisco
Section:	36	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles — **OIL_GAS** — **CA00012342**

Well Number:	76	Status:	Completed oil
API Number:	03713255	Operator:	Medallion Calif Prpts Co
Latitude:	34.390795	Longitude:	-118.620289
Region:	2	Lease:	Rancho San Francisco
Section:	36	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — **OIL_GAS** — **CA00012401**

Well Number:	153	Status:	Completed oil
API Number:	03712655	Operator:	Medallion Calif Prpts Co
Latitude:	34.390584	Longitude:	-118.625977
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles — **OIL_GAS** — **CA00012367**

Well Number:	33	Status:	Plugged and abandoned oil
API Number:	03712847	Operator:	Medallion Calif Prpts Co
Latitude:	34.389545	Longitude:	-118.624664
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
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
91355	13	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 Zip Code: 91355

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.750 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

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.

APPENDIX H:

References

PHASE I ENVIRONMENTAL SITE ASSESSMENT
River Village
Tentative Tract Map No. 53108, Highway 126
Newhall Ranch, California

REFERENCES

1. 1994 Fault Activity Map of California and Adjacent Areas (1:750,000 scale), California Department of Conservation, Division of Mines and Geology.
2. County of Los Angeles Department of Public Works, Hydrologic Records, records request October 14, 2003.
3. County of Los Angeles Public Works Department, Building and Safety Division, and http://assessor.co.la.ca.us/DataMaps/pais.asp., October 23, 2003.
4. EDR Sanborn® Map Report, Inquiry No. 1108642.5s, January 8, 2004.
5. EPA Map of Radon Zones, 1993.
6. Munger Map Book of California/Alaska Oil and Gas Fields, 37th Edition, June 1993.
7. The EDR Aerial Photograph Print Service, Inquiry No. 1108642-9, January 15, 2004 and Continental Aerial Photography, Cypress, California 1952, 1972, 1980, 1988, 1990, 1993, 1995 and 1999.
8. The EDR Historical Topographic Map Report, Inquiry No. 1063369-5, October 16, 2003.
9. The EDR Radius Map with GeoCheck®, Inquiry No. 1108642.4s, January 8, 2004.
10. USGS Map, Newhall, California Quadrangle, 1952, photo-revised 1988.

APPENDIX I:

Glossary of Acronyms

Glossary Of Acronyms

(for words that frequently appear in environmental reports)

ASTs = above-ground storage tanks

ACMs = asbestos-containing materials

BTEX = benzene, toluene, ethylbenzene and xylenes

bgs = below ground surface

EDR = Environmental Data Resources, Inc.

LQG = Large Quantity Generator of hazardous waste

LUSTs = leaking underground storage tanks

MTBE = methyl-tertiary-butyl ether

mg/kg = milligrams per kilogram

mg/l = milligrams per liter

PCE = perchloroethene

ppb = parts per billion

ppm = parts per million

SQG = Small Quantity Generator of hazardous waste

TCE = trichloroethene

TPH-d = Total Petroleum Hydrocarbons as diesel

TPH-g = Total Petroleum Hydrocarbons as gasoline

TRPH = Total Recoverable Petroleum Hydrocarbons

ug/kg = micrograms per kilogram

ug/l = micrograms per liter

USTs = underground storage tanks

VOCs = volatile organic compounds

ADDENDUM LETTER
PHASE I ENVIRONMENTAL SITE ASSESSMENT

OF

PROPOSED WATER TANK LOCATIONS AND UTILITY CORRIDOR EASEMENTS ASSOCIATED WITH THE PROPOSED RIVER VILLAGE DEVELOPMENT TENTATIVE TRACT MAP NO. 53108, STATE HIGHWAY 126 NEWHALL RANCH, CALIFORNIA

FOR

NEWHALL LAND

BA ENVIRONMENTAL
A Division of Building Analytics

File No. 104012
September 2004

BA ENVIRONMENTAL
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818-500-1898
818-246-8195 FAX

September 28, 2004

File No.: 104012

Mr. Keith Herren
Newhall Land
23823 Valencia Boulevard
Valencia, California 91355

Reference: Proposed Water Tank Locations and Utility Corridor Easements
Associated with the Proposed River Village Development
Tentative Tract Map No. 53108, State Highway 126
Newhall Ranch, California

Subject: Addendum Letter
Phase I Environmental Site Assessment

Dear Mr. Herren:

BA Environmental is pleased to submit this Addendum to the Phase I Environmental Site Assessment (ESA) conducted at the subject site on May 5, 2004. This addendum covers two proposed water tank locations and utility corridor easements associated with the proposed River Village Development. This addendum builds on information obtained during the May 2004 Phase I ESA, and includes a review of historical documents, a site reconnaissance, a review of local regulatory agencies and a review of pertinent government environmental databases. Historical documentation includes historical aerial photographs, historical topographic maps, city directories and building department records. Copies of historical aerial photographs and historical topographic maps are included in BA Environmental's Phase I ESA (BA #104012) dated May 5, 2004. A copy of the governmental database report is included as an attachment to this addendum letter.

Site Location

The subject property consists of two vacant parcels of land for proposed water tanks and narrow strips (approximately 35' to 140' wide) of land for proposed utility corridors. The subject site extends approximately 0.8 miles west of San Martinez Grande Canyon Road along Highway 126. To the east, the subject site extends along State Highway 126 to Henry Mayo Road and then along Henry Mayo Road to the Old Road. The subject site then extends southeast along the Old Road to Water Reclamation Plant (WRP) #32, approximately 1.2 miles southeast of the intersection of Highway 126 and Interstate Freeway 5 (Golden State Freeway). For the ease of this report, the subject site will be broken down into the following 10 sub-areas:

- Future WRP to Future Potrero Road
- Future Potrero Road to River Village Development
- Future Homestead Frontage Road
- River Village Development-Spine Road
- River Village Development to Commerce Center Drive
- Hancock Parkway-Commerce Center Drive
- Henry Mayo Road
- The Old Road
- Northern Proposed Water Tank Location
- Southern Proposed Water Tank Location

Site History and Reconnaissance

Future WRP to Future Potrero Road

This portion of the subject site is located adjacent to the south of Highway 126, and is located between the future WRP (approximately 0.8 miles west of San Martinez Grande Canyon Road) and the future Potrero Road (approximately 50 feet west of San Martinez Grande Canyon Road). The site includes an approximate 35-foot future rail easement, a 70-foot utility corridor and a 60-foot utility easement.

Historically, portions of this site were occupied by Southern Pacific Railroad track easement from prior to 1903 until prior to 1991. Sometime prior to 1991, the railroad tracks were removed. Since the removal of the railroad tracks, the railroad bed has been used as an access road.

Adjacent properties to this portion of the subject property include Highway 126 followed by vacant undeveloped land and agricultural land to the north. To the south of the subject site is agricultural land, followed by the Santa Clara River. To the west is agricultural land, and to the east is the Future Potrero Road to River Village portion of the subject site.

On the day of the site reconnaissance, the subject site was occupied by an access road. A portion of this access road was a former railroad easement. The railroad tracks had been removed. The access road appeared to be predominately dirt, with some gravel. No staining or distressed vegetation was observed on this portion of the subject site. During the site visit, no hazardous substances, or evidence of underground storage tanks (USTs), aboveground storage tanks (ASTs) or wastewater clarifiers were observed on this site.

Two water lines were observed to cross the subject site to the west and then run parallel along the northern side. A Shell Oil pipeline was also observed to run parallel along the northern side of the subject site (beneath what appeared to be the future rail easement). A Shell Oil vault or booster station was observed along the north side of the subject site, near the eastern boundary. No staining was observed on the surface surrounding the vault/booster station. In addition, two old pipe sections were observed on the subject site. These sections are believed to have been former sections of oil pipelines.

Future Potrero Road to River Village Development

This portion of the subject site is located adjacent to the south of Highway 126, and is located between the future Potrero Road (approximately 50 feet west of San Martinez Grande Canyon Road) and the future River Village Development (approximately 1.0 miles northeast of the intersection of Highway 126 and San Martinez Grande Canyon Road). The site includes an approximate 35-foot future rail easement, a 47-foot utility corridor and a 37-foot utility easement.

Historically, portions of this site were occupied by Southern Pacific Railroad track easement from prior to 1903 until prior to 1991. Sometime prior to 1991, the railroad tracks were removed. Since the removal of the railroad tracks, the railroad bed has been used as an access road. Two oil wells were formerly located approximately 100 feet southeast of Highway 126, while a third oil well was approximately 600 feet to the southeast. All of these wells appeared to be south of the utility corridor.

Adjacent properties to this portion of the subject property include Highway 126 followed by agricultural land to the north. To the south of the subject site is agricultural land, and the Santa Clara River. To the west is the Future WRP to Future Potrero Road portion of the subject site, and to the east is the River Village Development portion of the subject site.

On the day of the site reconnaissance, the subject site was occupied by an access road. A portion of this access road was a former railroad easement. The railroad tracks had been removed. The access road appeared to be predominately dirt with some gravel. No staining or distressed vegetation was observed on this portion of the subject site. During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site.

A Shell Oil pipeline was observed to run parallel along the northern side of the subject site (beneath what appeared to be the future rail easement). At a small stream crossing, the pipeline was exposed. The pipeline was of steel construction and appeared to be approximately eight inches in diameter. A second pipeline was observed to run parallel along the southern side of the subject property. This pipeline appeared to no longer be in use, since a portion of the pipeline was exposed and cut. This pipeline appeared to be 10 to 12 inches in diameter. What appeared to be a pipeline vent was observed on the east side of the small stream. No staining was observed on the surface surrounding the exposed sections of pipe.

Future Homestead Frontage Road

This portion of the subject site is located north of Highway 126. It crosses Highway 126 at Potrero Road and roughly parallels Highway 126 along the base of the mountain to the north, and intersects Chiquito Canyon Road north of Highway 126. The site includes an approximate 66-foot utility easement beneath the street.

Historically, portions of this site were occupied by orchards from prior to 1903 until recently. In addition, portions of the site have been located in the southeast tip of the Del

Valle Oil and Gas Field from 1903 until the present. This portion of the Del Valle Oil and Gas Field is no longer producing oil.

Adjacent properties to this portion of the subject property include vacant undeveloped mountain sides and the Del Valle Oil and Gas Field to the north. To the south of the subject site is agricultural land and Highway 126. To the west of the subject site is vacant undeveloped land and agricultural land. Adjacent to the east of the subject site is Chiquito Canyon Road followed by agricultural land and undeveloped land (Borrow Site "B"; See BA Environmental's Phase I ESA dated May 5, 2004 – BA #104012).

On the day of the site reconnaissance, the majority of the subject site was occupied by agricultural land. Several structures (houses) were observed in close vicinity to the subject site. Portions of the subject site were also observed to be occupied by vacant undeveloped land covered by native vegetation. This area is known to have been in the Del Valle Oil and Gas Field, and several concrete footings, possibly related to oil production, were observed in the immediate vicinity of the subject site. No evidence of staining or distressed vegetation was observed on this portion of the subject site. During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site.

No pipelines were observed on the day of the site visit; however, since this site is located within a portion of an oil field, oil pipelines may exist beneath or adjacent to the subject site.

River Village Development-Spine Road

This portion of the subject site is located south of Highway 126, north and west of the Santa Clara River, and east of the intersection of Highway 126 and Chiquito Canyon Road. The site includes a utility easement beneath Spine Road (approximately 58 feet to 110 feet), beneath Long Canyon Road and Walcott Road, and along the northern and southern River Village Development property boundaries. All of the subject sites are located within the River Village Development. For a more detailed assessment of this area, see BA Environmental's Phase I ESA dated May 5, 2004 (BA #104012).

Historically, portions of this site have been occupied by agricultural land from the early 1900's through the present day. In addition, the portions of the subject site crossed through a portion of the Castaic Junction Oil Field from prior to 1947 until recently. This portion of the Castaic Junction Oil Field is no longer producing oil. Several oil wells and three wash tanks were observed in the immediate vicinity of the subject site. A portion of the subject site also appears to be located where an old airfield formerly existed, from prior to 1968 until 1994, when it was removed. Portions of the subject site were also occupied by the Indian Dunes Motorcycle Park from prior to 1972 until prior to 1994 when it was removed.

Adjacent properties to this portion of the subject property include Highway 126 to the north and the Santa Clara River to the south. The Future Potrero Road to River Village Development portion of the subject site was to the west, and the River Village Development to Commerce Center Drive portion of the subject property was to the east.

In addition, portions of the subject property are also surrounded by agricultural land, and to the east is the River Village Development portion of the subject site.

On the day of the site reconnaissance, the majority of the subject site was occupied by agricultural land. No hazardous materials were observed on the subject site. In May of 2004, soil samples were collected from the subject site and analyzed for pesticides and herbicides. No significant concentrations of pesticides or herbicides were detected in any of the samples collected. The subject site crosses the northeastern corner of the River Village Development, which is occupied by a storage area consisting of three buildings and a plastic-sheeting hothouse. The buildings are used for storage and packaging. Farm equipment was observed to be stored in this area. Several small ASTs were observed in this area, as well as agricultural chemical mixing. Several 55-gallon drums and smaller five-gallon buckets were observed. None of these containers were labeled. Some staining was observed on the dirt in this storage area. No evidence of distressed vegetation was observed on this portion of the subject site. During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site, other than those described above.

An old railroad easement was observed along the northern boundary of the River Village Development, paralleling Highway 126. Portions of the subject property are located within this former easement. The railroad tracks have been removed; however, some ballast materials still remain. Debris and trash piles were observed along this easement.

Several pipelines were observed crossing or in the immediate vicinity of the subject site. The pipelines were identified visually by either marker signs, or visible piping or pipeline vents. A Southern California Gas pipeline was observed in or adjacent to the northern easement (in the old railroad easement), and crossing Long Canyon Road in the western portion of the River Village Development. These pipelines are believed to be 18" to 20" in diameter and likely carry natural gas. Where visible, these pipelines appeared to be coated with a tar-like material to prevent corrosion.

A Shell Oil Company petroleum pipeline was also observed to run along the northern easement, parallel to the old railroad easement. The size of this pipeline is unknown; however, it is likely 8" in diameter (similar to that seen to the west) and contains crude oil. Approximately 250 feet southeast of the intersection of Chiquito Canyon Road and Highway 126 is a fenced enclosure. This enclosure is adjacent to the Shell Oil Company pipeline and a Shell Oil pipeline vault. A sign on the gate of the enclosure indicates that the enclosure is owned by Eouilon Pipeline Company, and is the Del Valle booster station. This is likely a booster station for an oil pipeline. Inside of the enclosure was a pump, a 100-gallon AST likely containing diesel fuel, and two electrical transformers. The pump and AST were observed to be in a concrete containment.

An unidentified pipeline was observed running along the southern edge of the old railroad easement. Where exposed, the pipeline appeared to be approximately 18" to 20" in diameter and was coated with a tar-like substance to prevent corrosion. Two vents, similar to those used in oil pipelines, were observed associated with this pipeline.

Damaged piping was observed on the surface in the old railroad easement. It appeared that this pipeline had been removed. It is uncertain whether this pipeline was replaced or

completely removed. The pipeline appeared to be 16" to 18" in diameter. Oil staining was observed in the areas where this pipeline was exposed.

A Unocal pipeline was observed to run across the western end of the subject property. The size of this pipeline is unknown; however, the pipeline likely carried oil. Reportedly, this pipeline is currently idle.

River Village Development to Commerce Center Drive

This portion of the subject site is adjacent to the south side of Highway 126, between the Santa Clara River to the west and Commerce Center Drive to the west. The site includes an approximate 47-foot utility corridor and a 37-foot utility easement.

Historically, portions of this site were occupied by a Southern Pacific Railroad track easement from prior to 1903 until prior to 1991. Sometime prior to 1991, the railroad tracks were removed. Since the removal of the railroad tracks, the railroad bed has not been used. This portion of the subject site is located within the Castaic Junction Oil Field.

Adjacent properties to this portion of the subject property include Highway 126 followed by a partially graded vacant parcel of land (proposed commercial development) to the north and the Travel Village to the south. The Future River Village Development-Spine Road portion of the subject site was to the west, and the Henry Mayo Road portion of the subject property was to the east.

On the day of the site reconnaissance, the subject site was occupied by the old Southern Pacific Railroad easement. Non-hazardous trash was observed scattered throughout the subject site. No evidence of staining or distressed vegetation was observed on this portion of the subject site. During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site.

A Shell Oil pipeline was also observed to run beneath or parallel, along the northern side of the subject site. An eight-inch Texaco oil pipeline, and two six-inch abandoned Mobile Oil pipelines were noted to run down the center of Highway 126, just north of the subject site.

Hancock Parkway-Commerce Center Drive

This portion of the subject site consist of two utility corridors which border to the west, north and south of the proposed Commerce Center (TPM 18108) and Hancock Parkway, adjacent to the north of Highway 126 and to the east of Commerce Center Drive, and a utility easement down Commerce Center Drive, between the Santa Clara River and Henry Mayo Road. The site consists of utility corridors approximately 47 feet to 117 feet wide.

Historically, the two easements bordering Commerce Center (TPM 18108) have been occupied by either vacant undeveloped land, or used for agricultural purposes, from prior to 1903 until 1999. In 1999, the subject properties began undergoing grading activities.

Commerce Center Drive was also occupied by vacant undeveloped land or used for agricultural purposes from prior to 1903 until sometime after 1999. Sometime after 1999, Commerce Center Drive was constructed. This portion of the subject site is located within the Castaic Junction Oil Field. What appeared to be an oil well was located near the junction of the easements in the northeast, near Commerce Center Drive, from prior to 1952 until sometime after 1993. This well was not located on the subject property.

Adjacent properties to this portion of the subject property include Highway 126 followed by Travel Village to the south. To the north and west is the Santa Clara River. East of the site is graded vacant land. The subject site borders the proposed Commerce Center (TPM 18108) and Hancock Parkway, to the center.

On the day of the site reconnaissance, the two easements of the portion of the subject property bordering the proposed Commerce Center (TPM 18108) and Hancock Parkway were observed to be occupied by vacant undeveloped land. Non-hazardous trash was observed scattered throughout this portion of the subject site. No evidence of staining or distressed vegetation was observed on this portion of the subject site. During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site. The portion of the subject property occupied by Commerce Center Drive was also observed to have scattered non-hazardous trash. In addition, there was no vegetation, and no evidence of staining was observed on this portion of the subject site. During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site.

A five-foot wide General Petroleum Pipeline easement was observed to cross the subject property in the west and east. In addition, an eight-inch Texaco oil pipeline, and two 6-inch abandoned Mobile Oil pipelines were noted to run down the center of Highway 126, just south of the subject site.

Henry Mayo Road

This portion of the subject site consists of a utility corridor, which runs beneath Henry Mayo Road, starting at the intersection of Henry Mayo Road and Commerce Center Drive, and continuing east to the intersection of Henry Mayo Road and The Old Road. The utility corridor is approximately 100 feet wide.

Historically, the subject property beneath Henry Mayo Road has been occupied by Henry Mayo Road from prior to 1952 until present. This portion of the subject site runs through what is called Castaic Junction. This was also the location of the Newhall Ranch. Parallel to The Old Road, a Southern Pacific Railroad track once ran. This area is also on the edge of the Castaic Junction Oil Field.

Adjacent properties to the north and south include vacant land and various commercial businesses, including Schwartz Oil (a bulk fuel distributor), two construction companies, offices for RM Pyle's Boys Camp, the Saugus Unified School Maintenance yard, Los Angeles County Fire Station #76, Al Towing and Auto Service, and an equipment storage area. Formerly, two of the adjacent properties appeared to have been occupied by gasoline service stations. Since the subject site consists of narrow utility easements, it is unlikely that any of the adjacent properties have impacted the subject property.

On the day of the site visit, the portion of the subject property occupied by Henry Mayo Road was observed to have scattered non-hazardous trash. No vegetation, and no evidence of staining were observed on this portion of the subject site. During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site.

The Old Road

This portion of the subject site consists of a utility corridor, which runs beneath The Old Road, starting at Henry Mayo Road and continuing south to WRP #32. The utility corridor is approximately 140 feet wide. Also included in this portion of the subject property is a utility easement, which runs along a proposed road, starting at Henry Mayo Road approximately 800 feet west of the intersection of The Old Road and Henry Mayo Road, and running parallel and south of The Old Road, intersecting The Old Road approximately 3,000 feet southeast of the intersection of The Old Road and Henry Mayo Road. This easement is estimated to be approximately 30 feet wide.

Historically, the subject property beneath The Old Road has been occupied by The Old Road (former Highway 99) from prior to 1952 until present. The planned easement to the south of The Old Road was either vacant undeveloped land or agricultural land from prior to 1952 until present. These portions of the subject site are located within the areas called Castaic Junction. This was also the location of the Newhall Ranch. Parallel to The Old Road, a Southern Pacific Railroad track once ran. This area is also on the edge of the Castaic Junction Oil Field.

Adjacent properties to this portion of the subject property include vacant graded land, a California Highway Patrol Station, and a Pacific Bell facility, followed by the Golden State Freeway to the north and east. To the south is agricultural land. To the southeast is WRP #32. To the west is agricultural land and various commercial businesses. To the northwest are also commercial businesses.

On the day of the site visit, the portion of the subject property occupied by The Old Road was observed to have scattered non-hazardous trash. No vegetation, and no evidence of staining were observed on this portion of the subject site. During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site. The portion of the subject site south of The Old Road was observed to be occupied by agricultural land. This portion of the subject property was observed to have scattered non-hazardous trash. No evidence of staining was observed on this portion of the subject site. During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site.

Observation of the subject site revealed Underground Services Alert markings on the road, indicating underground pipelines were located between approximately 3 feet and 153 feet south of The Old Road and running parallel to The Old Road. These pipelines included a six-inch Mobil Oil pipeline approximately three feet south of The Old Road, a 12-inch high pressure gas pipeline and a 10-inch Flexismer pipeline approximately 28.5 feet south of The Old Road, a six-inch Mobil Oil pipeline approximately 42 feet south of The Old Road, an eight-inch Epsilon Oil pipeline approximately 137 feet south of The

Old Road, and a 10-inch Mobil Oil pipeline approximately 153 feet south of The Old Road. There is also an eight-inch Shell Oil pipeline that is also located south of the Old Road.

Northern Proposed Water Tank Location

This portion of the subject site consists of an approximate 200 foot by 200 foot area, approximately 1,300 feet north of the northeast corner of the proposed River Village Development, intended for a proposed water tank location, and a pipeline easement which runs from the tank location, and along Walcott Avenue to the planned River Village Development. The pipeline easement is anticipated to be approximately 10 feet wide.

Historically, the tank location has been occupied by vacant undeveloped land from prior to 1903 until present. Walcott Avenue was not constructed until sometime between 1990 and 1993. Prior to this, the portion of the subject site occupied by Walcott Avenue was occupied by vacant undeveloped land, or agricultural land. This portion of the subject site is located within the Castaic Junction Oil Field.

Adjacent properties to the tank location include vacant undeveloped parcels to the north, south, east and west. A water tank occupies the hill to the southwest of the proposed tank site. In the valley to the north-northeast are commercial/industrial developments. Walcott Avenue is predominantly bordered by vacant undeveloped land. Walcott Avenue crosses Highway 126 in the south. It also crosses a small portion of agricultural land just north of Highway 126.

On the day of the site reconnaissance, the proposed tank location was situated on the top of an undeveloped hilltop covered by native vegetation. No evidence of staining or distressed vegetation was observed on this portion of the subject site. During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site. Lower on the slopes of the hill were two pads cut into the hillside. It is believed that these pads may have been the locations of former oil production wells or exploratory wells. No staining was observed on the soil surface of either pad. The portion of the subject property occupied by Walcott Avenue was observed to have scattered non-hazardous trash. No vegetation, and no evidence of staining was observed on this portion of the subject site. During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site.

A Mobile Oil pipeline was observed to cross Walcott Avenue near its intersection with Highway 126.

Southern Proposed Water Tank Location

This portion of the subject site consists of an approximate 200 foot by 200 foot area, approximately 3,000 feet south of the proposed River Village Development, intended for a proposed water tank location, and a pipeline easement which runs from the tank location to the planned River Village Development. The pipeline easement is anticipated to be approximately 10 feet wide. The tank location is in what has been called Proposed

Borrow Site "A" for the River Village Development, located on the south side of the Santa Clara River.

Historically, the tank location has been vacant undeveloped land from prior to 1903 until present. The pipeline easement has been occupied by either vacant undeveloped land or agricultural land from at least 1903 until present. Both the tank location and the pipeline easement have been located on the edge of an oil field from prior to 1945 until present.

Adjacent properties to the tank location include vacant undeveloped parcels to the north, south, east and west. An oil field is located to the south of the subject site. Adjacent properties to the pipeline easement include vacant undeveloped land and agricultural land. Single oil wells are located to the north and south of the pipeline easement. None of the wells were located on the subject property.

On the day of the site reconnaissance, the proposed tank location was situated on the top of an undeveloped hilltop covered by native vegetation. No evidence of staining or distressed vegetation was observed on this portion of the subject site. During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site. This site is located in the proposed Borrow Site "A". Pads cut into the hillsides of Barrow Site "A" are believed to have been the locations of former oil production wells or exploratory wells. No staining was observed on the soil surface of this area. The portion of the subject property occupied by the pipeline easement runs northwest through Barrow Site "A" and then to the north through agricultural land and across the Santa Clara River into the proposed River Village Development. This area was observed to have scattered non-hazardous trash. No evidence of staining was observed on this portion of the subject site. During the site visit, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this site.

Los Angeles County Department of Public Works (LACDPW)

BA Environmental visited the office of the LACDPW regarding files for USTs and hazardous materials storage and usage. According to the LACDPW, files existed for several properties owned and operated by Newhall Land. These files included 30003 Walnut Orchard Road, 31820 Henry Mayo Drive, 28700 Henry Mayo Drive, and 27230 Henry Mayo Drive. Only the 28700 Henry Mayo Drive listing appears to be within the limits of the subject property, River Village Development-Spine Road. One 1,000-gallon gasoline and one 1,000-gallon diesel UST were removed in 1989 by PW Environmental, in the vicinity of the central farm equipment storage area south of Wolcott Way. One sample collected beneath the gasoline UST was reported to contain 96 milligrams per kilogram (mg/kg) of Total Petroleum Hydrocarbons as gasoline (TPH-g). LACDPW requested a description of sampling methods and manifests for the UST removal. PW Environmental submitted these documents in August and September of 1989. No closure letter was present in the file. This address is just north of the Spine Road easement.

GOVERNMENT RECORDS REVIEW

Regulatory compliance is a primary element of an ESA. Failure to comply with governmental regulations can result in fines, and can expose businesses or individuals to liabilities from which the law would otherwise shield them. The presence of hazardous wastes or hazardous materials, on-site or at neighboring sites, may present certain liabilities. Environmental Data Resources, Inc. (EDR) provided the most recent information regarding the hazardous materials sites identified below.[1] Sites of potential environmental concern are described at the end of this section in Table 1. It should be noted that the search radii for each database has been extended beyond ASTM requirements. The referenced search radii below are minimum distances. The actual search distances are much greater.

Table 1
GOVERNMENT-LISTED DATABASES
IDENTIFIED SITES OF ENVIRONMENTAL CONCERN
Proposed Water Tank Locations and Utility Corridor Easements Associated with the Proposed River Village Development
Tentative Tract Map No. 53108, State Highway 126
Newhall Ranch, California

Site of Concern And Address	Distance and Direction from Subject Property	Databases	Regulatory Status	Potential Environmental Impact
27353 San Martinez Grande Canyon	3,960 Feet North of Future Homestead Frontage Road (up-gradient)	CHMIRS	Release of approximately 1,000-gallons of crude oil from a tanker truck accident	Low
27900 Chiquito Canyon Road	200 Feet East of Future Homestead Frontage Road (up/cross-gradient)	CHMIRS	Unknown release	Low
Newhall Land & Farming 3003 Walnut Orchard Rd	200 Feet North of Future Homestead Frontage Road (up/cross-gradient)	LUST Cortese	Release of gasoline to the soil only; Case closed 6/27/96	Low
LA Cty Fire Dept/DelVal Trg Ctr 28101 Chiquito Cnyn	660 Feet north of Future Homestead Frontage Road (up/cross-gradient)	HAZNET LA Site Mitigation HMS LUST Cortese AST	Release of hydrocarbons to soil; Leak being confirmed	Low

1 The EDR Radius Map with GeoCheck®, Inquiry No. 1108642.4s, January 8, 2004.

Site of Concern And Address	Distance and Direction from Subject Property	Databases	Regulatory Status	Potential Environmental Impact
UNOCAL - Lincoln Lease 28101 Chiquito Cyn	660 Feet north of Future Homestead Frontage Road (up/cross-gradient)	CA SLIC	Facility closed	Low
Chiquito Canyon Landfill 29201 Henry Mayo Dr	200 Feet North of River Village Development-Spine Road (up/cross-gradient)	HMS HAZNET SWF/LF CA WDS EMI SWAT RCRIS-SQG FINDS	No Violations	Low
Laidlaw Waste Systems Inc 29201 Henry Mayo Dr	200 Feet North of River Village Development-Spine Road (up/cross-gradient)	HMS CA FID UST	No Violations	Low
Universal By-Products-Valencia 29201 Henry Mayo Dr	200 Feet North of River Village Development-Spine Road (up/cross-gradient)	WMUDS SWAT	No Violations	Low
27900 Chiquito Canyon	200 Feet North of River Village Development-Spine Road (up/cross-gradient)	CHMIRS	Release of Petroleum February 1989	Low
Travel Village/ Fiesta Resorts/ Valencia Travel Village 27946 Henry Mayo Dr	200 Feet South of River Village Development to Commerce Center Drive (down-gradient)	Hist. UST HMS HAZNET CA FID	Not on LUST list	Low
Schwartz Oil Co 27241 Henry Mayo Dr	20 Feet North of Henry Mayo Road (cross/up-gradient)	Hist. UST UST HAZNET EMI CA FID Cortese LUST FINDS	Release of gasoline to other groundwater; Case closed 8/30/96	Low

Site of Concern And Address	Distance and Direction from Subject Property	Databases	Regulatory Status	Potential Environmental Impact
LA County Fire Dept Station 76 27223 Henry Mayo Dr	20 Feet North of Henry Mayo Road (cross/up-gradient)	AST HMS LUST Cortese Hist. UST CA FID	Release of hydrocarbons to the soil only; Case closed 6/13/97	Low
R.M. Pyles Boys Camp, Inc. 27211 Henry Mayo Dr	20 Feet North of Henry Mayo Road (cross/up-gradient)	Hist. UST	Not on LUST list	Low
Newhall Land & Farming 27230 Henry Mayo Rd	50 Feet South of Henry Mayo Road (cross/up-gradient)	Cortese LUST	Release of gasoline to the soil only; Case closed 1/29/90	Low
29300 The Old Road	200 Feet North of The Old Road (cross-gradient)	CHMIRS	Unknown Release	Low
Dixie Diesel Station 29471 The Old Road	600 Feet North of The Old Road (cross-gradient)	Cortese LUST	Release of diesel fuel to other groundwater; Case closed 11/30/87	Low
Newhall Land & Farming Co 28760 N Castaic Canyon Rd	100 Feet East of The Old Road (down-gradient)	Cortese LUST HMS	Release of gasoline to the soil only; Case closed 1/10/90	Low
Tri-R-Trucking 28748 Castaic Canyon Rd	100 Feet East of The Old Road (down-gradient)	Cortese LUST	Release of diesel fuel to soil only; Case closed 10/11/94	Low
Chevron Station 9 1899 28805 The Old Rd	100 Feet East of The Old Road (down-gradient)	RCRIS-SQG FINDS Cortese	No other information on release	Low
TA Manufacturing 28605 W. Franklin	2,000 Feet Northeast of Northern Proposed Water Tank Location (up-gradient)	LQG FINDS HAZNET	No Violations	Low

The subject property is not listed on any of the searched databases. Several adjacent sites are listed as either UST or LUST sites. Although there have been releases at these adjacent sites, since the subject site is a narrow utility easement, there is a low potential for the adjacent site to have impacted the subject site.

Based on the above data, this assessment has revealed no evidence of recognized environmental conditions in connection with the subject property, except the following:

- Portions of the subject site are located within active and inactive oil fields; and
- Portions of the subject property cross or run parallel to petroleum pipelines.

If you have questions regarding this project or report, please contact us at (818) 500-1898.

Respectfully submitted,
BA ENVIRONMENTAL

Russell M. Cote, M.Sc., R.G. No. 7139
Manager, Environmental Services

Attachments: Figures
Governmental Database Report

ATTACHMENTS

Figures

TYPICAL SECTION - WRP TO POTRERO ROAD

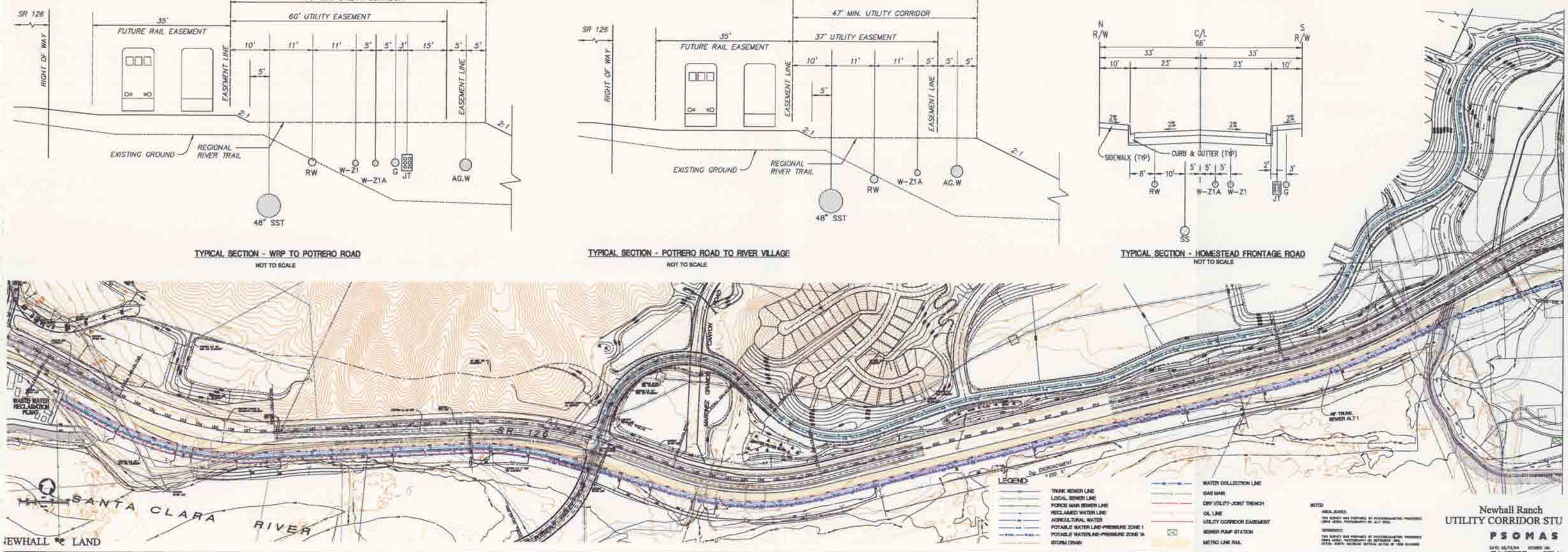
NOT TO SCALE

TYPICAL SECTION - POTRERO ROAD TO RIVER VILLAGE

NOT TO SCALE

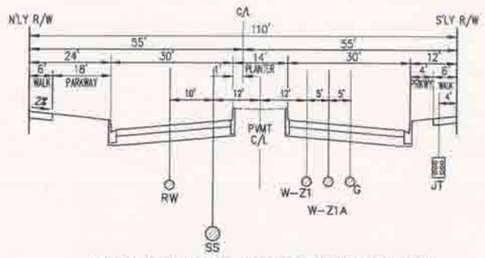
TYPICAL SECTION - HOMESTEAD FRONTAGE ROAD

NOT TO SCALE



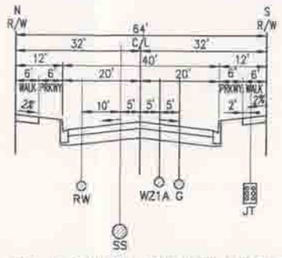
Newhall Ranch
UTILITY CORRIDOR STU

PSOMAS



TYPICAL RIVER VILLAGE - SPINE ROAD SECTION (110' R/W)

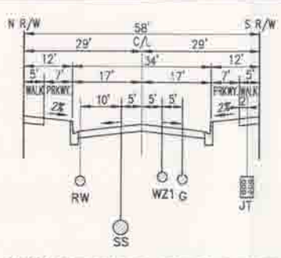
NOT TO SCALE



TYPICAL RIVER VILLAGE - SPINE ROAD SECTION (64' R/W)

(From Wolcott Road to 'D' Street)

NOT TO SCALE



TYPICAL RIVER VILLAGE - SPINE ROAD SECTION (58' R/W)

NOT TO SCALE

SEE SHEET 3

RIVER VILLAGE

CASTAIC CREEK

SANTA CLARA RIVER

LONG CANYON ROAD

CHIQUITO CANYON ROAD

LEGEND:

- TRUNK SEWER LINE
- LOCAL SEWER LINE
- FORCE MAIN SEWER LINE
- RECLAIMED WATER LINE
- AGRICULTURAL WATER
- POTABLE WATER LINE-PRESSURE ZONE 1
- POTABLE WATERLINE-PRESSURE ZONE 1A
- STORM DRAIN
- WATER COLLECTION LINE
- GAS MAIN
- OIL LINE
- DRY UTILITY-JOINT TRENCH
- UTILITY CORRIDOR EASEMENT
- SEWER PUMP STATION
- METRO LINK RAIL

NEWHALL LAND

Newhall Ranch
UTILITY CORRIDOR STUDY

PSOMAS

TYPICAL SECTION - WRP TO POTRERO ROAD

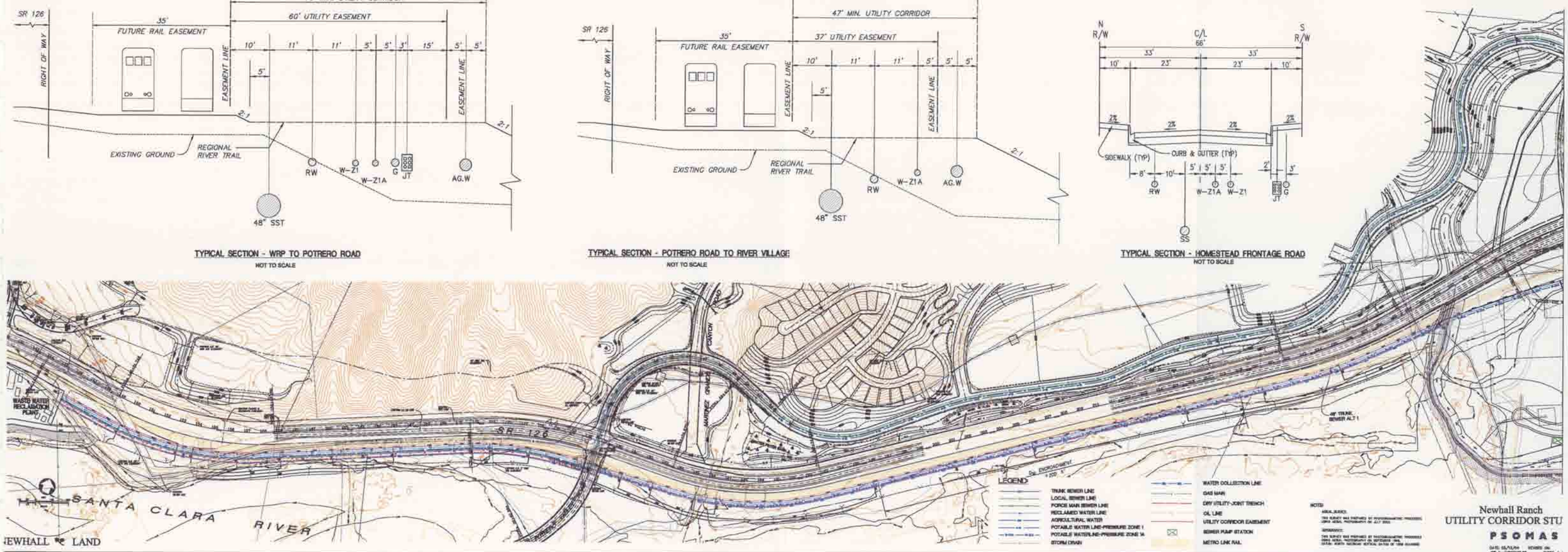
NOT TO SCALE

TYPICAL SECTION - POTRERO ROAD TO RIVER VILLAGE

NOT TO SCALE

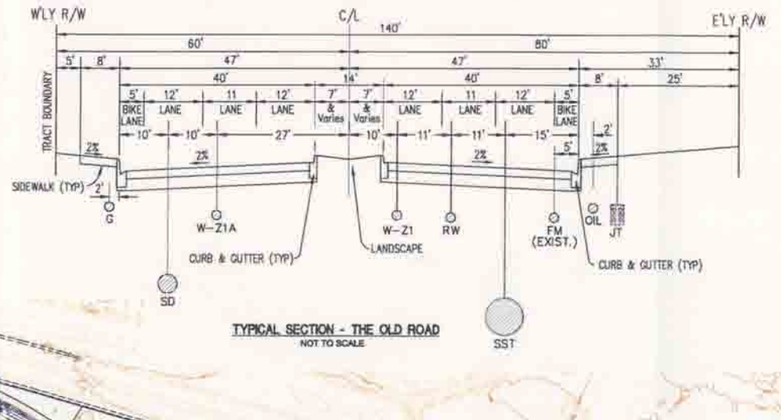
TYPICAL SECTION - HOMESTEAD FRONTAGE ROAD

NOT TO SCALE

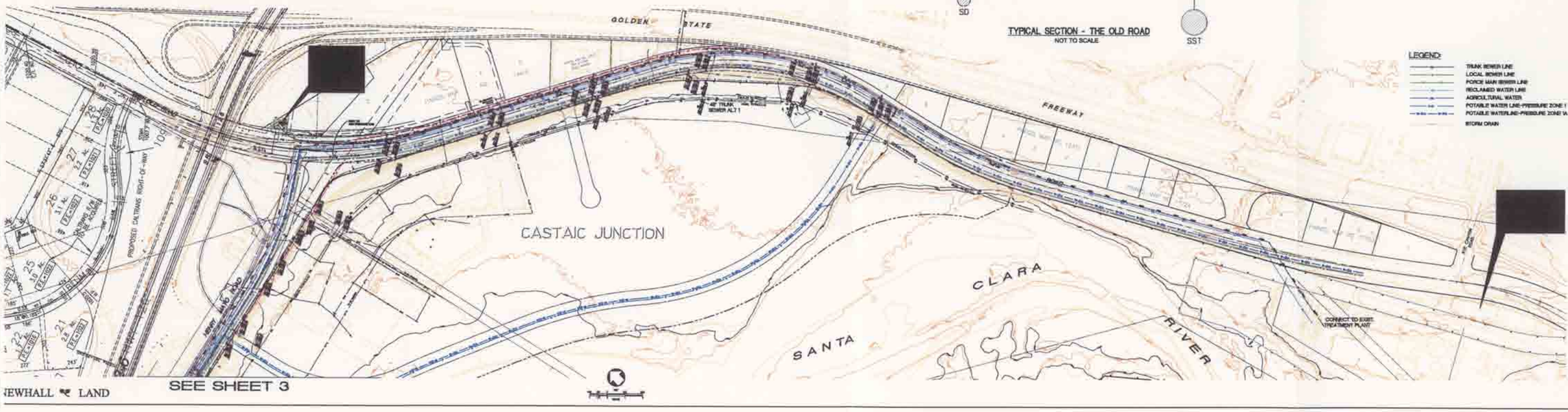


Newhall Ranch
UTILITY CORRIDOR STU

PSOMAS



TYPICAL SECTION - THE OLD ROAD
NOT TO SCALE



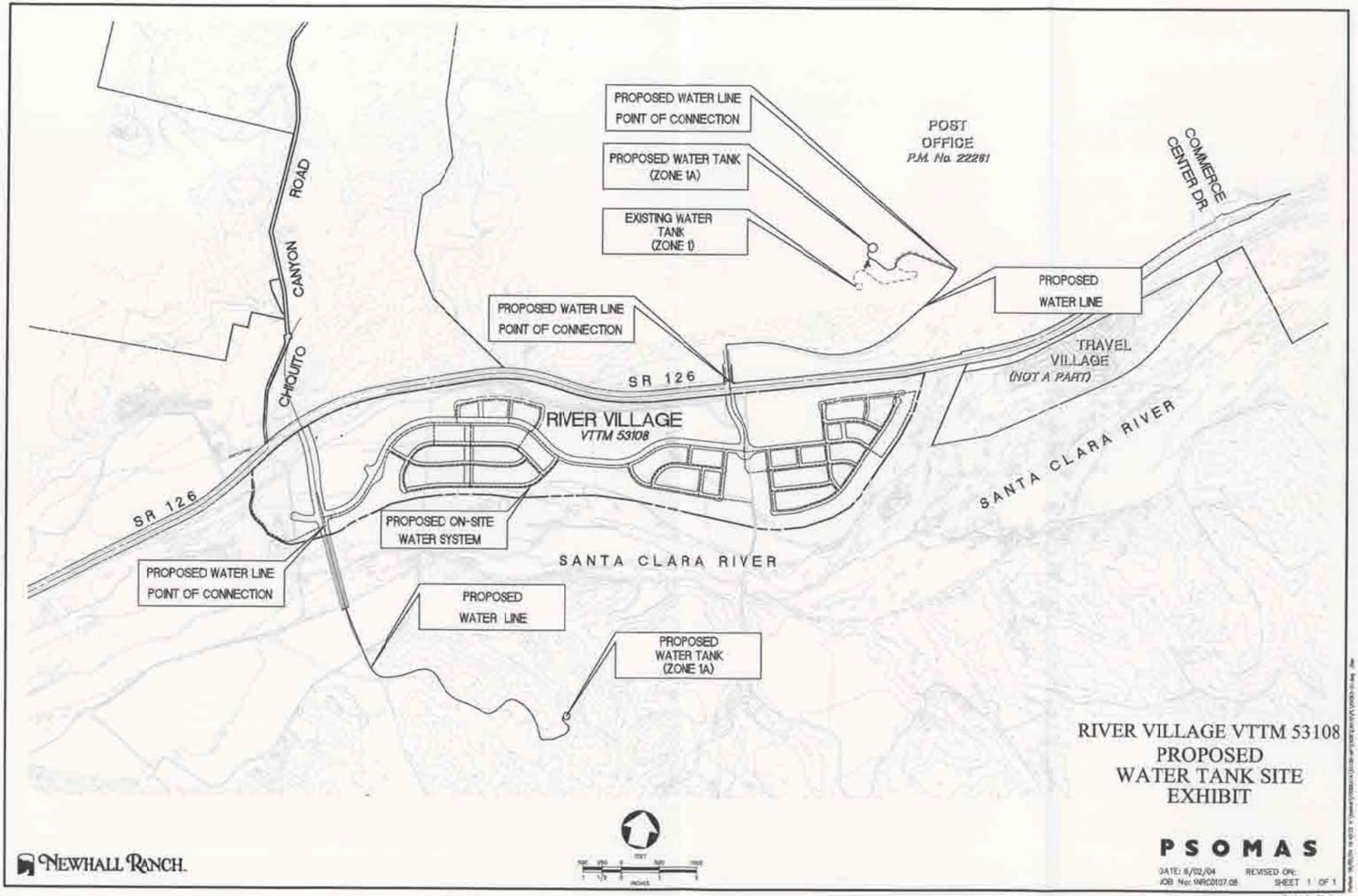
LEGEND:

- TRUNK SEWER LINE
- LOCAL SEWER LINE
- FORCE MAIN SEWER LINE
- RECLAIMED WATER LINE
- AGRICULTURAL WATER
- POTABLE WATER LINE-PRESSURE ZONE 1
- POTABLE WATERLINE-PRESSURE ZONE 1A
- STORM DRAIN
- WATER COLLECTION LINE
- GAS MAIN
- OIL LINE
- DRY UTILITY-JOINT TRENCH
- UTILITY CORRIDOR EASEMENT
- SEWER PUMP STATION
- METRO LINK RAIL

NEWHALL LAND

Newhall Ranch
UTILITY CORRIDOR STU

PSOMAS



RIVER VILLAGE VTTM 53108
PROPOSED
WATER TANK SITE
EXHIBIT

NEWHALL RANCH

PSOMAS

DATE: 6/02/04 REVISED ON:
JOB No: 1NRC0107.08 SHEET 1 OF 1

RV063-01.dwg

Governmental Database Report

The EDR Radius Map
with GeoCheck®

Tentative Tract Map No. 53108
Wolcott Way/Henry Mayo Drive
Valencia, CA 91355

Inquiry Number: 1108642.4s

January 08, 2004

Environmental Data Resources, Inc.

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06890

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

FORM JM

TABLE OF CONTENTS

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

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report 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

WOLCOTT WAY/HENRY MAYO DRIVE
VALENCIA, CA 91355

COORDINATES

Latitude (North):	34.424300 - 34° 25' 27.5"
Longitude (West):	118.637300 - 118° 38' 14.3"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	349543.9
UTM Y (Meters):	3810222.8
Elevation:	958 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	34118-D6 VAL VERDE, 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
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
CORRACTS..... Corrective Action Report
RCRIS-TSD..... Resource Conservation and Recovery Information System
ERNS..... Emergency Response Notification System

STATE ASTM STANDARD

AWP..... Annual Workplan Sites

EXECUTIVE SUMMARY

Cal-Sites..... Calsites Database
Notify 65..... Proposition 65 Records
Toxic Pits..... Toxic Pits Cleanup Act Sites
CA BOND EXP. PLAN..... Bond Expenditure Plan
VCP..... Voluntary Cleanup Program Properties
INDIAN UST..... 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
DOD..... Department of Defense Sites
US BROWNFIELDS..... A Listing of Brownfields Sites
RAATS..... RCRA Administrative Action Tracking System
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
SSTS..... Section 7 Tracking Systems
FTTS INSP..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

STATE OR LOCAL ASTM SUPPLEMENTAL

CLEANERS..... Cleaner Facilities
DEED..... List of Deed Restrictions
SCH..... School Property Evaluation Program
NFA..... No Further Action Determination
REF..... Unconfirmed Properties Referred to Another Agency
NFE..... Properties Needing Further Evaluation
AOCONCERN..... San Gabriel Valley Areas of Concern

BROWNFIELDS DATABASES

US BROWNFIELDS..... A Listing of Brownfields Sites
VCP..... Voluntary Cleanup Program Properties

EDR PROPRIETARY HISTORICAL DATABASES

See the EDR Proprietary Historical Database Section for details

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

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 09/10/2003 has revealed that there are 3 RCRIS-LQG sites within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
T A MANUFACTURING CO	*28065 W FRANKLIN PKWY*	*1/2 - 1 NE*	*10*	*15*
DEL WEST ENGINEERING	*28128 W LIVINGSTON AVE*	*1 - 2 NNE*	*E28*	*31*
PHARMAVITE LLC	*28305 W LIVINGSTON AVE*	*1 - 2 NNE*	*G35*	*36*

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 09/10/2003 has revealed that there are 4 RCRIS-SQG sites within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CHIQUITA CANYON SANITARY LANDF	*29201 HENRY MAYO DRIVE*	*1/2 - 1 W*	*B9*	*15*
R A H INDUSTRIES	*28035 HARRISON PKWY*	*1 - 2 NNE*	*E25*	*29*
TIME AVIATION SERVICES INC	*28402 W LIVINGSTON AVE*	*1 - 2 N*	*F32*	*34*
KIMBALL MICROELECTRONICS	*28575 LIVINGSTON AVE*	*1 - 2 N*	*37*	*39*

STATE ASTM STANDARD

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 8

CHMIRS sites within approximately 2.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
Not reported	27900 CHIQUITO CANYON R	1 - 2 W	13	17
Not reported	*28201 FRANKLIN PARKWAY*	*1 - 2 NE*	*D23*	*25*
Not reported	28201 FRANKLIN PKWY, B	1 - 2 NE	D24	28
Not reported	27353 SAN MARTINEZ GRAN	1 - 2 W	53	53
Not reported	*29300 THE OLD ROAD*	*>2 NE*	*K54*	*54*
Not reported	29300 THE OLD ROAD	>2 NE	K55	59
Not reported	N/B I-5, CASTAIC INSP F	>2 NE	59	67
Not reported	HASELY CYN 1MI NORTH OF	>2 NNE	61	68

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 9 Cortese sites within approximately 2.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LA CO FD FIRE TRAINING CN	28101 CHIQUITO CNYN	1 - 2 W	C19	24
SCHWARTZ OIL CO.	*27241 HENRY MAYO DR*	*1 - 2 NE*	*I44*	*44*
LA CO FD FIRE STA #076	*27223 W HENRY MAYO DR*	*1 - 2 NE*	*I47*	*47*
NEWHALL LAND & FARMING	*27230 HENRY MAYO RD*	*1 - 2 ENE*	*J52*	*51*
DIXIE DIESEL STATION	*29471 THE OLD ROAD*	*>2 NE*	*56*	*60*
NEWHALL LAND & FARMING CO	*28760 N CASTAIC CANYON*	*>2 ENE*	*L57*	*62*
TRI-R-TRUCKING	*28748 CASTAIC CANYON RD*	*>2 ENE*	*L58*	*65*
CHEVRON STATION 9 1899	*28805 THE OLD RD*	*>2 ENE*	*60*	*68*

Lower Elevation	Address	Dist / Dir	Map ID	Page
NEWHALL LAND & FARMING	*3003 WALNUT ORCHARD RD*	*1 - 2 WSW*	*14*	*18*

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 are 2 SWF/LF sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CHIQUITA CANYON LANDFILL INC	*29201 HENRY MAYO DRIVE*	*1/2 - 1 W*	*B4*	*7*
CHIQUITA CANYON LANDFILL	*29201 HENRY MAYO DR*	*1/2 - 1 W*	*B6*	*10*

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, has revealed that there are 2 WMUDS/SWAT sites

within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
UNIVERSAL BY-PRODUCTS-VALENCIA	29201 SAUGUS-VENTURA RO	1/4 - 1/2 WNW	A3	6
CHIQUITA CANYON LANDFILL	29201 HENRY MAYO DR	1/2 - 1 W	B7	13

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 04/02/2003 has revealed that there are 5 LUST sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
L A COUNTY FIRE DEPT	*28101 N CHIQUITO CANYON*	*1 - 2 W*	*C17*	*22*
SCHWARTZ OIL CO.	*27241 HENRY MAYO DR*	*1 - 2 NE*	*I44*	*44*
LA CO FD FIRE STA #076	*27223 W HENRY MAYO DR*	*1 - 2 NE*	*I47*	*47*
NEWHALL LAND & FARMING	*27230 HENRY MAYO RD*	*1 - 2 ENE*	*J52*	*51*
Lower Elevation	**Address**	**Dist / Dir**	**Map ID**	**Page**
NEWHALL LAND & FARMING	*3003 WALNUT ORCHARD RD*	*1 - 2 WSW*	*14*	*18*

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 04/02/2003 has revealed that there are 3 UST sites within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LAIDLAW WASTE SYSTEMS INC	29201 HENRY MAYO DR	1/2 - 1 W	B8	15
US POSTAL - SANTA CLARITA P&DC	28201 FRANKLIN PKWY	1 - 2 NE	D22	25
SCHWARTZ OIL CO	*27241 HENRY MAYO DR*	*1 - 2 NE*	*I43*	*43*

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 4 CA FID UST sites within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
LAIDLAW WASTE SYSTEMS INC	29201 HENRY MAYO DR	1/2 - 1 W	B5	10
FIESTA RESORT TRAVEL VILLAGE	27946 HENRY MAYO RD	1 - 2 NE	H42	42
LA CO FD FIRE STA #076	27223 HENRY MAYO DR	1 - 2 NE	I49	50
SCHUARTI OIL CO. INC.	27241 HENRY MAYO RD	1 - 2 ENE	J51	50

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 4 HIST UST sites within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
TRAVEL VILLAGE	27946 HENRY MAYO DR	1/2 - 1 ENE	11	17
SCHWARTZ OIL CO	*27241 HENRY MAYO DR*	*1 - 2 NE*	*I43*	*43*
FIRE STATION #76	27223 HENRY MAYO DR	1 - 2 NE	I48	50
R.M. PYLES BOYS CAMP, INC.	27211 HENRY MAYO DR	1 - 2 NE	I50	50

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 10/23/2003 has revealed that there are 8 FINDS sites within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CHIQUITA CANYON SANITARY LANDF	*29201 HENRY MAYO DRIVE*	*1/2 - 1 W*	*B9*	*15*
T A MANUFACTURING CO	*28065 W FRANKLIN PKWY*	*1/2 - 1 NE*	*10*	*15*
R A H INDUSTRIES	*28035 HARRISON PKWY*	*1 - 2 NNE*	*E25*	*29*
DEL WEST ENGINEERING	*28128 W LIVINGSTON AVE*	*1 - 2 NNE*	*E28*	*31*
TIME AVIATION SERVICES INC	*28402 W LIVINGSTON AVE*	*1 - 2 N*	*F32*	*34*
PHARMAVITE LLC	*28305 W LIVINGSTON AVE*	*1 - 2 NNE*	*G35*	*36*
KIMBALL MICROELECTRONICS	*28575 LIVINGSTON AVE*	*1 - 2 N*	*37*	*39*
SCHWARTZ OIL CO INC	27241 HENRY MAYO DR	1 - 2 NE	I45	47

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 07/01/2003 has revealed that there are 2 AST sites within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
DEL VALLE REGIONAL EMERGENCY T	28101 CHIQUITO CANYON R	1 - 2 W	C20	25
LA COUNTY FIRE DEPT STATION 76	27223 HENRY MAYO DR	1 - 2 NE	I46	47

WDS: California Water Resources Control Board - Waste Discharge System.

A review of the CA WDS list, as provided by EDR, and dated 09/22/2003 has revealed that there is 1 CA WDS site within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CHIQUITA CANYON LANDFILL	***29201 HENRY MAYO DR***	***1/2 - 1 W***	***B6***	***10***

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 12/31/2001 has revealed that there are 3 EMI sites within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CHIQUITA CANYON LANDFILL	***29201 HENRY MAYO DR***	***1/2 - 1 W***	***B6***	***10***
US POSTAL SERVICE, SANTA CLARI	28201 FRANKLIN PKY	1 - 2 NE	D21	25
SCHWARTZ OIL CO	***27241 HENRY MAYO DR***	***1 - 2 NE***	***I43***	***43***

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 2 CA SLIC sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
UNOCAL - LINCOLN LEASE	28101 CHIQUITO CYN	1 - 2 W	C18	24
PROPOSED SCHOOL BUS STOP	28300 LIVINGSTON	1 - 2 NNE	G34	36

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 19 HAZNET sites within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CHIQUITA CANYON LANDFILL INC	***29201 HENRY MAYO DRIVE***	***1/2 - 1 W***	***B4***	***7***
CHIQUITA CANYON LANDFILL	***29201 HENRY MAYO DR***	***1/2 - 1 W***	***B6***	***10***
T A MANUFACTURING CO	***28065 W FRANKLIN PKWY***	***1/2 - 1 NE***	***10***	***15***
BLOOMERS METAL STAMPINGS INC	28615 BRAXTON AVE	1 - 2 NE	12	17
LA CTY FIRE DEPT/DELVAL TRG CT	28101 CHIQUITO CANYON R	1 - 2 W	C16	21
Not reported	***28201 FRANKLIN PARKWAY***	***1 - 2 NE***	***D23***	***25***
R A H INDUSTRIES	***28035 HARRISON PKWY***	***1 - 2 NNE***	***E25***	***29***
EMCO	28045 W HARRISON PKWY	1 - 2 NNE	E26	30
JERRY AVALOS TRUCKING	28459 CHIQUITO CANYON R	1 - 2 WNW	27	30
DEL WEST ENGINEERING	***28128 W LIVINGSTON AVE***	***1 - 2 NNE***	***E28***	***31***
20TH CENTURY FOX,PAPI CHULO	28455 LIVINGSTON AVE	1 - 2 N	30	32
REGENT AEROSPACE INC	28110 HARRISON PKWY	1 - 2 NNE	E31	33
TIME AVIATION SERVICES	28402 W LIVINGSTON AVE	1 - 2 N	F33	34
PHARMAVITE LLC	***28305 W LIVINGSTON AVE***	***1 - 2 NNE***	***G35***	***36***

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
PHARMAVITE LLC	***28310 W LIVINGSTON AVE***	***1 - 2 NNE***	***G36***	***37***
KIMBALL MICROELECTRONICS	***28575 LIVINGSTON AVE***	***1 - 2 N***	***37***	***39***
WALT DISNEY PICTURES & TELEVIS	28150 W HARRISON PARKWA	1 - 2 NNE	38	40
THE VALENCIA TRAVEL VILLAGE	27946 HENRY MAYO ROAD,	1 - 2 NE	H41	42
SCHWARTZ OIL CO	***27241 HENRY MAYO DR***	***1 - 2 NE***	***I43***	***43***

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 8 LOS ANGELES CO. HMS sites within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
CHIQUITA CANYON LANDFILL	29201 W HENRY MAYO DR	1/4 - 1/2 WNW	A1	6
LAIDLAW WASTE SYSTEMS INC	29201 W HENRY MAYO DR	1/4 - 1/2 WNW	A2	6
L A COUNTY FIRE DEPT	***28101 N CHIQUITO CANYON***	***1 - 2 W***	***C17***	***22***
DEL WEST ENGINEERING	28128 W LIVINGSTON AVE	1 - 2 NNE	E29	32
PHARMAVITE LLC	***28310 W LIVINGSTON AVE***	***1 - 2 NNE***	***G36***	***37***
FIESTA RESORTS	27946 W HENRY MAYO DR	1 - 2 ENE	H39	41
VALENCIA TRAVEL VILLAGE	27946 W HENRY MAYO DR	1 - 2 ENE	H40	41
LA CO FD FIRE STA #076	***27223 W HENRY MAYO DR***	***1 - 2 NE***	***I47***	***47***

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 is 1 LA Co. Site Mitigation site within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
DEL VALLE TRAINING CENTER	28101 CHIQUITO CANYON R	1 - 2 W	C15	21

EDR PROPRIETARY HISTORICAL DATABASES

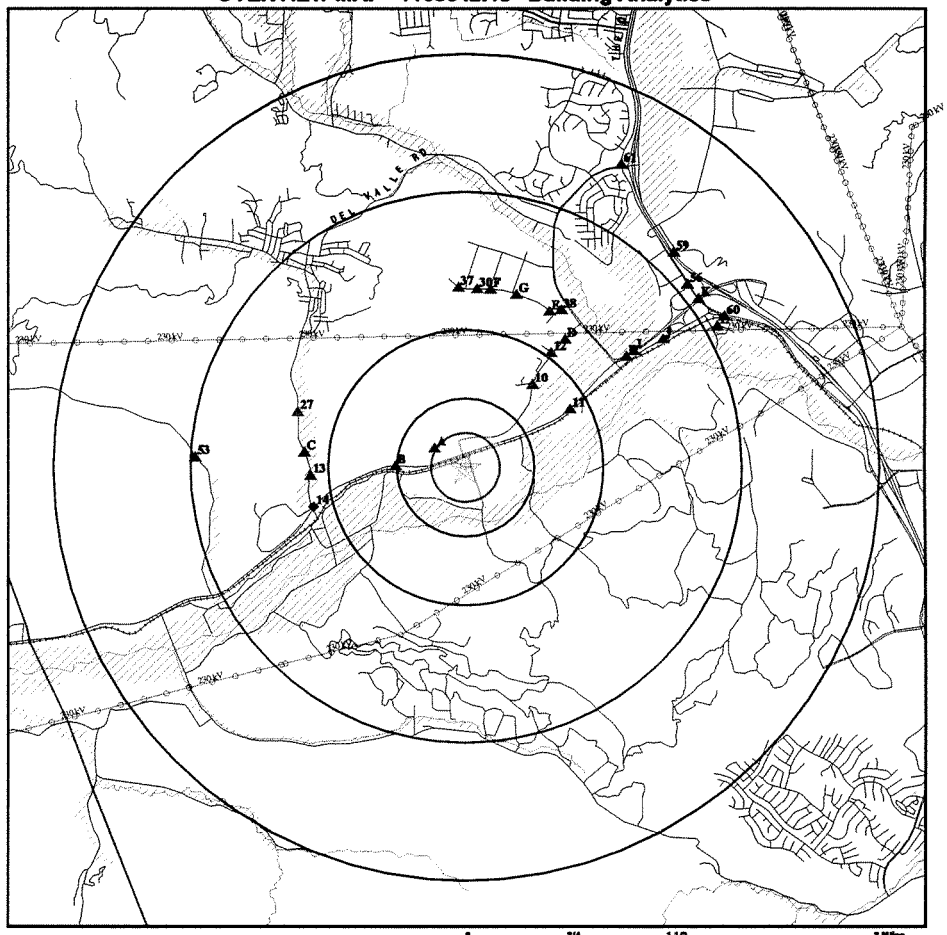
See the EDR Proprietary Historical Database Section for details

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

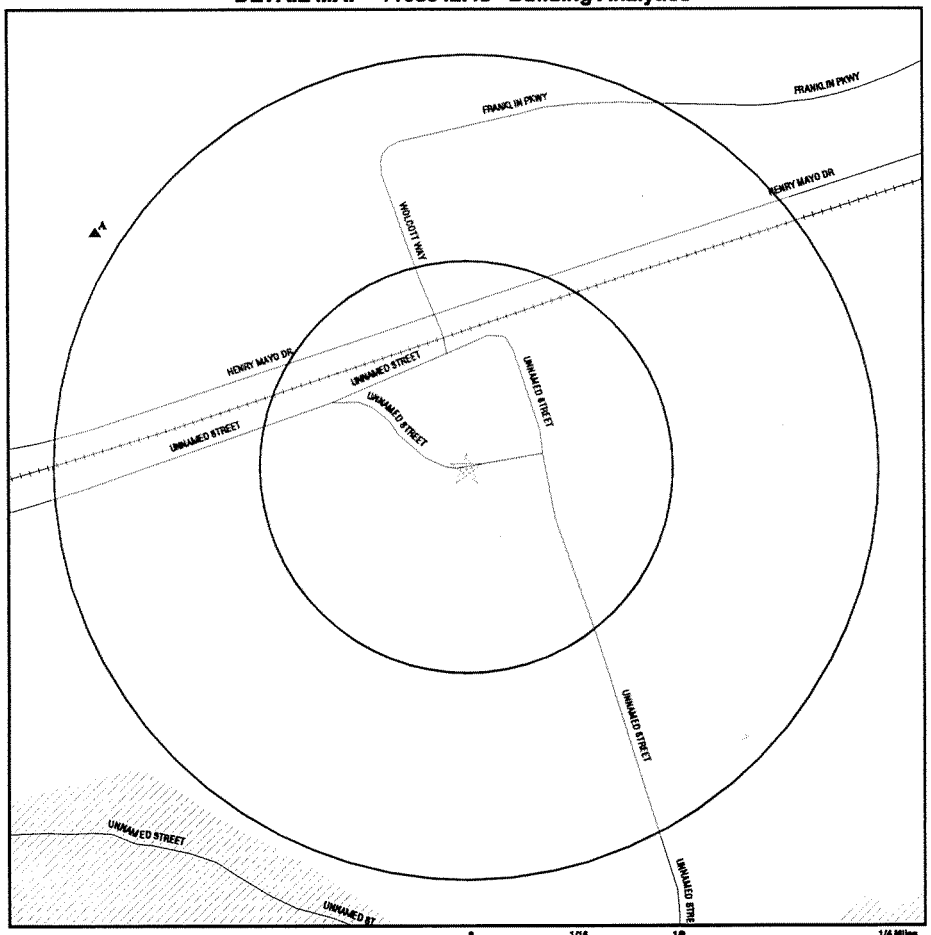
Site Name	Database(s)
PPG INDUSTRIES INC WORKS 24	RCRIS-SQG, RCRIS-TSD, FINDS, CORRACTS, CERC-NFRAP, LOS ANGELES CO. HMS
BERTH 70, LONG BEACH HARBOUR	CHMIRS, HAZNET
BERTH 30 LONG BEACH HARBOUR	CHMIRS, HAZNET
FLORENCE AVE / TELEGRAPH RD WHITTIER	CHMIRS, LUST
CSI CRIME SCENE INVESTIGATION	HAZNET
CALIFORNIA INSTITUTE OF THE ARTS	HAZNET
PRODUCTION GOODBYE LOVER	HAZNET
LOS ANGELES COUNTY FIRE DEPT	HAZNET
TECHNICAL TROUBLE SHOOTING	HAZNET
HOWARD CUSTOM BOATS INCORPORATED	FINDS, EMI, HAZNET
DEPARTMENT OF TRANSPORTATION	RCRIS-SQG, FINDS
TWO WATER WELLS RESTORATION	CA WDS
COMMERCE CENTER BRIDGE	CA WDS
CASTAIC CREEK CHANNEL LINING	CA WDS
HWY. 126 BRIDGE	CA WDS
GOLDEN VALLEY ROAD EXTENSION	CA WDS
WATER WELL NO. W-11	CA WDS
GRUBER SYSTEMS, INC	REF
SCHOOL ON 18 ACRE SITE	SCH

OVERVIEW MAP - 1108642.4s - Building Analytics



TARGET PROPERTY:	Tentative Tract Map No. 53108	CUSTOMER:	Building Analytics
ADDRESS:	Wolcott Way/Henry Mayo Drive	CONTACT:	Joe Montoya
CITY/STATE/ZIP:	Valencia CA 91355	INQUIRY #:	1108642.4s
LAT/LONG:	34.4243 / 118.6373	DATE:	January 08, 2004 12:46 pm

DETAIL MAP - 1108642.4s - Building Analytics



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites
- Historical Gas Stations / Historical Dry Cleaners See the EDR Proprietary Historical Map Findings
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- County Boundary
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

TARGET PROPERTY:	Tentative Tract Map No. 53108	CUSTOMER:	Building Analytics
ADDRESS:	Wolcott Way/Henry Mayo Drive	CONTACT:	Joe Montoya
CITY/STATE/ZIP:	Valencia CA 91355	INQUIRY #:	1108642.4s
LAT/LONG:	34.4243 / 118.6373	DATE:	January 08, 2004 12:47 pm

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		2.500	0	0	0	0	0	0
Proposed NPL		2.500	0	0	0	0	0	0
CERCLIS		2.000	0	0	0	0	0	0
CERC-NFRAP		1.750	0	0	0	0	0	0
CORRACTS		2.500	0	0	0	0	0	0
RCRIS-TSD		2.000	0	0	0	0	0	0
RCRIS Lg. Quan. Gen.		1.750	0	0	0	1	2	3
RCRIS Sm. Quan. Gen.		1.750	0	0	0	1	3	4
ERNS		1.500	0	0	0	0	0	0
STATE ASTM STANDARD								
AWP		2.500	0	0	0	0	0	0
Cal-Sites		2.500	0	0	0	0	0	0
CHMIRS		2.500	0	0	0	0	8	8
Cortese		2.500	0	0	0	0	9	9
Notify 65		2.500	0	0	0	0	0	0
Toxic Pits		2.500	0	0	0	0	0	0
State Landfill		2.000	0	0	0	2	0	2
WMUDS/SWAT		2.000	0	0	1	1	0	2
LUST		2.000	0	0	0	0	5	5
CA Bond Exp. Plan		2.500	0	0	0	0	0	0
UST		1.750	0	0	0	1	2	3
VCP		2.000	0	0	0	0	0	0
INDIAN UST		1.750	0	0	0	0	0	0
CA FID UST		1.750	0	0	0	1	3	4
HIST UST		1.750	0	0	0	1	3	4
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		2.500	0	0	0	0	0	0
ROD		2.500	0	0	0	0	0	0
Delisted NPL		2.500	0	0	0	0	0	0
FINDS		1.500	0	0	0	2	6	8
HMIRS		1.500	0	0	0	0	0	0
MLTS		1.500	0	0	0	0	0	0
MINES		1.750	0	0	0	0	0	0
NPL Liens		1.500	0	0	0	0	0	0
PADS		1.500	0	0	0	0	0	0
DOD		2.500	0	0	0	0	0	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
RAATS		1.500	0	0	0	0	0	0
TRIS		1.500	0	0	0	0	0	0
TSCA		1.500	0	0	0	0	0	0
SSTS		1.500	0	0	0	0	0	0
FTTS		1.500	0	0	0	0	0	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
AST		1.500	0	0	0	0	2	2

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
CLEANERS		1.750	0	0	0	0	0	0
CA WDS		1.500	0	0	0	1	0	1
DEED		1.500	0	0	0	0	0	0
SCH		1.750	0	0	0	0	0	0
NFA		1.750	0	0	0	0	0	0
EMI		1.500	0	0	0	1	2	3
REF		1.750	0	0	0	0	0	0
NFE		1.750	0	0	0	0	0	0
CA SLIC		2.000	0	0	0	0	2	2
HAZNET		1.750	0	0	0	3	16	19
Los Angeles Co. HMS		1.500	0	0	2	0	6	8
LA Co. Site Mitigation		1.500	0	0	0	0	1	1
AOCONCERN		2.500	0	0	0	0	0	0
EDR PROPRIETARY HISTORICAL DATABASES								
Gas Stations/Dry Cleaners		0.250	0	0	NR	NR	NR	0
Coal Gas		2.500	0	0	0	0	0	0
BROWNFIELDS DATABASES								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
VCP		2.000	0	0	0	0	0	0

NOTES:

See the EDR Proprietary Historical Database Section for details

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.) / Elevation | Site | Database(s) | EDR ID Number / EPA ID Number

A1
WNW
1/4-1/2
1402 ft.

CHIQUITA CANYON LANDFILL — LOS ANGELES CO. HMS — 1001865073 / N/A
29201 W HENRY MAYO DR
UNINCORPORATED, CA

Site 1 of 3 in cluster A

Relative: Higher

Actual: 1034 ft.

HMS:

Facility Id:	005897-I06111		
Area:	7		
Facility Type:	I08		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Permit		
Region:	Los Angeles County:		
Facility Id:	005897-037921		
Area:	7		
Facility Type:	I09		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		
Facility Id:	005897-037920		
Area:	7		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Permit
Facility Status:	Permit		
Region:	Los Angeles County:		

A2
WNW
1/4-1/2
1402 ft.

LAIDLAW WASTE SYSTEMS INC — LOS ANGELES CO. HMS — S102064584 / N/A
29201 W HENRY MAYO DR
UNINCORPORATED, CA

Site 2 of 3 in cluster A

Relative: Higher

Actual: 1034 ft.

HMS:

Facility Id:	005897-006111		
Area:	7		
Facility Type:	T0		
Permit Number:	174	Permit Status:	Closed
Facility Status:	Permit		
Region:	Los Angeles County:		

A3
WNW
1/4-1/2
1402 ft.

UNIVERSAL BY-PRODUCTS-VALENCIA — WMUDS/SWAT — S103441396 / N/A
29201 SAUGUS-VENTURA ROAD
VALENCIA, CA

Site 3 of 3 in cluster A

Relative: Higher

Actual: 1034 ft.

WMUDS:

Region:	4
Date of Last Facility Edit:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System ID:	4 190133NUR
Solid Waste Information ID:	Not reported
Waste Discharge System:	False
Solid Waste Assessment Test Program:	True
Facility Name:	Not reported
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act Program:	False
Department of Defense:	False

UNIVERSAL BY-PRODUCTS-VALENCIA (Continued) **S103441396**

Open to Public:	False
Number of WMUDS at Facility:	1
Facility Telephone:	Not reported
Primary Standard Industrial Classification:	Not reported
Secondary Standard Industrial Classification:	Not reported
Solid Waste Assessment Test Program Name:	UNIVERSAL BY-PRODUCTS
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Sub Chapter 15:	False
Reg. Board Project Officer:	LT
Section Range:	Not reported
RCRA Facility:	Not reported
Waste Discharge Requirements:	Not reported
Base Meridian:	Not reported
Waste List:	False
Facility Description:	Not reported
Self-Monitoring Rept. Frequency:	Not reported

Threat to Water Quality:Not reported

Agency:	UNIVERSAL BY-PRODUCTS
Address:	Not reported
Department:	Not reported
Contact:	Not reported
Telephone:	Not reported
Landowner:	Not reported
Address:	CA
Telephone:	Not reported
Contact:	Not reported

B4 West 1/2-1 2690 ft.

Relative: Higher

Actual: 974 ft.

CHIQUITA CANYON LANDFILL INC **HAZNET S100932492**
29201 HENRY MAYO DRIVE **SWF/LF N/A**
VALENCIA, CA 91355

Site 1 of 6 in cluster B

LF:

Facility ID:	19-AA-0052
Operator:	Republic Services Of California I, L.L.C
Operator Phone:	(661) 257-3655
Operator Addr:	29201 Henry Mayo Drive Valencia, CA 91355
Owner:	Republic Services Of California I, L.L.C
Owner Address:	Not reported 29201 Henry Mayo Drive Valencia, CA 91355
Owner Telephone:	(661) 257-3655
Activity:	Solid Waste Landfill
Operator's Status:	Active
Regulation Status:	Permitted
Region:	STATE
Lat/Long:	34 / -119
Permit Date:	Not reported
Accepted Waste:	Construction/demolition,Green Materials,Industrial,Inert,Mixed municipal
Restrictions:	
Status :	Not reported
Swisnumber :	Not reported
Site Type :	Not reported

CHIQUITA CANYON LANDFILL INC (Continued) **S100932492**

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:	6000
Permitted Throughput with Units:	6000
Permitted Throughput with Units:	6000
Actual Throughput with Units:	Tons/day
Actual Capacity with Units:	45889550
Permitted Capacity with Units:	45889550
Remaining Capacity with Units:	Cubic Yards
Permitted Total Acreage:	592
Inspection Frequency:	Monthly
Landuse Name:	Residential,Recreational,Industrial,Agricultural
GIS Source:	Map
Permit Status:	Permitted
Category:	Disposal
Unit Number:	01
Last Waste Tire Inspection Count :	Not reported
Last Waste Tire Inspection Date:	Not reported
Original Waste Tire Count:	Not reported
Original Waste Tire Count Date:	Not reported
Closure Date:	11/24/2019
Closure Type:	Estimated
Disposal Acreage:	257
Remaining Capacity:	26024360

HAZNET:

Gepaid:	CAL000035857
TSD EPA ID:	AZD049318009
Gen County:	Los Angeles
Tsd County:	99
Tons:	.4250
Waste Category:	Laboratory waste chemicals
Disposal Method:	Transfer Station
Contact:	CHIQUITA CANYON LANDFILL INC
Telephone:	(805) 257-3655
Mailing Address:	29201 HENRY MAYO DR VALENCIA, CA 91355
County	Los Angeles

CHIQUITA CANYON LANDFILL INC (Continued) S100932492

Gepaid: CAL000035857
TSD EPA ID: AZD049318009
Gen County: Los Angeles
Tsd County: 99
Tons: .5000
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Contact: CHIQUITA CANYON LANDFILL INC
Telephone: (805) 257-3655
Mailing Address: 29201 HENRY MAYO DR
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000035857
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .2400
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Contact: CHIQUITA CANYON LANDFILL INC
Telephone: (805) 257-3655
Mailing Address: 29201 HENRY MAYO DR
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000035857
TSD EPA ID: CAT000613893
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .1542
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: CHIQUITA CANYON LANDFILL INC
Telephone: (805) 257-3655
Mailing Address: 29201 HENRY MAYO DR
VALENCIA, CA 91355
County Los Angeles

Gepaid: CAL000035857
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.0850
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: CHIQUITA CANYON LANDFILL INC
Telephone: (805) 257-3655
Mailing Address: 29201 HENRY MAYO DR
VALENCIA, CA 91355
County Los Angeles

The CA HAZNET database contains 16 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.) / Elevation | Site | Database(s) | EDR ID Number / EPA ID Number

CHIQUITA CANYON LANDFILL INC (Continued) S100932492

B5 **LAIDLAW WASTE SYSTEMS INC** CA FID UST S101586012
West **29201 HENRY MAYO DR** N/A
1/2-1 **VALENCIA, CA 91355**
2690 ft.

Site 2 of 6 in cluster B

Relative: Higher

Actual: 974 ft.

FID:
Facility ID: 19036223 Regulate ID: Not reported
Reg By: Active Underground Storage Tank Location
Cortese Code: Not reported SIC Code: Not reported
Status: Active Facility Tel: (805) 257-3655
Mail To: Not reported
29201 HENRY MAYO DR
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

B6 **CHIQUITA CANYON LANDFILL** CA WDS 1002687338
West **29201 HENRY MAYO DR** EMI N/A
1/2-1 **VALENCIA, CA 91310** HAZNET
2690 ft. SWF/LF

Site 3 of 6 in cluster B

Relative: Higher

Actual: 974 ft.

LF:
Facility ID: Not reported
Operator: Not reported
Operator Phone: Not reported
Operator Addr:
Owner: Not reported
Owner Address: Not reported
Not reported
Owner Telephone: Not reported
Activity: Not reported
Operator's Status: Not reported
Regulation Status: Not reported
Region: LOS ANGELES
Lat/Long: Not reported
Permit Date: Not reported
Accepted Waste:
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

CHIQUITA CANYON LANDFILL (Continued) **1002687338**

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:	Not reported
Permitted Throughput with Units:	Not reported
Permitted Throughput with Units:	Not reported
Actual Throughput with Units:	Not reported
Actual Capacity with Units:	Not reported
Permitted Capacity with Units:	Not reported
Remaining Capacity with Units:	Not reported
Permitted Total Acreage:	Not reported
Inspection Frequency:	Not reported
Landuse Name:	Not reported
GIS Source:	Not reported
Permit Status:	Not reported
Category:	Not reported
Unit Number:	Not reported
Last Waste Tire Inspection Count :	Not reported
Last Waste Tire Inspection Date:	Not reported
Original Waste Tire Count:	Not reported
Original Waste Tire Count Date:	Not reported
Closure Date:	/ /
Closure Type:	Not reported
Disposal Acreage:	Not reported
Remaining Capacity:	Not reported

HAZNET:

Gepaid:	CAL000196316
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.00
Waste Category:	Off-specification, aged, or surplus organics
Disposal Method:	Transfer Station
Contact:	MATT TERRELL
Telephone:	(661) 257-3655
Mailing Address:	29201 HENRY MAYO DR VALENCIA, CA 91355
County	Not reported

Gepaid:	CAL000196316
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.14
Waste Category:	Off-specification, aged, or surplus organics
Disposal Method:	Recycler
Contact:	MATT TERRELL
Telephone:	(661) 257-3655
Mailing Address:	29201 HENRY MAYO DR VALENCIA, CA 91355
County	Not reported

CHIQUITA CANYON LANDFILL (Continued) **1002687338**

Gepaid:	CAL000196316
TSD EPA ID:	Not reported
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	1.66
Waste Category:	Waste oil and mixed oil
Disposal Method:	Recycler
Contact:	MATT TERRELL
Telephone:	(661) 257-3655
Mailing Address:	29201 HENRY MAYO DR VALENCIA, CA 91355
County	Not reported

Gepaid:	CAL000196316
TSD EPA ID:	CAD008252405
Gen County:	Los Angeles
Tsd County:	Los Angeles
Tons:	0.0166
Waste Category:	Off-specification, aged, or surplus organics
Disposal Method:	Recycler
Contact:	REPUBLIC SERVICES OF CA I LLC
Telephone:	(661) 257-3655
Mailing Address:	29201 HENRY MAYO DR VALENCIA, CA 91355
County	Los Angeles

Gepaid:	CAL000196316
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:	REPUBLIC SERVICES OF CA I LLC
Telephone:	(661) 257-3655
Mailing Address:	29201 HENRY MAYO DR VALENCIA, CA 91355
County	Los Angeles

The CA HAZNET database contains 8 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

WDS:

Facility ID:	0		
Facility Contact	Mike Dean (General manager)	Facility Telephone	(661) 257-3655
SIC Code:	4953	SIC Code 2:	Not reported
Agency Name:	A REPUBLIC WASTE SERVICES CO.		
Agency Address:	0		
Agency Contact:	Not reported	Agency Phone:	Not reported
Design Flow:	0 Million Gal/Day	Baseline Flow:	0 Million Gal/Day
Facility Type:	Solid Waste Site-Class III - Landfills for non hazardous solid wastes.		
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.		
Agency Type:	Private		
Waste Type:	Solid Wastes - Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).		

CHIQUITA CANYON LANDFILL (Continued) **1002687338**

Threat to Water: Not reported
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 facility is not a POTW.
NPDES Number: Not reported
Subregion: 4

EMISSIONS :

Facility ID :	61029
Air District Code :	SC
SIC Code :	4959
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
Total Organic Hydrocarbon Gases :	2
Reactive Organic Gases :	1
Carbon Monoxide Emissions :	6
NOX Gas Emissions (Nitrogen - Oxygen) :	5
SOX Gas Emissions (Sulphur - Oxygen) :	3

Facility ID :	61029
Air District Code :	SC
SIC Code :	4959
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
Total Organic Hydrocarbon Gases :	Not reported
Reactive Organic Gases :	Not reported
Carbon Monoxide Emissions :	Not reported
NOX Gas Emissions (Nitrogen - Oxygen) :	Not reported
SOX Gas Emissions (Sulphur - Oxygen) :	Not reported

B7 **CHIQUITA CANYON LANDFILL** **WMUDS/SWAT** **1001526767**
West **29201 HENRY MAYO DR** **N/A**
1/2-1 **VALENCIA CA, CA 91310**
2690 ft.

Site 4 of 6 in cluster B

Relative:
Higher

Actual:
974 ft.

WMUDS:

Region:	4
Date of Last Facility Edit:	11/22/1996
Last Facility Editors:	JHM, JHM, JHM
Waste Discharge System ID:	4A190359001
Solid Waste Information ID:	19-AA-0052
Waste Discharge System:	True
Solid Waste Assessment Test Program:	True

CHIQUITA CANYON LANDFILL (Continued) **1001526767**

Facility Name:	LAIDLAW WASTE SYSTEMS CHIQUITA, INC.
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act Program:	False
Department of Defense:	False
Open to Public:	False
Number of WMUDS at Facility:	5
Facility Telephone:	(805) 257-3655
Primary Standard Industrial Classification:	4953
Secondary Standard Industrial Classification:	Not reported
Solid Waste Assessment Test Program Name:	LAIDLAW WASTE SYSTEMS CHIQUITA, INC
NPID:	Not reported
Tonnage:	5000
Regional Board ID:	67-20
Municipal Solid Waste:	True
Superorder:	True
Sub Chapter 15:	True
Reg. Board Project Officer:	Not reported
Section Range:	04N17W14
RCRA Facility:	No
Waste Discharge Requirements:	A
Base Meridian:	SB
Waste List:	True
Facility Description:	Not reported
Self-Monitoring Rept. Frequency:	Quarterly Submittal

Threat to Water Quality: 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.
Facility Type: Solid Waste Site-Class III - Landfills for non hazardous solid wastes.
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.
Prime Waste: Solid Wastes - Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Agency: USA WASTE
Address: 29201 HENRY MAYO DRIVE
VALENCIA CA 91310
Department: REGIONAL ENGINEER
Contact: RYAN WURGLER
Telephone: (805) 257-3655
Type: Private
Landowner: NEWHALL LAND & FARMING
Address: 27050 HENRY MAYO DR.
CASTAIC, CA 91310
Telephone: (805) 255-4000
Contact: Not reported
Comments: REGIONAL BOARD SAYS 3500 TONS PER DAY...

CHIQUITA CANYON LANDFILL (Continued) — **1001526767**

B8 **LAIDLAW WASTE SYSTEMS INC** — **UST** **U003776127**
West **29201 HENRY MAYO DR** — **N/A**
1/2-1 **CASTAIC, CA 91384**
2690 ft.

Site 5 of 6 in cluster B

Relative: **Higher**

Actual: **974 ft.**

State UST:
Facility ID: 6111
Region: STATE
Local Agency: 19000

B9 **CHIQUITA CANYON SANITARY LANDFILL** — **RCRIS-SQG** **1000820545**
West **29201 HENRY MAYO DRIVE** — **FINDS** **CAD983666041**
1/2-1 **CASTAIC, CA 91384**
2690 ft.

Site 6 of 6 in cluster B

Relative: **Higher**

Actual: **974 ft.**

RCRIS:
Owner: LAIDLAW WASTE SYSTEMS INC
(805) 257-3655
EPA ID: CAD983666041
Contact: SONNY STAATS
(805) 257-3655
Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
AIRS/AIRS Facility Subystem (AIRS/AFS)
National Emissions Inventory (NEI)
National Emissions Trends (NET)
National Toxics Inventory (NTI)
Resource Conservation and Recovery Act Information system (RCRAINFO)
Solid Waste Inventory System (California sub-system of landfills) (SWIS)

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10 **T A MANUFACTURING CO** — **RCRIS-LQG** **1001231332**
NE **28065 W FRANKLIN PKWY** — **FINDS** **CAR000039230**
1/2-1 **VALENCIA, CA 91355** — **HAZNET**
4090 ft.

Relative: **Higher**

Actual: **983 ft.**

RCRIS:
Owner: T A MANUFACTURING CO
(805) 775-1100
EPA ID: CAR000039230
Contact: DAVID SCHMIDT
(805) 775-1100
Classification: Large Quantity Generator
TSDF Activities: Not reported

T A MANUFACTURING CO (Continued) — **1001231332**

Violation Status: No violations found

FINDS:
Other Pertinent Environmental Activity Identified at Site:
Resource Conservation and Recovery Act Information system (RCRAINFO)

HAZNET:
Gepaid: CAR000039230
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 0.00
Waste Category: Other inorganic solid waste
Disposal Method: Treatment, Incineration
Contact: ERIC BENFORD
Telephone: (661) 775-1100
Mailing Address: 28065 W FRANKLIN PKWY
VALENCIA, CA 91355
County Not reported

Gepaid: CAR000039230
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 0.10
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Disposal, Land Fill
Contact: ERIC BENFORD
Telephone: (661) 775-1100
Mailing Address: 28065 W FRANKLIN PKWY
VALENCIA, CA 91355
County Not reported

Gepaid: CAR000039230
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 0.04
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Recycler
Contact: ERIC BENFORD
Telephone: (661) 775-1100
Mailing Address: 28065 W FRANKLIN PKWY
VALENCIA, CA 91355
County Not reported

Gepaid: CAR000039230
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 3.62
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: ERIC BENFORD
Telephone: (661) 775-1100
Mailing Address: 28065 W FRANKLIN PKWY
VALENCIA, CA 91355
County Not reported

T A MANUFACTURING CO (Continued) — **1001231332**

Gepaid: CAR000039230
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.40
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Contact: ERIC BENFORD
Telephone: (661) 775-1100
Mailing Address: 28065 W FRANKLIN PKWY
VALENCIA, CA 91355
County: Not reported

The CA HAZNET database contains 55 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

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11 ENE 1/2-1 4583 ft. — **TRAVEL VILLAGE** — HIST UST — U001567876 — N/A
27946 HENRY MAYO DR
CASTAIC, CA 91355

Relative: Higher
Actual: 984 ft.

UST HIST:
Facility ID: 41379 — Facility Status: Not reported
Total Tanks: 1 — Region: STATE
Owner Name: NEWHALL INVESTMENT PROPERTIES — Box Number: Not reported
Owner Address: 23823 VALENCIA BOULEVARD
VALENCIA, CA 91355

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12 NE > 1 5500 ft. — **BLOOMERS METAL STAMPINGS INC** — HAZNET — S105724739 — N/A
28615 BRAXTON AVE
VALENCIA, CA 91355

Relative: Higher
Actual: 1020 ft.

HAZNET:
Gepaid: CAL000214634
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Kings
Tons: 4.21
Waste Category: Other inorganic solid waste
Disposal Method: Disposal, Land Fill
Contact: PERRY BLOOMER / VICE PRESIDENT
Telephone: (661) 257-2955
Mailing Address: 28615 BRAXTON AVE
VALENCIA, CA 91355
County: Not reported

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13 West > 1 5954 ft. — CHMIRS — S100216887 — N/A
27900 CHIQUITO CANYON ROAD
UNINC, CA

Relative: Higher
Actual: 962 ft.

CHMIRS:
OES Control Number: 8904996
Chemical Name: Not reported
Extent of Release: Not reported
Property Use: Petroleum Refinery

(Continued) — **S100216887**

Incident Date: 23-FEB-89
Date Completed: 23-FEB-89
Time Completed : 2035
Agency Id Number : 19110
Agency Incident Number : 52
OES Incident Number : 8904996
Time Notified : 1915
Surrounding Area : 946
Estimated Temperature : Not reported
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 : 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 W. EVERETT
Report Date : 26-FEB-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

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14 WSW > 1 6031 ft. — **NEWHALL LAND & FARMING** — Cortese LUST — S102434348 — N/A
3003 WALNUT ORCHARD RD
VALENCIA, CA 91350

Relative: Lower
Actual: 949 ft.

State LUST:
Cross Street: HENRY MAYO DRIVE
Qty Leaked: Not reported
Case Number I-14101
Reg Board: 4
Chemical: Gasoline
Lead Agency: Regional Board

NEWHALL LAND & FARMING (Continued) **S102434348**

Local Agency : 19000
Case Type: Soil only
Status: Case Closed
Review Date: Not reported
Workplan: 3/9/90
Pollution Char: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: 06/27/1996
Release Date: 03/09/1990
Cleanup Fund Id : Not reported
Discover Date : 01/25/1989
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 03/05/1990
Funding: Federal Funds
Staff Initials: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Interim : Not reported
Leak Cause: UNK
Leak Source: UNK
MTBE Date : / /
Max MTBE GW : 0 Parts per Billion
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Priority: Not reported
Local Case # : Not reported
Beneficial: Not reported
Staff : JLC
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: Not reported
Operator : JONES, ROGER ALSO SEE I-14100
Oversight Prgm: RB Lead Underground Storage Tank
Oversight Prgm : UST
Review Date : 07/22/1998
Stop Date : 01/25/1989
Work Suspended : Not reported
Responsible Party: NEWHALL LAND AND FARM
RP Address: 23823 VALENCIA BLVD., VAKENCIA, 91355 C
Global Id: T0603704137
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 1
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: 3/9/90
Remed Plan: Not reported

LUST Region 4:
Report Date: 3/9/1990
Lead Agency: Regional Board
Local Agency: 19000
Case Number: I-14101
Substance: Gasoline

NEWHALL LAND & FARMING (Continued) **S102434348**

Case Type: Soil
Status: Case Closed
Region: 4
Staff: Not reported
Source of Cleanup Funding: Federal Funds
Date the Leak was Discovered: 1/25/1989
How the Leak was Discovered: Tank Closure
How the Leak was Stopped: Close Tank
Cause of Leak: Unknown
Leak Source: Unknown
Date The Leak was Stopped: 1/25/1989
Date Confirmation Leak Began: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 3/9/1990
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: 6/27/1996
Date Case Last Changed on Database: 7/22/1998
Enforcement Action Date: Not reported
Date Leak First Reported: 3/9/1990
Enforcement Type: Not reported
Global ID : T0603704137
Organization : 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
Regional Board: 04
Owner Contact: Not reported
Responsible Party: NEWHALL LAND AND FARM
RP Address: 23823 VALENCIA BLVD., VAKENCIA, 91355 C
Significant Interim Remedial Action Taken: Not reported
Program : UST
Lat / Long : 34.4200613 / -118.6567124
MTBE Counts : 0
MTBE Fuel : 1
MTBE Tested : NT
Local Agency Staff: UNK
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 : Not reported
Substance Quantity : Not reported
Abatement Method Used at the Site: Not reported
Operator : JONES, ROGER ALSO SEE I-14100
Water System : WALNUT HILL
Well Name : WELL C-6
Approx. Dist To Production Well (ft) : 8339.414175664259907788982 95
W Global ID : W0603709014
Assigned Name : 04N/17W-14Q07 S

NEWHALL LAND & FARMING (Continued) S102434348

MTBE Class : Not reported

CORTESE:
Region: CORTESE
Fac Address 2: 3003 WALNUT ORCHARD RD

C15 **DEL VALLE TRAINING CENTER** LA Co. Site Mitigation S103697023
West **28101 CHIQUITO CANYON RD** N/A
> 1 **SCV, CA 91350**
6207 ft.

Site 1 of 6 in cluster C

Relative: **Higher**

Site Mitigation Log:
Case Number: 91S259
Abatement Date: 08/12/97
Actual: **994 ft.** Thomas Guide Page Numbers: 4549C2

C16 **LA CTY FIRE DEPT/DELVAL TRG CTR** HAZNET S103649248
West **28101 CHIQUITO CANYON ROAD** N/A
> 1 **CASTAIC, CA 91384**
6207 ft.

Site 2 of 6 in cluster C

Relative: **Higher**

HAZNET:
Gepaid: CAL000100193
TSD EPA ID: CAT080013352
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .6255
Actual: **994 ft.** Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: COUNTY OF LOS ANGELES-FIRE DEP
Telephone: (818) 448-0161
Mailing Address: 1320 N EASTERN AVE
LOS ANGELES, CA 90063 - 3294
County Los Angeles

Gepaid: CAL000100193
TSD EPA ID: CAD000088252
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .5293
Waste Category: Other inorganic solid waste
Disposal Method: Transfer Station
Contact: COUNTY OF LOS ANGELES-FIRE DEP
Telephone: (818) 448-0161
Mailing Address: 1320 N EASTERN AVE
LOS ANGELES, CA 90063 - 3294
County Los Angeles

Gepaid: CAL000100193
TSD EPA ID: CAD000088252
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3880
Waste Category: Other inorganic solid waste
Disposal Method: Transfer Station
Contact: COUNTY OF LOS ANGELES-FIRE DEP
Telephone: (818) 448-0161
Mailing Address: 1320 N EASTERN AVE

LA CTY FIRE DEPT/DELVAL TRG CTR (Continued) S103649248

LOS ANGELES, CA 90063 - 3294
County Los Angeles

C17 **L A COUNTY FIRE DEPT** LOS ANGELES CO. HMS S102064540
West **28101 N CHIQUITO CANYON RD** LUST N/A
> 1 **CASTAIC, CA 91384**
6207 ft.

Site 3 of 6 in cluster C

Relative: **Higher**

State LUST:
Cross Street: SAN MARTINEZ CYN RD
Qty Leaked: Not reported
Actual: **994 ft.** Case Number R-00003
Reg Board: 4
Chemical: Hydrocarbons
Lead Agency: Local Agency
Local Agency : 19000
Case Type: Soil only
Status: Leak being confirmed
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Review Date: 04/10/1991 Confirm Leak: 04/10/1991
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: 12/03/1997
Cleanup Fund Id : Not reported
Discover Date : 04/10/1991
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 02/18/1998
Funding: Not reported
Staff Initials: Not reported
How Discovered: OM
How Stopped: Not reported
Interim : Not reported
Leak Cause: Not reported
Leak Source: Tank
MTBE Date : / /
Max MTBE GW : 0 Parts per Billion
MTBE Tested: Not Required to be Tested.
Priority: Not reported
Local Case # : Not reported
Beneficial: Not reported
Staff : JLC
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: Not reported
Operator : Not reported
Oversight Prgm: Local Implementing Agency UST (includes non-LOP cases within LOP jurisdiction)
Oversight Prgm : LIA
Review Date : 12/03/1997
Stop Date : / /
Work Suspended : Not reported
Responsible Party UNOCAL CORP

L A COUNTY FIRE DEPT (Continued) **S102064540**

RP Address: 2125 KNOLL DR., P.O. BOX 6176, VENTURA, CA 93003
Global Id: T0603704507
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

LUST Region 4:
Report Date: 12/3/1997
Lead Agency: Local Agency
Local Agency: 19000
Case Number: R-00003
Substance: Hydrocarbons
Case Type: Soil
Status: Leak being confirmed
Region: 4
Staff: Not reported

Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	4/10/1991
How the Leak was Discovered:	Other Means
How the Leak was Stopped:	Close Tank
Cause of Leak:	Not reported
Leak Source:	Tank
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	4/10/1991
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
Date Case Last Changed on Database:	12/3/1997
Enforcement Action Date:	Not reported
Date Leak First Reported:	12/3/1997
Enforcement Type:	Not reported
Global ID :	T0603704507
Organization :	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
Regional Board:	04

Owner Contact: Not reported

Responsible Party:	UNOCAL CORP
RP Address:	2125 KNOLL DR., P.O. BOX 6176, VENTURA, CA 93003
Significant Interim Remedial Action Taken:	Not reported
Program :	LIA
Lat / Long :	34.4358266 / -118.6591324
MTBE Counts :	0
MTBE Fuel :	0

L A COUNTY FIRE DEPT (Continued) **S102064540**

MTBE Tested :	NRQ
Local Agency Staff:	UNK
Summary :	TPH 17000 PPM, 36000 PPM & 20000 PPM IN SOIL DEPTH TO GW 300 FT BGS.
Hydrologic Basin # :	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:	Excavate and Dispose
Operator :	Not reported
Water System :	WALNUT HILL
Well Name :	WELL C-6
Approx. Dist To Production Well (ft) :	9199.31482410373742409151O048
W Global ID :	W0603709014
Assigned Name :	04N/17W-14Q07 S
MTBE Class :	Not reported

HMS:
Facility Id: 000003-I00003
Area: 7
Facility Type: I09
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

Facility Id: 000003-000003
Area: 7
Facility Type: T0
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

C18 **UNOCAL - LINCOLN LEASE** CA SLIC S104404774
West **28101 CHIQUITO CYN** N/A
> 1 **CASTAIC, CA 91384**
6207 ft.

Site 4 of 6 in cluster C

Relative: SLIC Region 4:
Higher Facility Status: Closure
Region: 4
Actual: SLIC 0520B
994 ft. Staff: Manjulika Chakarbarti
Substance: TPH

C19 **LA CO FD FIRE TRAINING CN** Cortese S105023127
West **28101 CHIQUITO CNYN** N/A
> 1 **CASTAIC, CA 91384**
6212 ft.

Site 5 of 6 in cluster C

Relative: CORTESE:
Higher Region: CORTESE
Fac Address 2: Not reported
Actual:
994 ft.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	LA CO FD FIRE TRAINING CN (Continued)		**S105023127**
C20 **West** **> 1** **6212 ft.** **Relative:** **Higher** **Actual:** **994 ft.**	**DEL VALLE REGIONAL EMERGENCY TRAINING CTR** **28101 CHIQUITO CANYON RD** **CASTAIC, CA 91384** **Site 6 of 6 in cluster C** AST: Owner: LOS ANGELES COUNTY FIRE DEPT Total Gallons: 2000	**AST**	**A100210954** **N/A**
D21 **NE** **> 1** **6222 ft.** **Relative:** **Higher** **Actual:** **1022 ft.**	**US POSTAL SERVICE, SANTA CLARI** **28201 FRANKLIN PKY** **SANTA CLARITA, CA 91383** **Site 1 of 4 in cluster D** EMISSIONS : Facility ID : 100544 Air District Code : SC SIC Code : 4300 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 Total Organic Hydrocarbon Gases : Not reported Reactive Organic Gases : Not reported Carbon Monoxide Emissions : Not reported NOX Gas Emissions (Nitrogen - Oxygen) : Not reported SOX Gas Emissions (Sulphur - Oxygen) : Not reported	**EMI**	**S105940246** **N/A**
D22 **NE** **> 1** **6222 ft.** **Relative:** **Higher** **Actual:** **1022 ft.**	**US POSTAL - SANTA CLARITA P&DC** **28201 FRANKLIN PKWY** **SANTA CLARITA, CA 91383** **Site 2 of 4 in cluster D** State UST: Facility ID: 17066 Region: STATE Local Agency: 19000	**UST**	**U003777338** **N/A**
D23 **NE** **> 1** **6222 ft.** **Relative:** **Higher** **Actual:** **1022 ft.**	**28201 FRANKLIN PARKWAY** **SANTA CLARITA, CA 02584** **Site 3 of 4 in cluster D**	**CHMIRS** **HAZNET**	**S103993337** **N/A**

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	(Continued)		**S103993337**

HAZNET:
Gepaid: CAL000157107
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Not reported
Tons: 0.33
Waste Category: Polychlorinated biphenyls and material containing PCB's
Disposal Method: Recycler
Contact: KEN GONZALES/MAINT ENG SP
Telephone: (661) 775-7975
Mailing Address: 28201 FRANKLIN PKWY
SANTA CLARITA, CA 91383 - 9735
County Not reported

Gepaid: CAL000157107
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.04
Waste Category: Unspecified organic liquid mixture
Disposal Method: Recycler
Contact: KEN GONZALES/MAINT ENG SP
Telephone: (661) 775-7975
Mailing Address: 28201 FRANKLIN PKWY
SANTA CLARITA, CA 91383 - 9735
County Not reported

Gepaid: CAL000157107
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 3.28
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: KEN GONZALES/MAINT ENG SP
Telephone: (661) 775-7975
Mailing Address: 28201 FRANKLIN PKWY
SANTA CLARITA, CA 91383 - 9735
County Not reported

Gepaid: CAL000157107
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 0.22
Waste Category: Waste oil and mixed oil
Disposal Method: Transfer Station
Contact: KEN GONZALES/MAINT ENG SP
Telephone: (661) 775-7975
Mailing Address: 28201 FRANKLIN PKWY
SANTA CLARITA, CA 91383 - 9735
County Not reported

(Continued) **S103993337**

Gepaid: CAL000157107
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 0.20
Waste Category: Unspecified oil-containing waste
Disposal Method: Transfer Station
Contact: KEN GONZALES/MAINT ENG SP
Telephone: (661) 775-7975
Mailing Address: 28201 FRANKLIN PKWY
SANTA CLARITA, CA 91383 - 9735
County Not reported

The CA HAZNET database contains 39 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

CHMIRS:

OES Control Number:	97-2033
Chemical Name:	Ink
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 :	97-2033
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 :	Yes
Waterway :	Drain
Spill Site :	Other

(Continued) **S103993337**

Cleanup By :	Not being accomplished
Containment :	Unknown
What Happened :	Dumped by employees, weekley into drain
Type :	OTHER, CHEMICAL
Other :	Ink
Chemical 1 :	Solvent
Quantity Released :	15 Gal(s)
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	5/21/97
Evacuations :	0

D24 **CHMIRS** **S105882989**
NE **28201 FRANKLIN PKWY, BMF** **N/A**
> 1 **SANTA CLARITA, CA 91387**
6222 ft.

Site 4 of 4 in cluster D

Relative:
Higher

Actual:
1022 ft.

CHMIRS:

OES Control Number:	02-1417
Chemical Name:	Motor Oil
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 :	02-1417
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 :	Yes
Waterway :	storm drain
Spill Site :	Other

(Continued) S105882989

Cleanup By : Reporting Party
Containment : Unknown
What Happened : A vehicle leaked oil into a storm drain
Type : Qt.(s)
Other : Not reported
Chemical 1 : Not Reported
Chemical 2 : Not Reported
Chemical 3 : Not Reported
Date/Time : 3/14/2002 1330
Evacuations : 0

E25 **R A H INDUSTRIES** RCRIS-SQG 1004677606
NNE **28035 HARRISON PKWY** FINDS CAR000099523
> 1 **VALENCIA, CA 91355** HAZNET
6527 ft.

Site 1 of 5 in cluster E

Relative: **Higher**

Actual: **1054 ft.**

RCRIS:
Owner: R A H INDUSTRIES INC
(661) 295-5190
EPA ID: CAR000099523
Contact: RICHARD CRESPO
(661) 295-5190
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: CAR000099523
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.27
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: Richard Crespo
Telephone: (661) 295-5190
Mailing Address: 28035 Harrison Pkwy
Valencia, CA 91355
County Not reported

Gepaid: CAR000099523
TSD EPA ID: Not reported
Gen County: Not reported
Tsd County: Not reported
Tons: 0.69
Waste Category: Waste oil and mixed oil
Disposal Method: Not reported
Contact: Richard Crespo
Telephone: (661) 295-5190
Mailing Address: 28035 Harrison Pkwy
Valencia, CA 91355
County Not reported

R A H INDUSTRIES (Continued) 1004677606

Gepaid: CAR000099523
TSD EPA ID: Not reported
Gen County: Not reported
Tsd County: Not reported
Tons: 0.69
Waste Category: Waste oil and mixed oil
Disposal Method: Transfer Station
Contact: Richard Crespo
Telephone: (661) 295-5190
Mailing Address: 28035 Harrison Pkwy
Valencia, CA 91355
County Not reported

E26 **EMCO** HAZNET S106092383
NNE **28045 W HARRISON PKWY** N/A
> 1 **VALENCIA, CA 91355**
6578 ft.

Site 2 of 5 in cluster E

Relative: **Higher**

Actual: **1053 ft.**

HAZNET:
Gepaid: CAL000229937
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.34
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: MATT HAY
Telephone: (661) 294-9966
Mailing Address: 28045 W HARRISON PKWY
VALENCIA, CA 91355
County Not reported

27 **JERRY AVALOS TRUCKING** HAZNET S105724410
WNW **28459 CHIQUITO CANYON RD** N/A
> 1 **VAL VERDE, CA 91350**
6784 ft.

Relative: **Higher**

Actual: **1046 ft.**

HAZNET:
Gepaid: CAL000207708
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.02
Waste Category: Unspecified organic liquid mixture
Disposal Method: Not reported
Contact: ROBERT AVALOS
Telephone: (818) 367-8415
Mailing Address: 28459 CHIQUITO CANYON RD
VAL VERDE, CA 91350
County Not reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
E28 NNE > 1 6790 ft. Relative: Higher Actual: 1063 ft.	**DEL WEST ENGINEERING** **28128 W LIVINGSTON AVE** **VALENCIA, CA 91355** **Site 3 of 5 in cluster E**	RCRIS-LQG FINDS HAZNET	1001459707 CAR000048694

RCRIS:
Owner: DEL WEST ENGINEERING
(805) 295-5700
EPA ID: CAR000048694
Contact: BEN MC CABE
(805) 295-5700
Classification: Large 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: CAR000048694
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 5.00
Waste Category: Unspecified oil-containing waste
Disposal Method: Not reported
Contact: R J SOUKUP/FACILITIES MGR
Telephone: (661) 295-5700
Mailing Address: 28128 W LIVINGSTON AVE
VALENCIA, CA 91355
County Not reported

Gepaid: CAR000048694
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 4.17
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Contact: R J SOUKUP/FACILITIES MGR
Telephone: (661) 295-5700
Mailing Address: 28128 W LIVINGSTON AVE
VALENCIA, CA 91355
County Not reported

Gepaid: CAR000048694
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.01
Waste Category: Liquids with pH <UN-> 2
Disposal Method: Recycler
Contact: R J SOUKUP/FACILITIES MGR
Telephone: (661) 295-5700
Mailing Address: 28128 W LIVINGSTON AVE
VALENCIA, CA 91355
County Not reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	DEL WEST ENGINEERING (Continued)		1001459707

Gepaid: CAR000048694
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 7.50
Waste Category: Other inorganic solid waste
Disposal Method: Transfer Station
Contact: R J SOUKUP/FACILITIES MGR
Telephone: (661) 295-5700
Mailing Address: 28128 W LIVINGSTON AVE
VALENCIA, CA 91355
County Not reported

Gepaid: CAR000048694
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 14.63
Waste Category: Other organic solids
Disposal Method: Transfer Station
Contact: R J SOUKUP/FACILITIES MGR
Telephone: (661) 295-5700
Mailing Address: 28128 W LIVINGSTON AVE
VALENCIA, CA 91355
County Not reported

The CA HAZNET database contains 41 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
E29 NNE > 1 6795 ft. Relative: Higher Actual: 1063 ft.	**DEL WEST ENGINEERING** **28128 W LIVINGSTON AVE** **UNINCORPORATED, CA** **Site 4 of 5 in cluster E**	LOS ANGELES CO. HMS	1001472911 N/A

HMS:
Facility Id: 017610-024096
Area: 7
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
30 North > 1 6873 ft. Relative: Higher Actual: 1173 ft.	**20TH CENTURY FOX,PAPI CHULO** **28455 LIVINGSTON AVE** **VALENCIA, CA 91355**	HAZNET	S106088596 N/A

HAZNET:
Gepaid: CAC002555271
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.31
Waste Category: Latex waste
Disposal Method: Recycler
Contact: ORLANDO PEREZ, PAINTER
Telephone: (818) 800-0454

20TH CENTURY FOX,PAPI CHULO (Continued) **S106088596**

Mailing Address: 805 S SAN FERNANDO RD
BURBANK, CA 91502
County Not reported

E31 **REGENT AEROSPACE INC** **HAZNET** **S105725099**
NNE **28110 HARRISON PKWY** **N/A**
> 1 **VALENCIA, CA 91355**
6895 ft.

Site 5 of 5 in cluster E

Relative: **Higher**

Actual: **1042 ft.**

HAZNET:
Gepaid: CAL000220147
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.02
Waste Category: Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.)
Disposal Method: Recycler
Contact: MIKE VARGAS
Telephone: (661) 257-3000
Mailing Address: 28110 HARRISON PKWY
VALENCIA, CA 91355
County Not reported

Gepaid: CAL000220147
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.24
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Treatment, Tank
Contact: MIKE VARGAS
Telephone: (661) 257-3000
Mailing Address: 28110 HARRISON PKWY
VALENCIA, CA 91355
County Not reported

Gepaid: CAL000220147
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.06
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Transfer Station
Contact: MIKE VARGAS
Telephone: (661) 257-3000
Mailing Address: 28110 HARRISON PKWY
VALENCIA, CA 91355
County Not reported

Gepaid: CAL000220147
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: MIKE VARGAS
Telephone: (661) 257-3000
Mailing Address: 28110 HARRISON PKWY

REGENT AEROSPACE INC (Continued) **S105725099**

VALENCIA, CA 91355
County Not reported

Gepaid: CAL000220147
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Sacramento
Tons: 1.17
Waste Category: Other organic solids
Disposal Method: Disposal, Other
Contact: MIKE VARGAS
Telephone: (661) 257-3000
Mailing Address: 28110 HARRISON PKWY
VALENCIA, CA 91355
County Not reported

The CA HAZNET database contains 4 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

F32 **TIME AVIATION SERVICES INC** **RCRIS-SQG** **1001967326**
North **28402 W LIVINGSTON AVE** **FINDS** **CAR000067363**
> 1 **VALENCIA, CA 91355**
6913 ft.

Site 1 of 2 in cluster F

Relative: **Higher**

Actual: **1151 ft.**

RCRIS:
Owner: JOHN W BUTLER
(661) 702-0800
EPA ID: CAR000067363
Contact: LARRY COLLINS
(661) 702-7311
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)

F33 **TIME AVIATION SERVICES** **HAZNET** **S105094017**
North **28402 W LIVINGSTON AVE** **N/A**
> 1 **VALENCIA, CA 91355**
6913 ft.

Site 2 of 2 in cluster F

Relative: **Higher**

Actual: **1151 ft.**

HAZNET:
Gepaid: CAR000067363
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.42
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: LARRY COLLINGS - DIR OF QUALIT
Telephone: (661) 702-7311
Mailing Address: 28402 W LIVINGSTON AVE
VALENCIA, CA 91355 - 1415

TIME AVIATION SERVICES (Continued) — **S105094017**

County: Not reported

Gepaid: CAR000067363
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.12
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Transfer Station
Contact: LARRY COLLINGS - DIR OF QUALIT
Telephone: (661) 702-7311
Mailing Address: 28402 W LIVINGSTON AVE
VALENCIA, CA 91355 - 1415
County: Not reported

Gepaid: CAR000067363
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.06
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Transfer Station
Contact: LARRY COLLINGS - DIR OF QUALIT
Telephone: (661) 702-7311
Mailing Address: 28402 W LIVINGSTON AVE
VALENCIA, CA 91355 - 1415
County: Not reported

Gepaid: CAR000067363
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 1.04
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Contact: LARRY COLLINGS - DIR OF QUALIT
Telephone: (661) 702-7311
Mailing Address: 28402 W LIVINGSTON AVE
VALENCIA, CA 91355 - 1415
County: Not reported

Gepaid: CAR000067363
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.8
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Transfer Station
Contact: LARRY COLLINGS - DIR OF QUALIT
Telephone: (661) 702-7311
Mailing Address: 28402 W LIVINGSTON AVE
VALENCIA, CA 91355 - 1415
County: Not reported

The CA HAZNET database contains 4 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

TIME AVIATION SERVICES (Continued) — **S105094017**

G34 — **PROPOSED SCHOOL BUS STOP** — **CA SLIC** — **S103878798**
NNE — **28300 LIVINGSTON** — **N/A**
> 1 — **CASTAIC, CA 91384**
6923 ft.

Site 1 of 3 in cluster G

Relative: Higher
Actual: 1102 ft.

SLIC Region 4:
Facility Status: Closure
Region: 4
SLIC: 0834
Staff: Jenny Au
Substance: TPH

G35 — **PHARMAVITE LLC** — **RCRIS-LQG** — **1001815586**
NNE — **28305 W LIVINGSTON AVE** — **FINDS** — **CAR000057190**
> 1 — **VALENCIA, CA 91355** — **HAZNET**
6924 ft.

Site 2 of 3 in cluster G

Relative: Higher
Actual: 1103 ft.

RCRIS:
Owner: OTSUKA AMERICA INC
(415) 986-5300
EPA ID: CAR000057190
Contact: TIM COFFMAN
(818) 837-3633
Classification: Large 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: CAR000057190
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.08
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200
Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County: Not reported

Gepaid: CAR000057190
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 107.84
Waste Category: Baghouse waste
Disposal Method: Disposal, Land Fill
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200

PHARMAVITE LLC (Continued) — **1001815586**

Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County: Not reported

Gepaid: CAR000057190
TSD EPA ID: NVT330010000
Gen County: Los Angeles
Tsd County: 99
Tons: 17.6988
Waste Category: Baghouse waste
Disposal Method: Disposal, Land Fill
Contact: OTSUKA AMERICA INC
Telephone: (000) 000-0000
Mailing Address: 15451 SAN FERNANDO MISSION BLV
MISSION HILLS, CA 91345
County: Los Angeles

Gepaid: CAR000057190
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 143.69
Waste Category: Baghouse waste
Disposal Method: Disposal, Land Fill
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200
Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County: Not reported

Gepaid: CAR000057190
TSD EPA ID: NVT330010000
Gen County: Los Angeles
Tsd County: 99
Tons: 18.5416
Waste Category: Baghouse waste
Disposal Method: Not reported
Contact: OTSUKA AMERICA INC
Telephone: (000) 000-0000
Mailing Address: 15451 SAN FERNANDO MISSION BLV
MISSION HILLS, CA 91345
County: Los Angeles

The CA HAZNET database contains 1 additional record for this site.
Please click here or contact your EDR Account Executive for more information.

G36 — **PHARMAVITE LLC** — **LOS ANGELES CO. HMS** — **1001959798**
NNE — **28310 W LIVINGSTON AVE** — **HAZNET** — **N/A**
> 1 — **VALENCIA, CA 91355**
6927 ft.

Site 3 of 3 in cluster G

Relative:
Higher

Actual:
1106 ft.

PHARMAVITE LLC (Continued) — **1001959798**

HAZNET:
Gepaid: CAR000064444
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.62
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200
Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County: Not reported

Gepaid: CAR000064444
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.54
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200
Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County: Not reported

Gepaid: CAR000064444
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: San Bernardino
Tons: 0.03
Waste Category: Other organic solids
Disposal Method: Not reported
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200
Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County: Not reported

Gepaid: CAR000064444
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 12.50
Waste Category: Aqueous solution with less than 10% total organic residues
Disposal Method: Recycler
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200
Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County: Not reported

PHARMAVITE LLC (Continued) **1001959798**

Gepaid: CAR000064444
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: 99
Tons: 8.42
Waste Category: Baghouse waste
Disposal Method: Disposal, Land Fill
Contact: TIM COFFMAN MGR REG COMPLIANCE
Telephone: (818) 221-6200
Mailing Address: PO BOX 9606
MISSION HILLS, CA 91346
County Not reported

The CA HAZNET database contains 9 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

HMS:
Facility Id: 020797-037829
Area: 7
Facility Type: I01
Permit Number: 174 Permit Status: Permit
Facility Status: Permit
Region: Los Angeles County:

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37 **KIMBALL MICROELECTRONICS** **RCRIS-SQG** **1004677121**
North **28575 LIVINGSTON AVE** **FINDS** **CAR000093468**
> 1 **VALENCIA, CA 91355** **HAZNET**
6928 ft.

Relative:
Higher

Actual:
1252 ft.

RCRIS:
Owner: KIMBALL INTL INC
(812) 482-1600
EPA ID: CAR000093468
Contact: FRANK FABIANO
(661) 775-3500
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)

HAZNET:
Gepaid: CAR000093468
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.44
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Contact: KENT DAVIS
Telephone: (661) 775-3500
Mailing Address: 28575 LIVINGSTON AVE
VALENCIA, CA 91355
County Not reported

KIMBALL MICROELECTRONICS (Continued) **1004677121**

Gepaid: CAR000093468
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.67
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Contact: KENT DAVIS
Telephone: (661) 775-3500
Mailing Address: 28575 LIVINGSTON AVE
VALENCIA, CA 91355
County Not reported

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38 **WALT DISNEY PICTURES & TELEVISION** **HAZNET** **S104581097**
NNE **28150 W HARRISON PARKWAY** **N/A**
> 1 **VALENCIA, CA 91355**
7080 ft.

Relative:
Higher

Actual:
1046 ft.

HAZNET:
Gepaid: CAL000180976
TSD EPA ID: CAD050806850
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.2085
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Transfer Station
Contact: WALT DISNEY PICTURES & TV
Telephone: (000) 000-0000
Mailing Address: 500 S. BUENA VISTA ST.
BURBANK, CA 91521 - 2663
County Los Angeles

Gepaid: CAL000180976
TSD EPA ID: CAD050806850
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.9875
Waste Category: Other organic solids
Disposal Method: Transfer Station
Contact: WALT DISNEY PICTURES & TV
Telephone: (000) 000-0000
Mailing Address: 500 S. BUENA VISTA ST.
BURBANK, CA 91521 - 2663
County Los Angeles

Gepaid: CAL000180976
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 0.86
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Transfer Station
Contact: DEBBIE GONZALEZ ENVIRONMENTAL
Telephone: (818) 553-4061
Mailing Address: 500 S. BUENA VISTA ST.
BURBANK, CA 91521 - 6015
County Not reported

WALT DISNEY PICTURES & TELEVISION (Continued) S104581097

Gepaid: CAL000180976
TSD EPA ID: CAD050806850
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .6255
Waste Category: Waste oil and mixed oil
Disposal Method: Transfer Station
Contact: WALT DISNEY PICTURES & TV
Telephone: (000) 000-0000
Mailing Address: 500 S. BUENA VISTA ST.
BURBANK, CA 91521 - 2663
County Los Angeles

Gepaid: CAL000180976
TSD EPA ID: CAD050806850
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3000
Waste Category: Other organic solids
Disposal Method: Transfer Station
Contact: WALT DISNEY PICTURES & TV
Telephone: (000) 000-0000
Mailing Address: 500 S. BUENA VISTA ST.
BURBANK, CA 91521 - 2663
County Los Angeles

The CA HAZNET database contains 1 additional record for this site.
Please click here or contact your EDR Account Executive for more information.

H39 | **FIESTA RESORTS** | LOS ANGELES CO. HMS | S102064533
ENE | **27946 W HENRY MAYO DR** | N/A
> 1 | **UNINCORPORATED, CA**
7331 ft.

Site 1 of 4 in cluster H

Relative: Higher

Actual: 1001 ft.

HMS:
Facility Id: 014852-015631
Area: 7
Facility Type: T0
Permit Number: 174 Permit Status: Closed
Facility Status: Closed
Region: Los Angeles County:

H40 | **VALENCIA TRAVEL VILLAGE** | LOS ANGELES CO. HMS | S102064534
ENE | **27946 W HENRY MAYO DR** | N/A
> 1 | **UNINCORPORATED, CA**
7331 ft.

Site 2 of 4 in cluster H

Relative: Higher

Actual: 1001 ft.

HMS:
Facility Id: 014852-021889
Area: 7
Facility Type: T0
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

VALENCIA TRAVEL VILLAGE (Continued) S102064534

H41 | **THE VALENCIA TRAVEL VILLAGE** | HAZNET | S103991139
NE | **27946 HENRY MAYO ROAD, RTE 126** | N/A
> 1 | **VALENCIA, CA 91384**
7485 ft.

Site 3 of 4 in cluster H

Relative: Higher

Actual: 998 ft.

HAZNET:
Gepaid: CAC001485192
TSD EPA ID: CAD982484933
Gen County: Los Angeles
Tsd County: 7
Tons: .2500
Waste Category: Other empty containers 30 gallons or more
Disposal Method: Recycler
Contact: STEWART BLAIR
Telephone: (805) 257-3333
Mailing Address: 27946 HENRY MAYO ROAD, RTE 126
VALENCIA, CA 91384
County Los Angeles

Gepaid: CAC001485192
TSD EPA ID: CAD028409019
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .4170
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Treatment, Tank
Contact: STEWART BLAIR
Telephone: (805) 257-3333
Mailing Address: 27946 HENRY MAYO ROAD, RTE 126
VALENCIA, CA 91384
County Los Angeles

H42 | **FIESTA RESORT TRAVEL VILLAGE** | CA FID UST | S101584732
NE | **27946 HENRY MAYO RD** | N/A
> 1 | **VALENCIA, CA 91384**
7485 ft.

Site 4 of 4 in cluster H

Relative: Higher

Actual: 998 ft.

FID:
Facility ID: 19014937 Regulate ID: Not reported
Reg By: Active Underground Storage Tank Location
Cortese Code: Not reported SIC Code: Not reported
Status: Active Facility Tel: (805) 257-1135
Mail To: Not reported
27946 HENRY MAYO DR
VALENCIA, CA 91384
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

I43
NE
> 1
7816 ft.

Relative:
Higher

Actual:
996 ft.

SCHWARTZ OIL CO — UST U001567874
27241 HENRY MAYO DR — EMI N/A
VALENCIA, CA 91355 — HIST UST
HAZNET

Site 1 of 8 in cluster I

HAZNET:
Gepaid: CAL000171310
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.14
Waste Category: Tank bottom waste
Disposal Method: Recycler
Contact: GINNY OSTROVE-OFFICE MGR
Telephone: (661) 259-4000
Mailing Address: 27241 HENRY MAYO DR
VALENCIA, CA 91355
County Not reported

Gepaid: CAL000171310
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 15.01
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Recycler
Contact: GINNY OSTROVE-OFFICE MGR
Telephone: (661) 259-4000
Mailing Address: 27241 HENRY MAYO DR
VALENCIA, CA 91355
County Not reported

Gepaid: CAL000171310
TSD EPA ID: Not reported
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 10.42
Waste Category: Waste oil and mixed oil
Disposal Method: Recycler
Contact: GINNY OSTROVE-OFFICE MGR
Telephone: (661) 259-4000
Mailing Address: 27241 HENRY MAYO DR
VALENCIA, CA 91355
County Not reported

Gepaid: CAC001421632
TSD EPA ID: CAD028409019
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.8556
Waste Category: Unspecified oil-containing waste
Disposal Method: Treatment, Tank
Contact: TRUDY EMETERIO
Telephone: (000) 000-0000
Mailing Address: 27241 HENRY MAYO
VALENCIA, CA 00000
County Los Angeles

SCHWARTZ OIL CO (Continued) — U001567874

Gepaid: CAC001421632
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: TRUDY EMETERIO
Telephone: (000) 000-0000
Mailing Address: 27241 HENRY MAYO
VALENCIA, CA 00000
County Los Angeles

The CA HAZNET database contains 1 additional record for this site.
Please click here or contact your EDR Account Executive for more information.

UST HIST:
Facility ID: 5275 — Facility Status: Not reported
Total Tanks: 4 — Region: STATE
Owner Name: SCHWARTZ OIL COMPANY INC. — Box Number: Not reported
Owner Address: 27241 HENRY MAYO RD.
VALENCIA, CA 91355

EMISSIONS :
Facility ID : 35743
Air District Code : SC
SIC Code : 5171
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
Total Organic Hydrocarbon Gases : Not reported
Reactive Organic Gases : Not reported
Carbon Monoxide Emissions : Not reported
NOX Gas Emissions (Nitrogen - Oxygen) : Not reported
SOX Gas Emissions (Sulphur - Oxygen) : Not reported

State UST:
Facility ID: 16425
Region: STATE
Local Agency: 19000

I44
NE
> 1
7816 ft.

Relative:
Higher

Actual:
996 ft.

SCHWARTZ OIL CO. — Cortese S104160064
27241 HENRY MAYO DR — LUST N/A
VALENCIA, CA 91355

Site 2 of 8 in cluster I

State LUST:
Cross Street: THE OLD ROAD
Qty Leaked: Not reported
Case Number I-16425
Reg Board: 4
Chemical: Gasoline
Lead Agency: Regional Board
Local Agency : 19000

SCHWARTZ OIL CO. (Continued) **S104160064**

Case Type: Other ground water affected
Status: Case Closed
Review Date: Not reported — Confirm Leak: Not reported
Workplan: 4/14/92 — Prelim Assess: 4/14/92
Pollution Char: Not reported — Remed Plan: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: 08/30/1996
Release Date: 04/14/1992
Cleanup Fund Id : Not reported
Discover Date : 01/23/1992
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 05/26/1992
Funding: Federal Funds
Staff Initials: Not reported
How Discovered: OM
How Stopped: Not reported
Interim : Not reported
Leak Cause: UNK
Leak Source: Tank
MTBE Date : / /
Max MTBE GW : 0 Parts per Billion
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Priority: Not reported
Local Case # : Not reported
Beneficial: Not reported
Staff : JLC
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: Not reported
Operator : Not reported
Oversight Prgm: RB Lead Underground Storage Tank
Oversight Prgm : UST
Review Date : 09/24/1996
Stop Date : / /
Work Suspended :Not reported
Responsible PartySCHWARTZ OIL CO.
RP Address: 2615 NUTMEG ST., MORRO BAY, 93442 D
Global Id: T0603704411
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 1
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: 4/14/1992
Lead Agency: Regional Board
Local Agency: 19000
Case Number: I-16425
Substance: Gasoline
Case Type: Groundwater

SCHWARTZ OIL CO. (Continued) **S104160064**

Status: Case Closed
Region: 4
Staff: Not reported
Source of Cleanup Funding: Federal Funds
Date the Leak was Discovered: 1/23/1992
How the Leak was Discovered: Other Means
How the Leak was Stopped: Not reported
Cause of Leak: Unknown
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: 4/14/1992
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: 8/30/1996
Date Case Last Changed on Database: 9/24/1996
Enforcement Action Date: Not reported
Date Leak First Reported: 4/14/1992
Enforcement Type: Not reported
Global ID : T0603704411
Organization : 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
Regional Board: 04
Owner Contact: Not reported
Responsible Party: SCHWARTZ OIL CO.
RP Address: 2615 NUTMEG ST., MORRO BAY, 93442 D
Significant Interim Remedial Action Taken: Not reported
Program : UST
Lat / Long : 34.4391864 / -118.609307
MTBE Counts : 0
MTBE Fuel : 1
MTBE Tested : NT
Local Agency Staff: UNK
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 : Not reported
Substance Quantity : Not reported
Abatement Method Used at the Site: Not reported
Operator : Not reported
Water System : PETER PITCHESS HONOR RANCHO, LAC SHERIFF
Well Name : WELL 01A - INACTIVE
Approx. Dist To Production Well (ft) : 4770.981732651974542165717283 1
W Global ID : W0603700046
Assigned Name : 1900046-008
MTBE Class : Not reported

SCHWARTZ OIL CO. (Continued) **S104160064**

CORTESE:
Region: CORTESE
Fac Address 2: 27241 HENRY MAYO DR

I45 **SCHWARTZ OIL CO INC** **FINDS** **1006306954**
NE **27241 HENRY MAYO DR** **110012435551**
> 1 **VALENCIA, CA 91355**
7816 ft.

Site 3 of 8 in cluster I

Relative: **Higher**

FINDS:
Other Pertinent Environmental Activity Identified at Site:
National Emissions Inventory (NEI)
National Toxics Inventory (NTI)

Actual: **996 ft.**

I46 **LA COUNTY FIRE DEPT STATION 76** **AST** **A100211166**
NE **27223 HENRY MAYO DR** **N/A**
> 1 **VALENCIA, CA 91355**
7839 ft.

Site 4 of 8 in cluster I

Relative: **Higher**

AST:
Owner: LOS ANGELES COUNTY FIRE DEPT
Total Gallons: 1000

Actual: **996 ft.**

I47 **LA CO FD FIRE STA #076** **LOS ANGELES CO. HMS** **S102064489**
NE **27223 W HENRY MAYO DR** **Cortese** **N/A**
> 1 **VALENCIA, CA 91355** **LUST**
7839 ft.

Site 5 of 8 in cluster I

Relative: **Higher**

State LUST:
Cross Street: CASTAIC CANYON RD
Qty Leaked: Not reported
Case Number R-12547
Reg Board: 4
Chemical: Hydrocarbons
Lead Agency: Local Agency
Local Agency : 19000
Case Type: Soil only
Status: Case Closed
Abate Method: Other Means
Review Date: Not reported
Workplan: Not reported
Pollution Char: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: 08/13/1997
Release Date: 06/26/1997
Cleanup Fund Id : Not reported
Discover Date : 06/04/1997
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 07/17/1997
Funding: Not reported
Staff Initials: Not reported
How Discovered: Tank Closure
Confirm Leak: Not reported
Prelim Assess: Not reported
Remed Plan: Not reported

Actual: **996 ft.**

LA CO FD FIRE STA #076 (Continued) **S102064489**

How Stopped: Not reported
Interim : Not reported
Leak Cause: UNK
Leak Source: Tank
MTBE Date : / /
Max MTBE GW : 0 Parts per Billion
MTBE Tested: Not Required to be Tested.
Priority: Not reported
Local Case # : Not reported
Beneficial: Not reported
Staff : JLC
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: Not reported
Operator : Not reported
Oversight Prgm: Local Implementing Agency UST (includes non-LOP cases within LOP jurisdiction)
Oversight Prgm : LIA
Review Date : 08/13/1997
Stop Date : / /
Work Suspended : Not reported
Responsible Party LA COUNTY FIRE DEPARTMENT
RP Address: 1320 N. EASTERN AVE., LOS ANGELES CA 90063-3294
Global Id: T0603705143
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

LUST Region 4:
Report Date: 6/26/1997
Lead Agency: Local Agency
Local Agency: 19000
Case Number: R-12547
Substance: Hydrocarbons
Case Type: Soil
Status: Case Closed
Region: 4
Staff: Not reported
Source of Cleanup Funding: Not reported
Date the Leak was Discovered: 6/4/1997
How the Leak was Discovered: Tank Closure
How the Leak was Stopped: Close Tank
Cause of Leak: Unknown
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

LA CO FD FIRE STA #076 (Continued) **S102064489**

Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	8/13/1997
Date Case Last Changed on Database:	8/13/1997
Enforcement Action Date:	Not reported
Date Leak First Reported:	6/26/1997
Enforcement Type:	Not reported
Global ID :	T0603705143
Organization :	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
Regional Board:	04
Owner Contact: Not reported	
Responsible Party:	LA COUNTY FIRE DEPARTMENT
RP Address:	1320 N. EASTERN AVE., LOS ANGELES CA 90063-3294
Significant Interim Remedial Action Taken:	Not reported
Program :	LIA
Lat / Long :	34.4391864 / -118.609307
MTBE Counts :	0
MTBE Fuel :	0
MTBE Tested :	NRQ
Local Agency Staff:	UNK
Summary :	DEPTH TO G.W. 25TH. BGS. FURTHER ASSESSMENT REQ'D. POTENTIAL G.W. CONTAMINATION.
Hydrologic Basin # :	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:	OT
Operator :	Not reported
Water System :	PETER PITCHESS HONOR RANCHO, LAC SHERIFF
Well Name :	WELL 01A - INACTIVE
Approx. Dist To Production Well (ft) :	4770.981732651974542165717283 1
W Global ID :	W0603700046
Assigned Name :	1900046-008
MTBE Class :	Not reported

CORTESE:
Region: CORTESE
Fac Address 2: 27223 HENRY MAYO DR

HMS:
Facility Id: 012416-012547
Area: 7
Facility Type: T0
Permit Number: 174 Permit Status: Removed
Facility Status: Removed
Region: Los Angeles County:

LA CO FD FIRE STA #076 (Continued) **S102064489**

I48 **FIRE STATION #76** **HIST UST** **U001562296**
NE **27223 HENRY MAYO DR** **N/A**
> 1 **VALENCIA, CA 90063**
7839 ft.

Site 6 of 8 in cluster I

Relative: Higher

Actual: 996 ft.

UST HIST:

Facility ID:	20631	Facility Status:	Not reported
Total Tanks:	2	Region:	STATE
Owner Name:	LOS ANGELES COUNTY MECHANICAL	Box Number:	Not reported
Owner Address:	1100 N. EASTERN AVE. LOS ANGELES, CA 90063		

I49 **LA CO FD FIRE STA #076** **CA FID UST** **S101587195**
NE **27223 HENRY MAYO DR** **N/A**
> 1 **NEWHALL, CA 91321**
7839 ft.

Site 7 of 8 in cluster I

Relative: Higher

Actual: 996 ft.

FID:

Facility ID:	19055062	Regulate ID:	00020631
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 1320 N EASTERN AVE NEWHALL, CA 91321		
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		

I50 **R.M. PYLES BOYS CAMP, INC.** **HIST UST** **U001567871**
NE **27211 HENRY MAYO DR** **N/A**
> 1 **VALENCIA, CA 91355**
7857 ft.

Site 8 of 8 in cluster I

Relative: Higher

Actual: 996 ft.

UST HIST:

Facility ID:	55879	Facility Status:	Not reported
Total Tanks:	1	Region:	STATE
Owner Name:	R.M. PYLES BOYS CAMP, INC.	Box Number:	Not reported
Owner Address:	27211 HENRY MAYO DRIVE VALENCIA, CA 91355		

J51 **SCHUARTI OIL CO. INC.** **CA FID UST** **S101583389**
ENE **27241 HENRY MAYO RD** **N/A**
> 1 **VALENCIA, CA 91355**
8897 ft.

Site 1 of 2 in cluster J

Relative: Higher

Actual: 1009 ft.

SCHUARTI OIL CO. INC. (Continued) **S101583389**

FID:

Facility ID:	19003595	Regulate ID:	Not reported
Reg By:	Active Underground Storage Tank Location		
Cortese Code:	Not reported	SIC Code:	Not reported
Status:	Active	Facility Tel:	(805) 259-4000
Mail To:	Not reported 6215 NUTMEG 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		

J52 **NEWHALL LAND & FARMING** **Cortese** **S102064490**
ENE **27230 HENRY MAYO RD** **LUST** **N/A**
> 1 **VALENCIA, CA 91355**
9015 ft.

Site 2 of 2 in cluster J

Relative:
Higher

Actual:
1010 ft.

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	I-14698		
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
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	01/29/1990		
Release Date:	01/29/1990		
Cleanup Fund Id :	Not reported		
Discover Date :	/ /		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	01/22/1990		
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 :	/ /		
Max MTBE GW :	0 Parts per Billion		
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.		
Priority:	Not reported		
Local Case # :	Not reported		
Beneficial:	Not reported		
Staff :	JLC		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		

NEWHALL LAND & FARMING (Continued) **S102064490**

Soil Qualifier :	Not reported
Hydr Basin #:	Not reported
Operator :	Not reported
Oversight Prgm:	Local Implementing Agency UST (includes non-LOP cases within LOP jurisdiction)
Oversight Prgm :	LIA
Review Date :	01/29/1990
Stop Date :	/ /
Work Suspended :	Not reported
Responsible Party	NEWHALL LAND & FARMING CO.
RP Address:	23823 VALENCIA BOULEVARD, VALENCIA, 91355
Global Id:	T0603704197
Org Name:	Not reported
Contact Person:	Not reported
MTBE Conc:	0
Mtbe Fuel:	1
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:	1/29/1990
Lead Agency:	Local Agency
Local Agency:	19000
Case Number:	I-14698
Substance:	Gasoline
Case Type:	Soil
Status:	Case Closed
Region:	4
Staff:	Not reported
Source of Cleanup Funding:	Not reported
Date the Leak was Discovered:	Not reported
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:	1/29/1990
Date Case Last Changed on Database:	1/29/1990
Enforcement Action Date:	Not reported
Date Leak First Reported:	1/29/1990
Enforcement Type:	Not reported
Global ID :	T0603704197
Organization :	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

NEWHALL LAND & FARMING (Continued) **S102064490**

County:	Los Angeles
Regional Board:	04
Owner Contact: Not reported	
Responsible Party:	NEWHALL LAND & FARMING CO.
RP Address:	23823 VALENCIA BOULEVARD, VALENCIA, 91355
Significant Interim Remedial Action Taken:	Not reported
Program :	LIA
Lat / Long :	34.4391864 / -118.609307
MTBE Counts :	0
MTBE Fuel :	1
MTBE Tested :	NT
Local Agency Staff:	UNK
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 :	Not reported
Substance Quantity :	Not reported
Abatement Method Used at the Site:	Not reported
Operator :	Not reported
Water System :	PETER PITCHESS HONOR RANCHO, LAC SHERIFF
Well Name :	WELL 01A - INACTIVE
Approx. Dist To Production Well (ft) :	4770.981732651974542165717283 1
W Global ID :	W0603700046
Assigned Name :	1900046-008
MTBE Class :	Not reported

CORTESE:

Region:	CORTESE
Fac Address 2:	27230 HENRY MAYO RD

53
West
> 1
10396 ft.

27353 SAN MARTINEZ GRANDE CANYON
SANTA CLARITA, CA 0

CHMIRS S105648719
N/A

Relative:
Higher

Actual:
1030 ft.

CHMIRS:

OES Control Number:	97-4284
Chemical Name:	crude oil
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 :	97-4284
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

(Continued) **S105648719**

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 :	River Bed
Spill Site :	Road
Cleanup By :	To be determined
Containment :	No
What Happened :	A tanker truck loaded with 1,000 gals of crude oil was involved in a traffic accident an unknown amount of the crude oil was released. The release is ongoing. The substance going into the Santa Clarita River Bed, No flowing water in the riverbed at this
Type :	PETROLEUM
Other :	1,000 Potential
Chemical 1 :	Not Reported
Chemical 2 :	Not Reported
Chemical 3 :	Not Reported
Date/Time :	10/27/97
Evacuations :	0

K54
NE
> 1
11010 ft.

29300 THE OLD ROAD
SAUGUS, CA 91384

Site 1 of 2 in cluster K

CHMIRS S100279945
EMI N/A
HAZNET
SWF/LF

Relative:
Higher

Actual:
1018 ft.

LF:

Facility ID:	19-AA-0057
Operator:	County Of Los Angeles Sheriff's Dept
Operator Phone:	(213) 974-4528
Operator Addr:	293000 The Old Road Saugus, CA 90012
Owner:	County Of Los Angeles Sheriff's Dept
Owner Address:	Not reported 293000 The Old Road Saugus, CA 90012
Owner Telephone:	(213) 974-4528
Activity:	Solid Waste Landfill
Operator's Status:	Closed
Regulation Status:	Permitted
Region:	STATE
Lat/Long:	34 / -118
Permit Date:	Not reported
Accepted Waste:	Agricultural,Construction/demolition,Mixed municipal,Other hazardous,Tires

(Continued) **S100279945**

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: 154
Permitted Throughput with Units: 154
Permitted Throughput with Units: 154
Actual Throughput with Units: Cu Yards/day
Actual Capacity with Units: Not reported
Permitted Capacity with Units: Not reported
Remaining Capacity with Units: Not reported
Permitted Total Acreage: 54
Inspection Frequency: Quarterly
Landuse Name: Not reported
GIS Source: External
Permit Status: Permitted
Category: Disposal
Unit Number: 01
Last Waste Tire Inspection Count : Not reported
Last Waste Tire Inspection Date: Not reported
Original Waste Tire Count: Not reported
Original Waste Tire Count Date: Not reported
Closure Date: 01/01/1992
Closure Type: Actual
Disposal Acreage: 0
Remaining Capacity: Not reported

HAZNET:
Gepaid: CAL000022055
TSD EPA ID: CAD000088252
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .6000
Waste Category: Contaminated soil from site clean-ups
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

(Continued) **S100279945**

Gepaid: CAL000022055
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 6.1090
Waste Category: Paint sludge
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: CAL000022055
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 2.2935
Waste Category: Unspecified organic liquid mixture
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: CAL000022055
TSD EPA ID: CAD008252405
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: 1.0425
Waste Category: Unspecified solvent mixture Waste
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: CAL000022055
TSD EPA ID: CAD099452708
Gen County: Los Angeles
Tsd County: Los Angeles
Tons: .3335
Waste Category: Tank bottom waste
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

The CA HAZNET database contains 131 additional records for this site.
Please click here or contact your EDR Account Executive for more information.

CHMIRS:
OES Control Number: 9014303
Chemical Name: Not reported
Extent of Release: Not reported

(Continued) S100279945

Property Use:	Industrial, Utility
Incident Date:	05-DEC-90
Date Completed:	05-DEC-90
Time Completed :	1935
Agency Id Number :	19110
Agency Incident Number :	51
OES Incident Number :	9014303
Time Notified :	1835
Surrounding Area :	099
Estimated Temperature :	60
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 :	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. LYNN MOHR #124351
Report Date :	05-DEC-90
Comments :	Yes
Facility Telephone Number :	213 267-2401
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

EMISSIONS :

Facility ID :	6488
Air District Code :	SC
SIC Code :	9223
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

(Continued) S100279945

Community Health Air Pollution Info System :	Not reported
Consolidated Emission Reporting Rule :	Not reported
Total Organic Hydrocarbon Gases :	1
Reactive Organic Gases :	1
Carbon Monoxide Emissions :	1
NOX Gas Emissions (Nitrogen - Oxygen) :	4
SOX Gas Emissions (Sulphur - Oxygen) :	0

Facility ID :	58949
Air District Code :	SC
SIC Code :	9223
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 :	Y
Consolidated Emission Reporting Rule :	Not reported
Total Organic Hydrocarbon Gases :	65
Reactive Organic Gases :	6
Carbon Monoxide Emissions :	5
NOX Gas Emissions (Nitrogen - Oxygen) :	28
SOX Gas Emissions (Sulphur - Oxygen) :	1

Facility ID :	6488
Air District Code :	SC
SIC Code :	9223
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
Total Organic Hydrocarbon Gases :	Not reported
Reactive Organic Gases :	Not reported
Carbon Monoxide Emissions :	Not reported
NOX Gas Emissions (Nitrogen - Oxygen) :	Not reported
SOX Gas Emissions (Sulphur - Oxygen) :	Not reported

Facility ID :	58949
Air District Code :	SC
SIC Code :	9223
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 :	Y
Consolidated Emission Reporting Rule :	Not reported
Total Organic Hydrocarbon Gases :	Not reported
Reactive Organic Gases :	Not reported
Carbon Monoxide Emissions :	Not reported
NOX Gas Emissions (Nitrogen - Oxygen) :	Not reported

(Continued) — **S100279945**

SOX Gas Emissions (Sulphur - Oxygen) : Not reported

K55
NE
> 1
11010 ft.

29300 THE OLD ROAD
VALENCIA, CA 91384

Site 2 of 2 in cluster K

Relative:
Higher

Actual:
1018 ft.

CHMIRS — **S100279260** / **N/A**

CHMIRS:

OES Control Number:	8905392
Chemical Name:	Not reported
Extent of Release:	Not reported
Property Use:	099
Incident Date:	29-MAR-89
Date Completed:	29-MAR-89
Time Completed :	1606
Agency Id Number :	19110
Agency Incident Number :	27
OES Incident Number :	8905392
Time Notified :	1446
Surrounding Area :	099
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 :	CAPT. JOHN W. EVERETT
Report Date :	29-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

(Continued) — **S100279260**

56
NE
> 1
11020 ft.

DIXIE DIESEL STATION
29471 THE OLD ROAD
SAUGUS, CA 91350

Relative:
Higher

Actual:
1020 ft.

Cortese LUST — **S102428845** / **N/A**

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	I-12830		
Reg Board:	4		
Chemical:	Diesel		
Lead Agency:	Local Agency		
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:	2/3/87	Prelim Assess:	2/3/87
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	6/20/30		
Monitoring:	Not reported		
Close Date:	11/30/1993		
Release Date:	04/06/1987		
Cleanup Fund Id :	Not reported		
Discover Date :	/ /		
Enforcement Dt :	1/1/65		
Enf Type:	Informal Enforcement Actions,including Notices of Violations and Staff Enforcement Letters		
Enter Date :	/ /		
Funding:	Federal Funds		
Staff Initials:	Not reported		
How Discovered:	Subsurface Monitoring		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	UNK		
Leak Source:	UNK		
MTBE Date :	/ /		
Max MTBE GW :	0 Parts per Billion		
MTBE Tested:	Not Required to be Tested.		
Priority:	Not reported		
Local Case # :	Not reported		
Beneficial:	Not reported		
Staff :	JLC		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	Not reported		
Operator :	Not reported		
Oversight Prgm:	Local Implementing Agency UST (includes non-LOP cases within LOP jurisdiction)		
Oversight Prgm :	LIA		
Review Date :	11/30/1993		
Stop Date :	/ /		
Work Suspended :	Not reported		
Responsible Party	GORTiKOV/HASLEY PARTNERS, LTD		
RP Address:	15165 VENTURA BLVD, #230, SHERMAN OAKS, 91403		
Global Id:	T0603704004		
Org Name:	Not reported		

DIXIE DIESEL STATION (Continued) **S102428845**

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

LUST Region 4:
Report Date: 4/6/1987
Lead Agency: Local Agency
Local Agency: 19000
Case Number: I-12830
Substance: Diesel
Case Type: Groundwater
Status: Case Closed
Region: 4
Staff: Not reported

Source of Cleanup Funding:	Federal Funds
Date the Leak was Discovered:	Not reported
How the Leak was Discovered:	Subsurface Monitoring
How the Leak was Stopped:	Not reported
Cause of Leak:	Unknown
Leak Source:	Unknown
Date The Leak was Stopped:	Not reported
Date Confirmation Leak Began:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	2/3/1987
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	6/20/1930
Post Remedial Action Monitoring Began:	Not reported
Date the Case was Closed:	11/30/1993
Date Case Last Changed on Database:	11/30/1993
Enforcement Action Date:	Not reported
Date Leak First Reported:	4/6/1987
Enforcement Type:	IEA
Global ID :	T0603704004
Organization :	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
Regional Board:	04

Owner Contact: Not reported

Responsible Party:	GORTIKOV/HASLEY PARTNERS, LTD
RP Address:	15165 VENTURA BLVD, #230, SHERMAN OAKS, 91403
Significant Interim Remedial Action Taken:	Not reported
Program :	LIA
Lat / Long :	34.4680232 / -118.4689948
MTBE Counts :	0
MTBE Fuel :	0
MTBE Tested :	NRQ
Local Agency Staff:	UNK
Summary :	2215 MG/KG TPH IN SOIL AT 10'. 5 MG/L TPH IN WATER

DIXIE DIESEL STATION (Continued) **S102428845**

2ND LEAK REPORTED 1/29/91

OLD CASE #021089-08

Hydrologic Basin # :	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:	Excavate and Dispose
Operator :	Not reported
Water System :	CLEVELAND NATIONAL FOREST
Well Name :	LPA REPORTED PRIMARY SOURCE
Approx. Dist To Production Well (ft) :	1452.033932136087145347 1030342
W Global ID :	W0607300028
Assigned Name :	3700028-001GEN
MTBE Class :	Not reported

CORTESE:
Region: CORTESE
Fac Address 2: 29471 THE OLD ROAD

L57 **NEWHALL LAND & FARMING CO** **LOS ANGELES CO. HMS** **S102064571**
ENE **28760 N CASTAIC CANYON RD** **Cortese** **N/A**
> 1 **VALENCIA, CA 91355** **LUST**
11058 ft.

Site 1 of 2 in cluster L

Relative: Higher

Actual: 1016 ft.

State LUST:

Cross Street:	Not reported		
Qty Leaked:	Not reported		
Case Number	I-05310		
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
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	01/10/1990		
Release Date:	01/10/1990		
Cleanup Fund Id :	Not reported		
Discover Date :	/ /		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	01/22/1990		
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 :	/ /		

NEWHALL LAND & FARMING CO (Continued) **S102064571**

Max MTBE GW : 0 Parts per Billion
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Priority: Not reported
Local Case # : Not reported
Beneficial: Not reported
Staff : JLC
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: Not reported
Operator : Not reported
Oversight Prgm: Local Implementing Agency UST (includes non-LOP cases within LOP jurisdiction)
Oversight Prgm : LIA
Review Date : 01/29/1990
Stop Date : / /
Work Suspended : Not reported
Responsible Party NEWHALL LAND & FARMING
RP Address: 23823 VALENCIA BOULEVARD, VALENCIA, 91355
Global Id: T0603703062
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 1
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: 1/10/1990
Lead Agency: Local Agency
Local Agency: 19000
Case Number: I-05310
Substance: Gasoline
Case Type: Soil
Status: Case Closed
Region: 4
Staff: Not reported
Source of Cleanup Funding: Not reported
Date the Leak was Discovered: Not reported
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: 1/10/1990
Date Case Last Changed on Database: 1/29/1990
Enforcement Action Date: Not reported
Date Leak First Reported: 1/10/1990

NEWHALL LAND & FARMING CO (Continued) **S102064571**

Enforcement Type: Not reported
Global ID : T0603703062
Organization : 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
Regional Board: 04
Owner Contact: Not reported
Responsible Party: NEWHALL LAND & FARMING
RP Address: 23823 VALENCIA BOULEVARD, VALENCIA, 91355
Significant Interim Remedial Action Taken: Not reported
Program : LIA
Lat / Long : 34.4392614 / -118.6062849
MTBE Counts : 0
MTBE Fuel : 1
MTBE Tested : NT
Local Agency Staff: UNK
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 : Not reported
Substance Quantity : Not reported
Abatement Method Used at the Site: Not reported
Operator : Not reported
Water System : PETER PITCHESS HONOR RANCHO, LAC SHERIFF
Well Name : WELL 01A - INACTIVE
Approx. Dist To Production Well (ft) : 5154.170056466850371916246237 5
W Global ID : W0603700046
Assigned Name : 1900046-008
MTBE Class : Not reported

CORTESE:
Region: CORTESE
Fac Address 2: 28760 CASTAIC CANYON RD

HMS:
Facility Id: 005116-005310
Area: 7
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: Removed
Region: Los Angeles County:

Facility Id: 014173-014696
Area: 7
Facility Type: Not reported
Permit Number: 174 Permit Status: Not reported
Facility Status: Removed
Region: Los Angeles County:

NEWHALL LAND & FARMING CO (Continued) S102064571

L58
ENE
> 1
11175 ft.

Relative:
Higher

Actual:
1016 ft.

TRI-R-TRUCKING Cortese S101298311
28748 CASTAIC CANYON RD LUST N/A
VALENCIA, CA 91355

Site 2 of 2 in cluster L

State LUST:

Cross Street:	THE OLD RD		
Qty Leaked:	Not reported		
Case Number	I-15245		
Reg Board:	4		
Chemical:	Diesel		
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:	10/11/1994		
Release Date:	10/29/1990		
Cleanup Fund Id :	Not reported		
Discover Date :	12/08/1989		
Enforcement Dt :	Not reported		
Enf Type:	Not reported		
Enter Date :	12/05/1990		
Funding:	Federal Funds		
Staff Initials:	Not reported		
How Discovered:	Tank Closure		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	UNK		
Leak Source:	UNK		
MTBE Date :	/ /		
Max MTBE GW :	0 Parts per Billion		
MTBE Tested:	Not Required to be Tested.		
Priority:	Not reported		
Local Case # :	Not reported		
Beneficial:	Not reported		
Staff :	JLC		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	Not reported		
Operator :	JAMES, ED OLD CASE#120690-17		
Oversight Prgm:	Local Implementing Agency UST (includes non-LOP cases within LOP jurisdiction)		
Oversight Prgm :	LIA		
Review Date :	10/11/1994		
Stop Date :	12/08/1989		
Work Suspended :	Not reported		
Responsible Party:	TRI-R TRUCKING		
RP Address:	28748 CASTIAC CYN RD, VALENCIA CA 91355		
Global Id:	T0603704280		
Org Name:	Not reported		
Contact Person:	Not reported		

TRI-R-TRUCKING (Continued) S101298311

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

LUST Region 4:

Report Date:	10/29/1990
Lead Agency:	Local Agency
Local Agency:	19000
Case Number:	I-15245
Substance:	Diesel
Case Type:	Soil
Status:	Case Closed
Region:	4
Staff:	Not reported
Source of Cleanup Funding:	Federal Funds
Date the Leak was Discovered:	12/8/1989
How the Leak was Discovered:	Tank Closure
How the Leak was Stopped:	Close Tank
Cause of Leak:	Unknown
Leak Source:	Unknown
Date The Leak was Stopped:	12/8/1989
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:	10/11/1994
Date Case Last Changed on Database:	10/11/1994
Enforcement Action Date:	Not reported
Date Leak First Reported:	10/29/1990
Enforcement Type:	Not reported
Global ID :	T0603704280
Organization :	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
Regional Board:	04
Owner Contact:	Not reported
Responsible Party:	TRI-R TRUCKING
RP Address:	28748 CASTIAC CYN RD, VALENCIA CA 91355
Significant Interim Remedial Action Taken:	Not reported
Program :	LIA
Lat / Long :	34.4389004 / -118.6060599
MTBE Counts :	0
MTBE Fuel :	0
MTBE Tested :	NRQ
Local Agency Staff:	UNK
Summary :	Not reported
Hydrologic Basin # :	Not reported

TRI-R-TRUCKING (Continued) **S101298311**

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 :	JAMES, ED OLD CASE#120690-17
Water System :	PETER PITCHESS HONOR RANCHO, LAC SHERIFF
Well Name :	WELL 01A - INACTIVE
Approx. Dist To Production Well (ft) :	5301.736465194323767948137824 3
W Global ID :	W0603700046
Assigned Name :	1900046-008
MTBE Class :	Not reported

CORTESE:

Region:	CORTESE
Fac Address 2:	28748 CASTAIC CANYON RD

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59 **CHMIRS** **S100279769**
NE **N/B I-5, CASTAIC INSP FACILITY** **N/A**
> 1 **SANTA CLARITA, CA**
11470 ft.

Relative: Higher

Actual: 1039 ft.

CHMIRS:

OES Control Number:	9010073
Chemical Name:	Not reported
Extent of Release:	Not reported
Property Use:	099
Incident Date:	09-FEB-90
Date Completed:	09-FEB-90
Time Completed :	645
Agency Id Number :	66
Agency Incident Number :	90-027
OES Incident Number :	9010073
Time Notified :	15
Surrounding Area :	099
Estimated Temperature :	Not reported
Property Management :	S
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 :	L. ACEVEDO #8721

(Continued) **S100279769**

Report Date :	20-MAR-90
Comments :	Not reported
Facility Telephone Number :	916 327-3310
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

---

60 **CHEVRON STATION 9 1899** **RCRIS-SQG** **1000886345**
ENE **28805 THE OLD RD** **FINDS** **CA0000138552**
> 1 **VALENCIA, CA 91355** **Cortese**
11471 ft.

Relative: Higher

Actual: 1019 ft.

RCRIS:

Owner:	CHEVRON U S A PRODUCTS CO (310) 694-7452
EPA ID:	CA0000138552
Contact:	RAMON J CRESSALL (805) 257-2584
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)

CORTESE:

Region:	CORTESE
Fac Address 2:	Not reported

---

61 **CHMIRS** **S100275931**
NNE **HASELY CYN 1MI NORTH OF THE OLD ROAD** **N/A**
> 1 **CASTAIC, CA 91355**
13061 ft.

Relative: Higher

Actual: 1047 ft.

CHMIRS:

OES Control Number:	9012379
Chemical Name:	Not reported
Extent of Release:	Not reported
Property Use:	Vacant Lot
Incident Date:	13-AUG-90
Date Completed:	13-AUG-90
Time Completed :	2115
Agency Id Number :	19110
Agency Incident Number :	A-65
OES Incident Number :	9012379
Time Notified :	1956

Map ID
Direction
Distance
Distance (ft.)
Elevation | Site

MAP FINDINGS

Database(s) | EDR ID Number / EPA ID Number

(Continued) — **S100275931**

Surrounding Area :	936
Estimated Temperature :	80
Property Management :	P
More Than Two Substances Involved? :	Y
Special Studies 1 :	Not reported
Special Studies 2 :	Not reported
Special Studies 3 :	Not reported
Special Studies 4 :	Y
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 :	MARTIN L. SCOTT #081235
Report Date :	13-AUG-90
Comments :	Yes
Facility Telephone Number :	213 267-2401
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

MAP FINDINGS - EDR PROPRIETARY HISTORICAL DATABASES

YEAR	NAME	ADDRESS	CITY	ST	DIR.	DIST.	ELEV.	TYPE

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

EDR Historical Gas Station & Dry Cleaner Search: No mapped sites were found in EDR's search of the EDR Historical Gas Station & Dry Cleaner Database within 0.250 mile of the Target Property.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CANYON COUNTRY	S105774538	TWO WATER WELLS RESTORATION	SIERRA HWY. / ARLINE ST.	91355	CA WDS
CASTAIC	S105628449	SCHOOL ON 18 ACRE SITE	RIDGE ROUTE ROAD	91384	SCH
LOS ANGELES COUNTY	S105637568		BERTH 70, LONG BEACH HARBOUR		CHMIRS, HAZNET
LOS ANGELES COUNTY	S105641187		BERTH 30 LONG BEACH HARBOUR		CHMIRS, HAZNET
LOS ANGELES COUNTY	S105630661		FLORENCE AVE / TELEGRAPH RD WHITTIER		CHMIRS, LUST
SANTA CLARITA	S105774545	COMMERCE CENTER BRIDGE	HWY. 126 / THE OLD ROAD	91355	CA WDS
SANTA CLARITA	S105774543	CASTAIC CREEK CHANNEL LINING	HWY. 126 / THE OLD ROAD	91355	CA WDS
SANTA CLARITA	S105774544	HWY. 126 BRIDGE	HWY. 126 / CASTAIC CREEK	91355	CA WDS
SANTA CLARITA	100544285	DEPARTMENT OF TRANSPORTATION	RTE 5 MAGIC MOUNTAIN PKWY EXIT	91355	RCRIS-SQG, FINDS
SANTA CLARITA	S105774555	GOLDEN VALLEY ROAD EXTENSION	BETWEEN SIERRA HWY / SOLEDAD CYN RD	91355	CA WDS
SANTA CLARITA	S106085278	CSI CRIME SCENE INVESTIGATION	3 MILES N OF TEMPLIN HWY ON	91355	HAZNET
VALENCIA	S106089351	CALIFORNIA INSTITUTE OF THE ARTS	VY #147 MCBEAN PRKWY / HWY 5	91355	HAZNET
VALENCIA	1000119892	PPG INDUSTRIES INC WORKS 24	25663 W AVE STANFORD	91355	RCRIS-SQG, RCRIS-TSD, FINDS, CORRACTS, CERC-NFRAP, LOS ANGELES CO. HMS
VALENCIA	S103646510	PRODUCTION GOODBYE LOVER	25135 AVENUE ANZA	91355	HAZNET
VALENCIA	S103646520	LOS ANGELES COUNTY FIRE DEPT	27223 HENRY MAYO DR- STATION 76	91355	HAZNET
VALENCIA	S105090242	TECHNICAL TROUBLE SHOOTING	24932 KEARNY AVENUE	91355	HAZNET
VALENCIA	S105774562	WATER WELL NO. W-11	S MCBEAN / COPPERHILL DR	91355	CA WDS
VALENCIA	1006839028	HOWARD CUSTOM BOATS INCORPORATED	28113 STANFORD AVENUE	91355	FINDS, EMI, HAZNET
VALENCIA	S101480564	GRUBER SYSTEMS, INC	25636 STANFORD AVENUE	91355	REF

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: 10/21/03
Date Made Active at EDR: 12/08/03
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 11/03/03
Elapsed ASTM days: 35
Date of Last EDR Contact: 11/03/03

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
Source: EPA
Telephone: N/A

Date of Government Version: 10/14/03
Date Made Active at EDR: 12/08/03
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 12/01/03
Elapsed ASTM days: 7
Date of Last EDR Contact: 11/03/03

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: 09/11/03
Date Made Active at EDR: 10/29/03
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 09/24/03
Elapsed ASTM days: 35
Date of Last EDR Contact: 12/22/03

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: 09/11/03
Date Made Active at EDR: 10/29/03
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 09/24/03
Elapsed ASTM days: 35
Date of Last EDR Contact: 12/22/03

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/17/03
Date Made Active at EDR: 11/11/03
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 10/01/03
Elapsed ASTM days: 41
Date of Last EDR Contact: 12/08/03

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: 09/10/03
Date Made Active at EDR: 10/01/03
Database Release Frequency: Varies

Date of Data Arrival at EDR: 09/11/03
Elapsed ASTM days: 20
Date of Last EDR Contact: 11/18/03

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: 12/31/02
Date Made Active at EDR: 02/03/03
Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/27/03
Elapsed ASTM days: 7
Date of Last EDR Contact: 10/27/03

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: 12/16/03
Date of Next Scheduled EDR Contact: 03/15/04

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: 07/09/03
Database Release Frequency: Annually

Date of Last EDR Contact: 10/08/03
Date of Next Scheduled EDR Contact: 01/05/04

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: 10/21/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/03/03
Date of Next Scheduled EDR Contact: 02/02/04

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: 10/23/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/07/03
Date of Next Scheduled EDR Contact: 01/05/04

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: 08/11/03
Database Release Frequency: Annually

Date of Last EDR Contact: 10/23/03
Date of Next Scheduled EDR Contact: 01/19/04

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: 10/16/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/07/03
Date of Next Scheduled EDR Contact: 01/05/04

MINES: Mines Master Index File
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 08/27/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/29/03
Date of Next Scheduled EDR Contact: 03/29/04

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
Date of Last EDR Contact: 11/21/03
Database Release Frequency: No Update Planned
Date of Next Scheduled EDR Contact: 02/23/04

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: 09/30/03
Date of Last EDR Contact: 11/12/03
Database Release Frequency: Annually
Date of Next Scheduled EDR Contact: 02/09/04

DOD: Department of Defense Sites
Source: USGS
Telephone: 703-648-5920
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
Date of Last EDR Contact: 11/12/03
Database Release Frequency: Semi-Annually
Date of Next Scheduled EDR Contact: 02/09/04

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
Date of Last EDR Contact: N/A
Database Release Frequency: Quarterly
Date of Next Scheduled EDR Contact: N/A

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: 07/15/03
Date of Last EDR Contact: 12/17/03
Database Release Frequency: Semi-Annually
Date of Next Scheduled EDR Contact: 03/15/04

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date of Last EDR Contact: N/A
Database Release Frequency: N/A
Date of Next Scheduled EDR Contact: N/A

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
Date of Last EDR Contact: 12/08/03
Database Release Frequency: No Update Planned
Date of Next Scheduled EDR Contact: 03/08/04

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-260-1531
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
Date of Last EDR Contact: 12/22/03
Database Release Frequency: Annually
Date of Next Scheduled EDR Contact: 03/22/04

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
Date of Last EDR Contact: 10/20/03
Database Release Frequency: Every 4 Years
Date of Next Scheduled EDR Contact: 01/19/04

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: 10/16/03
Date of Last EDR Contact: 12/22/03
Database Release Frequency: Quarterly
Date of Next Scheduled EDR Contact: 03/22/04

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
Date of Last EDR Contact: 10/20/03
Database Release Frequency: Annually
Date of Next Scheduled EDR Contact: 01/19/04

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: 10/16/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

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: 11/30/03
Date Made Active at EDR: 01/08/04
Database Release Frequency: Annually

Date of Data Arrival at EDR: 12/01/03
Elapsed ASTM days: 38
Date of Last EDR Contact: 12/01/03

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: 11/30/03
Date Made Active at EDR: 01/08/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/01/03
Elapsed ASTM days: 38
Date of Last EDR Contact: 12/01/03

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: 11/24/03

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: 10/27/03

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: 10/20/03

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/03/03

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: 11/14/03
Date Made Active at EDR: 01/08/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/16/03
Elapsed ASTM days: 23
Date of Last EDR Contact: 12/16/03

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: 12/09/03

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: 04/02/03
Date Made Active at EDR: 04/25/03
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 04/16/03
Elapsed ASTM days: 9
Date of Last EDR Contact: 10/14/03

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

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: 04/02/03
Date Made Active at EDR: 04/30/03
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 04/16/03
Elapsed ASTM days: 14
Date of Last EDR Contact: 10/14/03

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: 11/30/03
Date Made Active at EDR: 12/23/03
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 12/01/03
Elapsed ASTM days: 22
Date of Last EDR Contact: 12/01/03

INDIAN UST: Underground Storage Tanks on Indian Land
Source: EPA Region 9
Telephone: 415-972-3368

Date of Government Version: 12/05/03
Date Made Active at EDR: 01/08/04
Database Release Frequency: Varies
Date of Data Arrival at EDR: 12/05/03
Elapsed ASTM days: 34
Date of Last EDR Contact: 11/24/03

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: 07/01/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 11/03/03
Date of Next Scheduled EDR Contact: 02/02/04

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: 11/26/03
Database Release Frequency: Annually
Date of Last EDR Contact: 01/07/04
Date of Next Scheduled EDR Contact: 04/05/04

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CA WDS: Waste Discharge System
Source: State Water Resources Control Board
Telephone: 916-657-1571
Sites which have been issued waste discharge requirements.

Date of Government Version: 09/22/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

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: 10/07/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 10/08/03
Date of Next Scheduled EDR Contact: 01/05/04

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: 11/30/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/01/04

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: 12/31/01
Database Release Frequency: Varies
Date of Last EDR Contact: 10/20/03
Date of Next Scheduled EDR Contact: 01/19/04

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: 11/30/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/01/04

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: 11/30/03
Database Release Frequency: Quarterly
Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/01/04

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: 11/30/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/01/04

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: 11/11/03
Date of Next Scheduled EDR Contact: 02/09/04

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: 10/27/03
Date of Next Scheduled EDR Contact: 01/26/04

Underground Tanks
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

Date of Government Version: 07/03/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/27/03
Date of Next Scheduled EDR Contact: 01/26/04

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: 12/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/01/04

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: 10/07/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/08/03
Date of Next Scheduled EDR Contact: 02/09/04

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: 07/25/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/08/04

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: 11/21/03
Date of Next Scheduled EDR Contact: 02/16/04

City of El Segundo Underground Storage Tank
Source: City of El Segundo Fire Department
Telephone: 310-524-2236

Date of Government Version: 09/11/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/17/03
Date of Next Scheduled EDR Contact: 02/16/04

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: 11/24/03
Date of Next Scheduled EDR Contact: 02/23/04

City of Torrance Underground Storage Tank
Source: City of Torrance Fire Department
Telephone: 310-618-2973

Date of Government Version: 09/03/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/17/03
Date of Next Scheduled EDR Contact: 02/16/04

City of Los Angeles Landfills
Source: Engineering & Construction Division
Telephone: 213-473-7869

Date of Government Version: 03/01/02
Database Release Frequency: Varies

Date of Last EDR Contact: 12/16/03
Date of Next Scheduled EDR Contact: 03/15/04

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: 11/17/03
Date of Next Scheduled EDR Contact: 02/16/04

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: 01/07/03
Database Release Frequency: Annually

Date of Last EDR Contact: 11/17/03
Date of Next Scheduled EDR Contact: 02/16/04

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: 08/19/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/03/03
Date of Next Scheduled EDR Contact: 02/02/04

NAPA COUNTY:

Sites With Reported Contamination
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 10/02/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/29/03
Date of Next Scheduled EDR Contact: 03/29/04

Closed and Operating Underground Storage Tank Sites
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269

Date of Government Version: 10/02/03
Database Release Frequency: Annually

Date of Last EDR Contact: 12/29/03
Date of Next Scheduled EDR Contact: 03/29/04

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: 07/01/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/25/03
Date of Next Scheduled EDR Contact: 03/08/04

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: 09/02/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/19/03
Date of Next Scheduled EDR Contact: 03/08/04

List of Industrial Site Cleanups
Source: Health Care Agency
Telephone: 714-834-3446
Petroleum and non-petroleum spills.

Date of Government Version: 10/24/00
Database Release Frequency: Annually

Date of Last EDR Contact: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

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: 10/16/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/22/03
Date of Next Scheduled EDR Contact: 03/22/04

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: 06/03/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/20/03
Date of Next Scheduled EDR Contact: 01/19/04

Underground Storage Tank Tank List
Source: Health Services Agency
Telephone: 909-358-5055

Date of Government Version: 05/30/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/20/03
Date of Next Scheduled EDR Contact: 01/19/04

SACRAMENTO COUNTY:

CS - Contaminated Sites
Source: Sacramento County Environmental Management
Telephone: 916-875-8406

Date of Government Version: 07/17/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/03/03
Date of Next Scheduled EDR Contact: 02/02/04

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: 07/17/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/03/03
Date of Next Scheduled EDR Contact: 02/02/04

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: 09/30/03 — Date of Last EDR Contact: 12/08/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 03/08/04

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 — Date of Last EDR Contact: 11/21/03
Database Release Frequency: Varies — Date of Next Scheduled EDR Contact: 02/23/04

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 — Date of Last EDR Contact: 10/07/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 01/05/04

SAN FRANCISCO COUNTY:

Local Oversite Facilities
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920

Date of Government Version: 12/09/03 — Date of Last EDR Contact: 12/08/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 03/08/04

Underground Storage Tank Information
Source: Department of Public Health
Telephone: 415-252-3920

Date of Government Version: 09/11/03 — Date of Last EDR Contact: 12/08/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 03/08/04

SAN MATEO COUNTY:

Fuel Leak List
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921

Date of Government Version: 11/24/03 — Date of Last EDR Contact: 10/27/03
Database Release Frequency: Semi-Annually — Date of Next Scheduled EDR Contact: 01/26/04

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: 11/13/03 — Date of Last EDR Contact: 10/13/03
Database Release Frequency: Annually — Date of Next Scheduled EDR Contact: 01/12/04

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report
Source: Santa Clara Valley Water District
Telephone: 408-265-2600

Date of Government Version: 07/02/03 — Date of Last EDR Contact: 12/29/03
Database Release Frequency: Semi-Annually — Date of Next Scheduled EDR Contact: 03/29/04

Hazardous Material Facilities
Source: City of San Jose Fire Department
Telephone: 408-277-4659

Date of Government Version: 10/01/03 — Date of Last EDR Contact: 12/08/03
Database Release Frequency: Annually — Date of Next Scheduled EDR Contact: 03/08/04

SOLANO COUNTY:

Leaking Underground Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 08/21/03 — Date of Last EDR Contact: 12/16/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 03/15/04

Underground Storage Tanks
Source: Solano County Department of Environmental Management
Telephone: 707-421-6770

Date of Government Version: 08/21/03 — Date of Last EDR Contact: 12/16/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 03/15/04

SONOMA COUNTY:

Leaking Underground Storage Tank Sites
Source: Department of Health Services
Telephone: 707-565-6565

Date of Government Version: 10/01/03 — Date of Last EDR Contact: 10/27/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 01/26/04

SUTTER COUNTY:

Underground Storage Tanks
Source: Sutter County Department of Agriculture
Telephone: 530-822-7500

Date of Government Version: 07/01/01 — Date of Last EDR Contact: 12/01/03
Database Release Frequency: Semi-Annually — Date of Next Scheduled EDR Contact: 01/05/04

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: 11/26/03
Date of Next Scheduled EDR Contact: 02/23/04

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: 09/26/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/16/03
Date of Next Scheduled EDR Contact: 03/15/04

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: 07/30/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/16/03
Date of Next Scheduled EDR Contact: 01/12/04

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: 09/02/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/16/03
Date of Next Scheduled EDR Contact: 03/15/04

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Source: Yolo County Department of Health
Telephone: 530-666-8646

Date of Government Version: 10/29/03
Database Release Frequency: Annually

Date of Last EDR Contact: 10/20/03
Date of Next Scheduled EDR Contact: 01/19/04

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: 11/21/03
Date of Next Scheduled EDR Contact: 02/23/04

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: 03/28/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/14/03
Date of Next Scheduled EDR Contact: 01/12/04

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: Quarterly

Date of Last EDR Contact: 11/17/03
Date of Next Scheduled EDR Contact: 02/16/04

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: 08/09/01
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/31/03
Date of Next Scheduled EDR Contact: 03/29/04

LUST REG 5: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-255-3125

Date of Government Version: 07/01/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/16/03
Date of Next Scheduled EDR Contact: 01/05/04

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: 12/08/03
Date of Next Scheduled EDR Contact: 03/08/04

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: 11/13/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/07/03
Date of Next Scheduled EDR Contact: 01/05/04

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: 07/02/02
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/29/03
Date of Next Scheduled EDR Contact: 03/29/04

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: 09/16/03
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/12/03
Date of Next Scheduled EDR Contact: 02/09/04

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 — Date of Last EDR Contact: 10/20/03
Database Release Frequency: No Update Planned — Date of Next Scheduled EDR Contact: 01/19/04

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 — Date of Last EDR Contact: 11/21/03
Database Release Frequency: Semi-Annually — Date of Next Scheduled EDR Contact: 02/23/04

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: 03/28/03 — Date of Last EDR Contact: 10/14/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 01/12/04

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 — Date of Last EDR Contact: 11/17/03
Database Release Frequency: Semi-Annually — Date of Next Scheduled EDR Contact: 02/16/04

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: 10/01/03 — Date of Last EDR Contact: 10/27/03
Database Release Frequency: Quarterly — Date of Next Scheduled EDR Contact: 01/26/04

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: 10/20/03 — Date of Last EDR Contact: 10/07/03
Database Release Frequency: Semi-Annually — Date of Next Scheduled EDR Contact: 01/05/04

SLIC REG 6L: SLIC Sites
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574

Date of Government Version: 09/09/03 — Date of Last EDR Contact: 12/08/03
Database Release Frequency: Varies — Date of Next Scheduled EDR Contact: 03/08/04

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: 05/08/03 — Date of Last EDR Contact: 10/07/03
Database Release Frequency: Semi-Annually — Date of Next Scheduled EDR Contact: 01/05/04

SLIC REG 7: SLIC List
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491

Date of Government Version: 05/29/03 — Date of Last EDR Contact: 12/01/03
Database Release Frequency: Varies — Date of Next Scheduled EDR Contact: 02/23/04

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 — Date of Last EDR Contact: 10/20/03
Database Release Frequency: Semi-Annually — Date of Next Scheduled EDR Contact: 01/05/04

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: 12/01/03 — Date of Last EDR Contact: 12/01/03
Database Release Frequency: Annually — Date of Next Scheduled EDR Contact: 03/04/04

EDR PROPRIETARY HISTORICAL DATABASES

EDR Historical Gas Station and Dry Cleaners: EDR has searched select national collections of business directories and has collected listings of potential dry cleaner and gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning and gas station/filling station/service station establishments. The categories reviewed included, but were not limited to: *gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, dry cleaner, cleaners, laundry, laundromat, cleaning/laundry, wash & dry, etc.*

This information is meant to assist and complement environmental professionals in their conduct of environmental site assessments, and is not meant to be a substitute for a full historical investigation as defined in ASTM E1527. The information provided in this proprietary database may or may not be complete; i.e., the absence of a dry cleaner or gas station/filling station/service station site does not necessarily mean that such a site did not exist in the area covered by this report.

(A note on "dry cleaning" sites: it is not possible for EDR to differentiate between establishments that use PERC on-site as a cleaning solvent and sites that function simply as drop-off and pick-up locations or that are traditional wet cleaning/laundry facilities. Therefore, it is essential for environmental professionals to incorporate professional judgment in the evaluation of each site.)

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by 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.

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: 11/30/03
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/01/03
Date of Next Scheduled EDR Contact: 03/01/04

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

TENTATIVE TRACT MAP NO. 53108
WOLCOTT WAY/HENRY MAYO DRIVE
VALENCIA, CA 91355

TARGET PROPERTY COORDINATES

Latitude (North):	34.424301 - 34° 25' 27.5"
Longitude (West):	118.637299 - 118° 38' 14.3"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	349543.9
UTM Y (Meters):	3810222.8
Elevation:	958 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).

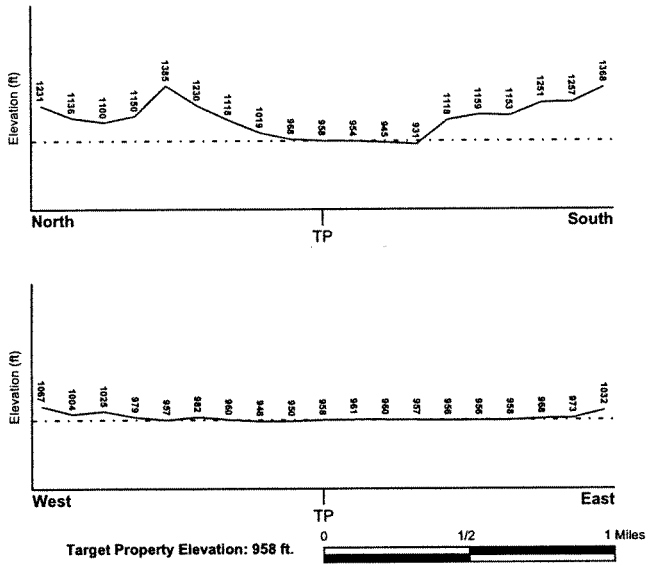
TOPOGRAPHIC INFORMATION

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-D6 VAL VERDE, CA
General Topographic Gradient:	General South
Source:	USGS 7.5 min quad index

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0650430340B

Additional Panels in search area: 0650430475B

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
VAL VERDE	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
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT		GEOLOGIC AGE IDENTIFICATION	
Era:	Cenozoic	Category:	Continental Deposits
System:	Tertiary		
Series:	Pliocene		
Code:	Tpc *(decoded above as Era, System & Series)*		

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
No Wells Found		

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	4565	1/4 - 1/2 Mile ENE

STATE OIL/GAS WELL INFORMATION

DISTANCE FROM TP (Miles)	DISTANCE FROM TP (Miles)
2 - 3 Miles North	2 - 3 Miles North
2 - 3 Miles North	2 - 3 Miles North
2 - 3 Miles North	2 - 3 Miles North
2 - 3 Miles North	2 - 3 Miles North
2 - 3 Miles North	2 - 3 Miles North
2 - 3 Miles North	2 - 3 Miles North
2 - 3 Miles NNW	2 - 3 Miles North
2 - 3 Miles North	2 - 3 Miles NNW
2 - 3 Miles NNW	2 - 3 Miles NW
2 - 3 Miles NNE	2 - 3 Miles NNW
1 - 2 Miles North	2 - 3 Miles NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

DISTANCE FROM TP (Miles)	DISTANCE FROM TP (Miles)
2 - 3 Miles NNW	2 - 3 Miles NNW
2 - 3 Miles NE	2 - 3 Miles NW
1 - 2 Miles NNW	1 - 2 Miles NNW
1 - 2 Miles NNW	2 - 3 Miles NNW
1 - 2 Miles NNW	1 - 2 Miles NNW
1 - 2 Miles North	2 - 3 Miles NE
1 - 2 Miles North	1 - 2 Miles North
1 - 2 Miles NNE	2 - 3 Miles WNW
1 - 2 Miles NNW	2 - 3 Miles ENE
1 - 2 Miles NW	1 - 2 Miles NE
1 - 2 Miles WNW	1 - 2 Miles WNW
1 - 2 Miles WNW	1 - 2 Miles WNW
2 - 3 Miles WNW	1/2 - 1 Mile NNW
2 - 3 Miles WNW	1 - 2 Miles WNW
1/2 - 1 Mile NNW	1 - 2 Miles ENE
1 - 2 Miles WNW	2 - 3 Miles WNW
1 - 2 Miles ENE	1 - 2 Miles WNW
1 - 2 Miles WNW	1 - 2 Miles WNW
1 - 2 Miles WNW	1/2 - 1 Mile NE
1 - 2 Miles WNW	2 - 3 Miles West
1 - 2 Miles ENE	1 - 2 Miles WNW
2 - 3 Miles East	1/2 - 1 Mile ENE
1 - 2 Miles East	1 - 2 Miles West
2 - 3 Miles West	1 - 2 Miles East
1 - 2 Miles West	2 - 3 Miles West
1 - 2 Miles West	1 - 2 Miles West
2 - 3 Miles West	1 - 2 Miles West
2 - 3 Miles West	1 - 2 Miles West
2 - 3 Miles West	1 - 2 Miles East
1/2 - 1 Mile ENE	1 - 2 Miles West
1 - 2 Miles West	1 - 2 Miles West
2 - 3 Miles West	2 - 3 Miles West
2 - 3 Miles West	2 - 3 Miles West
2 - 3 Miles West	1 - 2 Miles West
2 - 3 Miles West	2 - 3 Miles West
1 - 2 Miles West	1 - 2 Miles West
2 - 3 Miles West	1 - 2 Miles East
1 - 2 Miles West	1 - 2 Miles West
2 - 3 Miles West	1 - 2 Miles East
1 - 2 Miles West	1 - 2 Miles West
2 - 3 Miles West	1 - 2 Miles East
1 - 2 Miles West	2 - 3 Miles West
2 - 3 Miles West	1/4 - 1/2 Mile ENE
1 - 2 Miles East	1 - 2 Miles West
1 - 2 Miles West	1 - 2 Miles West
1 - 2 Miles West	2 - 3 Miles West
1 - 2 Miles West	1 - 2 Miles West
1/4 - 1/2 Mile East	2 - 3 Miles West
2 - 3 Miles East	1 - 2 Miles West
2 - 3 Miles West	2 - 3 Miles West
1 - 2 Miles East	1/2 - 1 Mile East
2 - 3 Miles West	2 - 3 Miles West
1 - 2 Miles West	2 - 3 Miles West
1 - 2 Miles West	2 - 3 Miles West
1/4 - 1/2 Mile West	1/2 - 1 Mile West

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

DISTANCE FROM TP (Miles)	DISTANCE FROM TP (Miles)
1/2 - 1 Mile West	2 - 3 Miles West
1 - 2 Miles West	0 - 1/8 Mile SSW
1 - 2 Miles West	2 - 3 Miles West
2 - 3 Miles West	1 - 2 Miles West
1 - 2 Miles West	2 - 3 Miles West
2 - 3 Miles West	2 - 3 Miles West
2 - 3 Miles West	1 - 2 Miles East
2 - 3 Miles West	1 - 2 Miles East
1 - 2 Miles East	1 - 2 Miles East
1 - 2 Miles East	1/2 - 1 Mile ESE
1 - 2 Miles ESE	2 - 3 Miles West
2 - 3 Miles East	2 - 3 Miles West
1/4 - 1/2 Mile South	2 - 3 Miles West
1 - 2 Miles ESE	1 - 2 Miles East
1 - 2 Miles ESE	1/4 - 1/2 Mile SSW
1 - 2 Miles ESE	2 - 3 Miles West
2 - 3 Miles West	1/2 - 1 Mile ESE
1 - 2 Miles ESE	1 - 2 Miles ESE
2 - 3 Miles ESE	1/2 - 1 Mile SE
1 - 2 Miles ESE	1 - 2 Miles ESE
2 - 3 Miles WSW	2 - 3 Miles WSW
1/2 - 1 Mile SE	2 - 3 Miles WSW
1 - 2 Miles ESE	1/2 - 1 Mile SE
1/2 - 1 Mile SE	1 - 2 Miles ESE
1 - 2 Miles ESE	1/2 - 1 Mile SE
1 - 2 Miles ESE	1/2 - 1 Mile SSE
1 - 2 Miles ESE	1 - 2 Miles ESE
2 - 3 Miles ESE	2 - 3 Miles ESE
1 - 2 Miles ESE	1 - 2 Miles SW
1 - 2 Miles ESE	1 - 2 Miles ESE
1 - 2 Miles SE	2 - 3 Miles WSW
1 - 2 Miles SE	1 - 2 Miles ESE
2 - 3 Miles ESE	1 - 2 Miles ESE
1 - 2 Miles SE	1 - 2 Miles SE
2 - 3 Miles ESE	2 - 3 Miles ESE
1 - 2 Miles SE	1 - 2 Miles SE
1 - 2 Miles ESE	1 - 2 Miles SE
1 - 2 Miles ESE	1 - 2 Miles SSW
2 - 3 Miles ESE	1 - 2 Miles WSW
2 - 3 Miles ESE	1 - 2 Miles WSW
1 - 2 Miles SW	1 - 2 Miles South
1 - 2 Miles SSW	1 - 2 Miles SW
1 - 2 Miles SSW	1 - 2 Miles SW
1 - 2 Miles SW	1 - 2 Miles SSW
1 - 2 Miles SW	1 - 2 Miles SW
1 - 2 Miles SW	1 - 2 Miles South
1 - 2 Miles SSW	1 - 2 Miles South
1 - 2 Miles SSW	1 - 2 Miles SE
1 - 2 Miles SW	1 - 2 Miles SW
1 - 2 Miles SW	1 - 2 Miles SSE
1 - 2 Miles SW	1 - 2 Miles SW
1 - 2 Miles South	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles South
1 - 2 Miles SW	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles SSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

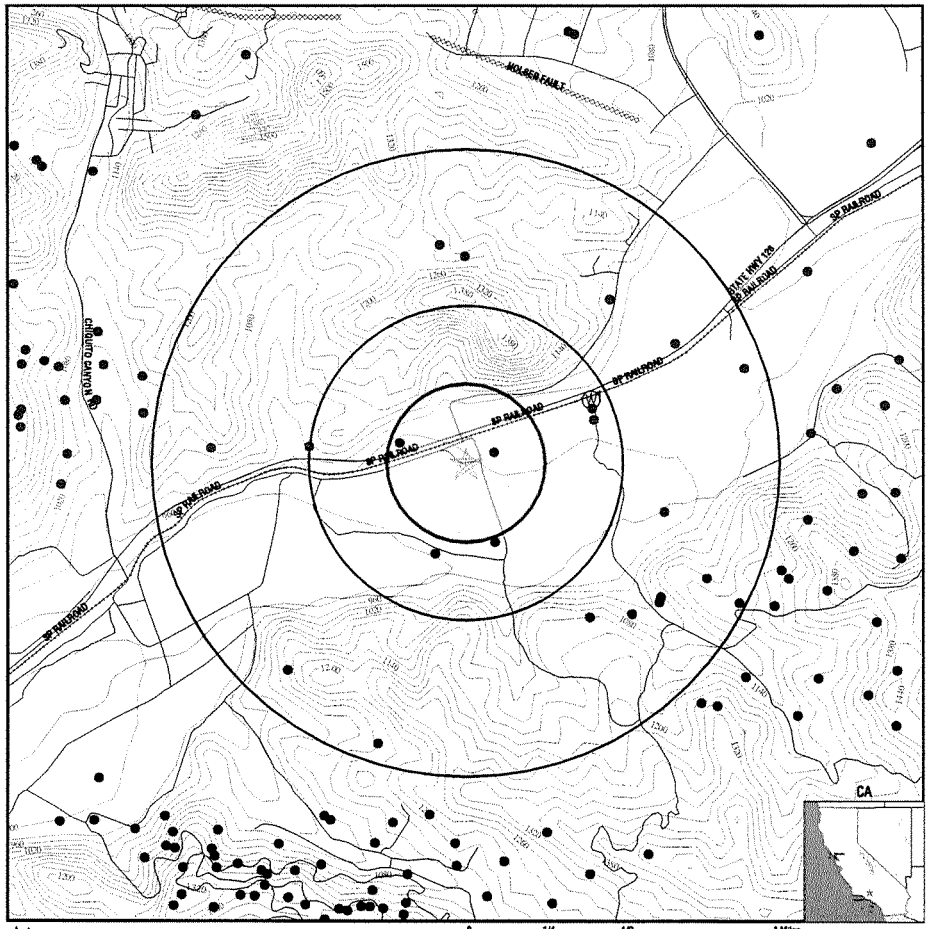
DISTANCE FROM TP (Miles)	DISTANCE FROM TP (Miles)
1 - 2 Miles SSE	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles SSW
1 - 2 Miles SE	1 - 2 Miles SSW
1 - 2 Miles SW	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles South
1 - 2 Miles SSW	1 - 2 Miles SSW
1 - 2 Miles South	1 - 2 Miles SSW
1 - 2 Miles SW	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles South
1 - 2 Miles SSE	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles South
1 - 2 Miles SSW	1 - 2 Miles SSE
1 - 2 Miles South	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles SSW
1 - 2 Miles South	1 - 2 Miles SSW
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles SSW	1 - 2 Miles South
1 - 2 Miles South	2 - 3 Miles SW
1 - 2 Miles South	1 - 2 Miles SSW
1 - 2 Miles South	1 - 2 Miles SSW
1 - 2 Miles SSE	1 - 2 Miles SSW
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles SSW	1 - 2 Miles South
1 - 2 Miles South	1 - 2 Miles SSW
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles SSW	1 - 2 Miles SSE
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles SSE	1 - 2 Miles South
1 - 2 Miles South	1 - 2 Miles SSW
1 - 2 Miles SSW	1 - 2 Miles SSW
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles South	1 - 2 Miles South
2 - 3 Miles SSE	1 - 2 Miles SSE
1 - 2 Miles South	1 - 2 Miles South
1 - 2 Miles South	2 - 3 Miles SSW
2 - 3 Miles South	1 - 2 Miles South
1 - 2 Miles South	2 - 3 Miles South
2 - 3 Miles SSE	2 - 3 Miles South
2 - 3 Miles South	2 - 3 Miles SSE
2 - 3 Miles SSE	2 - 3 Miles SSE
2 - 3 Miles South	2 - 3 Miles South
2 - 3 Miles South	2 - 3 Miles South
2 - 3 Miles SSE	2 - 3 Miles South
2 - 3 Miles South	2 - 3 Miles SSE
2 - 3 Miles South	2 - 3 Miles SSE
2 - 3 Miles SSE	2 - 3 Miles South
2 - 3 Miles South	2 - 3 Miles South
2 - 3 Miles SSE	2 - 3 Miles South

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

DISTANCE FROM TP (Miles)	DISTANCE FROM TP (Miles)
2 - 3 Miles SSE	2 - 3 Miles South
2 - 3 Miles South	2 - 3 Miles SSE
2 - 3 Miles South	2 - 3 Miles SSE
2 - 3 Miles South	2 - 3 Miles South
2 - 3 Miles South	2 - 3 Miles SSW
2 - 3 Miles SSE	2 - 3 Miles SSE
2 - 3 Miles SSE	2 - 3 Miles SSE

PHYSICAL SETTING SOURCE MAP - 1108642.4s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- (W) Water Wells
- (P) 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:	Tentative Tract Map No. 53108	CUSTOMER:	Building Analytics
ADDRESS:	Wolcott Way/Henry Mayo Drive	CONTACT:	Joe Montoya
CITY/STATE/ZIP:	Valencia CA 91355	INQUIRY #:	1108642.4s
LAT/LONG:	34.4243 / 118.6373	DATE:	January 08, 2004 12:47 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID / Direction / Distance / Elevation	Database	EDR ID Number
1 ENE 1/4 - 1/2 Mile Higher	CA WELLS	4565

Water System Information:

Prime Station Code:	04N/17W-14Q07 S	User ID:	19C
FRDS Number:	1909014001	County:	Los Angeles
District Number:	49	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	342538.0 1183746.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL C-6		
System Number:	1909014		
System Name:	WALNUT HILL		
Organization That Operates System:	23823 VALENCIA VALENCIA, CA 91355		
Pop Served:	50	Connections:	10
Area Served:	Not Reported		

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Direction
Distance — Database — EDR ID Number

North
2 - 3 Miles — **OIL_GAS** — **CA00010927**

Well Number:	5	Status:	Completed oil- directional
API Number:	03722953	Operator:	Petrominerals Corporation
Latitude:	34.459921	Longitude:	-118.636642
Region:	2	Lease:	Sadd
Section:	02	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles — **OIL_GAS** — **CA00010926**

Well Number:	4	Status:	Completed oil- directional
API Number:	03722948	Operator:	Petrominerals Corporation
Latitude:	34.459793	Longitude:	-118.636673
Region:	2	Lease:	Sadd
Section:	02	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles — **OIL_GAS** — **CA00011006**

Well Number:	7	Status:	Completed oil
API Number:	03722750	Operator:	Petrominerals Corporation
Latitude:	34.459727	Longitude:	-118.640970
Region:	2	Lease:	Burns Crist
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles — **OIL_GAS** — **CA00011004**

Well Number:	5	Status:	001
API Number:	03724193	Operator:	Petrominerals Corporation
Latitude:	34.459573	Longitude:	-118.640939
Region:	2	Lease:	Burns Crist
Section:	03	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — **OIL_GAS** — **CA00010953**

Well Number:	1	Status:	Completed oil- directional
API Number:	03722739	Operator:	Petrominerals Corporation
Latitude:	34.458657	Longitude:	-118.639917
Region:	2	Lease:	Sadd
Section:	02	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles — **OIL_GAS** — **CA00011005**

Well Number:	6	Status:	Completed oil
API Number:	03722740	Operator:	Petrominerals Corporation
Latitude:	34.458523	Longitude:	-118.641679
Region:	2	Lease:	Burns Crist
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles — **OIL_GAS** — **CA00010925**

Well Number:	2	Status:	Completed oil
API Number:	03722940	Operator:	Petrominerals Corporation
Latitude:	34.458479	Longitude:	-118.639731
Region:	2	Lease:	Sadd
Section:	02	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles — **OIL_GAS** — **CA00010950**

Well Number:	3	Status:	Completed oil- directional
API Number:	03722747	Operator:	Petrominerals Corporation
Latitude:	34.457277	Longitude:	-118.639759
Region:	2	Lease:	McGillivrae
Section:	02	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | OIL_GAS | CA00010948

Well Number:	9	Status:	001
API Number:	03724195	Operator:	Petrominerals Corporation
Latitude:	34.456633	Longitude:	-118.641273
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | OIL_GAS | CA00010941

Well Number:	10	Status:	001
API Number:	03724196	Operator:	Petrominerals Corporation
Latitude:	34.456607	Longitude:	-118.641520
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | OIL_GAS | CA00010946

Well Number:	7	Status:	Completed oil
API Number:	03722727	Operator:	Petrominerals Corporation
Latitude:	34.456428	Longitude:	-118.641365
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | OIL_GAS | CA00010947

Well Number:	8	Status:	001
API Number:	03724194	Operator:	Petrominerals Corporation
Latitude:	34.456353	Longitude:	-118.641056
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | OIL_GAS | CA00013454

Well Number:	17	Status:	Plugged and abandoned oil
API Number:	03707260	Operator:	G. R. Nance Co., Inc
Latitude:	34.456041	Longitude:	-118.656948
Region:	2	Lease:	Towle
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | OIL_GAS | CA00010949

Well Number:	2	Status:	Completed oil
API Number:	03722349	Operator:	Petrominerals Corporation
Latitude:	34.455897	Longitude:	-118.639788
Region:	2	Lease:	McGillivrae
Section:	02	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
2 - 3 Miles | OIL_GAS | CA00010945

Well Number:	6	Status:	Completed oil
API Number:	03722340	Operator:	Petrominerals Corporation
Latitude:	34.455253	Longitude:	-118.641239
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
2 - 3 Miles | OIL_GAS | CA00010966

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03721689	Operator:	Petrominerals Corporation
Latitude:	34.455147	Longitude:	-118.656791
Region:	2	Lease:	Hilgenfeld
Section:	03	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — OIL_GAS — CA00013495

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03707259	Operator:	Federal Oil Company
Latitude:	34.454320	Longitude:	-118.652337
Region:	2	Lease:	Federal-Towle
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NW
2 - 3 Miles — OIL_GAS — CA00010784

Well Number:	88-4	Status:	Plugged and abandoned oil
API Number:	03707261	Operator:	Porsco Operating Company
Latitude:	34.454295	Longitude:	-118.659325
Region:	2	Lease:	Claiborne
Section:	04	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNE
2 - 3 Miles — OIL_GAS — CA00015458

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03707262	Operator:	British-American Oil Prod Co
Latitude:	34.454254	Longitude:	-118.613133
Region:	2	Lease:	Wayside Honor Farm
Section:	01	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
2 - 3 Miles — OIL_GAS — CA00010943

Well Number:	4	Status:	Completed oil
API Number:	03722060	Operator:	Petrominerals Corporation
Latitude:	34.454010	Longitude:	-118.645937
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
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 — CA00010967

Well Number:	1	Status:	Completed oil
API Number:	03707258	Operator:	Petrominerals Corporation
Latitude:	34.453848	Longitude:	-118.641113
Region:	2	Lease:	Mabel E. Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
2 - 3 Miles — OIL_GAS — CA00010944

Well Number:	5	Status:	Plugged and abandoned-dry hole
API Number:	03722072	Operator:	Petrominerals Corporation
Latitude:	34.453826	Longitude:	-118.647420
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
2 - 3 Miles — OIL_GAS — CA00010940

Well Number:	2	Status:	Completed oil
API Number:	03721715	Operator:	Petrominerals Corporation
Latitude:	34.453634	Longitude:	-118.643833
Region:	2	Lease:	Mabel E. Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
2 - 3 Miles — OIL_GAS — CA00010942

Well Number:	3	Status:	Completed oil- directional
API Number:	03721805	Operator:	Petrominerals Corporation
Latitude:	34.453607	Longitude:	-118.644112
Region:	2	Lease:	Mabel Strawn
Section:	03	Township:	04N
Range:	17W	Map Number:	253
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

NE
2 - 3 Miles — **OIL_GAS** — **CA00007344**

Well Number:	27	Status:	Plugged and abandoned-dry hole
API Number:	03707281	Operator:	Vintage Petroleum inc
Latitude:	34.453190	Longitude:	-118.610317
Region:	2	Lease:	Honor Rancho 'A' (NCT-1)
Section:	01	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NW
2 - 3 Miles — **OIL_GAS** — **CA00013497**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705395	Operator:	Fernando Oil Company
Latitude:	34.452872	Longitude:	-118.657065
Region:	2	Lease:	Wel No.
Section:	10	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1 - 2 Miles — **OIL_GAS** — **CA00012074**

Well Number:	81X	Status:	Plugged and abandoned-dry hole
API Number:	03721466	Operator:	Montara Petroleum Company
Latitude:	34.452826	Longitude:	-118.641111
Region:	2	Lease:	Sterling
Section:	10	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1 - 2 Miles — **OIL_GAS** — **CA00010933**

Well Number:	2-10	Status:	Completed oil
API Number:	03721816	Operator:	Petrominerals Corporation
Latitude:	34.452744	Longitude:	-118.642502
Region:	2	Lease:	Sterling
Section:	10	Township:	04N
Range:	17W	Map Number:	253
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 Miles — **OIL_GAS** — **CA00010932**

Well Number:	1-10	Status:	Completed oil
API Number:	03721801	Operator:	Petrominerals Corporation
Latitude:	34.452663	Longitude:	-118.643893
Region:	2	Lease:	Sterling
Section:	10	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
2 - 3 Miles — **OIL_GAS** — **CA00008486**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706205	Operator:	U. S. Natural Gas C & Manning
Latitude:	34.452622	Longitude:	-118.648222
Region:	2	Lease:	Strawn
Section:	10	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1 - 2 Miles — **OIL_GAS** — **CA00015649**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705148	Operator:	Atlantic Oil Company
Latitude:	34.452428	Longitude:	-118.645253
Region:	2	Lease:	Strawn
Section:	10	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1 - 2 Miles — **OIL_GAS** — **CA00013952**

Well Number:	3-10	Status:	Plugged and abandoned oil
API Number:	03721871	Operator:	Decalta International Corp
Latitude:	34.450949	Longitude:	-118.644354
Region:	2	Lease:	Sterling
Section:	10	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00009001**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706082	Operator:	Texaco E & P Inc
Latitude:	34.450430	Longitude:	-118.639127
Region:	2	Lease:	Fernando
Section:	11	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NE
2 - 3 Miles — **OIL_GAS** — **CA00008942**

Well Number:	D-3	Status:	Plugged and abandoned-dry hole
API Number:	03707300	Operator:	Texaco E & P Inc
Latitude:	34.447757	Longitude:	-118.604933
Region:	2	Lease:	Newhall
Section:	07	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** — **CA00008939**

Well Number:	B-1	Status:	Plugged and abandoned-dry hole
API Number:	03706107	Operator:	Texaco E & P Inc
Latitude:	34.444225	Longitude:	-118.630643
Region:	2	Lease:	Newhall
Section:	11	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

North
1 - 2 Miles — **OIL_GAS** — **CA00008940**

Well Number:	D-1	Status:	Plugged and abandoned-dry hole
API Number:	03706108	Operator:	Texaco E & P Inc
Latitude:	34.444098	Longitude:	-118.630303
Region:	2	Lease:	Newhall
Section:	11	Township:	04N
Range:	17W	Map Number:	253
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

NNE
1 - 2 Miles — **OIL_GAS** — **CA00008941**

Well Number:	D-2	Status:	Plugged and abandoned-dry hole
API Number:	03706109	Operator:	Texaco E & P Inc
Latitude:	34.444058	Longitude:	-118.619976
Region:	2	Lease:	Newhall
Section:	12	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
2 - 3 Miles — **OIL_GAS** — **CA00009857**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705882	Operator:	Shell Western E. & P. Inc.
Latitude:	34.443227	Longitude:	-118.667094
Region:	2	Lease:	Daugherty
Section:	09	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1 - 2 Miles — **OIL_GAS** — **CA00008973**

Well Number:	1	Status:	Plugged and abandoned-dry hole-directional
API Number:	03706091	Operator:	Texaco E & P Inc
Latitude:	34.443164	Longitude:	-118.648605
Region:	2	Lease:	Malis
Section:	10	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ENE
2 - 3 Miles — **OIL_GAS** — **CA00008944**

Well Number:	F-1	Status:	Plugged and abandoned-dry hole
API Number:	03706111	Operator:	Texaco E & P Inc
Latitude:	34.440622	Longitude:	-118.601451
Region:	2	Lease:	Newhall
Section:	07	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 - 2 Miles — **OIL_GAS** — **CA00012519**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705621	Operator:	Marathon Oil Co
Latitude:	34.440369	Longitude:	-118.651382
Region:	2	Lease:	Mabel S. Henderson
Section:	10	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NE
1 - 2 Miles — **OIL_GAS** — **CA00013561**

Well Number:	B-1	Status:	Plugged and abandoned-dry hole
API Number:	03705490	Operator:	Exxon Corp
Latitude:	34.439071	Longitude:	-118.613720
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	12	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — **OIL_GAS** — **CA00008923**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706117	Operator:	Texaco E & P Inc
Latitude:	34.438953	Longitude:	-118.661520
Region:	2	Lease:	Seaboard-So Cal Pet. Daugherty
Section:	09	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — **OIL_GAS** — **CA00010509**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706664	Operator:	Rothschild Oil Company
Latitude:	34.438293	Longitude:	-118.660282
Region:	2	Lease:	Barbour
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00011095**

Well Number:	1-16	Status:	Plugged and abandoned-dry hole-directional
API Number:	03722947	Operator:	Pancandian Petroleum Co
Latitude:	34.437987	Longitude:	-118.659972
Region:	2	Lease:	N. L. & F.
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — **OIL_GAS** — **CA00014987**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706671	Operator:	Chevron USA, Inc.
Latitude:	34.437767	Longitude:	-118.657127
Region:	2	Lease:	Boobier
Section:	15	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
2 - 3 Miles — **OIL_GAS** — **CA00008784**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706631	Operator:	The British American Oil Prod
Latitude:	34.437578	Longitude:	-118.667330
Region:	2	Lease:	Kinler-So. Cal
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1/2 - 1 Mile — **OIL_GAS** — **CA00010300**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03722056	Operator:	Santa Fe Energy Resources
Latitude:	34.434360	Longitude:	-118.637827
Region:	2	Lease:	N. L. & F.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — **OIL_GAS** — **CA00010278**

Well Number:	16-1	Status:	Plugged and abandoned-dry hole
API Number:	03706666	Operator:	Scope Industries
Latitude:	34.434221	Longitude:	-118.669889
Region:	2	Lease:	Kinler
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — **OIL_GAS** — **CA00016378**

Well Number:	1	Status:	Plugged and abandoned oil-directional
API Number:	03706629	Operator:	Amax Petroleum Corporation
Latitude:	34.434002	Longitude:	-118.666890
Region:	2	Lease:	Kinler
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NNW
1/2 - 1 Mile — **OIL_GAS** — **CA00013589**

Well Number:	55	Status:	Plugged and abandoned-dry hole
API Number:	03716518	Operator:	Exxon Corp
Latitude:	34.433828	Longitude:	-118.636435
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ENE
1 - 2 Miles — **OIL_GAS** — **CA00013576**

Well Number:	69	Status:	135
API Number:	03716528	Operator:	Exxon Corp
Latitude:	34.433372	Longitude:	-118.605058
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	18	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** — **CA00016403**

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03706626	Operator:	Amax Petroleum Corporation
Latitude:	34.433315	Longitude:	-118.665961
Region:	2	Lease:	Barbour
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
2 - 3 Miles — **OIL_GAS** — **CA00013452**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03721365	Operator:	G. R. Nance Co., Inc
Latitude:	34.433214	Longitude:	-118.672732
Region:	2	Lease:	Gallagher
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ENE
1 - 2 Miles — **OIL_GAS** — **CA00013538**

Well Number:	2	Status:	230
API Number:	03716535	Operator:	Exxon Corp
Latitude:	34.433129	Longitude:	-118.617295
Region:	2	Lease:	Newhall Land & Farming Co. 12
Section:	13	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles — **OIL_GAS** — **CA00016404**

Well Number:	2	Status:	Plugged and abandoned oil
API Number:	03706627	Operator:	Amax Petroleum Corporation
Latitude:	34.432941	Longitude:	-118.663301
Region:	2	Lease:	Barbour
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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** | **CA00016405**

Well Number:	3	Status:	Plugged and abandoned oil
API Number:	03706628	Operator:	Amax Petroleum Corporation
Latitude:	34.432538	Longitude:	-118.661569
Region:	2	Lease:	Barbour
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles | **OIL_GAS** | **CA00015495**

Well Number:	1-16	Status:	Plugged and abandoned-dry hole-directional
API Number:	03722707	Operator:	Black Hawk Resources Corp
Latitude:	34.432378	Longitude:	-118.663455
Region:	2	Lease:	N. L. & F.
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles | **OIL_GAS** | **CA00016379**

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03706630	Operator:	Amax Petroleum Corporation
Latitude:	34.432286	Longitude:	-118.667690
Region:	2	Lease:	Kinler
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

NE
1/2 - 1 Mile | **OIL_GAS** | **CA00013578**

Well Number:	70	Status:	Plugged and abandoned oil-directional
API Number:	03716529	Operator:	Exxon Corp
Latitude:	34.431838	Longitude:	-118.628361
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
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** | **CA00011714**

Well Number:	10	Status:	Completed oil
API Number:	03706728	Operator:	Nuevo Energy Company
Latitude:	34.430692	Longitude:	-118.663235
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles | **OIL_GAS** | **CA00014523**

Well Number:	5	Status:	Plugged and abandoned-dry hole
API Number:	03706681	Operator:	Chevron USA, Inc.
Latitude:	34.430390	Longitude:	-118.676467
Region:	2	Lease:	Sepulveda
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ENE
1 - 2 Miles | **OIL_GAS** | **CA00013556**

Well Number:	76	Status:	Plugged and abandoned oil-directional
API Number:	03716534	Operator:	Exxon Corp
Latitude:	34.430373	Longitude:	-118.608880
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	13	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WNW
1 - 2 Miles | **OIL_GAS** | **CA00014985**

Well Number:	5	Status:	Plugged and abandoned-dry hole
API Number:	03706668	Operator:	Chevron USA, Inc.
Latitude:	34.430357	Longitude:	-118.656865
Region:	2	Lease:	Blair
Section:	15	Township:	04N
Range:	17W	Map Number:	253
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

East
2 - 3 Miles — **OIL_GAS** — **CA00013553**

Well Number:	73	Status:	137
API Number:	03716531	Operator:	Exxon Corp
Latitude:	34.429852	Longitude:	-118.596595
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	18	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 - 1 Mile — **OIL_GAS** — **CA00013575**

Well Number:	68	Status:	Plugged and abandoned oil
API Number:	03716527	Operator:	Exxon Corp
Latitude:	34.429832	Longitude:	-118.624709
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — **OIL_GAS** — **CA00013573**

Well Number:	66	Status:	Plugged and abandoned oil
API Number:	03701977	Operator:	Exxon Corp
Latitude:	34.429748	Longitude:	-118.604609
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	18	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** — **CA00011698**

Well Number:	4	Status:	Completed oil
API Number:	03706722	Operator:	Nuevo Energy Company
Latitude:	34.429525	Longitude:	-118.660914
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles — **OIL_GAS** — **CA00012525**

Well Number:	20	Status:	Completed gas
API Number:	03722026	Operator:	Marathon Oil Co
Latitude:	34.429188	Longitude:	-118.676589
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — **OIL_GAS** — **CA00013580**

Well Number:	72	Status:	Plugged and abandoned oil
API Number:	03716530	Operator:	Exxon Corp
Latitude:	34.429084	Longitude:	-118.612185
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	13	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — **OIL_GAS** — **CA00011687**

Well Number:	13	Status:	Completed oil
API Number:	03706731	Operator:	Nuevo Energy Company
Latitude:	34.429017	Longitude:	-118.659861
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00011929**

Well Number:	3	Status:	Completed oil
API Number:	03706698	Operator:	Nuevo Energy Company
Latitude:	34.428991	Longitude:	-118.674486
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles — OIL_GAS — CA00011700

Well Number:	6	Status:	Completed oil
API Number:	03706724	Operator:	Nuevo Energy Company
Latitude:	34.428895	Longitude:	-118.665581
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — OIL_GAS — CA00011691

Well Number:	17	Status:	Completed oil
API Number:	03706735	Operator:	Nuevo Energy Company
Latitude:	34.428859	Longitude:	-118.661129
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00011906

Well Number:	9	Status:	Completed oil
API Number:	03706704	Operator:	Nuevo Energy Company
Latitude:	34.428846	Longitude:	-118.672105
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — OIL_GAS — CA00008178

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03706717	Operator:	Union Oil Company, Operator
Latitude:	34.428825	Longitude:	-118.656553
Region:	2	Lease:	Liebhart
Section:	15	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles — OIL_GAS — CA00012669

Well Number:	4-17	Status:	Completed oil
API Number:	03706643	Operator:	LBth Inc
Latitude:	34.428772	Longitude:	-118.678721
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — OIL_GAS — CA00011672

Well Number:	7	Status:	Completed oil
API Number:	03706725	Operator:	Nuevo Energy Company
Latitude:	34.428739	Longitude:	-118.659057
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — OIL_GAS — CA00012675

Well Number:	8-17	Status:	Completed oil
API Number:	03706647	Operator:	LBth Inc
Latitude:	34.428703	Longitude:	-118.676495
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — OIL_GAS — CA00013579

Well Number:	71	Status:	169
API Number:	03706299	Operator:	Exxon Corp
Latitude:	34.428699	Longitude:	-118.601974
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	18	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

ENE
1/2 - 1 Mile | **OIL_GAS** | **CA00013574**

Well Number:	67	Status:	Plugged and abandoned oil
API Number:	03716526	Operator:	Exxon Corp
Latitude:	34.428670	Longitude:	-118.620842
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	13	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles | **OIL_GAS** | **CA00011945**

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03706696	Operator:	Nuevo Energy Company
Latitude:	34.428605	Longitude:	-118.668116
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles | **OIL_GAS** | **CA00011713**

Well Number:	1	Status:	Completed oil
API Number:	03706719	Operator:	Nuevo Energy Company
Latitude:	34.428597	Longitude:	-118.663200
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles | **OIL_GAS** | **CA00011686**

Well Number:	12	Status:	Completed oil
API Number:	03706730	Operator:	Nuevo Energy Company
Latitude:	34.428564	Longitude:	-118.665148
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles | **OIL_GAS** | **CA00012691**

Well Number:	12-17	Status:	Completed oil
API Number:	03706651	Operator:	LBth Inc
Latitude:	34.428471	Longitude:	-118.677020
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles | **OIL_GAS** | **CA00011946**

Well Number:	10	Status:	Plugged and abandoned-dry hole
API Number:	03706705	Operator:	Nuevo Energy Company
Latitude:	34.428430	Longitude:	-118.674083
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles | **OIL_GAS** | **CA00011925**

Well Number:	19	Status:	Completed oil- directional
API Number:	03706714	Operator:	Nuevo Energy Company
Latitude:	34.428406	Longitude:	-118.673743
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles | **OIL_GAS** | **CA00011920**

Well Number:	14	Status:	Completed oil- directional
API Number:	03706709	Operator:	Nuevo Energy Company
Latitude:	34.428353	Longitude:	-118.674392
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles — **OIL_GAS** — **CA00011923**

Well Number:	17	Status:	Completed oil
API Number:	03706712	Operator:	Nuevo Energy Company
Latitude:	34.428316	Longitude:	-118.670310
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — **OIL_GAS** — **CA00008179**

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03706718	Operator:	Union Oil Company, Operator
Latitude:	34.428295	Longitude:	-118.654387
Region:	2	Lease:	Liebhart
Section:	15	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00011931**

Well Number:	5	Status:	Completed oil- directional
API Number:	03706700	Operator:	Nuevo Energy Company
Latitude:	34.428251	Longitude:	-118.674051
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00011947**

Well Number:	11	Status:	026
API Number:	03706706	Operator:	Nuevo Energy Company
Latitude:	34.428225	Longitude:	-118.674299
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles — **OIL_GAS** — **CA00011696**

Well Number:	21	Status:	Completed oil
API Number:	03706739	Operator:	Nuevo Energy Company
Latitude:	34.428035	Longitude:	-118.663044
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — **OIL_GAS** — **CA00011690**

Well Number:	16	Status:	Completed oil
API Number:	03706734	Operator:	Nuevo Energy Company
Latitude:	34.427951	Longitude:	-118.665115
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00011927**

Well Number:	20	Status:	Completed oil- directional
API Number:	03706715	Operator:	Nuevo Energy Company
Latitude:	34.427846	Longitude:	-118.673216
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — **OIL_GAS** — **CA00013572**

Well Number:	65	Status:	Plugged and abandoned oil-directional
API Number:	03716470	Operator:	Exxon Corp
Latitude:	34.427717	Longitude:	-118.615676
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	13	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles — **OIL_GAS** — **CA00011689**

Well Number:	15	Status:	Completed oil
API Number:	03706733	Operator:	Nuevo Energy Company
Latitude:	34.427627	Longitude:	-118.662672
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — **OIL_GAS** — **CA00011928**

Well Number:	21	Status:	Completed oil- directional
API Number:	03706716	Operator:	Nuevo Energy Company
Latitude:	34.427530	Longitude:	-118.668454
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00011924**

Well Number:	18	Status:	Completed oil
API Number:	03706713	Operator:	Nuevo Energy Company
Latitude:	34.427495	Longitude:	-118.671113
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — **OIL_GAS** — **CA00013570**

Well Number:	63	Status:	Plugged and abandoned oil-directional
API Number:	03700147	Operator:	Exxon Corp
Latitude:	34.427306	Longitude:	-118.609028
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	13	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles — **OIL_GAS** — **CA00012728**

Well Number:	7	Status:	Completed oil
API Number:	03706669	Operator:	LBth Inc
Latitude:	34.427187	Longitude:	-118.656951
Region:	2	Lease:	Blair
Section:	15	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — **OIL_GAS** — **CA00011692**

Well Number:	18	Status:	Completed oil
API Number:	03706736	Operator:	Nuevo Energy Company
Latitude:	34.427181	Longitude:	-118.658714
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00012694**

Well Number:	15-17	Status:	Completed gas
API Number:	03706654	Operator:	LBth Inc
Latitude:	34.427042	Longitude:	-118.676337
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — **OIL_GAS** — **CA00013571**

Well Number:	64	Status:	Plugged and abandoned oil
API Number:	03716525	Operator:	Exxon Corp
Latitude:	34.426960	Longitude:	-118.612985
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	13	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles | OIL_GAS | CA00011673

Well Number:	8	Status:	Completed oil
API Number:	03706726	Operator:	Nuevo Energy Company
Latitude:	34.426952	Longitude:	-118.665577
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles | OIL_GAS | CA00011930

Well Number:	4	Status:	Completed oil
API Number:	03706699	Operator:	Nuevo Energy Company
Latitude:	34.426911	Longitude:	-118.670122
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles | OIL_GAS | CA00012671

Well Number:	5-17	Status:	Plugged and abandoned oil
API Number:	03706644	Operator:	LBth Inc
Latitude:	34.426888	Longitude:	-118.676553
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ENE
1/4 - 1/2 Mile | OIL_GAS | CA00013560

Well Number:	9	Status:	Plugged and abandoned-dry hole
API Number:	03716480	Operator:	Exxon Corp
Latitude:	34.426825	Longitude:	-118.629340
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
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

East
1 - 2 Miles | OIL_GAS | CA00013567

Well Number:	60	Status:	Plugged and abandoned oil
API Number:	03705101	Operator:	Exxon Corp
Latitude:	34.426786	Longitude:	-118.600438
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	18	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 | CA00011688

Well Number:	14	Status:	Completed oil
API Number:	03706732	Operator:	Nuevo Energy Company
Latitude:	34.426776	Longitude:	-118.664989
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles | OIL_GAS | CA00011699

Well Number:	5	Status:	Completed oil
API Number:	03706723	Operator:	Nuevo Energy Company
Latitude:	34.426782	Longitude:	-118.663227
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles | OIL_GAS | CA00011694

Well Number:	2	Status:	Completed oil
API Number:	03706720	Operator:	Nuevo Energy Company
Latitude:	34.426764	Longitude:	-118.661155
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles — **OIL_GAS** — **CA00011926**

Well Number:	2	Status:	036
API Number:	03706697	Operator:	Nuevo Energy Company
Latitude:	34.426740	Longitude:	-118.667741
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00012698**

Well Number:	19-17	Status:	Completed oil
API Number:	03706658	Operator:	LBth Inc
Latitude:	34.426701	Longitude:	-118.678872
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — **OIL_GAS** — **CA00012727**

Well Number:	27	Status:	Completed oil
API Number:	03706670	Operator:	LBth Inc
Latitude:	34.426609	Longitude:	-118.654353
Region:	2	Lease:	Blair
Section:	15	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — **OIL_GAS** — **CA00011715**

Well Number:	11	Status:	Completed oil
API Number:	03706729	Operator:	Nuevo Energy Company
Latitude:	34.426508	Longitude:	-118.661309
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

East
1/4 - 1/2 Mile — **OIL_GAS** — **CA00013557**

Well Number:	77	Status:	Plugged and abandoned-dry hole-directional
API Number:	03722047	Operator:	Exxon Corp
Latitude:	34.426314	Longitude:	-118.629247
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00011949**

Well Number:	13	Status:	Completed oil
API Number:	03706708	Operator:	Nuevo Energy Company
Latitude:	34.426170	Longitude:	-118.670028
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
2 - 3 Miles — **OIL_GAS** — **CA00013568**

Well Number:	61	Status:	Plugged and abandoned oil-directional
API Number:	03716523	Operator:	Exxon Corp
Latitude:	34.425995	Longitude:	-118.595433
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	18	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** — **CA00011693**

Well Number:	19	Status:	Completed oil
API Number:	03706737	Operator:	Nuevo Energy Company
Latitude:	34.425971	Longitude:	-118.661185
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles | OIL_GAS | CA00011933

Well Number:	7	Status:	Completed oil- directional
API Number:	03706702	Operator:	Nuevo Energy Company
Latitude:	34.425940	Longitude:	-118.669904
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles | OIL_GAS | CA00011921

Well Number:	15	Status:	Completed oil- directional
API Number:	03706710	Operator:	Nuevo Energy Company
Latitude:	34.425719	Longitude:	-118.674696
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles | OIL_GAS | CA00013593

Well Number:	59	Status:	Plugged and abandoned oil
API Number:	03716522	Operator:	Exxon Corp
Latitude:	34.425718	Longitude:	-118.603938
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	18	Township:	04N
Range:	16W	Map Number:	252
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1/2 - 1 Mile | OIL_GAS | CA00013592

Well Number:	58	Status:	Plugged and abandoned oil-directional
API Number:	03716521	Operator:	Exxon Corp
Latitude:	34.425693	Longitude:	-118.617125
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	13	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles | OIL_GAS | CA00011932

Well Number:	6	Status:	Completed oil
API Number:	03706701	Operator:	Nuevo Energy Company
Latitude:	34.425592	Longitude:	-118.674510
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles | OIL_GAS | CA00012676

Well Number:	9-17	Status:	Completed oil
API Number:	03706648	Operator:	LBth Inc
Latitude:	34.425577	Longitude:	-118.678622
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles | OIL_GAS | CA00011695

Well Number:	20	Status:	Completed oil
API Number:	03706738	Operator:	Nuevo Energy Company
Latitude:	34.425524	Longitude:	-118.664770
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles | OIL_GAS | CA00012692

Well Number:	13-17	Status:	Completed oil- directional
API Number:	03706652	Operator:	LBth Inc
Latitude:	34.425457	Longitude:	-118.676674
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles | **OIL_GAS** | **CA00011934**

Well Number:	8	Status:	036
API Number:	03706703	Operator:	Nuevo Energy Company
Latitude:	34.425331	Longitude:	-118.668913
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles | **OIL_GAS** | **CA00012693**

Well Number:	14-17	Status:	Plugged and abandoned oil
API Number:	03706653	Operator:	LBth Inc
Latitude:	34.425278	Longitude:	-118.676673
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1/4 - 1/2 Mile | **OIL_GAS** | **CA00013584**

Well Number:	50	Status:	Plugged and abandoned oil
API Number:	03716515	Operator:	Exxon Corp
Latitude:	34.425228	Longitude:	-118.640066
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1/2 - 1 Mile | **OIL_GAS** | **CA00008933**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706695	Operator:	Texaco E & P Inc
Latitude:	34.425057	Longitude:	-118.645105
Region:	2	Lease:	Newhall
Section:	15	Township:	04N
Range:	17W	Map Number:	253
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

West
1/2 - 1 Mile | **OIL_GAS** | **CA00013672**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706638	Operator:	Exxon Corp
Latitude:	34.424987	Longitude:	-118.650578
Region:	2	Lease:	Castaic Junction Gas Unit #1
Section:	15	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles | **OIL_GAS** | **CA00011948**

Well Number:	12	Status:	Completed oil
API Number:	03706707	Operator:	Nuevo Energy Company
Latitude:	34.424829	Longitude:	-118.673426
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles | **OIL_GAS** | **CA00011674**

Well Number:	9	Status:	Plugged and abandoned oil
API Number:	03706727	Operator:	Nuevo Energy Company
Latitude:	34.424807	Longitude:	-118.665325
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
0 - 1/8 Mile | **OIL_GAS** | **CA00013634**

Well Number:	2	Status:	Plugged and abandoned oil-directional
API Number:	03716473	Operator:	Exxon Corp
Latitude:	34.424787	Longitude:	-118.634809
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	14	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles — **OIL_GAS** — **CA00011697**

Well Number:	3	Status:	Plugged and abandoned-dry hole
API Number:	03706721	Operator:	Nuevo Energy Company
Latitude:	34.424703	Longitude:	-118.658585
Region:	2	Lease:	Lincoln
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00012695**

Well Number:	16-17	Status:	Completed oil
API Number:	03706655	Operator:	LBth Inc
Latitude:	34.424691	Longitude:	-118.676394
Region:	2	Lease:	Vasquez
Section:	17	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00011922**

Well Number:	16	Status:	Oil well converted to water disposal
API Number:	03706711	Operator:	Nuevo Energy Company
Latitude:	34.424482	Longitude:	-118.670519
Region:	2	Lease:	Barnes
Section:	16	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
1 - 2 Miles — **OIL_GAS** — **CA00012672**

Well Number:	6	Status:	Completed oil
API Number:	03706694	Operator:	LBth Inc
Latitude:	34.423361	Longitude:	-118.668513
Region:	2	Lease:	Vasquez
Section:	21	Township:	04N
Range:	17W	Map Number:	253
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

West
1 - 2 Miles — **OIL_GAS** — **CA00013236**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706634	Operator:	Havenstrite Oil Co
Latitude:	34.423300	Longitude:	-118.658934
Region:	2	Lease:	Vasquez
Section:	21	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00012700**

Well Number:	3	Status:	Completed oil
API Number:	03706691	Operator:	LBth Inc
Latitude:	34.423283	Longitude:	-118.671345
Region:	2	Lease:	Vasquez
Section:	21	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00008995**

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03706633	Operator:	Texaco E & P Inc
Latitude:	34.423259	Longitude:	-118.676515
Region:	2	Lease:	Encinas Fee
Section:	20	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00014377**

Well Number:	4	Status:	Plugged and abandoned oil-directional
API Number:	03706692	Operator:	Chevron USA, Inc.
Latitude:	34.423186	Longitude:	-118.671558
Region:	2	Lease:	Vasquez
Section:	21	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles — **OIL_GAS** — **CA00012699**

Well Number:	2-17	Status:	Completed oil
API Number:	03706690	Operator:	LBth Inc
Latitude:	34.422999	Longitude:	-118.673648
Region:	2	Lease:	Vasquez
Section:	21	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — **OIL_GAS** — **CA00013621**

Well Number:	33	Status:	Plugged and abandoned oil
API Number:	03716503	Operator:	Exxon Corp
Latitude:	34.422943	Longitude:	-118.612414
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00012670**

Well Number:	5	Status:	Completed oil- directional
API Number:	03706693	Operator:	LBth Inc
Latitude:	34.422886	Longitude:	-118.673919
Region:	2	Lease:	Vasquez
Section:	21	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — **OIL_GAS** — **CA00013599**

Well Number:	39	Status:	136
API Number:	03706409	Operator:	Exxon Corp
Latitude:	34.422889	Longitude:	-118.614261
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
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

East
1 - 2 Miles — **OIL_GAS** — **CA00013630**

Well Number:	16	Status:	Plugged and abandoned oil
API Number:	03716487	Operator:	Exxon Corp
Latitude:	34.422344	Longitude:	-118.608066
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — **OIL_GAS** — **CA00013601**

Well Number:	40	Status:	Plugged and abandoned oil
API Number:	03716507	Operator:	Exxon Corp
Latitude:	34.422263	Longitude:	-118.609969
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — **OIL_GAS** — **CA00013622**

Well Number:	34	Status:	Plugged and abandoned oil
API Number:	03716504	Operator:	Exxon Corp
Latitude:	34.422208	Longitude:	-118.604877
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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 - 1 Mile — **OIL_GAS** — **CA00013623**

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03716472	Operator:	Exxon Corp
Latitude:	34.422040	Longitude:	-118.625317
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00013626**

Well Number:	12	Status:	Plugged and abandoned oil
API Number:	03716483	Operator:	Exxon Corp
Latitude:	34.421679	Longitude:	-118.617297
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00014213**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706632	Operator:	Conoco Inc
Latitude:	34.421566	Longitude:	-118.678243
Region:	2	Lease:	Newhall
Section:	20	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
2 - 3 Miles — **OIL_GAS** — **CA00014751**

Well Number:	6	Status:	Plugged and abandoned-dry hole
API Number:	03716536	Operator:	Chevron USA, Inc.
Latitude:	34.420819	Longitude:	-118.596350
Region:	2	Lease:	Newhall Land & Farming
Section:	19	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
2 - 3 Miles — **OIL_GAS** — **CA00008706**

Well Number:	2	Status:	Plugged and abandoned oil
API Number:	03706663	Operator:	The Newhall Land & Farming Co
Latitude:	34.420664	Longitude:	-118.671385
Region:	2	Lease:	Socal
Section:	21	Township:	04N
Range:	17W	Map Number:	253
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
1/4 - 1/2 Mile — **OIL_GAS** — **CA00013606**

Well Number:	45	Status:	Plugged and abandoned-dry hole
API Number:	03716511	Operator:	Exxon Corp
Latitude:	34.420650	Longitude:	-118.634767
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00008705**

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03706662	Operator:	The Newhall Land & Farming Co
Latitude:	34.420525	Longitude:	-118.673550
Region:	2	Lease:	Socal
Section:	21	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — **OIL_GAS** — **CA00013614**

Well Number:	27	Status:	Plugged and abandoned oil
API Number:	03716498	Operator:	Exxon Corp
Latitude:	34.420239	Longitude:	-118.614736
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

East
1 - 2 Miles — **OIL_GAS** — **CA00013616**

Well Number:	29	Status:	136
API Number:	03706300	Operator:	Exxon Corp
Latitude:	34.420225	Longitude:	-118.600935
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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** — **CA00013631**

Well Number:	17	Status:	Plugged and abandoned oil
API Number:	03716488	Operator:	Exxon Corp
Latitude:	34.420220	Longitude:	-118.606611
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1/4 - 1/2 Mile — **OIL_GAS** — **CA00013588**

Well Number:	54	Status:	Plugged and abandoned-dry hole-directional
API Number:	03716517	Operator:	Exxon Corp
Latitude:	34.420122	Longitude:	-118.638090
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — **OIL_GAS** — **CA00013628**

Well Number:	14	Status:	Plugged and abandoned oil
API Number:	03716485	Operator:	Exxon Corp
Latitude:	34.419900	Longitude:	-118.612093
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

West
2 - 3 Miles — **OIL_GAS** — **CA00012701**

Well Number:	12-20	Status:	Completed oil- directional
API Number:	03722746	Operator:	LBth Inc
Latitude:	34.419879	Longitude:	-118.678301
Region:	2	Lease:	N. L. & F.
Section:	20	Township:	04N
Range:	17W	Map Number:	253
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

West
2 - 3 Miles — **OIL_GAS** — **CA00012702**

Well Number:	14-20	Status:	Completed oil
API Number:	03729957	Operator:	LBth Inc
Latitude:	34.419675	Longitude:	-118.678146
Region:	2	Lease:	N. L. & F.
Section:	20	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1/2 - 1 Mile — **OIL_GAS** — **CA00013594**

Well Number:	6	Status:	Plugged and abandoned oil
API Number:	03716477	Operator:	Exxon Corp
Latitude:	34.419343	Longitude:	-118.618768
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — **OIL_GAS** — **CA00013635**

Well Number:	20	Status:	Plugged and abandoned oil
API Number:	03716491	Operator:	Exxon Corp
Latitude:	34.419305	Longitude:	-118.603759
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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** — **CA00013620**

Well Number:	32	Status:	Plugged and abandoned oil
API Number:	03716502	Operator:	Exxon Corp
Latitude:	34.419300	Longitude:	-118.608938
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — OIL_GAS — CA00013595

Well Number:	35	Status:	Plugged and abandoned oil
API Number:	03716505	Operator:	Exxon Corp
Latitude:	34.419067	Longitude:	-118.598330
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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 - 1 Mile — OIL_GAS — CA00013624

Well Number:	10	Status:	Plugged and abandoned oil
API Number:	03716481	Operator:	Exxon Corp
Latitude:	34.418972	Longitude:	-118.622942
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013612

Well Number:	25	Status:	136
API Number:	03716496	Operator:	Exxon Corp
Latitude:	34.418950	Longitude:	-118.618369
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013559

Well Number:	8	Status:	Plugged and abandoned oil
API Number:	03716479	Operator:	Exxon Corp
Latitude:	34.418401	Longitude:	-118.616208
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
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

WSW
2 - 3 Miles — OIL_GAS — CA00007251

Well Number:	8-20	Status:	Completed oil
API Number:	03722323	Operator:	Vintage Petroleum Inc
Latitude:	34.418247	Longitude:	-118.677247
Region:	2	Lease:	N. L. & F.
Section:	20	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WSW
2 - 3 Miles — OIL_GAS — CA00007269

Well Number:	11-20	Status:	Completed oil- directional
API Number:	03722738	Operator:	Vintage Petroleum Inc
Latitude:	34.418095	Longitude:	-118.676968
Region:	2	Lease:	N. L. & F.
Section:	20	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1/2 - 1 Mile — OIL_GAS — CA00013590

Well Number:	56	Status:	Plugged and abandoned oil-directional
API Number:	03716519	Operator:	Exxon Corp
Latitude:	34.418097	Longitude:	-118.625511
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WSW
2 - 3 Miles — OIL_GAS — CA00007247

Well Number:	4-20	Status:	Drilling-idle
API Number:	03722308	Operator:	Vintage Petroleum Inc
Latitude:	34.418068	Longitude:	-118.677339
Region:	2	Lease:	N. L. & F.
Section:	20	Township:	04N
Range:	17W	Map Number:	253
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 — CA00013627

Well Number:	13	Status:	Plugged and abandoned oil
API Number:	03716484	Operator:	Exxon Corp
Latitude:	34.418069	Longitude:	-118.607116
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1/2 - 1 Mile — OIL_GAS — CA00013607

Well Number:	46	Status:	Plugged and abandoned oil
API Number:	03716512	Operator:	Exxon Corp
Latitude:	34.417857	Longitude:	-118.625595
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1/2 - 1 Mile — OIL_GAS — CA00013603

Well Number:	42	Status:	Plugged and abandoned gas
API Number:	03716509	Operator:	Exxon Corp
Latitude:	34.417819	Longitude:	-118.621121
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013617

Well Number:	3	Status:	Plugged and abandoned oil
API Number:	03716474	Operator:	Exxon Corp
Latitude:	34.417690	Longitude:	-118.619161
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
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 — CA00013636

Well Number:	21	Status:	Plugged and abandoned oil
API Number:	03716492	Operator:	Exxon Corp
Latitude:	34.417500	Longitude:	-118.602317
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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 - 1 Mile — OIL_GAS — CA00013586

Well Number:	52	Status:	137
API Number:	03716516	Operator:	Exxon Corp
Latitude:	34.417322	Longitude:	-118.627121
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013629

Well Number:	15	Status:	Plugged and abandoned oil
API Number:	03716486	Operator:	Exxon Corp
Latitude:	34.417226	Longitude:	-118.610494
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1/2 - 1 Mile — OIL_GAS — CA00013591

Well Number:	57	Status:	Plugged and abandoned-dry hole-directional
API Number:	03716520	Operator:	Exxon Corp
Latitude:	34.417166	Longitude:	-118.629478
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
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 — CA00013613

Well Number:	26	Status:	Plugged and abandoned oil
API Number:	03716497	Operator:	Exxon Corp
Latitude:	34.416961	Longitude:	-118.613448
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013600

Well Number:	4	Status:	Plugged and abandoned oil
API Number:	03716475	Operator:	Exxon Corp
Latitude:	34.416748	Longitude:	-118.604866
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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
2 - 3 Miles — OIL_GAS — CA00013596

Well Number:	36	Status:	Plugged and abandoned oil
API Number:	03706353	Operator:	Exxon Corp
Latitude:	34.416730	Longitude:	-118.594291
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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
2 - 3 Miles — OIL_GAS — CA00013619

Well Number:	31	Status:	Plugged and abandoned oil-directional
API Number:	03716501	Operator:	Exxon Corp
Latitude:	34.416720	Longitude:	-118.598237
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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 — CA00013577

Well Number:	7	Status:	Plugged and abandoned oil
API Number:	03716478	Operator:	Exxon Corp
Latitude:	34.416152	Longitude:	-118.608730
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — OIL_GAS — CA00010738

Well Number:	1	Status:	Plugged and abandoned-dry hole-directional
API Number:	03722352	Operator:	Quintana Petroleum Corp
Latitude:	34.414731	Longitude:	-118.646321
Region:	2	Lease:	NL&F-Trifield
Section:	22	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013583

Well Number:	5	Status:	Plugged and abandoned oil
API Number:	03716476	Operator:	Exxon Corp
Latitude:	34.414706	Longitude:	-118.612305
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013633

Well Number:	19	Status:	Plugged and abandoned oil
API Number:	03716490	Operator:	Exxon Corp
Latitude:	34.414621	Longitude:	-118.603049
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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

SE
1 - 2 Miles — OIL_GAS — CA00013632

Well Number:	18	Status:	Plugged and abandoned oil
API Number:	03716489	Operator:	Exxon Corp
Latitude:	34.414409	Longitude:	-118.620771
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

WSW
2 - 3 Miles — OIL_GAS — CA00010733

Well Number:	1-21	Status:	Plugged and abandoned oil-directional
API Number:	03722347	Operator:	Quintana Petroleum Corp
Latitude:	34.414386	Longitude:	-118.675377
Region:	2	Lease:	N. L. & F.
Section:	21	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles — OIL_GAS — CA00013610

Well Number:	23	Status:	Plugged and abandoned oil
API Number:	03716494	Operator:	Exxon Corp
Latitude:	34.414335	Longitude:	-118.616708
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — OIL_GAS — CA00013611

Well Number:	24	Status:	Plugged and abandoned oil
API Number:	03716495	Operator:	Exxon Corp
Latitude:	34.413945	Longitude:	-118.605969
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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
2 - 3 Miles — OIL_GAS — CA00013615

Well Number:	28	Status:	Plugged and abandoned oil
API Number:	03716499	Operator:	Exxon Corp
Latitude:	34.413946	Longitude:	-118.600944
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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 — CA00013646

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03706359	Operator:	Exxon Corp
Latitude:	34.413921	Longitude:	-118.609888
Region:	2	Lease:	Newhall Corporation
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles — OIL_GAS — CA00013625

Well Number:	11	Status:	Plugged and abandoned oil
API Number:	03716482	Operator:	Exxon Corp
Latitude:	34.413576	Longitude:	-118.613921
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles — OIL_GAS — CA00013558

Well Number:	78	Status:	Plugged and abandoned-dry hole
API Number:	03722728	Operator:	Exxon Corp
Latitude:	34.413208	Longitude:	-118.623247
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	23	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — **OIL_GAS** — **CA00013618**

Well Number:	30	Status:	Plugged and abandoned oil
API Number:	03716500	Operator:	Exxon Corp
Latitude:	34.413191	Longitude:	-118.598683
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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
2 - 3 Miles — **OIL_GAS** — **CA00013597**

Well Number:	37	Status:	Plugged and abandoned oil
API Number:	03713506	Operator:	Exxon Corp
Latitude:	34.413175	Longitude:	-118.596309
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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** — **CA00013587**

Well Number:	53	Status:	136
API Number:	03706358	Operator:	Exxon Corp
Latitude:	34.413070	Longitude:	-118.622358
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles — **OIL_GAS** — **CA00013609**

Well Number:	22	Status:	136
API Number:	03716493	Operator:	Exxon Corp
Latitude:	34.412628	Longitude:	-118.617868
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	24	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00013602**

Well Number:	41	Status:	Plugged and abandoned oil
API Number:	03716508	Operator:	Exxon Corp
Latitude:	34.412374	Longitude:	-118.603543
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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** — **CA00013647**

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03716471	Operator:	Exxon Corp
Latitude:	34.412161	Longitude:	-118.612355
Region:	2	Lease:	Newhall Corporation
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
1 - 2 Miles — **OIL_GAS** — **CA00013648**

Well Number:	3	Status:	Plugged and abandoned oil
API Number:	03706298	Operator:	Exxon Corp
Latitude:	34.411406	Longitude:	-118.606614
Region:	2	Lease:	Newhall Corporation
Section:	24	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011180**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03712619	Operator:	Oryx Energy Co.
Latitude:	34.411341	Longitude:	-118.641297
Region:	2	Lease:	Newhall Land and Farming
Section:	22	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — **OIL_GAS** — **CA00013581**

Well Number:	48	Status:	Plugged and abandoned oil
API Number:	03716513	Operator:	Exxon Corp
Latitude:	34.411173	Longitude:	-118.598564
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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** — **CA00008951**

Well Number:	2	Status:	Plugged and abandoned-dry hole
API Number:	03712659	Operator:	Texaco E & P Inc
Latitude:	34.410582	Longitude:	-118.664094
Region:	2	Lease:	N. L. & F.
Section:	21	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

ESE
2 - 3 Miles — **OIL_GAS** — **CA00013582**

Well Number:	49	Status:	Plugged and abandoned oil
API Number:	03716514	Operator:	Exxon Corp
Latitude:	34.410224	Longitude:	-118.599815
Region:	2	Lease:	Newhall Land & Farming Co.
Section:	19	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** — **CA00008950**

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03712658	Operator:	Texaco E & P Inc
Latitude:	34.409984	Longitude:	-118.662582
Region:	2	Lease:	N. L. & F.
Section:	21	Township:	04N
Range:	17W	Map Number:	253
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

SW
1 - 2 Miles — **OIL_GAS** — **CA00008934**

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03712660	Operator:	Texaco E & P Inc
Latitude:	34.409727	Longitude:	-118.656815
Region:	2	Lease:	Newhall
Section:	22	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012400**

Well Number:	152	Status:	Plugged and abandoned oil
API Number:	03712654	Operator:	Medallion Calif Prpts Co
Latitude:	34.408044	Longitude:	-118.638431
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012416**

Well Number:	142	Status:	136
API Number:	03712895	Operator:	Medallion Calif Prpts Co
Latitude:	34.407981	Longitude:	-118.644284
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — **OIL_GAS** — **CA00011167**

Well Number:	134	Status:	136
API Number:	03712888	Operator:	Oryx Energy Co.
Latitude:	34.407966	Longitude:	-118.653138
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00012393**

Well Number:	145	Status:	136
API Number:	03712898	Operator:	Medallion Calif Prpts Co
Latitude:	34.407775	Longitude:	-118.643927
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — **OIL_GAS** — **CA00011135**

Well Number:	62	Status:	Plugged and abandoned oil
API Number:	03712875	Operator:	Oryx Energy Co.
Latitude:	34.407770	Longitude:	-118.657084
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — **OIL_GAS** — **CA00011160**

Well Number:	104	Status:	136
API Number:	03713283	Operator:	Oryx Energy Co.
Latitude:	34.407720	Longitude:	-118.658997
Region:	2	Lease:	Rancho San Francisco
Section:	28	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011168**

Well Number:	135	Status:	Plugged and abandoned oil
API Number:	03712889	Operator:	Oryx Energy Co.
Latitude:	34.407666	Longitude:	-118.640469
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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

SW
1 - 2 Miles — **OIL_GAS** — **CA00011144**

Well Number:	86	Status:	Plugged and abandoned oil
API Number:	03713265	Operator:	Oryx Energy Co.
Latitude:	34.407367	Longitude:	-118.654801
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — **OIL_GAS** — **CA00012359**

Well Number:	66	Status:	036
API Number:	03710663	Operator:	Medallion Calif Prpts Co
Latitude:	34.407327	Longitude:	-118.650194
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — **OIL_GAS** — **CA00012370**

Well Number:	41	Status:	Plugged and abandoned oil
API Number:	03712855	Operator:	Medallion Calif Prpts Co
Latitude:	34.407234	Longitude:	-118.652701
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012396**

Well Number:	148	Status:	Completed oil
API Number:	03710658	Operator:	Medallion Calif Prpts Co
Latitude:	34.407216	Longitude:	-118.631878
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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** | **CA00012402**

Well Number:	154	Status:	Completed oil
API Number:	03712656	Operator:	Medallion Calif Prpts Co
Latitude:	34.406719	Longitude:	-118.641473
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | **OIL_GAS** | **CA00012418**

Well Number:	144	Status:	036
API Number:	03712897	Operator:	Medallion Calif Prpts Co
Latitude:	34.406710	Longitude:	-118.636999
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles | **OIL_GAS** | **CA00012431**

Well Number:	127	Status:	Completed oil
API Number:	03712881	Operator:	Medallion Calif Prpts Co
Latitude:	34.406675	Longitude:	-118.646809
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles | **OIL_GAS** | **CA00011122**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03706028	Operator:	Oryx Energy Co.
Latitude:	34.406603	Longitude:	-118.608929
Region:	2	Lease:	Sunray-McCulloch NCS
Section:	25	Township:	04N
Range:	17W	Map Number:	253
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

SW
1 - 2 Miles | **OIL_GAS** | **CA00012442**

Well Number:	111	Status:	Completed oil
API Number:	03713290	Operator:	Medallion Calif Prpts Co
Latitude:	34.406594	Longitude:	-118.653065
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles | **OIL_GAS** | **CA00012421**

Well Number:	116	Status:	Completed oil
API Number:	03713295	Operator:	Medallion Calif Prpts Co
Latitude:	34.406485	Longitude:	-118.652590
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles | **OIL_GAS** | **CA00012394**

Well Number:	146	Status:	Completed oil
API Number:	03712899	Operator:	Medallion Calif Prpts Co
Latitude:	34.406463	Longitude:	-118.650544
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1 - 2 Miles | **OIL_GAS** | **CA00011172**

Well Number:	155	Status:	Plugged and abandoned oil
API Number:	03712657	Operator:	Oryx Energy Co.
Latitude:	34.406209	Longitude:	-118.626209
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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

SW
1 - 2 Miles — **OIL_GAS** — **CA00012439**

Well Number:	107	Status:	Completed oil
API Number:	03713286	Operator:	Medallion Calif Prpts Co
Latitude:	34.406113	Longitude:	-118.650383
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — **OIL_GAS** — **CA00011158**

Well Number:	56	Status:	Plugged and abandoned oil
API Number:	03712868	Operator:	Oryx Energy Co.
Latitude:	34.406045	Longitude:	-118.654267
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012415**

Well Number:	141	Status:	Completed oil
API Number:	03712894	Operator:	Medallion Calif Prpts Co
Latitude:	34.405879	Longitude:	-118.634270
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011162**

Well Number:	110	Status:	Plugged and abandoned oil
API Number:	03713289	Operator:	Oryx Energy Co.
Latitude:	34.405769	Longitude:	-118.649093
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00012428**

Well Number:	124	Status:	Completed oil
API Number:	03712878	Operator:	Medallion Calif Prpts Co
Latitude:	34.405729	Longitude:	-118.644447
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012429**

Well Number:	125	Status:	Completed oil
API Number:	03712879	Operator:	Medallion Calif Prpts Co
Latitude:	34.405673	Longitude:	-118.636915
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
1 - 2 Miles — **OIL_GAS** — **CA00012389**

Well Number:	27	Status:	Plugged and abandoned oil
API Number:	03712645	Operator:	Medallion Calif Prpts Co
Latitude:	34.405593	Longitude:	-118.652138
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012391**

Well Number:	29	Status:	Completed oil
API Number:	03712647	Operator:	Medallion Calif Prpts Co
Latitude:	34.405587	Longitude:	-118.650284
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00012373**

Well Number:	45	Status:	Completed oil
API Number:	03712858	Operator:	Medallion Calif Prpts Co
Latitude:	34.405456	Longitude:	-118.647783
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012374**

Well Number:	47	Status:	036
API Number:	03712860	Operator:	Medallion Calif Prpts Co
Latitude:	34.405450	Longitude:	-118.645909
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1 - 2 Miles — **OIL_GAS** — **CA00012395**

Well Number:	147	Status:	036
API Number:	03712900	Operator:	Medallion Calif Prpts Co
Latitude:	34.405297	Longitude:	-118.629468
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012423**

Well Number:	119	Status:	Completed oil
API Number:	03713297	Operator:	Medallion Calif Prpts Co
Latitude:	34.405276	Longitude:	-118.639661
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00012419**

Well Number:	114	Status:	Completed oil
API Number:	03713293	Operator:	Medallion Calif Prpts Co
Latitude:	34.405266	Longitude:	-118.647463
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012412**

Well Number:	137	Status:	Completed oil
API Number:	03712890	Operator:	Medallion Calif Prpts Co
Latitude:	34.404787	Longitude:	-118.647592
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SE
1 - 2 Miles — **OIL_GAS** — **CA00012462**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03705637	Operator:	Mcor Oil and Gas Corporation
Latitude:	34.404634	Longitude:	-118.610344
Region:	2	Lease:	McCulloch NC
Section:	25	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011169**

Well Number:	138	Status:	Plugged and abandoned oil
API Number:	03712891	Operator:	Oryx Energy Co.
Latitude:	34.404547	Longitude:	-118.641614
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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

SW
1 - 2 Miles — **OIL_GAS** — **CA00011164**

Well Number:	121	Status:	Plugged and abandoned oil
API Number:	03700071	Operator:	Oryx Energy Co.
Latitude:	34.404364	Longitude:	-118.652213
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012411**

Well Number:	136	Status:	Idle oil
API Number:	03706405	Operator:	Medallion Calif Prpts Co
Latitude:	34.404333	Longitude:	-118.648944
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012385**

Well Number:	23	Status:	Idle oil
API Number:	03712642	Operator:	Medallion Calif Prpts Co
Latitude:	34.404289	Longitude:	-118.648162
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012426**

Well Number:	122	Status:	Completed oil
API Number:	03713299	Operator:	Medallion Calif Prpts Co
Latitude:	34.404277	Longitude:	-118.635216
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00012436**

Well Number:	102	Status:	Completed oil
API Number:	03713282	Operator:	Medallion Calif Prpts Co
Latitude:	34.404219	Longitude:	-118.646290
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011132**

Well Number:	59	Status:	136
API Number:	03712871	Operator:	Oryx Energy Co.
Latitude:	34.403982	Longitude:	-118.639738
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012410**

Well Number:	132	Status:	108
API Number:	03712886	Operator:	Medallion Calif Prpts Co
Latitude:	34.403961	Longitude:	-118.631592
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012390**

Well Number:	28	Status:	Completed oil
API Number:	03712646	Operator:	Medallion Calif Prpts Co
Latitude:	34.403889	Longitude:	-118.645343
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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

SW
1 - 2 Miles — **OIL_GAS** — **CA00011136**

Well Number:	63	Status:	Plugged and abandoned oil
API Number:	03712876	Operator:	Oryx Energy Co.
Latitude:	34.403850	Longitude:	-118.652649
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012443**

Well Number:	112	Status:	036
API Number:	03713291	Operator:	Medallion Calif Prpts Co
Latitude:	34.403810	Longitude:	-118.642229
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011155**

Well Number:	48	Status:	136
API Number:	03712861	Operator:	Oryx Energy Co.
Latitude:	34.403796	Longitude:	-118.641751
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012387**

Well Number:	25	Status:	108
API Number:	03712644	Operator:	Medallion Calif Prpts Co
Latitude:	34.403766	Longitude:	-118.650434
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00012440**

Well Number:	108	Status:	Completed oil
API Number:	03713287	Operator:	Medallion Calif Prpts Co
Latitude:	34.403720	Longitude:	-118.641008
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011154**

Well Number:	46	Status:	Plugged and abandoned oil
API Number:	03712859	Operator:	Oryx Energy Co.
Latitude:	34.403691	Longitude:	-118.643456
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012355**

Well Number:	58	Status:	Completed oil
API Number:	03712870	Operator:	Medallion Calif Prpts Co
Latitude:	34.403614	Longitude:	-118.643000
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011138**

Well Number:	75	Status:	Plugged and abandoned oil
API Number:	03713254	Operator:	Oryx Energy Co.
Latitude:	34.403439	Longitude:	-118.639869
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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** | **CA00011165**

Well Number:	131	Status:	Plugged and abandoned oil
API Number:	03712885	Operator:	Oryx Energy Co.
Latitude:	34.403208	Longitude:	-118.644255
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | **OIL_GAS** | **CA00012332**

Well Number:	97	Status:	036
API Number:	03713277	Operator:	Medallion Calif Prpts Co
Latitude:	34.403133	Longitude:	-118.637277
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1 - 2 Miles | **OIL_GAS** | **CA00012417**

Well Number:	143	Status:	Completed oil
API Number:	03712896	Operator:	Medallion Calif Prpts Co
Latitude:	34.402996	Longitude:	-118.626936
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles | **OIL_GAS** | **CA00012444**

Well Number:	113	Status:	108
API Number:	03713292	Operator:	Medallion Calif Prpts Co
Latitude:	34.402974	Longitude:	-118.645075
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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** | **CA00012425**

Well Number:	120	Status:	Completed oil
API Number:	03713298	Operator:	Medallion Calif Prpts Co
Latitude:	34.402959	Longitude:	-118.639979
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | **OIL_GAS** | **CA00012407**

Well Number:	129	Status:	Plugged and abandoned oil
API Number:	03712883	Operator:	Medallion Calif Prpts Co
Latitude:	34.402778	Longitude:	-118.637995
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles | **OIL_GAS** | **CA00011170**

Well Number:	140	Status:	Plugged and abandoned oil
API Number:	03712893	Operator:	Oryx Energy Co.
Latitude:	34.402426	Longitude:	-118.650340
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1 - 2 Miles | **OIL_GAS** | **CA00011179**

Well Number:	6-7	Status:	Plugged and abandoned oil
API Number:	03712618	Operator:	Oryx Energy Co.
Latitude:	34.402421	Longitude:	-118.623989
Region:	2	Lease:	Newhall Corp.-Wolfson
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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 Miles — **OIL_GAS** — **CA00012377**

Well Number:	52	Status:	136
API Number:	03712865	Operator:	Medallion Calif Prpts Co
Latitude:	34.402382	Longitude:	-118.637472
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012382**

Well Number:	20	Status:	Plugged and abandoned oil
API Number:	03712639	Operator:	Medallion Calif Prpts Co
Latitude:	34.402287	Longitude:	-118.646443
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012383**

Well Number:	21	Status:	Completed oil
API Number:	03712640	Operator:	Medallion Calif Prpts Co
Latitude:	34.402204	Longitude:	-118.641034
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011173**

Well Number:	17	Status:	Plugged and abandoned oil
API Number:	03712636	Operator:	Oryx Energy Co.
Latitude:	34.402171	Longitude:	-118.644209
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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 Miles — **OIL_GAS** — **CA00012365**

Well Number:	72	Status:	Completed oil
API Number:	03713251	Operator:	Medallion Calif Prpts Co
Latitude:	34.402078	Longitude:	-118.637615
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012388**

Well Number:	26	Status:	046
API Number:	03700069	Operator:	Medallion Calif Prpts Co
Latitude:	34.402025	Longitude:	-118.650658
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012358**

Well Number:	65	Status:	Completed oil
API Number:	03713245	Operator:	Medallion Calif Prpts Co
Latitude:	34.402027	Longitude:	-118.635092
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00011142**

Well Number:	84	Status:	136
API Number:	03713263	Operator:	Oryx Energy Co.
Latitude:	34.402023	Longitude:	-118.632798
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00012386**

Well Number:	24	Status:	Completed oil
API Number:	03712643	Operator:	Medallion Calif Prpts Co
Latitude:	34.401942	Longitude:	-118.648270
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012379**

Well Number:	54	Status:	Completed oil
API Number:	03712866	Operator:	Medallion Calif Prpts Co
Latitude:	34.401892	Longitude:	-118.639475
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012372**

Well Number:	44	Status:	Completed oil
API Number:	03712775	Operator:	Medallion Calif Prpts Co
Latitude:	34.401655	Longitude:	-118.639119
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SW
2 - 3 Miles — **OIL_GAS** — **CA00011166**

Well Number:	133	Status:	Plugged and abandoned-dry hole
API Number:	03712887	Operator:	Oryx Energy Co.
Latitude:	34.401605	Longitude:	-118.657611
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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 Miles — **OIL_GAS** — **CA00012420**

Well Number:	115	Status:	Completed oil
API Number:	03713294	Operator:	Medallion Calif Prpts Co
Latitude:	34.401452	Longitude:	-118.635262
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012435**

Well Number:	101	Status:	Completed gas
API Number:	03713281	Operator:	Medallion Calif Prpts Co
Latitude:	34.401368	Longitude:	-118.642110
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012441**

Well Number:	109	Status:	Completed oil
API Number:	03713288	Operator:	Medallion Calif Prpts Co
Latitude:	34.401373	Longitude:	-118.632033
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00011145**

Well Number:	98	Status:	136
API Number:	03713278	Operator:	Oryx Energy Co.
Latitude:	34.401273	Longitude:	-118.647984
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00011174**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03712613	Operator:	Oryx Energy Co.
Latitude:	34.401215	Longitude:	-118.625593
Region:	2	Lease:	Newhall Corp.-Wolfson
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012398**

Well Number:	150	Status:	Completed oil
API Number:	03712852	Operator:	Medallion Calif Prpts Co
Latitude:	34.400628	Longitude:	-118.643242
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00011159**

Well Number:	57	Status:	136
API Number:	03712869	Operator:	Oryx Energy Co.
Latitude:	34.400633	Longitude:	-118.633068
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012378**

Well Number:	53	Status:	Completed oil
API Number:	03700070	Operator:	Medallion Calif Prpts Co
Latitude:	34.400601	Longitude:	-118.639246
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00012408**

Well Number:	13	Status:	Completed oil
API Number:	03712632	Operator:	Medallion Calif Prpts Co
Latitude:	34.400556	Longitude:	-118.641637
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012406**

Well Number:	128	Status:	Completed oil
API Number:	03712882	Operator:	Medallion Calif Prpts Co
Latitude:	34.400510	Longitude:	-118.635290
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00011141**

Well Number:	8	Status:	Plugged and abandoned oil
API Number:	03712627	Operator:	Oryx Energy Co.
Latitude:	34.400424	Longitude:	-118.639481
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012380**

Well Number:	19	Status:	Completed oil
API Number:	03712638	Operator:	Medallion Calif Prpts Co
Latitude:	34.400273	Longitude:	-118.643826
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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 Miles | **OIL_GAS** | **CA00011171**

Well Number:	15	Status:	Plugged and abandoned oil
API Number:	03712634	Operator:	Oryx Energy Co.
Latitude:	34.400228	Longitude:	-118.637345
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | **OIL_GAS** | **CA00012344**

Well Number:	80	Status:	Completed oil
API Number:	03713259	Operator:	Medallion Calif Prpts Co
Latitude:	34.400233	Longitude:	-118.630250
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | **OIL_GAS** | **CA00012375**

Well Number:	50	Status:	Plugged and abandoned oil
API Number:	03712863	Operator:	Medallion Calif Prpts Co
Latitude:	34.400173	Longitude:	-118.635511
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | **OIL_GAS** | **CA00012422**

Well Number:	118	Status:	Completed gas
API Number:	03713296	Operator:	Medallion Calif Prpts Co
Latitude:	34.400144	Longitude:	-118.637997
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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** | **CA00012384**

Well Number:	22	Status:	Plugged and abandoned oil
API Number:	03712641	Operator:	Medallion Calif Prpts Co
Latitude:	34.400086	Longitude:	-118.646126
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1 - 2 Miles | **OIL_GAS** | **CA00011143**

Well Number:	85	Status:	136
API Number:	03713264	Operator:	Oryx Energy Co.
Latitude:	34.400023	Longitude:	-118.627790
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | **OIL_GAS** | **CA00012364**

Well Number:	71	Status:	Completed oil
API Number:	03713250	Operator:	Medallion Calif Prpts Co
Latitude:	34.399995	Longitude:	-118.636071
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | **OIL_GAS** | **CA00011134**

Well Number:	61	Status:	Plugged and abandoned oil
API Number:	03712873	Operator:	Oryx Energy Co.
Latitude:	34.399819	Longitude:	-118.633035
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00011175**

Well Number:	2-7	Status:	Plugged and abandoned oil
API Number:	03712614	Operator:	Oryx Energy Co.
Latitude:	34.399762	Longitude:	-118.625771
Region:	2	Lease:	Newhall Corp.-Wolfson
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012427**

Well Number:	123	Status:	Completed oil
API Number:	03713300	Operator:	Medallion Calif Prpts Co
Latitude:	34.399348	Longitude:	-118.631520
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012437**

Well Number:	105	Status:	Completed oil
API Number:	03713284	Operator:	Medallion Calif Prpts Co
Latitude:	34.399089	Longitude:	-118.635275
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012330**

Well Number:	95	Status:	Completed oil
API Number:	03713275	Operator:	Medallion Calif Prpts Co
Latitude:	34.399072	Longitude:	-118.644607
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
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** — **CA00011146**

Well Number:	30	Status:	Plugged and abandoned oil
API Number:	03712648	Operator:	Oryx Energy Co.
Latitude:	34.398936	Longitude:	-118.643101
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012346**

Well Number:	82	Status:	Oil well converted to water disposal
API Number:	03713261	Operator:	Medallion Calif Prpts Co
Latitude:	34.398705	Longitude:	-118.644657
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
1 - 2 Miles — **OIL_GAS** — **CA00012404**

Well Number:	16	Status:	Completed oil
API Number:	03712635	Operator:	Medallion Calif Prpts Co
Latitude:	34.398624	Longitude:	-118.641791
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00011161**

Well Number:	11	Status:	Plugged and abandoned oil
API Number:	03712630	Operator:	Oryx Energy Co.
Latitude:	34.398612	Longitude:	-118.635003
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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 Miles | **OIL_GAS** | **CA00012354**

Well Number:	55	Status:	134
API Number:	03712867	Operator:	Medallion Calif Prpts Co
Latitude:	34.398571	Longitude:	-118.630682
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | **OIL_GAS** | **CA00011157**

Well Number:	5	Status:	Plugged and abandoned oil
API Number:	03712624	Operator:	Oryx Energy Co.
Latitude:	34.398424	Longitude:	-118.637341
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | **OIL_GAS** | **CA00012361**

Well Number:	69	Status:	Completed oil
API Number:	03712348	Operator:	Medallion Calif Prpts Co
Latitude:	34.398417	Longitude:	-118.632561
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | **OIL_GAS** | **CA00011140**

Well Number:	79	Status:	136
API Number:	03713258	Operator:	Oryx Energy Co.
Latitude:	34.398406	Longitude:	-118.628660
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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 Miles | **OIL_GAS** | **CA00012405**

Well Number:	18	Status:	Plugged and abandoned oil
API Number:	03712637	Operator:	Medallion Calif Prpts Co
Latitude:	34.398318	Longitude:	-118.633195
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | **OIL_GAS** | **CA00012352**

Well Number:	90	Status:	Completed oil
API Number:	03713269	Operator:	Medallion Calif Prpts Co
Latitude:	34.398310	Longitude:	-118.640767
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | **OIL_GAS** | **CA00011133**

Well Number:	6	Status:	Plugged and abandoned oil
API Number:	03712625	Operator:	Oryx Energy Co.
Latitude:	34.398284	Longitude:	-118.639583
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles | **OIL_GAS** | **CA00012341**

Well Number:	74	Status:	Completed gas
API Number:	03713253	Operator:	Medallion Calif Prpts Co
Latitude:	34.397992	Longitude:	-118.637507
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — **OIL_GAS** — **CA00011176**

Well Number:	3-5	Status:	Plugged and abandoned oil
API Number:	03712615	Operator:	Oryx Energy Co.
Latitude:	34.397752	Longitude:	-118.619935
Region:	2	Lease:	Newhall Corp.-Wolfson
Section:	25	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
1 - 2 Miles — **OIL_GAS** — **CA00012347**

Well Number:	83	Status:	Completed oil
API Number:	03713262	Operator:	Medallion Calif Prpts Co
Latitude:	34.397611	Longitude:	-118.625051
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012430**

Well Number:	126	Status:	Completed oil
API Number:	03712880	Operator:	Medallion Calif Prpts Co
Latitude:	34.397520	Longitude:	-118.630159
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00011185**

Well Number:	4	Status:	Plugged and abandoned oil
API Number:	03712623	Operator:	Oryx Energy Co.
Latitude:	34.397141	Longitude:	-118.635448
Region:	2	Lease:	Ranch San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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 Miles — **OIL_GAS** — **CA00012327**

Well Number:	92	Status:	Completed oil
API Number:	03713272	Operator:	Medallion Calif Prpts Co
Latitude:	34.396986	Longitude:	-118.634592
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
2 - 3 Miles — **OIL_GAS** — **CA00012351**

Well Number:	9	Status:	Plugged and abandoned oil
API Number:	03712628	Operator:	Medallion Calif Prpts Co
Latitude:	34.396931	Longitude:	-118.641918
Region:	2	Lease:	Rancho San Francisco
Section:	27	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles — **OIL_GAS** — **CA00012356**

Well Number:	60	Status:	136
API Number:	03712872	Operator:	Medallion Calif Prpts Co
Latitude:	34.396745	Longitude:	-118.628691
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
1 - 2 Miles — **OIL_GAS** — **CA00012376**

Well Number:	51	Status:	Completed oil
API Number:	03712864	Operator:	Medallion Calif Prpts Co
Latitude:	34.396733	Longitude:	-118.630947
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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 Miles — **OIL_GAS** — **CA00011183**

Well Number:	1	Status:	Plugged and abandoned oil
API Number:	03712620	Operator:	Oryx Energy Co.
Latitude:	34.396683	Longitude:	-118.637431
Region:	2	Lease:	Ranch San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles — **OIL_GAS** — **CA00012362**

Well Number:	7	Status:	Completed oil
API Number:	03712626	Operator:	Medallion Calif Prpts Co
Latitude:	34.396671	Longitude:	-118.639707
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles — **OIL_GAS** — **CA00012366**

Well Number:	73	Status:	Completed oil
API Number:	03713252	Operator:	Medallion Calif Prpts Co
Latitude:	34.396613	Longitude:	-118.626457
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles — **OIL_GAS** — **CA00012433**

Well Number:	10	Status:	Completed oil
API Number:	03712629	Operator:	Medallion Calif Prpts Co
Latitude:	34.396484	Longitude:	-118.632944
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles — **OIL_GAS** — **CA00012409**

Well Number:	130	Status:	Completed oil
API Number:	03712884	Operator:	Medallion Calif Prpts Co
Latitude:	34.396445	Longitude:	-118.640268
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles — **OIL_GAS** — **CA00012349**

Well Number:	88	Status:	036
API Number:	03713267	Operator:	Medallion Calif Prpts Co
Latitude:	34.396179	Longitude:	-118.621185
Region:	2	Lease:	Rancho San Francisco
Section:	25	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles — **OIL_GAS** — **CA00012333**

Well Number:	99	Status:	Completed oil
API Number:	03713279	Operator:	Medallion Calif Prpts Co
Latitude:	34.396163	Longitude:	-118.624061
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles — **OIL_GAS** — **CA00011177**

Well Number:	4-5	Status:	Plugged and abandoned oil
API Number:	03712616	Operator:	Oryx Energy Co.
Latitude:	34.395879	Longitude:	-118.617688
Region:	2	Lease:	Newhall Corp.-Wolfson
Section:	25	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | **OIL_GAS** | **CA00012414**

Well Number:	14	Status:	Completed oil
API Number:	03712633	Operator:	Medallion Calif Prpts Co
Latitude:	34.395152	Longitude:	-118.631109
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00011184**

Well Number:	3	Status:	Plugged and abandoned oil
API Number:	03712622	Operator:	Oryx Energy Co.
Latitude:	34.394860	Longitude:	-118.635153
Region:	2	Lease:	Ranch San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00012424**

Well Number:	12	Status:	Plugged and abandoned oil
API Number:	03712631	Operator:	Medallion Calif Prpts Co
Latitude:	34.394753	Longitude:	-118.637298
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00012381**

Well Number:	2	Status:	Completed oil
API Number:	03712621	Operator:	Medallion Calif Prpts Co
Latitude:	34.394727	Longitude:	-118.633015
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | **OIL_GAS** | **CA00011139**

Well Number:	78	Status:	Plugged and abandoned oil
API Number:	03713257	Operator:	Oryx Energy Co.
Latitude:	34.394692	Longitude:	-118.624488
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00012434**

Well Number:	100	Status:	Completed oil
API Number:	03713280	Operator:	Medallion Calif Prpts Co
Latitude:	34.394668	Longitude:	-118.638161
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00011153**

Well Number:	43	Status:	136
API Number:	03712857	Operator:	Oryx Energy Co.
Latitude:	34.394590	Longitude:	-118.628831
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles | **OIL_GAS** | **CA00012353**

Well Number:	91	Status:	Plugged and abandoned-dry hole
API Number:	03713270	Operator:	Medallion Calif Prpts Co
Latitude:	34.394369	Longitude:	-118.618793
Region:	2	Lease:	Rancho San Francisco
Section:	25	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | **OIL_GAS** | **CA00012348**

Well Number:	87	Status:	Completed oil
API Number:	03713266	Operator:	Medallion Calif Prpts Co
Latitude:	34.394335	Longitude:	-118.634652
Region:	2	Lease:	Rancho San Francisco
Section:	26	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles | **OIL_GAS** | **CA00011186**

Well Number:	91	Status:	Plugged and abandoned oil
API Number:	03713271	Operator:	Oryx Energy Co.
Latitude:	34.394339	Longitude:	-118.619154
Region:	2	Lease:	Ranch San Francisco
Section:	25	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles | **OIL_GAS** | **CA00011178**

Well Number:	5-5	Status:	Plugged and abandoned oil
API Number:	03712617	Operator:	Oryx Energy Co.
Latitude:	34.394288	Longitude:	-118.614897
Region:	2	Lease:	Newhall Corp.-Wolfson
Section:	25	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00012328**

Well Number:	93	Status:	Completed oil
API Number:	03713273	Operator:	Medallion Calif Prpts Co
Latitude:	34.394049	Longitude:	-118.628014
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | **OIL_GAS** | **CA00012345**

Well Number:	81	Status:	Completed oil
API Number:	03713260	Operator:	Medallion Calif Prpts Co
Latitude:	34.393239	Longitude:	-118.630727
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00011148**

Well Number:	34	Status:	Plugged and abandoned oil
API Number:	03712848	Operator:	Oryx Energy Co.
Latitude:	34.393161	Longitude:	-118.633157
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles | **OIL_GAS** | **CA00012343**

Well Number:	77	Status:	Completed oil
API Number:	03713256	Operator:	Medallion Calif Prpts Co
Latitude:	34.393159	Longitude:	-118.622675
Region:	2	Lease:	Rancho San Francisco
Section:	36	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00012368**

Well Number:	36	Status:	Plugged and abandoned oil
API Number:	03712850	Operator:	Medallion Calif Prpts Co
Latitude:	34.393110	Longitude:	-118.630378
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | **OIL_GAS** | **CA00011150**

Well Number:	37	Status:	136
API Number:	03712851	Operator:	Oryx Energy Co.
Latitude:	34.393077	Longitude:	-118.626334
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00012397**

Well Number:	149	Status:	Completed oil
API Number:	03712651	Operator:	Medallion Calif Prpts Co
Latitude:	34.393039	Longitude:	-118.633617
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00012392**

Well Number:	31	Status:	Plugged and abandoned oil
API Number:	03712649	Operator:	Medallion Calif Prpts Co
Latitude:	34.392956	Longitude:	-118.628634
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles | **OIL_GAS** | **CA00012331**

Well Number:	96	Status:	Completed oil
API Number:	03713276	Operator:	Medallion Calif Prpts Co
Latitude:	34.392238	Longitude:	-118.616366
Region:	2	Lease:	Rancho San Francisco
Section:	36	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | **OIL_GAS** | **CA00012399**

Well Number:	151	Status:	Completed oil
API Number:	03712653	Operator:	Medallion Calif Prpts Co
Latitude:	34.391926	Longitude:	-118.629748
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles | **OIL_GAS** | **CA00011151**

Well Number:	39	Status:	136
API Number:	03712853	Operator:	Oryx Energy Co.
Latitude:	34.391584	Longitude:	-118.624342
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00012357**

Well Number:	64	Status:	Completed oil
API Number:	03712877	Operator:	Medallion Calif Prpts Co
Latitude:	34.391463	Longitude:	-118.628809
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

South
2 - 3 Miles | **OIL_GAS** | **CA00012350**

Well Number:	89	Status:	Completed oil
API Number:	03713268	Operator:	Medallion Calif Prpts Co
Latitude:	34.391404	Longitude:	-118.627480
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | **OIL_GAS** | **CA00012369**

Well Number:	38	Status:	Plugged and abandoned oil
API Number:	03712852	Operator:	Medallion Calif Prpts Co
Latitude:	34.391367	Longitude:	-118.626333
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSW
2 - 3 Miles | **OIL_GAS** | **CA00008320**

Well Number:	1	Status:	Plugged and abandoned-dry hole
API Number:	03720085	Operator:	Union Oil Co of Ca
Latitude:	34.391242	Longitude:	-118.645217
Region:	2	Lease:	R.S.F.
Section:	34	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles | **OIL_GAS** | **CA00012413**

Well Number:	139	Status:	Completed oil
API Number:	03712892	Operator:	Medallion Calif Prpts Co
Latitude:	34.391064	Longitude:	-118.622780
Region:	2	Lease:	Rancho San Francisco
Section:	36	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles | **OIL_GAS** | **CA00012342**

Well Number:	76	Status:	Completed oil
API Number:	03713255	Operator:	Medallion Calif Prpts Co
Latitude:	34.390795	Longitude:	-118.620289
Region:	2	Lease:	Rancho San Francisco
Section:	36	Township:	04N
Range:	17W	Map Number:	253
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
2 - 3 Miles | **OIL_GAS** | **CA00012401**

Well Number:	153	Status:	Completed oil
API Number:	03712655	Operator:	Medallion Calif Prpts Co
Latitude:	34.390584	Longitude:	-118.625977
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
Base and Meridian:	San Bernardino	Total Depth:	Not Reported
Spud Date:	Not Reported	Abandonment Date:	Not Reported

SSE
2 - 3 Miles | **OIL_GAS** | **CA00012367**

Well Number:	33	Status:	Plugged and abandoned oil
API Number:	03712847	Operator:	Medallion Calif Prpts Co
Latitude:	34.389545	Longitude:	-118.624664
Region:	2	Lease:	Rancho San Francisco
Section:	35	Township:	04N
Range:	17W	Map Number:	253
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
91355	13	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 Zip Code: 91355

Number of sites tested: 2

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.750 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

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.

ESA Addendum Letter – Historical Documents and Site Reconnaisance, May 6, 2004

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May 6, 2004

File No.: 103169

Mr. Keith Herren
Newhall Land
23823 Valencia Boulevard
Valencia, California 91355

Reference: Parcel Map #53108, Highway 126
Newhall Ranch, California

Subject: Addendum Letter
Phase I Environmental Site Assessment

Dear Mr. Herren:

BA Environmental is pleased to submit this Addendum to the Phase I Environmental Site Assessment (ESA) conducted at the subject site on December 3, 2003.

In a review of historical documents, as well as a site reconnaissance, BA Environmental identified that the subject property had been utilized intermittently for over 100 years for agricultural production.

On March 29, 2004, Los Angeles County Department of Parks and Recreation reviewed the Phase I ESA for the subject property. In their review, the Los Angeles County Department of Parks and Recreation indicated that additional information would be needed with regard to potential past and present pesticide usage. In addition, the Los Angeles County Department of Parks and Recreation indicated the soil sampling might be required.

In an interview conducted with Mr. John Frye, General Manager, Agriculture and Natural Resources for Newhall Land and Farming, conducted on April 14, 2004, Mr. Frye was queried regarding pesticide usage by Newhall Land and Farming on the subject property. To the best of Mr. Frye's knowledge, Newhall Land and Farming has never used pesticides on the subject property.

Two companies currently lease the land in this area for growing various vegetables, Starr Produce and Cilantro Farms. On April 13, 2004, BA Environmental contacted Mr. Steve Starr of Starr Produce, and Mr. F.F. Gonsalez of Cilantro Farms. According to Mr. Starr and Mr. Gonsalez, various pesticides and herbicides are used on-site. According to Mr. Starr and Mr. Gonsalez, the quantities of pesticides used vary depending upon the manufacturers' recommended usage.

On April 27, 2004, BA Environmental contacted Inspector Michael Sium of the County of Los Angeles Agricultural Commissioner, Department of Pesticide Regulation. Mr. Sium is the local inspector for the Department of Pesticide Regulation in that region. According to Mr. Sium, he has been an inspector in that area for approximately two years. Since he has been inspecting the subject property, Mr. Sium has not observed any violations with regard to pesticide usage. Also on April 27, 2004, BA Environmental contacted Inspector Adrian Zavala of the Department of Pesticide Regulation. According to Inspector Zavala, the Department of Pesticide Regulation maintains records for three years. Inspector Zavala indicated that, in the last three years, neither Starr Produce nor Cilantro Farms were reported to have any violations. Inspector Zavala provided BA Environmental with copies of Department of Pesticide Regulation Monthly Pesticide Use Reports for both Starr Produce and Cilantro Farms, for the years 2002, 2003 and 2004. A listing of pesticides used by both companies for the past three years is included as an attachment to this report.

On January 29, 2004, BA Environmental conducted soil sampling on the subject property as part of a sampling program for the larger River Village Development. The entire River Village Development was grided based on field shape and crop type. Four samples were collected from each grid at a depth of between one and two feet below ground surface (bgs). The four soil samples were then sent to a State of California Department of Health Certified Laboratory under a strict chain of custody. At the laboratory, the four samples from each grid were then composited into one sample, and that sample was analyzed for Organochlorine Pesticides (OCP), Organophosphorous Pesticides (OPP) and Chlorinated Herbicides (CH), using Environmental Protection Agency (EPA) Method Nos. 8081 (OCP), 8141 (OPP) and 8151 (CH).

Two grids were located on the subject site, Grids G7 and G8. Grid G8 is located in the northern portion of the subject property and Grid G7 is located in the southern portion. The sample locations can be seen in the attached figure. The composite sample from Grid G7 was reported to contain only 0.002 milligrams per kilogram (mg/kg), or parts per million (ppm) of Dieldrin, an OCP. No other OCPs, or OPPs or CHs were detected in this composited sample. In addition, no OCPs, OPPs or CHs were detected in the composited sample from Grid G8. According to the EPA Region 9 Preliminary Remedial Goal (PRG) Table, the Residential PRG for Dieldrin is 1.7 mg/kg or ppm. Based on this, the concentration of Dieldrin detected in the composite sample collected in Grid G7 is well below the Residential PRG for that pesticide. A copy of the laboratory report for Grids 7 and 8 is included as an attachment to this letter.

According to Mr. Keith Herren, Vice President of Residential Development for Newhall Land and Farming, clean backfill will be brought onto the subject property in order to raise grade approximately 10 feet above current ground surface. This would eliminate any direct exposure to any soil that may be impacted by residual pesticides.

Based on the above data, it is BA Environmental's opinion that the residual pesticides detected on the subject site do not pose any threat to human health.

If you have questions regarding this project or report, please contact us at (818) 500-1898.

Respectfully submitted,
BA ENVIRONMENTAL

Russell M. Cote, M.Sc., R.G. No. 7139
Manager, Environmental Services

Attachments: Table
Figure
Lab Results

ATTACHMENTS

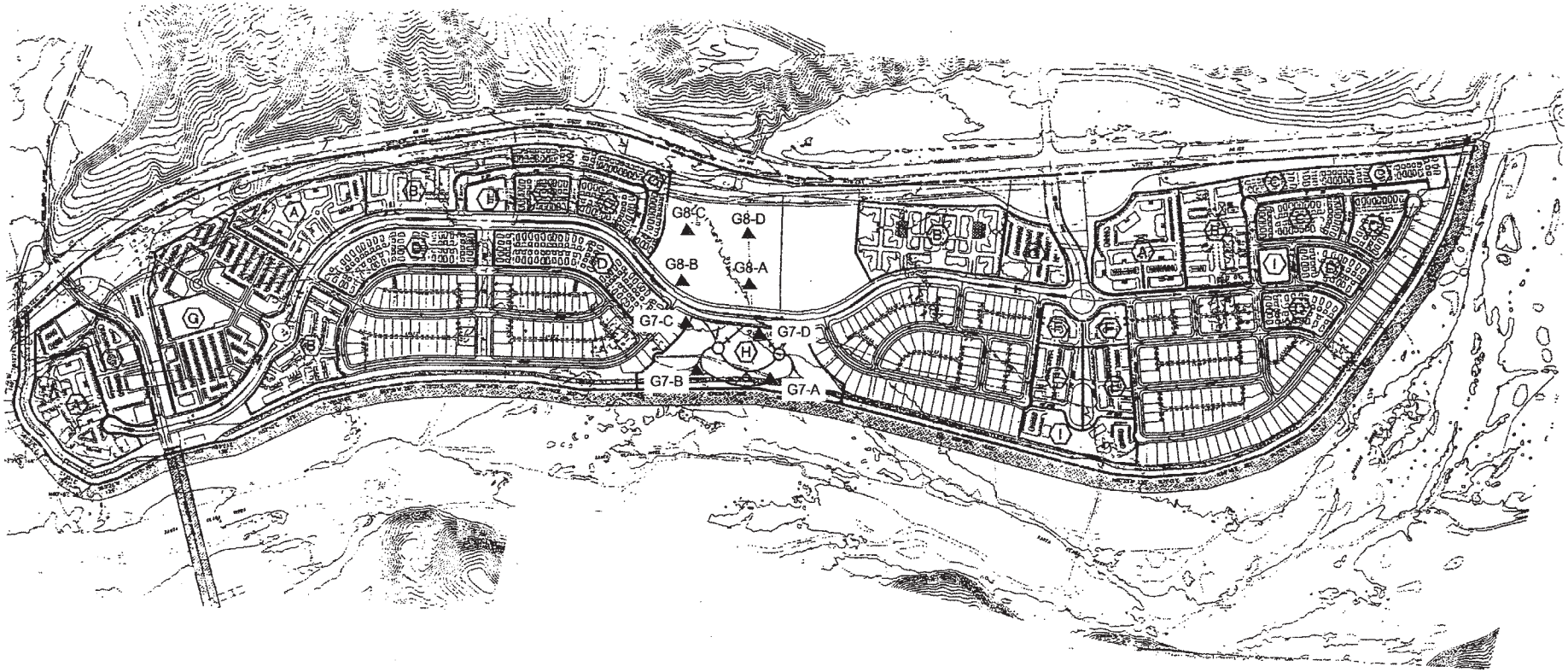
TABLES

Table 1
PESTICIDE/HERBICIDE USAGE BY
STARR PRODUCE AND CILANTRO FARMS
2002/2003/2004
Parcel Map #53108, Highway 126
Newhall Ranch, California

Brand Name	Chemical Name	Type	Starr Produce	Cilantro Farms
Ambush	Permethrin	Insecticide	Yes	No
Ammo 2.5 EC	Cypermethrin	Pesticide	No	Yes
Assail	Acetamiprid	Insecticide	No	Yes
Baythroid 2	Cyfluthrin	Insecticide	No	Yes
Bravo Weather Stick	Tetrachloroisophthalo nitrile	Fungicide	No	Yes
Confirm 2F	Tebufenozide	Insecticide	No	Yes
Dacthal W-75	Dacthal	Herbicide	Yes	Yes
Diazinon Ag 500	Diazion	Insecticide	Yes	Yes
Diazinon 4E	Diazinon	Organochlorine Pesticide	No	Yes
Dibrom 8E	Naled 91,2-Dibromo-2,2-dichloroethyl phosphate	Insecticide	No	Yes
Goal	Oxyfluorfen	Herbicide	Yes	No
Herbicide Activator	Unknown	Herbicide Activator	No	Yes
Javelin	Bacillus Thuringiensis	Biological Insecticide	Yes	No
Kocide 4.5 LF	Copper Hydroxide	Fungicide and Bactericide	No	Yes
Lorox	Linuron	Herbicide	Yes	No
Malathion 8	Malathion	Insecticide	No	Yes
Manex	Maneb	Fungicide	No	Yes
Poast	Sethoxydim	Herbicide	Yes	Yes
Pounce 3.2 EC	Permethrin	Insecticide	Yes	Yes
Prefar	Bensulide	Herbicide	Yes	No
Promatryne	2,4-bis (isopropylamino)-6-methylthio-s-triazine	Herbicide	Yes	No
Provado 1.6	Imidacloprid	Insecticide	No	Yes
Pyrellin EC	Pyrethrins and Rotenone	Botanical Insecticide	No	Yes
Roundup	Isopropylamine salt of glyphosate	Herbicide	Yes	No

Brand Name	Chemical Name	Type	Starr Produce	Cilantro Farms
Ridomil Gold	Mefenoxam	Fungicide	Yes	No
Ro-Neet	Cycloate Technical	Herbicide	Yes	Yes
Spin Aid	3-methoxycarbonyalmino henyl 3-methylcarbanilate	Herbicide	Yes	Yes
Success	Spinosad	Insecticide	Yes	Yes
Treflan	Trifluralin	Herbicide	Yes	No
Vapam	Sodium methyldithiocarbamate	Soil Fumigant	Yes	No
Xentari	Bacillus Thuringiensis	Biological Insecticide	No	Yes

FIGURES



Site Plan

BA ENVIRONMENTAL

NORTH

0 335 670
Approximate Scale, feet

▲ G7-A = Soil Sample Location and Designation

PHASE I ENVIRONMENTAL SITE ASSESSMENT
Soil Sample Locations

PROJECT: **River Village**
Tentative Tract Map No. 53108, Highway 126
Newhall Ranch, California

PROJECT NO.
103169

FIGURE
1

Laboratory Reports

Enviro - Chem, Inc.
1215 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: February 6, 2004

FEB 12 2004

Mr. Russell Cote
BA Environmental
528 State Street
Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

Project: **Newhall Land / 104012**

Dear Mr. Cote:

The analytical results for the soil samples, received by our Lab on January 29, 2004, are attached.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Jesse Tu, Ph.D.
Laboratory Manager

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02/04
DATE ANALYZED: 02/03-04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G7-A/B/C/D (Composite)**
LAB I.D.: 040130-34,-35,-36,-37 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	0.002	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	ND	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02/04
DATE ANALYZED: 02/03-04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G8-A/B/C/D (Composite)**
LAB I.D.: 040130-38,-39,-40,-41 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	ND	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	ND	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02/04
DATE ANALYZED: 02/03-04/04
DATE REPORTED: 02/06/04

METHOD BLANK FOR LAB I.D.: 040130-10 TO -13 (Composite), 040130-14 TO -17 (Composite), 040130-18 TO -21 (Composite), 040130-22 TO -25 (Composite), 040130-26 TO -29 (Composite), 040130-30 TO -33 (Composite), 040130-34 TO -37 (Composite), 040130-38 TO -41 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL(X1)
Aldrin	ND	0.001
alpha-BHC	ND	0.001
beta-BHC	ND	0.001
gamma-BHC (Lindane)	ND	0.001
delta-BHC	ND	0.001
alpha-Chlordane	ND	0.001
gamma-Chlordane	ND	0.001
4,4'-DDD	ND	0.001
4,4'-DDE	ND	0.001
4,4'-DDT	ND	0.001
Dieldrin	ND	0.001
Endosulfan I	ND	0.001
Endosulfan II	ND	0.001
Endosulfan Sulfate	ND	0.001
Endrin	ND	0.001
Endrin Aldehyde	ND	0.001
Endrin Ketone	ND	0.001
Heptachlor Epoxide	ND	0.001
Heptachlor	ND	0.001
Methoxyclor	ND	0.001
Toxaphene	ND	0.200

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

EPA 8081 QA/QC Report

Matrix: Soil Date Analyzed: 2/3-4/2004
Unit: mg/Kg

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 040130-120

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.050	0.046	**92%**	0.047	**94%**	**2%**	**0-20%**	**70-130**
Aldrin	0.000	0.050	0.048	**95%**	0.048	**97%**	**2%**	**0-20%**	**70-130**
4,4-DDE	0.000	0.050	0.050	**99%**	0.051	**102%**	**3%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.050	0.049	**97%**	**75-125**
Aldrin	0.050	0.049	**98%**	**75-125**
4,4-DDE	0.050	0.049	**98%**	**75-125**
Dieldrin	0.050	0.052	**104%**	**75-125**

Surrogate Recovery	ACP%	MB	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.			040130-116	040130-117	040130-118	040130-119	040130-120	0130-10~13
Tetra-chloro-meta-xylene		111%	120%	114%	116%	130%	110%	122%
Decachlorobipneyl	50-150	114%	116%	108%	121%	94%	103%	112%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	0130-14~17	0130-18~21	0130-22~25	0130-26~29	0130-30~33	0130-34~37	0130-38~41	
Tetra-chloro-meta-xylene	116%	129%	117%	121%	99%	113%	111%	
Decachlorobipneyl	108%	126%	106%	118%	80%	104%	96%	

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result
spk conc = Spike Concentration
%REC = Percent Recovery
ACP %RPD = Acceptable Percent RPD Range
ACP %REC = Acceptable Percent Recovery Range

* = *Surrogate fail due to matrix interference*

Note: ***LCS, MS, MSD are in control therefore results are in control.***

Analyzed and Reviewed By:

Final Reviewer:

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02-04/04
DATE ANALYZED: 02/04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G7-A/B/C/D (Composite)**
LAB I.D.: 040130-34,-35,-36,-37 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02-04/04
DATE ANALYZED: 02/04/04
DATE REPORTED: 02/06/04

SAMPLE I.D.: **G8-A/B/C/D (Composite)**
LAB I.D.: 040130-38,-39,-40,-41 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/02-04/04
DATE ANALYZED: 02/04/04
DATE REPORTED: 02/06/04

METHOD BLANK FOR LAB I.D.: 040130-10 TO -13 (Composite), 040130-14 TO -17 (Composite), 040130-18 TO -21 (Composite), 040130-22 TO -25 (Composite), 040130-26 TO -29 (Composite), 040130-30 TO -33 (Composite), 040130-34 TO -37 (Composite), 040130-38 TO -41 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL
2,4,5-T	ND	0.020
2,4,5-TP (Silvex)	ND	0.020
2,4-D	ND	0.200
2,4-DB	ND	0.200
Dalapon (Dichloroacetic Acid)	ND	0.500
Dicamba	ND	0.020
Dichloroprop	ND	0.200
Dinoseb (DNBP)	ND	0.100
MCPA	ND	20.0
MCPP	ND	20.0

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

QA/QC Report

Analysis: EPA 8151A

Matrix: **SOIL** Date Analyzed: **2/4/2004**

Unit: **mg/Kg (PPM)**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 040130-38~41

Analyte	S.R.	spk conc	MS	% REC	MSD	% REC	%RPD	ACP %RPD	ACP %REC
2,4,5-T	0	1.0	1.03	**103%**	1.06	**106%**	**3%**	**0-20%**	**50-150**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
2,4,5-T	0.100	0.105	105%	**70-130**
2,4,5-TP	0.100	0.094	94%	**70-130**
2,4-DB	1.00	1.12	112%	**70-130**

Surrogate Recovery:

Analyte	spk conc	ACP %	M-BLK	%REC	%REC	%REC	%REC	%REC	%REC
Sample ID:				040130-10~13	040130-14~17	040130-18~21	040130-22~25	040130-26~29	040130-30~33
DCAA	0.20	50-150	59%	57%	66%	75%	66%	86%	85%

Analyte	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample ID:	040130-34~37	040130-38~41							
DCAA	68%	75%							

Analyte	%REC	%REC	%REC	%REC	%REC
Sample ID:					
DCAA					

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: _____

Final Reviewer: _____

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: February 9, 2004

Mr. Russell Cote
BA Environmental
528 State Street
Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

Project: **Newhall Land / 104012; 8141A**

Dear Mr. Cote:

The analytical results for the soil samples, received by our Lab on January 29, 2004, are attached.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Jesse Tu, Ph.D.
Laboratory Manager

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/03/04
DATE ANALYZED: 02/07/04
DATE REPORTED: 02/09/04

SAMPLE I.D.: **G7-A/B/C/D (Composite)**
LAB I.D.: 040130-34,-35,-36,-37 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: 
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/03/04
DATE ANALYZED: 02/07/04
DATE REPORTED: 02/09/04

SAMPLE I.D.: **G8-A/B/C/D (Composite)**
LAB I.D.: 040130-38,-39,-40,-41 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro - Chem, Inc.
1218 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
528 State Street, Glendale, CA 91203
Tel(818)500-1898 Fax(818)246-8195

PROJECT: **Newhall Land / 104012**
MATRIX: SOIL
DATE SAMPLED: 01/29/04
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 01/29/04
DATE EXTRACTED: 02/03/04
DATE ANALYZED: 02/07/04
DATE REPORTED: 02/09/04

METHOD BLANK FOR LAB I.D.: 040130-10 TO -13 (Composite), 040130-14 TO -17 (Composite), 040130-18 TO -21 (Composite), 040130-22 TO -25 (Composite), 040130-26 TO -29 (Composite), 040130-30 TO -33 (Composite), 040130-34 TO -37 (Composite), 040130-38 TO -41 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL X1
Azinphos Methyl	ND	1.0
Bolstar (Sulprofos)	ND	0.1
Chlorpyrifos	ND	0.2
Coumaphos	ND	1.0
Demeton-O	ND	0.17
Demeton-S	ND	0.17
Diazinon	ND	0.4
Dichlorvos	ND	0.07
Disulfoton	ND	0.13
Ethoprop	ND	0.17
Fensulfothion	ND	1.0
Fenthion	ND	0.07
Malathion	ND	0.02
Merphos	ND	0.17
Mevinphos	ND	0.2
Naled	ND	0.07
Parathion Ethyl	ND	0.02
Parathion Methyl	ND	0.02
Phorate	ND	0.1
Ronnel	ND	0.2
Tetrachlorvinphos (Stirophos)	ND	3.35
Tokuthion (Prothiofos)	ND	0.33
Trichloronate	ND	0.1

COMMENTS:
PQL = PRACTICAL QUANTITATION LIMIT
ND = NON-DETECTED OR BELOW THE PQL
ANALYSIS PERFORMED BY ASSOCIATED LABS, ORANGE, CA

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE # 1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
~~0~~ 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	8081	8141	8151									COMMENTS
				Analysis Required															
G7-A	040130-34	1-29-04		Soil	1x40z		ICE	X	X	X									
G7-B	-35							X	X	X									Composite Samples
G7-C	-36							X	X	X									
G7-D	-37							X	X	X									
G8-A	-38							X	X	X									
G8-B	-39							X	X	X									Composite Samples
G8-C	-40							X	X	X									
G8-D	-41							X	X	X									

Misc.

Company Name: Building Analytics
Address: 528 State St.
City/State/Zip: Glendale CA 91203

Project Contact: Russell Cote
Tel: (818) 500-[illegible]
Fax: (818) 246-6155

Sampler's Signature: Russell Cote
Project Name/ID: Newhall Land 104012

Relinquished by: Russell Cote	Received by: [signature]	Date & Time: 1/29/04	1525
Relinquished by: [signature]	Received by: [signature]	Date & Time: 1/30/04	0905
Relinquished by:	Received by:	Date & Time:	

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date:

WHITE WITH SAMPLE, YELLOW TO CLIENT

State of California
Resources Agency
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LOS ANGELES REGION

ORDER No. 75-14

WASTE DISCHARGE REQUIREMENTS ORIGINAL

FOR DISPOSAL OF SLUDGE ON LAND
COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY
AND NEWHALL LAND AND FARMING COMPANY
(File 73-62)

..e California Regional Water Quality Control Board, Los Angeles Region, finds

1. County Sanitation Districts of Los Angeles County have filed a report of waste discharge relative to land disposal of digested sewage sludge produced at the District 26 and 32 Water Renovation Plants. These are secondary plants utilizing the activated sludge process to treat sewage, principally of domestic origin. The discharges of secondary effluent from these plants are the subject of NPDES Permits Nos. CA0054313 and CA0054216 (for surface discharge) and Orders Nos. 74-182 and 74-183 (for reclaimed water use), respectively, adopted by this Board on July 15, 1974.

2. County Sanitation Districts of Los Angeles County haul the digested sludge from these plants to agricultural lands owned by Newhall Land and Farming Company where it is spread on unplanted areas and disked for fertilizing and soil conditioning purposes.

3. The Districts have selected five disposal sites (Exhibits 1 & 2). The first site is in Hasley Canyon about one mile northeast of Highway 126 in Sections 11 and 12, T4N, R17W, S. B. B. and M. The second site is adjacent to Castaic Creek, immediately north of Castaic Junction, in Section 12, T4N, R17W, S. B. B. and M. The third and fourth sites are in San Francisquito Canyon, about 7,000 feet west of San Francisquito Canyon Road. Site 3 is located in Sections 9 and 10, T4N, R16W, S. B. B. & M. All the sites are within Eastern Hydrologic Subarea and overlie highly permeable unconsolidated Recent alluvium. Currently the sludge is disposed of at site 5 only, by spreading and disking into the soil.

4. The Board adopted an Interim Water Quality Control Plan for Santa Clara and Los Angeles River Basins on June 10, 1971; this plan was updated on December 13, 1972.

5. The beneficial uses of groundwaters in Eastern Hydrologic Subarea are: municipal, domestic, agricultural, and industrial water supply.

6. Groundwater from wells in the vicinity is used for irrigation and occasionally for domestic purposes. The quality of these waters is margina for domestic use because of high dissolved solids (TDS up to 1,500 mg/l and Class 2 for irrigation because of mineralization and a boron concentration often greater than 0.5 mg/l.

7. Drainage from the selected sites is ultimately to Santa Clara River; surface waters of which are beneficially used for ground-water recharge, water-contact and non-water-contact recreation, and fresh-water aquatic habitat.

8. The State Department of Health has not yet adopted criteria for the use of digested sewage sludge, but the staff of the State Department of Health has drafted tentative guidelines for such use. The tentative guidelines specify that if liquid sludge is applied and mixed into the soil, there should be no public use o the land for one year and drainage from the lands must be contro The tentative guidelines further recommend that sewage sludge us on food crops must be sterilized equivalent to that of heat dryi except under special study conditions approved by the Department of Health.

The Board has notified the discharger and interested agencies and persons its intent to prescribe waste discharge requirements for this discharge.

The Board in a public meeting heard and considered all comments pertainin to the discharge.

IT IS HEREBY ORDERED, that County Sanitatation Districts of Los Angeles County and Newhall Land and Farm Company shall comply with the following:

A. Waste Discharge Requirements

1. Wastes discharged at these sites shall be limited to digested sewage sludge only.

2. Wastes discharged shall not be permitted to escape as surface flow from areas of application or to enter creeks, drainage ditches or watercourses.

3. Wastes shall not be permitted to pond on the property or be placed in ponded water; wastes shall be spread and immediatel disked into the topsoil, as proposed.

4. Erosion of deposited materials by surface flow shall be prevented.

5. Storm runoff, except rain falling naturally on the site, shal be diverted around this site.

6. Wastes shall be discharged only at the proposed site and only on land owned or controlled by the discharger.

7. Water used for irrigation shall not be allowed to escape from the sludge spreading areas as surface runoff.

8. Odors of waste origin shall not be perceptible beyond the boundaries of the property.

9. Breeding of flies, mosquitoes, or other vectors of public health or nuisance significance insofar as it relates to this discharge shall be controlled by the discharger.

10. Neither the discharge nor any treatment or handling of wastes shall cause a pollution or nuisance.

11. No part of sludge spreading areas shall be closer than 100 feet to any water well or a stream channel or watercourse.

12. There shall be no public use of the land on which sludge has been placed for one year unless the sludge has been heat-dried equivalent to sterilization or has been chemically oxidized.

13. Sludge shall not be applied onto lands within 100 feet of any low pressure water line from which domestic water is derived.

B. Provisions

1. A copy of this Order shall be maintained where it will be available at all times to operating personnel.

2. In accordance with Section 13260 of the Water Code, the discharger shall file a report of any material change or proposed change in the character, location or volume of the discharge.

3. In the event of any change in name of operator or ownership or control of land or waste disposal facilities, the discharger shall notify this Board of such change and shall notify the succeeding owner or operator of the existence of this Order by letter, copy of which shall be forwarded to the Board.

4. The discharger shall notify this Board immediately by telephone of any adverse condition resulting from these waste discharges or from operations producing these waste discharges, such notifications to be affirmed in writing.

5. In accordance with Section 13267 of the Water Code the discharger shall furnish, under penalty of perjury, technical monitoring program reports; such reports shall be submitted in accordance with specifications prepared by the Executive Officer, which specifications are subject to periodic revisions as may be warranted.

6. This Board considers the property owner to have a continuing responsibility for correcting any problems which may arise in the future as a result of the waste discharges or water applie to the property.

7. These requirements will be reviewed and revised as necessary at such time as the State Department of Health adopts criteri for the use of sewage sludge.

8. Before any proposed site is placed in operation, the discharge shall furnish a plan for surface drainage control to protect the site against errosion and to divert runoff around the site Such plans must be approved by the Executive Officer prior to disposal operations.

I, Raymond M. Hertel, Executive Officer, do hereby certify that the foregoing is a full. true. and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region on March 10, 1975.

Raymond M Hertel

RAYMOND M. HERTEL, Executive Officer

GENERAL PROVISIONS FOR SAMPLING AND ANALYSIS

Unless otherwise noted, all sampling, sample preservation and analyses sha be conducted in accordance with the current edition of "Standard Methods for Examination of Water and Waste Water" or by procedures approved by the Executive Officer.

All analyses shall be performed in a laboratory approved by the Executive Officer.

REPORTING

Semiannual reports shall be submitted to the Board, beginning with the second half of 1975. If no wastes were deposited during the reporting period the report shall so state.

East report shall contain the following information with respect to the reporting period:

1. Total volume of wastes discharged during the reporting period, and average monthly discharge in gallons including the origin, hauler date of hauling and volume of each shipment.

2. A scaled map showing the areas of the site where the above wastes were applied during the reporting period, including the quantity (gallons per acre per day) applied per each area and the location and designation of selected groundwater sampling wells.

3. A certification that all wastes deposited were in compliance with the Board's requirements and that no wastes have been deposited outside of the boundaries of the site as specified in the Board's requirements.

4. The results of groundwater monitoring obtained during the report period, including groundwater level of monitored wells.

The first monitoring report is due by July 15, 1975, and shall include the results of all annual and semiannual monitoring specified above.

In reporting the monitoring data, the discharger shall arrange the data in a tablular form so that the dates, constituents, concentrations and other information are readily discernible.

Monitoring and Reporti Program
County Sanitation Districts of
Los Angeles County and Newhall
Land and Farming Company

GENERAL PROVISIONS FOR REPORTING

If Board requirements are not met, a statement shall be submitted of the actions undertaken or proposed which will bring the operation into full compliance with requirements at the earliest time and submit a timetable for cleanup and/or correction.

By January 30 of each year, beginning in 1977, the discharger shall submit an annual report to the regional board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the waste discharge requireme

Each report shall contain the following completed declaration:

"I declare under penalty of perjury that the foregoing is true and correct.

Executed on the _____ day of _____ at _____.

_____(Signature)

_____(Title)"

These records and reports are public documents and shall be made available for inspection during business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

Ordered by Raymond M. Her
RAYMOND M. HERTEL
Executive Officer

March 10, 1975

CALIFORNIA REGIONAL TER QUALITY CONTROL BOAR LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM

FOR

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY
NEWHALL LAND AND FARMING COMPANY
(File 73-62)

MONITORING AND REPORTING

GROUNDWATER MONITORING

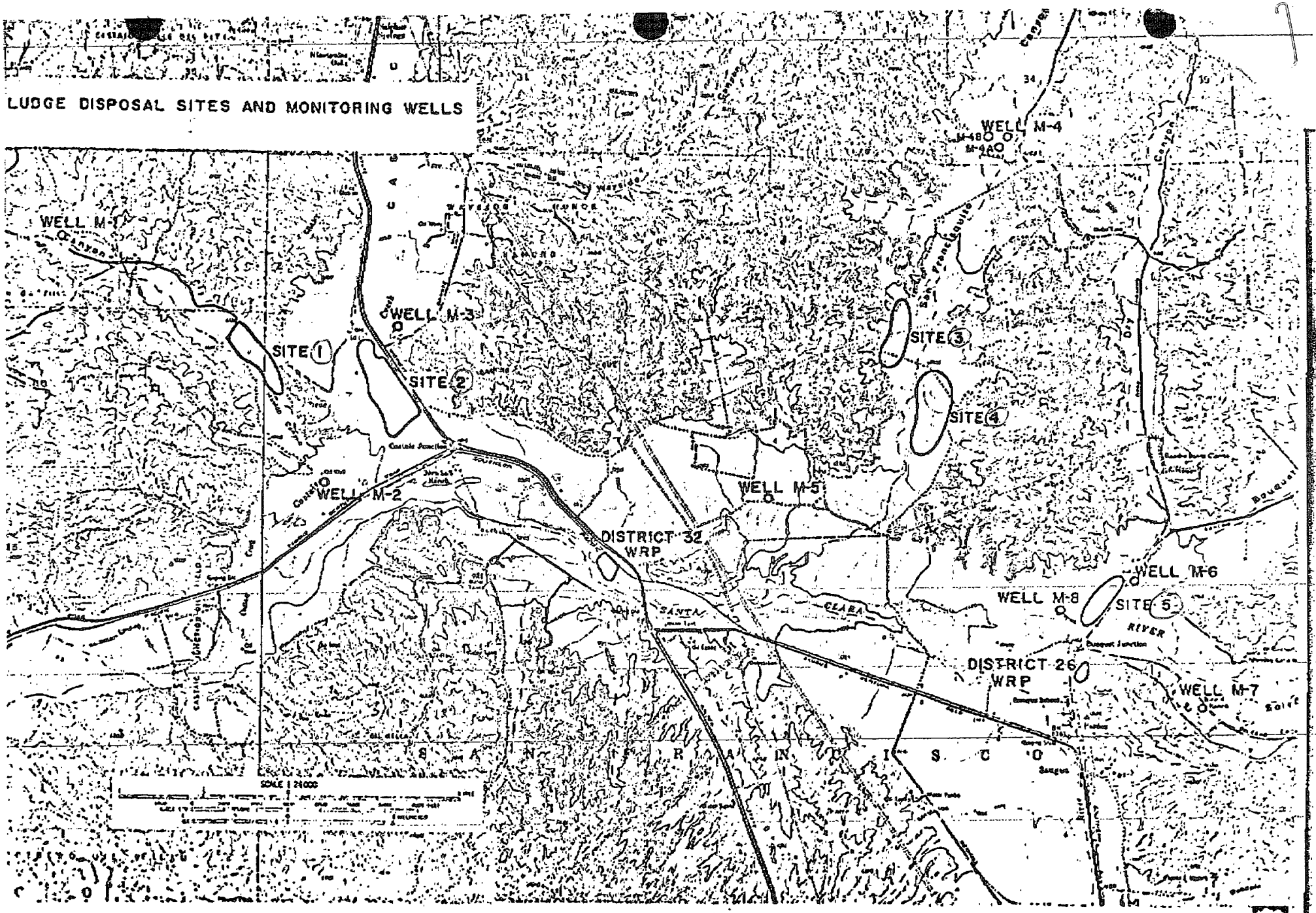
The discharger shall establish a suitable and accessible water well downgradient from each disposal site used as an underground receiving water monitoring station. In addition to the above, at least one control well shall be established upstream from all disposal sites. The selected wells are subject to the approval of the Executive Officer.

The following shall constitute the groundwater monitoring program:

Parameter	Units	Frequency
Total dissolved solids[1/]	mg/l	semiannually
Chloride	mg/l	semiannually
Sulfate	mg/l	semiannually
Electrical conductivity	u mhos/cm	semiannually
pH	pH units	semiannually
Nitrate nitrogen	mg/l	semiannually
Chemical oxygen demand	mg/l	semiannually
Boron	mg/l	annually
Lead	mg/l	annually
Cadmium	mg/l	annually
Total chromium	mg/l	annually
Copper	mg/l	annually
Nickel	mg/l	annually
Silver	mg/l	annually
Zinc	mg/l	annually
Mercury	mg/l	annually
Arsenic	mg/l	annually
Phenols (as C_6H_5OH)	mg/l	annually
Detergents (as MBAS)	mg/l	annually
Oil and grease[2/]	mg/l	annually
Chlorinated hydrocarbons	mg/l	semiannually

1/ By glass fiber filtration with evaporation at 180°C. Reference: Methods for Chemical Analysis of Water and Wastes, 1971, Environmental Protection Agency (EPA Methods), p. 275.

2/ By the trichlorotrifluoroethane extraction method.



→REIMERS←

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P.02

County Sanitation Districts

of

Los Angeles County

DISTRICTS 26/32 SLUDGE DISPOSAL STUDY

PROGRESS REPORT NO. 1

John D. Parkhurst
Chief Engineer and General Manager

1955 Workman Mill Road
Whittier, California 90601

September 1977

II

PRESENT SLUDGE DISPOSAL PRACTICE AND PROGRESS REPORT ON THE SLUDGE STUDY

A. History

Land disposal of liquid digested sludge has been the disposal method of choice since the Saugus-Newhall and Valencia WRP's were placed into operation during the latter part of 1962 and 1966, respectively. The Sanitation Districts have six possible disposal sites, shown in Figure 1, for spreading sludge from the Saugus-Newhall and Valencia WRP's. Sludge is hauled from both treatment plants to the disposal sites using a combination of Sanitation Districts' vehicles and personnel, and a private hauler (Reagen Vacuum Truck Service). The sludge is emptied from the tank truck while the truck is moving and subsequently turned into the soil by a tractor-drawn harrow. The sites, of about 25 to 60 acres each, include four no longer in use, one presently in use, and one which has not been used. They are all located on the flood plains of the Santa Clara River and three tributary canyons: San Francisquito, Hasley, and Castaic Canyons. The sites are discussed below in essentially chronological order of use.

Site 5 (25 acres at the junction of Bouquet Canyon and Santa Clarita Valley, northwest of Bouquet Junction) and portions of land northeast of Bouquet Junction between Soledad Canyon Road and the Santa Clara River were used for sludge spreading operations during the early years of Saugus-Newhall treatment plant operation. The initial treatment facility was a 0.25 mgd extended aeration plant which was expanded to 1.0, 1.5, and 5.0 mgd during the years 1963, 1965, and 1967, respectively. Because the Saugus-Newhall WRP utilized extended aeration and experienced average wastewater flows less than half of design capacity, no significant quantities of sludge were spread during this period.

Site 6 (60 acres in the Santa Clarita Valley) was used for several years but is not now in use. It was commonly called the Forneris site after the individual who farmed it. In the fall of 1973, Newhall Land and Farming Company, which owns the site, requested the Sanitation Districts to cease operation on the Forneris site when odor complaints were received from nearby commercial enterprises. Operations were transferred to Site 1.

Site 1 (37 acres in Hasley Canyon) was used for only three months, from January-March 1974. Newhall Land and Farming Company leased the land to a seed company and requested the Districts to abandon use of Hasley Canyon and transfer operations to San Francisquito Canyon.

Site 4 (43 acres in San Francisquito Canyon) was used for sludge disposal from April through September 1974. The operation was then shifted to Site 3 (27 acres in San Francisquito Canyon). During the period October 1974 to October 1975, the entire quantity of sludge from the Saugus-Newhall and Valencia WRP's was disposed of at Site 3. The sludge loading rate during this period was approximately 45 dry tons/acre/year (based on 2 percent solids content in digested sludge).

In the period October 1975 to present, the sludges have been applied to Site 4 at a rate of approximatey 25 tons/acre/year. Sludge spreading operations continued without cost to the Sanitation Districts until a formal lease arrangement was drawn up in August 1976. This permits the Districts to continue spreading operations at Sites 3 and 4 for five years from that date. After August 1981, the lease is to continue in force from year to year with a 180-day notice required for cancellation prior to the end of the current year.

Site 2 (60 acres at the junction of Castaic Valley and Santa Clara Valley) was identified as an alternative to Sites 3 and 4 for rainy periods when more time is needed for allowing equipment to reenter the site. The site has never been used and may never be used because it is near a developed area.

B. Sludge Characterization

Characterization of the disgested sludge is the first step in a quantitative approach to the sludge disposal problem. Table 0 summarizes the quantities of sludge currently being produced at the Saugus-Newhall and Valencia WRP's. In order to characterize the digested sludges, samples were collected during November 1976 and April 1977, and submitted to the Districts' San Jose Creek Water Quality Laboratory for analyses of physical properties, nitrogen, phosphorous, and heavy metals content. During the November sampling period each sample was a daily composite of grab samples from each truckload of sludge hauled to the spreading site from the respective plants. In April 1977, samples were taken of the raw sludge as well as the float from the air flotation unit and the subnatant of the small and large digester systems in order to show more clearly the sources of nitrogen in the sludge hauled from the respective plants.

The amount of digested waste activated sludge solids (W.A.S.) hauled to the sludge disposal sites was approximately 55 percent of the total solids hauled from the Saugus-Newhall WRP during November 1976. At the Valencia WRP during the same period, the amount of waste activated sludge solids fed to the mixed digestion system ranged from 23.6 to 93.7 percent of the total solids with an average blend of 70.0 percent W.A.S.

TABLE O

Sludge Quantities Produced at WRP, 1977

	Saugus-Newhall	Valencia
Average Flow, mgd	3.1	2.0
Total Sludge,		
. dry tons/day	2.6	1.3
. wet tons/day	103	59
. % solids	2.5	2.3
W.A.S.		
. dry tons/day	1.4	1.5
. wet tons/day	35	40
. % solids	4.0	3.7

Table I is a summary of the data obtained from analyses of Saugus-Newhall and Valencia digested sludge samples during the November 1976 sample period; Table II compares the April nutrient data with November 1976 data. In general, analysis of the data indicates that both sludges contain a relatively high fraction of nutrients and low levels of toxic constituents. A more specific discussion of the results follows.

1. Nutrient Concentrations

Analysis of data from both plants reveals characteristics typical of sludges from municipal sources with little industrial waste input. In particular, total nitrogen and phosphate concentrations are higher than or equal to most sludges. During November 1976 the total nitrogen was 9.5 percent (as N) of dry sludge solids at each plant; the total phosphate was 2.2 percent (as P) at Saugus-Newhall WRP, and 3.1 percent (as P) at Valencia WRP. By comparison sludge produced by the Districts' main treatment plant (JWPCP) is low in nitrogen, containing 5 percent total nitrogen (dry weight basis) for digested primary sludge, 6 percent for W.A.S., and only 1 percent for compost.[1] Samples of digested sludge collected during April 1977, at the Saugus-Newhall and Valencia WRP's showed a consistently lower total nitrogen content (8.6 to 8.8 percent) than the previous samples, although they were close enough to be in the same range. However, total phosphate concentrations of digested sludge samples obtained at the Valencia WRP were even higher than those obtained during the November sampling period (3.5 percent as P compared to 3.1 percent). Samples of thickened W.A.S. contained almost twice as much total nitrogen on a dry weight basis (7.6 and 8.5 percent, respectively) as primary sludge (4.9 and 4.3 percent) at the two plants. The higher concentrations of total nitrogen in waste activated sludges relative to primary sludges is typical.[2] In general, the sludges have nitrogen concentrations comparable to those in some materials marketed as fertilizer and much more than sludges marketed as soil amendments.

2. Trace Constituent Concentrations

The heavy metal concentrations are contained in Table I. These concentrations are all low relative to typical digested sludges.[3]

1. Lo, M.P., Haug, T., and Davis, R., "Municipal Sludge Characterization : Los Angeles and Orange Counties, CA," LA/OMA Project Technical Report No. 3, August 1977.
2. WPCF Manual of Practice No. 2, "Utilization of Municipal Wastewater Sludge," 1971.
3. Keeney, D.R., Lee, K.W., and Walsh, L.M., "Guidelines for the Application of Wastewater Sludge to Agricultural Land in Wisconsin," Technical Bulletin No. 88, Department of Natural Resources, Madison, Wisconsin, 1975.

TABLE I

Districts 26 & 32 Sludge Characterization

Summary of Digested Sludge Composites

November, 1976

Constituent	District 26 - Saugus		District 32 - Valencia	
	Averages of 5 daily composites[1] Concentration as mg/kg dry sludge		Averages of 6 daily composites[1] Concentration as mg/kg dry sludge	
	Average	Range	Average	Range
pH - units	6.94	6.82-7.03	7.77	7.12-8.61
Total Solids-%	2.50	2.28 -3.04	2.25	1.95 -2.43
NO_3-N	3.7	3.3-4.4	4.5	4.1-5.1
NH_3-N	19,840	14720-22270	39,550	36260-47980
Organic N	74,780	71770-79730	55,600	52940-60960
PO_4-Total	57,850(4)	54000-60000	82,380(5)	55100-93100
Arsenic	10.3(4)	1.84-16.3	9.41(5)	4.56-11.2
Boron	127(1)	--	99.9	71.5-149
Cadmium	10.1	7.3 -12.0	11.3	9.39-13.7
Chromium	53.5	27.5-82.1	250	187-292
Copper	740	690-776	757	587-855
Lead	217	140-275	210	185-233
Mercury	0.87	0.05-4.09	10.9	6.05-17.5
Molybdenum	16.8	11.1-21.7	28.1	17.0-51.9
Nickel	52.5	43.7-73.7	28.6	21.5-32.2
Selenium	7.09(4)	5.97-8.61	11.7(5)	7.84-20.5
Silver	20.7	0.85-66.6	12.7	5.95-28.6
Zinc	2350	1940-2760	2270	1473-2670
Cd/Zn ratio %	0.43	0.32-0.51	0.50	0.35-0.93

[1]Where values are followed by a number in parentheses, the average represents the indicated number of daily composites.

FYI - Above metals concentration are not representative of current concentrations

TABLE II

Saugus-Newhall and Valencia Sludge Characterization

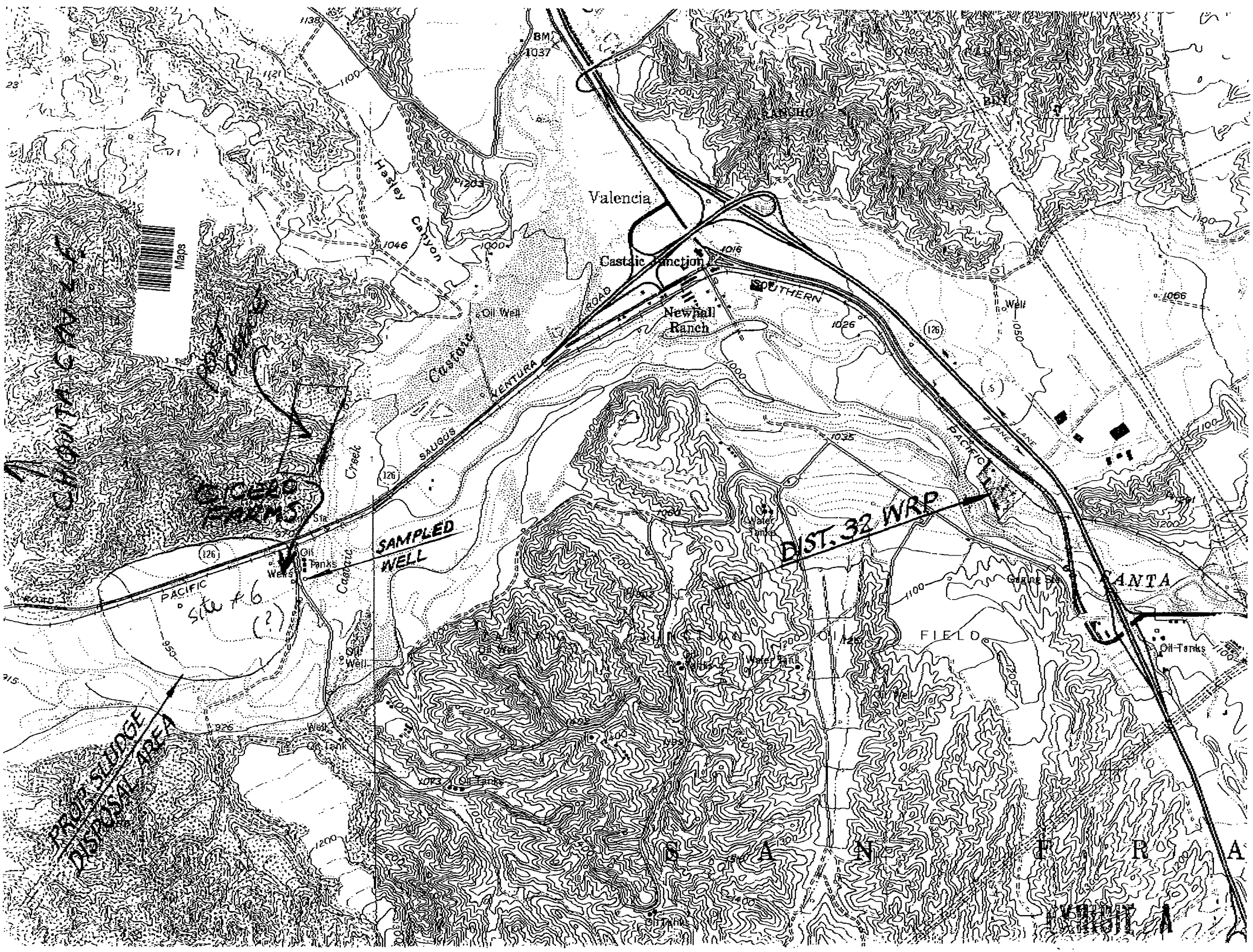
Comparison of Nutrient Concentrations in Process Sludges[1]

Source / Constituent	November Samples[2]		April Samples[3]						
			Saugus-Newhall Sludges				Valencia Sludges		
	Saugus -Newhall Digested Sludge	Valencia Digested Sludge	Primary	Waste	Small Digester	Large Digester	Primary	Waste	Digested
Total Solids-%	2.50	2.25	8.90	0.60	2.37	2.39	4.03	3.33	2.55
Ammonia-mg/kg N	19840	39550	4420	5400	10950	43520	3180	4670	41960
Organic N - mg/kg N	74780	55600	44680	70790	76640	43100	39710	80640	43920
Total Kjeldahl Nitrogen - mg/kg N	94620	95150	49100	76190	87590	86620	42890	85310	85880
Total Phosphate - mg/kg PO_4	57850	82380	23100	61860	70080	32220	36380	58460	91260

(1) Results reported as mg per Kg of dry sludge solids.

(2) Averages of 5 composites.

(3) Averages of 3 composites.



CHIQUITA CYN L.F.
PROP. SLUDGE DISPOSAL AREA
SAMPLED WELL
DIST. 32 WRP
site #6 (?)
Valencia
Castaic Junction
Newhall Ranch
Hasley Canyon
Castaic Creek
SAUGUS
VENTURA
ROAD
PACIFIC
SOUTHERN
Oil Well
Oil Tanks
Water Tank
FIELD
SANTA
S A N F R A
Maps
EXHIBIT A

COUNTY OF LOS ANGELES
Public Health

JONATHAN E. FIELDING, M.D., M.P.H.
Acting Director and Health Officer

JOHN F. SCHUNHOFF, Ph.D.
Acting Chief Deputy

Environmental Health
ARTURO AGUIRRE, R.E.H.S., M.A.
Director of Environmental Health

Bureau of Environmental Protection
Solid Waste Management Program/L.A. County LEA
KEN MURRAY, CHIEF
5050 Commerce Drive
Baldwin Park, California 91706
Tel. (626) 430-5540 Fax (626) 430-4839
www.lapublichealth.org

FAX COVER SHEET

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TO: Susan Tebo

SUBJECT: _____

FAX #: _____ **PHONE #** _____

 # OF PAGES: _____

COMMENTS:
If you can't see it clearly I will mail it to you, Thanks.

FROM THE DESK OF: Nelly Castellanos ***PHONE #*** 626 430-5569

OUR FAX NUMBERS: (626) 813-4839 OR (626) 813-3022

County Sanitation Districts

of

Los Angeles County

DISTRICTS 26/32 SLUDGE DISPOSAL STUDY

PROGRESS REPORT NO. 1

John D. Parkhurst
Chief Engineer and General Manager

1955 Workman Mill Road
Whittier, California 90601

September 1977

II

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Table I is a summary of the data obtained from analyses of Saugus-Newhall and Valencia digested sludge samples during the November 1976 sample period; Table II compares the April nutrient data with November 1976 data. In general, analysis of the data indicates that both sludges contain a relatively high fraction of nutrients and low levels of toxic constituents. A more specific discussion of the results follows.

1. Nutrient Concentrations

Analysis of data from both plants reveals characteristics typical of sludges from municipal sources with little industrial waste input. In particular, total nitrogen and phosphate concentrations are higher than or equal to most sludges. During November 1976 the total nitrogen was 9.5 percent (as N) of dry sludge solids at each plant; the total phosphate was 2.2 percent (as P) at Saugus-Newhall WRP, and 3.1 percent (as P) at Valencia WRP. By comparison sludge produced by the Districts' main treatment plant (JWPCP) is low in nitrogen, containing 5 percent total nitrogen (dry weight basis) for digested primary sludge, 6 percent for W.A.S., and only 1 percent for compost.[1] Samples of digested sludge collected during April 1977, at the Saugus-Newhall and Valencia WRP's showed a consistently lower total nitrogen content (8.6 to 8.8 percent) than the previous samples, although they were close enough to be in the same range. However, total phosphate concentrations of digested sludge samples obtained at the Valencia WRP were even higher than those obtained during the November sampling period (3.5 percent as P compared to 3.1 percent). Samples of thickened W.A.S. contained almost twice as much total nitrogen on a dry weight basis (7.6 and 8.5 percent, respectively) as primary sludge (4.9 and 4.3 percent) at the two plants. The higher concentrations of total nitrogen in waste activated sludges relative to primary sludges is typical.[2] In general, the sludges have nitrogen concentrations comparable to those in some materials marketed as fertilizer and much more than sludges marketed as soil amendments.

2. Trace Constituent Concentrations

The heavy metal concentrations are contained in Table I. These concentrations are all low relative to typical digested sludges.[3]

1. Lo, M.P., Haug, T., and Davis, R., "Municipal Sludge Characterization : Los Angeles and Orange Counties, CA," LA/OMA Project Technical Report No. 3, August 1977.
2. WPCF Manual of Practice No. 2, "Utilization of Municipal Wastewater Sludge," 1971.
3. Keeney, D.R., Lee, K.W., and Walsh, L.M., "Guidelines for the Application of Wastewater Sludge to Agricultural Land in Wisconsin," Technical Bulletin No. 88, Department of Natural Resources, Madison, Wisconsin, 1975.

TABLE 1

Districts 26 & 32 Sludge Characterization

Summary of Digested Sludge Composites

November, 1976

Constituent	District 26 - Saugus		District 32 - Valencia	
	Averages of 5 daily composites[1] Concentration as mg/kg dry sludge		Averages of 6 daily composites[1] Concentration as mg/kg dry sludge	
	Average	Range	Average	Range
pH - units	6.94	6.82-7.03	7.77	7.12-8.61
Total Solids-%	2.50	2.28 -3.04	2.25	1.95 -2.43
NO_3-N	3.7	3.3-4.4	4.5	4.1-5.1
NH_3-N	19,840	14720-22270	39,550	36260-47980
Organic N	74,780	71770-79730	55,600	52940-60960
PO_4-Total	57,850(4)	54000-60000	82,380(5)	55100-93100
Arsenic	10.3(4)	1.84-16.3	9.41(5)	4.56-11.2
Boron	127(1)	--	99.9	71.5-149
Cadmium	10.1	7.3 -12.0	11.3	9.39-13.7
Chromium	53.5	27.5-82.1	250	187-292
Copper	740	690-776	757	587-855
Lead	217	140-275	210	185-233
Mercury	0.87	0.05-4.09	10.9	6.05-17.5
Molybdenum	16.8	11.1-21.7	28.1	17.0-51.9
Nickel	52.5	43.7-73.7	28.6	21.5-32.2
Selenium	7.09(4)	5.97-8.61	11.7(5)	7.84-20.5
Silver	20.7	0.85-66.6	12.7	5.95-28.6
Zinc	2350	1940-2760	2270	1473-2670
Cd/Zn ratio %	0.43	0.32-0.51	0.50	0.35-0.93

[1]Where values are followed by a number in parentheses, the average represents the indicated number of daily composites.

FYI - Above metals concentrations are not representative of current concentrations

TABLE II

Saugus-Newhall and Valencia Sludge Characterization

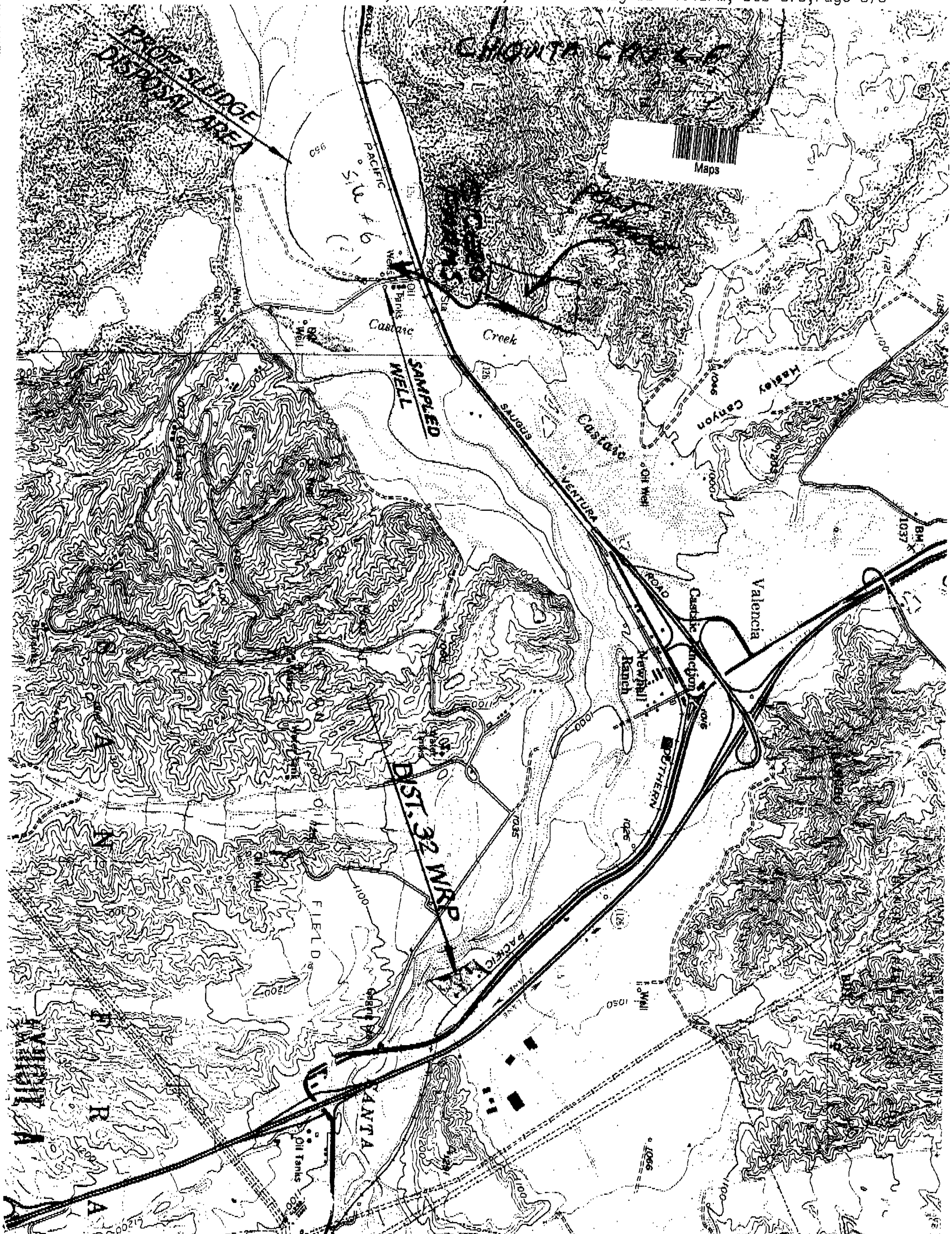
Comparison of Nutrient Concentrations in Process Sludges[1]

Source / Constituent	November Samples[2]		April Samples[3]						
			Saugus-Newhall Sludges				Valencia Sludges		
	Saugus -Newhall Digested Sludge	Valencia Digested Sludge	Primary	Waste	Small Digester	Large Digester	Primary	Waste	Digest
Total Solids-%	2.50	2.25	8.90	0.60	2.37	2.39	4.03	3.33	2.55
Ammonia-mg/kg N	19840	39550	4420	5400	10950	43520	3180	4670	41960
Organic N - mg/kg N	74780	55600	44680	70790	76640	43100	39710	80640	43920
Total Kjeldahl Nitrogen - mg/kg N	94620	95150	49100	76190	87590	86620	42890	85310	85880
Total Phosphate - mg/kg PO_4	57850	82380	23100	61860	70080	32220	36380	58460	91260

(1) Results reported as mg per Kg of dry sludge solids.

(2) Averages of 5 composites.

(3) Averages of 3 composites.


PROP. SLUDGE DISPOSAL AREA
SAMPLED WELL
DIST. 32 WRP
PACIFIC
Castaic
Creek
Hasley Canyon
SAUGUS
VENTURA
ROAD
Castaic
Oil Well
Valencia
Castaic Junction
Newhall Ranch
SOUTHERN
FIELD
Oil Tanks
SANTA
Maps

COUNTY OF LOS ANGELES
DEPARTMENT OF HEALTH SERVICES
Public Health

BRUCE A. CHERNOF, M.D.
Acting Director and Chief Medical Officer
DEPARTMENT OF HEALTH SERVICES

JONATHAN E. FIELDING, M.D., M.P.H.
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Office of Public Health Operations
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www.lapublichealth.org

April 14, 2006

Cam Noltemeyer
Committee for Safe Schools
camandjerryn@netzero.net

Dear Ms. Noltemeyer:

The Los Angeles County Department of Health Services (DHS) was contacted by Supervisor Michael D. Antonovich's office regarding your recent concerns about the health and safety of students at Rio Norte Junior High School and future residents of the West Creek Development. Although the development is near land that was previously used for municipal sewage disposal, we do not believe that the current grading and building poses a health hazard to students at Rio Norte Junior High School or the future residents of the West Creek Development.

This Department's Toxics Epidemiology Program assists with identifying, controlling, and preventing health effects associated with toxic agents throughout Los Angeles County. In reviewing your concerns, the Toxics Epidemiology Program gathered background information and corresponded with representatives from: the Los Angeles County Sanitation District, this Department's Environmental Health, the Los Angeles County's Department of Public Works, the State Department of Toxic Substances Control, Newhall Land, and William S. Hart Union High School District. We reviewed the attached documents including the original 1976 contract/ lease for sewage disposal between Newhall Land and the Sanitation District and a letter from Valencia Company confirming termination of the sewage disposal contract on November 1, 1986.

Staff also reviewed a Complaint Report that was prepared at your request by an inspector from the Environmental Health Water, Sewage and Subdivision Program after a site visit on March 1, 2006. This was a site visit at the open area south and southwest of Rio Norte Junior High School (near the lower athletic field). This site visit was followed by an e-mail response that was sent to you on March 14, 2006, by Dennis Hunter of the Department of Public Works. We reviewed letters and files from 2000 and 2001 pertaining to the Toxic Substance Control's review of the 2000 Preliminary Endangerment Assessment (PEA) for Rio Norte Junior High School. Finally, we reviewed pertinent sections of the 1999 West Creek Draft Environmental Impact Report (EIR) provided by Newhall Land and a report dated February 16, 1998, entitled Investigation and Analysis of Sewage Disposal Site No. 3 completed by R.T. Frankian and Associates.

The most compelling factor demonstrating that there is no public health risk, is the significant time that has passed since it was last utilized as a municipal sewage disposal site. This land has not been used for sludge disposal since 1986. Consequently, any potential biological hazards at that time, would not be hazardous today.

In addition, the following factors further support the lack of public health risk:

- This former site for municipal sewage disposal existed on 27 acres of land. These 27 acres are located outside of the development envelope for the proposed West Creek Development. Thus, none of the land formerly used for sewage disposal is currently undergoing grading or building.

- Soil testing at the former disposal site was performed by a State certified laboratory in 1997. Laboratory results confirmed that the soil presented minimal risk to human health. Thus, the area was deemed safe for development and construction.

- According to Toxics Substance Control's site assessment before Rio Norte school construction, the sewage disposal site was "at least 600 feet down-gradient from the school" and "it does not appear that the sludge-spreading site has impacted the proposed school site." Therefore, students at the nearby school are not at risk from exposure to the soil from the former disposal site.

- Based upon the 2000 PEA conducted at Rio Norte Junior High School, Toxics Substance Control determined that "neither an actual or potential release of hazardous material indicated at the site pose a threat to human health" and "no further action is required with respect to investigation and remediation of hazardous substances in surface and subsurface soil at the site."

- Per the William Hart Union High School District, an odor detected at the lower athletic fields is due to problems with the current irrigation system, and not due to soil at the former sewage disposal site. We were assured that school facilities' personnel are currently working on a solution to address this situation.

- According to DHS' Environmental Health Program, there is no visible evidence of sewage, fecal matter and/or sewage sludge, and there are no observable sanitation violations at the open area south and southwest of the school near the athletic fields.

Thank you for sharing these health and safety concerns. If you have any questions or need additional information regarding our findings, please call Paul Simon, M.D., Director, Health Assessment and Epidemiology, at (213) 240-7785.

Sincerely,

John F. Schunhoff, Ph.D.
Chief of Operations, Public Health

Attachments

c: Michael D. Antonovich, Supervisor, Fifth Supervisorial District
Dennis Hunter, Los Angeles County Department of Public Works
Mike Sullivan, Los Angeles County Sanitation Districts
Richard Wagener, Los Angeles County Environmental Health
Becky Valenti, Los Angeles County Environmental Health
Javier Hinojosa, Department of Toxics Substances Control
Mike Otavka, William S. Hart Union High School District
Glenn Adamick, Vice President, Forward Planning and Entitlements, Newhall Land

Third Party Review of Environmental Documents

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August 30, 2006

File No.: 106190

Gatzke Dillon & Ballance LLP
c/o Rachel Cook
1525 Faraday Avenue, Suite 150
Carlsbad, California 92008

REFERENCE: FORMER SLUDGE DISPOSAL SITE 6
LANDMARK VILLAGE
VALENCIA, CALIFORNIA

SUBJECT: THIRD-PARTY REVIEW OF ENVIRONMENTAL DOCUMENTS

Dear Ms. Cook:

BA Environmental, a division of Building Analytics, is pleased to submit this review of previous environmental documents, to **Gatzke Dillon & Ballance LLP.** According to previous environmental documents, a portion of the proposed Landmark Village site was reported to formerly be used for sludge disposal.

The purpose of this engagement is to provide third-party review of existing environmental and related documents, and to determine if there is a potential for significant environmental impact to the subject site.

The scope of work is defined as follows:

REVIEW OF EXISTING ENVIRONMENTAL ASSESSMENT REPORTS

1. Conducted a desktop review of existing environmental reports provided by Client. Reports were reviewed in the order provided.

2. Provided a brief letter report for the subject property, outlining the environmental condition of the subject site due to past sludge disposal activities.

3. Provided recommendations regarding the past sludge disposal activities on the subject site.

4. The letter report shall be based upon information provided by Gatzke Dillon & Ballance LLP. BA Environmental makes no guarantee regarding the accuracy or completeness of information provided to us by others.

Note: Consultant shall use its best efforts to perform its services and to make recommendations consistent with standard engineering practices of the environmental industry. This contract is for "Third Party" review services only. Consultant has not communicated with the regulatory agencies, developed the scope of services or provided supervision in performing same. As such, Consultant makes no warranty, either expressed or implied, and accepts no responsibility in connection with the environmental work previously conducted.

REVIEW OF PREVIOUS ENVIRONMENTAL REPORT

County Sanitation Districts of Los Angeles County (LACSD), Districts 26/32 Sludge Disposal Study Progress Report No. 1, dated September 1977. According to the 1977 document prepared by the LACSD, land disposal for liquid digested sludge has been the method of choice for disposal by the Saugus-Newhall and Valencia Wastewater Reclamation Plants (WRPs) since their coming online in 1962 and 1966, respectively. The subject site is reported to be one of six disposal sites used by the Saugus-Newhall and Valencia WRPs for sludge disposal. The subject site was identified as Disposal Site #6, also known as the Forneris Site after the individual who farmed it. The site consisted of 60 acres of agricultural land which was owned by the Newhall Land and Farming Company (NHL&F). According to the LACSD document, the standard practice was to haul the sludge from both WRPs using both county trucks and a private hauler. The sludge was emptied from the tank truck while the truck was moving. Subsequently, the sludge was turned into the soil by a tractor-pulled harrow. This disposal practice continued until the fall of 1973, when NHL&F requested that the LACSD cease disposal operations on Site #6 (Forneris Site). These disposal operations were transferred to Site #1. A map (labeled Exhibit A) which was included with the report revealed that the former Site #6 (Forneris Site) occupied the approximate eastern 25% of the proposed Landmark Village development.

According to the LACSD document, samples of the digested sludge from both WRPs were collected in November of 1976 and April of 1977. The samples were collected and analyzed to characterize the digested sludge for disposal. Daily samples were composites of samples collected from each truck load from their respective WRPs. In November of 1976, 5 daily composite sample results were averaged, while in April of 1977, 6 daily composite sample results were averaged. The averaged samples revealed higher than average concentrations of nitrogen and phosphorous. The LACSD also indicated that the heavy metal concentrations were low relative to typical digested sludges. The LACSD concluded that the nutrient levels in the sludges were high, while the levels of toxic constituents were low.

CONCLUSIONS

The eastern 25% of the proposed Landmark Village site was used in the 1960s and early 1970s for the disposal of treated municipal sewage sludge. Since the cessation of the disposal operations in 1973, the disposal site has been used for agricultural cropland. These agricultural activities would have included frequent disking and turning of the soils. This frequent turning of the soils would have aerated the shallow soils beneath the subject site. Based on the length of time since the last disposal event and the frequent

turning of the soils in the former disposal site #6, it is highly unlikely that any pathogens remain in the soil from the former sludge disposal activities. In addition, due to the frequent turning of the soil, the usage of the land for agricultural crops and the natural leaching of the soils by rainwater percolation, it is highly unlikely that any of the original concentrations of nitrates, ammonia, phosphates or heavy metals in the sludges deposited in the soil due to sludge disposal remain. In addition, Newhall Land has informed BA Environmental that the current grade of the land for the Landmark Village site is going to be brought up a minimum of 10 feet. This will place at least 10 feet of fill between the planned grade and the soil in which the sludge was deposited. Based on the additional 10 feet of fill on top of the former sludge disposal site, it is highly unlikely that humans could come into contact with the soil from the former sludge disposal site. Therefore, it is BA Environmental's opinion that the former sludge disposal site poses a very low threat to human health, and does not pose any significant environmental issues.

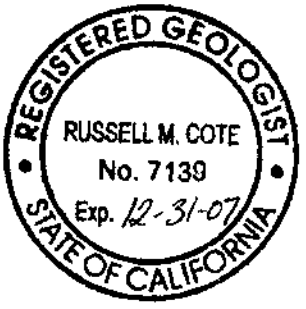
RECOMMENDATIONS

Based on the length of time that has passed since the subject site was used for treated municipal sewage sludge, the covering of the subject site with at least 10 feet of fill material, and the very low threat to human health, it is BA Environmental's opinion that no further investigations or remedial activities are warranted at this time.

If you have any questions or require additional information, please contact the undersigned at (818) 841-2575.

Respectfully submitted,
BA ENVIRONMENTAL

Russell M. Cote, M.Sc., R.G. No. 7139
Manager, Environmental Services



Potable and Reclaimed Water Tank Site

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DRAFT

October 3, 2005

File No.: 104012

Mr. Keith Herren
Newhall Land
23823 Valencia Boulevard
Valencia, California 91355

Reference: Potable and Reclaimed Water Tank Site
Associated with the Proposed Landmark Village Development
Tentative Tract Map No. 53108, State Highway 126
Newhall Ranch, California

Subject: Addendum Letter
Phase I Environmental Site Assessment

Dear Mr. Herren:

BA Environmental is pleased to submit this Addendum to the Phase I Environmental Site Assessment (ESA) conducted at the subject site on May 5, 2004. This addendum covers the proposed Potable and Reclaimed Water Tank Site associated with the proposed Landmark Village Development (formerly known as the River Village Development). This addendum builds on information obtained during the May 2004 Phase I ESA, and includes a review of historical documents, a site reconnaissance, a review of local regulatory agencies and a review of pertinent government environmental databases. Historical documentation includes historical aerial photographs, historical topographic maps, city directories and building department records. Copies of historical aerial photographs, historical topographic maps and copy of the governmental database report is included as an attachment to this addendum letter.

Site Location

The subject property consists of vacant land for proposed water tanks and narrow strips (approximately 35' to 140' wide) of land for proposed utility corridors. The subject site is located in the southern portion of what is known as the proposed Chiquito Estates development, and along the western edge of what is known as the Chiquito Canyon Development. These developments are located along the western foot of Chiquito Canyon (see Figure 2). Easements for the water lines also continue along Highway 126 to the west toward the proposed Water Reclamation Plant and into the Landmark Village Development. These easements are discussed in an addendum letter for the May 2004 Phase I ESA (BA #104012) for the Landmark Village Development.

Site History and Reconnaissance

The majority of the subject site is located in the southern portion of what is known as the proposed Chiquito Estates development, and along the western edge of what is known as the Chiquito Canyon Development. In 2005, BA Environmental conducted a Phase I ESA (BA #105034) on several developments which included the Chiquito Canyon and Chiquito Estates Developments. Although part of the Chiquito Canyon and Chiquito Estates Developments, the proposed Potable and Reclaimed Water Tank Site is associated with the proposed Landmark Village Development. Two easements for the water lines also along Highway 126 to the west toward the proposed Water Reclamation Plant, and to the south and east into the Landmark Village Development are discussed in an addendum letter for the May 2004 Phase I ESA (BA #104012) for the Landmark Village Development.

Historically, the tanks locations are located in the eastern-most portion of the Del Valle Oil and Gas Field. Both tank locations were occupied by vacant hills covered by native vegetation from the early 1900s through the present day. By 1952, a small dirt road traversed the Zone 1 Tank Site. The water line easements for both tank sites traversed vacant undeveloped land with some dirt roads crossing them, from prior to the 1950s through the present. The easement along the western side of Chiquito Canyon was vacant undeveloped land until some time in the 1940s. In the 1940s, Chiquito Canyon Road was constructed along the proposed easement.

Adjacent properties to the tank locations included vacant undeveloped land to the north, south, east and west. Oil wells were formerly located in the site vicinity to the west, east and south.

On the day of the site reconnaissance, the two proposed tank sites were observed to be occupied by vacant undeveloped land, with a dirt road traversing the Zone 1 Tank Site. The proposed Zone 1 Tank Site (Parcel 372) consists of approximately 3.86 acres of land. Two tanks are proposed for this site, 3.0 MG water tanks and a 1.7 MG reclaimed water tank. The easement leading from these tanks to the main easement in Chiquito Canyon traversed vacant undeveloped land. Two former oil well locations were observed just north of the easement. In addition, a geotechnical boring location was observed to the north of the easement. The easement was also observed to be located near a dirt access road running along an intermittent stream channel. Along this road was an area where trash was formerly being dumped. Various old rusty cans, bottles, and wood and metal debris were observed. No evidence of distressed vegetation or soil staining was observed on the Zone 1 Tank Site or on its water line easement. In addition, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this portion of the subject site.

The proposed Zone 1A Tank Site (Parcel 373) consists of approximately 1.24 acres of land. One tank is proposed for this site, and consists of a 1.1 MG water tank. The easement leading from this tank to the main easement in Chiquito Canyon traversed vacant undeveloped land and along a small dirt road. An area of oil staining was observed just north of the easement. The easement was also observed to run along a small dirt access road running along an intermittent stream channel. Along this road was

an area where trash was formerly being dumped. Various old rusty cans, bottles, and wood and metal debris were observed. No evidence of distressed vegetation or soil staining was observed on the Zone 1 Tank Site or on its water line easement. In addition, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this portion of the subject site.

The water line easement along the western edge of Chiquito Canyon is occupied by Chiquito Canyon Road. A Unocal Pipeline was observed to run beneath Chiquito Canyon Road. Several other pipelines, including Mobil Oil, Chevron and Shell Oil Company pipelines, cross this easement. There are no indications that these pipelines have leaked. These pipelines and any environmental issues regarding these pipelines are the responsibility of the oil company which owns and operates them. Several active and former oil wells, along with several former tank battery locations, are located near the easement to the east and west. In addition, agricultural land was observed to the east of the easement. No evidence of distressed vegetation or soil staining was observed on this water line easement. In addition, no hazardous substances, or evidence of USTs, ASTs or wastewater clarifiers were observed on this portion of the subject site.

AGENCY CONTACTS

California Department of Conservation, Division of Oil, Gas and Geothermal Resources (DOGGR)

BA Environmental contacted the office of the DOGGR regarding oil wells on the subject site. According to DOGGR, no oil wells are located on the subject site.

Los Angeles County Department of Public Works (LACDPW)

BA Environmental visited the office of the LACDPW regarding files for USTs and hazardous materials storage and usage. According to the LACDPW, no files exist for the subject properties.

State of California Regional Water Quality Control Board, Los Angeles Region (Region 9)

BA Environmental contacted the State of California Regional Water Quality Control Board, Los Angeles Region (RWQCB) regarding the subject site. According to the RWQCB, no files exist for the subject site.

GOVERNMENT RECORDS REVIEW

Regulatory compliance is a primary element of an ESA. Failure to comply with governmental regulations can result in fines, and can expose businesses or individuals to liabilities from which the law would otherwise shield them. The presence of hazardous wastes or hazardous materials, on-site or at neighboring sites, may present certain liabilities. Environmental Data Resources, Inc. (EDR) provided the most recent

information regarding the hazardous materials sites identified below.[1] Sites of potential environmental concern are described at the end of this section in Table 1. It should be noted that the search radii for each database has been extended beyond ASTM requirements. The referenced search radii below are minimum distances. The actual search distances are much greater.

Table 1
GOVERNMENT-LISTED DATABASES
IDENTIFIED SITES OF ENVIRONMENTAL CONCERN

Site of Concern And Address	Distance and Direction from Subject Property	Databases	Regulatory Status	Potential Environmental Impact
27900 Chiquito Canyon Road	Chiquito Canyon Easement	CHMIRS	Release of unknown compound 2/23/89, date completed 2/23/89	Low The exact location of this release is unknown, although it is not likely that it is on the subject site.
Newhall Land 3003 Walnut Orchard Rd	500 feet West of Chiquito Canyon Easement (cross-gradient)	LUST Cortese	Release of gasoline to soil only, case closed 6/27/96	Low
LA Cty Fire Dept/Delval Trg Ctr/Unocal - Lincoln Lease 28101 Chiquito Canyon Road	2,000 feet South of Tank sites and west of Chiquito Canyon Easement (cross and down-gradient)	HAZNET LA Co. Site Mitigation LA Co. HMS LUST Cortese AST CA SLIC CHMIRS	Disposal of waste oil, Release of hydrocarbon to soil only, site undergoing remediation, release of crude oil due to damaged pipeline	Low

1 The EDR Radius Map Report No. 01376454.1r, March 15, 2005.

Site of Concern And Address	Distance and Direction from Subject Property	Databases	Regulatory Status	Potential Environmental Impact
Laidlaw Waste Systems Inc/Chiquita Canyon Landfill/Universal By-Products-Valencia 29201 W Henry Mayo Dr	2,600 feet East of Chiquito Canyon Easement (cross-gradient)	LA CO HMS WMUDS/ SWAT UST RCRA-SQG FINDS CA FID HAZNET SWF/LF WMUDS/ SWAT CA WDS EMI	No violations, not on LUST list	Low

The subject property is not listed on any of the databases searched. One site is located very close to the subject site. This site, 27900 Chiquito Canyon Road, is reported to be a CHMIRS site. The compound is unknown. Although the exact location of the release is unknown, due to the narrow width of the easement, it is unlikely that this release has impacted the subject site in that area. Several adjacent sites are listed as either LUST or SLIC sites. Although there have been releases at these adjacent sites, all of the sites of concern appear to be either cross- or down-gradient. Therefore, it is BA Environmental's opinion that there is a low potential for the adjacent site to have impacted the subject site.

Based on the above data, this assessment has revealed no evidence of recognized environmental conditions in connection with the subject property, except the following:

- Portions of the subject site are located within active and inactive oil fields;
- Portions of the subject property cross or run parallel to petroleum pipelines; and
- A portion of the waterline easement associated with the Zone 1A Tank Site is adjacent to an old trash dumping site.

If you have questions regarding this project or report, please contact us at (818) 500-1898.

Respectfully submitted,
BA ENVIRONMENTAL

Russell M. Cote, M.Sc., R.G. No. 7139
Manager, Environmental Services

Attachments: Figures
Governmental Database Report

PHASE II SUBSURFACE INVESTIGATION

OF

LANDMARK SCHOOL SITE
VALENCIA, CALIFORNIA

FOR

GATZKE DILLON & BALANCE LLP

BA ENVIRONMENTAL
A Division of Building Analytics

File No. 106166
September 2006

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September 1, 2006

File No.: 106166

Ms. Rachel Cook
Gatzke Dillon & Balance LLP
1525 Faraday Avenue, Suite 150
Carlsbad, California 92008

Reference: Landmark School Site
Valencia, California

Subject: Report
Phase II Subsurface Investigation

Dear Ms. Cook:

BA Environmental is pleased to submit this report summarizing the Phase II Subsurface Investigation activities to **Gatzke Dillon & Balance LLP**. This report is regarding the proposed 9-acre school site in the Landmark development. The Phase II Subsurface Investigation was performed in general accordance with the scope of service outlined in BA Environmental's proposal and contract dated July 25, 2006, and in accordance with the California State Department of Toxic Substance Control (DTSC) Interim Guidance for Sampling Agricultural Fields for School sites (Second revision), dated August 26, 2002.

If you have questions regarding this project or report, please contact us at (818) 841-2575.

Respectfully submitted,
BA ENVIRONMENTAL

Russell M. Cote, M.Sc., R.G. No. 7139
Manager, Environmental Services

TABLE OF CONTENTS

PHASE II SUBSURFACE INVESTIGATION
Landmark School Site
Valencia, California

INTRODUCTION

BA Environmental is pleased to submit this report summarizing the Phase II Subsurface Investigation activities to **Gatzke Dillon & Balance LLP**. This report is regarding the proposed 9-acre school site in the Landmark development. The Phase II Subsurface Investigation was performed in general accordance with the scope of service outlined in BA Environmental's proposal and contract dated July 25, 2006, and in accordance with the California State Department of Toxic Substance Control (DTSC) Interim Guidance for Sampling Agricultural Fields for School Sites (Second revision), dated August 26, 2002.

BACKGROUND

In January and February 2004, BA Environmental conducted a Phase I ESA (BA #104012) on the subject site. The Phase I ESA was conducted on the proposed 280-acre River Village, of which the subject site is a part. The subject site itself consists of approximately 9 acres of this larger development, located in the north-central portion of the development. During the site reconnaissance, it was observed that the subject property is occupied by agricultural land. Historical documents revealed that the subject site was agricultural land from the 1940s until the 1960s. In the 1960s, the subject site was part of the Indian Hills Motorcycle Park. The subject site continued to be part of the Indian Hills Motorcycle Park until the 1980s, when it was again used as agricultural land. Presently, the subject site continues to be used for agricultural land. Agricultural usages include dry farming of wheat, and vegetable crops such as green beans, beets and carrots. An addendum to Consultant's Phase I ESA prepared on May 6, 2004 for an adjacent property indicated the larger River Village development has been farmed by Newhall Land and Farming, Starr Produce, and Cilantro Farms. According to County of Los Angeles Agricultural Commissioner, Department of Pesticide Regulation, no violations existed for any of these companies.

SITE LOCATION AND IMPROVEMENTS

The subject property is a 9-acre portion of a larger parcel of land located south of Henry Mayo Drive (Highway 126), north of the Santa Clara River, east of the intersection of Henry Mayo Drive (Highway 126) and Chiquito Canyon Road, and west of Castaic Creek, which is referred to as River Village, Tentative Tract Map No. 53108, Highway 126, in Newhall Ranch, California. This 9-acre portion of the larger parcel is a proposed school site. The subject property may be reached from the Interstate Freeway 5 (Golden State Freeway), exit Highway 126. Proceed west approximately 4 miles to Walcott Way. The subject site is located on the south side of Highway 126, approximately 1,100 feet west of the intersection of Walcott Way and Highway 126, and approximately 200 feet south of Highway 126. Primary vehicular access to the subject site is from private driveways to the north, east, west and south.

The subject property is a 9-acre portion of a larger 280-acre parcel of land that has been graded and utilized for agricultural production. Several dirt roads traverse the subject site. Currently the subject site is vacant and left to fallow.

Adjacent land use to the subject site includes agricultural land and undeveloped land to the north, east, south and west (Figures 1 and 2).

GEOLOGY AND HYDROGEOLOGY

The subject site is located on the alluvial plain of the Santa Clara River and tributaries. Underlying sediments consist of alluvial and flood plain deposits of silt, sands and gravels. Sand is medium to coarse grained, and cobbles are found to increase in size with depth. The Plio-Pleistocene Saugus Formation, a thin to moderately thick bedded non-marine deposit, ranging from reddish-brown siltstones, silty sandstones to conglomerates, underlies the Quaternary alluvial sediments and outcrops in the northern and eastern portion of the subject property. The Newhall Segment of the San Gabriel Fault, which is classified as a late Quaternary fault which cuts strata of Pleistocene age, is located within 500 feet of the subject site (CDMG, 1994).

According to the County of Los Angeles, Department of Public Works, Hydraulic Conservation Division, which maintains information on groundwater depth from the county-owned wells, the closest well to the subject property, listed with their department, is located approximately 1,500 feet west of the confluence of the Santa Clara River and Castaic Creek. This well is identified as #6967, and was last measured on June 19, 2003. The data indicates that from the ground surface depth to groundwater surface was 24.3 feet, and that the ground surface elevation at the well head is 949.7 feet above mean sea level (msl). Groundwater flow direction is expected to flow to the south/southwest following topography (LACDPW, 2003). A groundwater monitoring well located approximately 200 feet north of the subject property, associated with the Chiquito Canyon Landfill, was reported to have groundwater at approximately 32 to 36 below ground surface (bgs). Groundwater monitoring wells associated with the Landmark development revealed depth to water to the south of the subject site to be 7 feet to 10 feet bgs.

OBJECTIVE AND SCOPE OF WORK

The purpose of this Phase II Subsurface Investigation was to assess whether past agricultural activities at the subject site have impacted subsurface soil conditions beneath the subject property. BA Environmental proposed to advance a maximum of 32 shallow soil borings to a maximum depth of approximately 2 to 3 feet bgs.

Soil samples were to be collected at approximately 0.5 feet bgs and 2 to 3 feet bgs. In addition, four off-site samples were to be collected from adjacent sites without a history of agricultural usage (if possible) and with similar soil types. These samples were to be collected at a depth of 0.5 feet bgs and used for background samples for metals. Sampling was to be conducted using DTSC Interim Guidance for Sampling Agricultural Fields for School Sites (Second Revision), dated August 26, 2002.

To accomplish the objectives, BA Environmental performed the following tasks:

a. Obtained all required permits prior to start of work;

b. Prepared a site-specific health and safety plan prior to initiating the field work;

c. Visited the subject property and mark the proposed probe boring locations. Subsequently, the regional utility locating center was contacted to clear the proposed boring locations for utilities;

d. Advanced 32 shallow soil borings using hand auger equipment. The 32 shallow soil borings were advanced to a maximum depth of 2 feet bgs. Borings were located on 0.5-acre or less centers, depending upon field shape and usage;

e. Soil samples were collected at approximately 0.5 feet bgs and 2 feet bgs in each shallow soil boring. In addition, 4 off-site samples were collected from adjacent sites without a history of agricultural usage (if possible) and with similar soil types. The samples from the four off-site locations were also collected at a depth of 0.5 feet bgs and 2 feet bgs and used for background samples for metals;

f. The 32 surface soil samples were composited into a total of 8 composite soil samples (4 samples per composite) in the laboratory. Only adjacent samples were composited. Only samples from areas of like crops were composited. The composited samples collected at 0.5 feet bgs were analyzed, while the 2-foot-deep samples were placed on "hold";

g. Submitted 8 composited soil samples to a State of California, Department of Health Services (DHS)-certified laboratory to be analyzed for Organo Chlorine Pesticides (OCPs) using Environmental Protection Agency (EPA) Method No. 8081A;

h. Submitted 8 composited soil samples to a State of California, DHS-certified laboratory to be analyzed for Organo Phosphorus Pesticides (OPPs) using EPA Method No. 8041;

i. Submitted 8 composited soil samples to a State of California, DHS-certified laboratory to be analyzed for Paraquat using Chevron RM8-10 method;

j. Submitted 8 composited soil samples to a State of California, DHS-certified laboratory to be analyzed for Chlorinated Herbicides (CHs) using EPA Method No. 8151;

k. Submitted 8 discrete soil samples to a State of California, DHS-certified laboratory to be analyzed for Arsenic using EPA Method No. 6010;

l. Submitted 8 discrete soil samples to a State of California, DHS-certified laboratory to be analyzed for CAM-17 Metals using EPA Method Nos. 6000/7000 series;

m. Submitted 4 discrete background soil samples to a State of California, DHS-certified laboratory to be analyzed for CAM-17 Metals using EPA Method Nos. 6000/7000 series;

n. Submitted 1 composited blind duplicate QA/QC soil sample to a State of California, DHS-certified laboratory to be analyzed for OCPs, OPPs, CHs and Paraquat using EPA Method Nos. 8081, 8041 and 8151, and Chevron RM8-10 method;

o. Submitted 1 discrete blind duplicate QA/QC soil sample to a State of California, DHS-certified laboratory to be analyzed for CAM-17 metals using EPA Method Nos. 6000/7000 series.

p. Submitted 1 equipment blank QA/QC rinsate sample to a State of California, DHS-certified laboratory to be analyzed for OCPs, OPPs, CHs, CAM-17 Metals

and Paraquat using EPA Method Nos. 8081, 8041, 8151 and 6000/7000 series, and Chevron RM8-10 method;

q. Submitted 3 temperature blanks (QA/QC samples) to a State of California, DHS-certified laboratory to be checked for sample temperature;

r. Submitted the remaining discrete deep soil samples to the laboratory, to be placed on hold pending the results of the initial soil analyses;

s. Provided all of the necessary equipment and materials to perform the required services. This equipment will include hand auger, soil sampling equipment, etc.;

t. Backfilled borings with soil cuttings in the order in which they were removed.

SOIL INVESTIGATION

Utility Clearance

Prior to drilling, BA Environmental personnel visited the site, grided off the subject site, and marked the boring locations. The local utility companies cleared the underground utilities at each boring location prior to initiation of drilling activities.

Drilling and Sampling

On August 9, 2006, BA Environmental conducted a Subsurface Investigation using 4-inch o.d. hand auger equipment. Coordination and supervision of drilling and soil sampling activities were performed by a Registered Geologist from BA Environmental.

A total of 32 shallow hand auger borings were advanced on-site. In addition, four shallow soil borings were advanced off-site in order to collect background metal samples. The shallow soil borings were advanced to a maximum depth of 2 feet bgs. Soil samples were collected from the shallow soil borings at 0.5 feet bgs and 2 feet bgs. The locations of the shallow soil borings are provide in Figure 2. Global Positioning System (GPS) coordinates for the shallow soil borings are provided in Table 1.

Upon reaching the desired depth, soil samples were collected in 4-oz. glass jars with Teflon® lined lids. Subsequent to the collection of the samples, the sample jars were labeled with the sample number, collection date and project number, placed in a cooler chilled to approximately 4° C (40° F), and retained for laboratory analyses.

Field observations of soil samples collected from all of the soil borings revealed no unusual discoloration or odors. Soils were observed to consist of silts, silty sands, sands and gravelly sands to a depth of 2 feet bgs. Groundwater was not encountered in any of the shallow soil borings.

Boring Backfill

Subsequent to the collection of soil samples from the soil borings, the borings were backfilled. The borings were backfilled with cuttings generally in the order in which they were removed. After the borings were backfilled, the surface was restored to match the surrounding surface.

DECONTAMINATION

Quality assurance/quality control (QA/QC) and decontamination procedures were performed to prevent cross contamination between the samples. Only clean sampling equipment was used for this drilling project. The soil sampling and hand auger equipment were decontaminated between sampling intervals, using a bristle brush, with Liquinox™ (an inorganic detergent) solution; this was followed by a tapwater rinse, and rinsed in a final De-ionized water rinse. The sampling and auger equipment were then dried by air prior to use. Sterilized nitrile gloves were used while obtaining the samples. The soil samples were collected in new 4-oz. glass jars supplied by the laboratory.

SAMPLE HANDLING AND TRANSPORT

All soil samples from the soil borings were placed in a cooler, chilled to approximately 4° C (40° F), and transported to Enviro Chem Inc. of Pomona, California, a State of California DHS-certified laboratory under a strict chain-of-custody which was prepared at the time of sampling.

QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

To increase the confidence levels in the data obtained, a QA/QC program was implemented. QA refers to management of actions designed to maintain precision, accuracy and completeness of the data developed from the project. QC refers to accepted formal procedures and activities specifically designed for the purpose of collecting data that are intended to be reliable and consistent for the site conditions.

The program includes formal procedures for all field activities, soil and groundwater sampling, decontamination, instrument calibration, documentation of activities and calculations, and peer review. Routine QC procedures were performed by the laboratory, and included daily calibration of instruments, percent surrogate recoveries and analyses of matrix spikes and matrix spike duplicates (laboratory reports). The laboratory reported the results to be within acceptable percent recoveries with no results exceeding the laboratory established control limits.

In addition, in accordance with the DTSC Interim Guidance for Sampling Agricultural Fields for School Sites (Second Revision), QA/QC and background soil samples were collected. These QA/QC samples included one equipment blank and one blind duplicate. In addition, four background samples for metals were collected. Three temperature blanks were prepared, one for each ice chest used to store and transport the samples to the lab. These temperature blanks were insure that the samples remained chilled.

LABORATORY RESULTS

All soil samples were submitted to Enviro-Chem Inc. of Pomona, California, a State of California, DHS certified laboratory. Thirty-two (32) shallow soil samples were composited at the laboratory in groups of four. The remaining 32 deeper soil samples were placed on "hold" pending the results of the shallower composited samples. The composited samples were analyzed for OCPs, OPPs, CHs and Paraquat in general accordance with EPA Method Nos. 8081, 8041 and 8151, and Chevron RM8-10 method. In addition, selected discrete soil samples were analyzed for arsenic and CAM-17 metals in general accordance with EPA Method No. 6000/7000 series.

OCP in Soil

All 8 composited soil samples, one blind duplicate and equipment blank were analyzed for OCP and the data is presented in Table 2, which is included as an attachment to this report. In summary, five of the composite samples (SS1, SS4, SS6, SS& and SS8) collected were reported to contain low level concentrations of Trifluralin ranging from 0.22 milligrams per kilogram (mg/kg) to 0.46 mg/kg.

Subsequently, as per the DTSC Interim Guidance for Sampling Agricultural Fields for School Sites (Second Revision), the discrete samples from the composite sample with the highest OCP concentrations, sample SS1, were analyzed for Trifluralin. The result of this additional analysis is also summarized in Table 2. These samples were also reported to contain low level concentrations of Trifluralin ranging from 0.005 mg/kg to 0.196 mg/kg. The laboratory report is included in Appendix A.

Based on the low concentrations of Trifluralin detected in the soils beneath the subject site, it is BA Environmental's opinion that these residual concentrations do not pose a threat to human health or the environment..

OPP in Soil

All 8 composited soil samples, one blind duplicate and equipment blank were analyzed for OPPs and the data is presented in Table 2. In summary, none of the soil samples analyzed were reported to contain detectable concentrations of OPPs. The laboratory report is included in Appendix A.

CH in Soil

All 8 composited soil samples, one blind duplicate and equipment blank were analyzed for CH and the data is presented in Table 2. In summary, all of the samples analyzed were reported not to contain detectable concentrations of CH.. The laboratory report is included in Appendix A.

Paraquat in Soil

All 8 composited soil samples, one blind duplicate and equipment blank were analyzed for Paraquat and the data is presented in Table 2. In summary, all of the samples analyzed were reported not to contain detectable concentrations of Paraquat. The laboratory report is included in Appendix A.

Arsenic in Soil

Random discrete soil samples were analyzed for arsenic. Arsenic is a metallic element that has been historically used in some pesticides. The laboratory results for arsenic are summarized in Table 3. California Code of Regulations (CCR) Title 22 has established threshold limits for various heavy metal compounds; both for the total concentrations of the metals as well as for the soluble concentration of metals. These threshold limits are known as the Total Threshold Limit Concentrations (TTLCs) and the Soluble Threshold Limit Concentrations (STLCs). A substance is considered to be hazardous if it contains a

total concentration of a metal greater than the TTLC limit for that metal, or if it contains a soluble concentration of a metal greater than the STLC limit for that metal. As a rule of thumb, generally if the concentration of a metal in the soil exceeds 10 times the STLC limit for that metal, an STLC analysis is run for that metal.

Analyses of soil samples revealed no detectable concentrations of arsenic in the shallow soils beneath the subject site. Laboratory reports and chain-of-custody forms are included as Appendix A.

Metals in Soil

Historically, various metals have been used in some pesticides and fertilizers. Random discrete soil samples were analyzed for CAM-17 metals. In addition, four discrete background soil samples were collected from off-site locations for comparison. The laboratory results are summarized in Table 3. California Code of Regulations (CCR) Title 22 has established threshold limits for various heavy metal compounds; both for the total concentrations of the metals as well as for the soluble concentration of metals. These threshold limits are known as the Total Threshold Limit Concentrations (TTLCs) and the Soluble Threshold Limit Concentrations (STLCs). A substance is considered to be hazardous if it contains a total concentration of a metal greater than the TTLC limit for that metal, or if it contains a soluble concentration of a metal greater than the STLC limit for that metal. As a rule of thumb, generally if the concentration of a metal in the soil exceeds 10 times the STLC limit for that metal, an STLC analysis is run for that metal.

Analyses of samples revealed no metals which exceeded the TTLC for those metals, or which exceeded 10 times the STLC for those metals. A comparison of the results of the discrete soil samples collected on-site with those collected from off-site indicated that the metal concentrations detected appear to be within the normal background range of metals in soils within the region.

Laboratory reports and chain-of-custody forms are included as Appendix A.

Equipment Blank

As part of the QA/QC procedures, one equipment blank was analyzed for OCPs, OPPs, CHs, Paraquat and CAM-17 metals. The laboratory results are summarized in Tables 2 and 3. In summary, the Equipment Blank was reported not to have detected concentrations of OCPs, OPPs, CHs, Paraquat and CAM-17 metals. Laboratory reports and chain-of-custody forms are included as Appendix A.

DISCUSSION

The planned use for the subject property will be development of land into a school. This investigation was conducted to assess the possible presence of pesticides on-site from past agricultural activities. Soil sampling was to be conducted using DTSC Interim Guidance for Sampling Agricultural Fields for School Sites (Second Revision), dated August 26, 2002.

The investigation consisted of drilling 32 shallow soil borings to a maximum depth of 2 feet bgs. Soil samples were collected at 0.5 feet bgs and 2 feet bgs. In addition, four shallow soil borings were drilled off-site in order to collect background samples for metals. The 32 on-site surface soil samples (collected at 0.5 feet bgs) were composited

into a total of 8 composite soil samples (4 samples per composite). Only adjacent soil sample locations were composited. The composited soil samples were analyzed for OPPs, OCPs, CHs and Paraquat. Random surface discrete soil samples were analyzed for arsenic and CAM-17 metals.

Analyses of the composited soil samples revealed no detectable concentrations of OPPS, CHs or Paraquat. Five of the composite samples (SS1, SS4, SS6, SS& and SS8) were reported to contain low level concentrations of Trifluralin, an OCP. Subsequently as per the DTSC Interim Guidance for Sampling Agricultural Fields for School Sites (Second Revision), the discrete samples from the composite sample with the highest OCP concentrations, sample SS1, were analyzed for Trifluralin. These samples were also reported to contain low level concentrations of Trifluralin. In comparing the concentrations of Trifluralin in both the composited soil samples and the discrete soil samples collected from the subject site to the Preliminary Cleanup Goals (PRGs) outlined in the Environmental Protection Agency (EPA) Region 9 PRG Table, dated October 2004, it can be seen that the concentrations of Trifluralin detected in the soil samples are well below the PRGs for residential use. Arsenic has historically been used in pesticides. Analytical results of the discrete soil samples revealed no detectable concentrations of arsenic, indicated that there appear to be no arsenopesticides present on the subject site. Various heavy metals have been historically used in pesticides and fertilizers. Analytical results of shallow discrete soil samples for CAM-17 metals revealed no elevated concentrations of heavy metals. In addition, a comparison of the results of the discrete soil samples collected on-site with those collected from off-site indicated that the metal concentrations detected appear to be within the normal background range of metals in soils within the region.

This assessment has revealed that only very low concentrations of an OCP, Trifluralin, remain from the past on-site agricultural operations. The reported concentrations of Trifluralin detected in the shallow soils beneath the subject site are well below the PRGs for even residential usage which, according to the DTSCs publication "New Environmental Requirements for Proposed Schoolsites (Assembly Bill 387 and Senate Bill 162), is considered to be the most protective standard for children. In addition, according to Newhall Land, it is intended to bring the final grade of the subject site up approximately 10 feet with clean imported fill. By raising the grade by 10 feet with imported fill, this would further reduce the potential for a human to come into contact with the soil containing low concentrations of Trifluralin. Trifluralin is a solid at room temperature; therefore, there is a low potential for vapor migration of this compound. Based on this information, it is BA Environmental's opinion that the residual Trifluralin concentrations detected in the shallow soils beneath the subject site pose a very low threat to human health, and poses no significant threat to the environment.

Based on the results of this subsurface assessment, BA Environmental recommends no further subsurface investigations or remedial action at this time.

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Reviewed by: _____
Richard O'Neil
Project Manager

REFERENCES

California Department of Conservation, Division of Mines and Geology (CDMG), 1994 Fault Activity Map of California and Adjacent Areas (1:750,000 scale),

County of Los Angeles Department of Public Works, Hydrologic Records, records request October 14, 2003.

ATTACHMENTS

TABLES

Table 1
Sample Location Coordinates
Landmark School Site
Valencia, California

Sample Number	Date	Elevation*	GPS Coordinates**
SS-1A	08/08/06	926'	N34° 25.436' W118° 38.504'
SS-1B	08/08/06	924'	N34° 25.411' W118° 38.559'
SS-1C	08/08/06	934'	N34° 25.403' W118° 38.584'
SS-1D	08/08/06	925'	N34° 25.405' W118° 38.584'
SS-2A	08/08/06	934'	N34° 25.421' W118° 38.548'
SS-2B	08/08/06	932'	N34° 25.422' W118° 38.527'
SS-2C	08/08/06	922'	N34° 25.417' W118° 38.525'
SS-2D	08/08/06	922'	N34° 25.404' W118° 38.546'
SS-3A	08/08/06	938'	N34° 25.429' W118° 38.513'
SS-3B	08/08/06	944'	N34° 25.427' W118° 38.501'
SS-3C	08/08/06	939'	N34° 25.417' W118° 38.491'
SS-3D	08/08/06	925'	N34° 25.416' W118° 38.510'
SS-4A	08/08/06	934'	N34° 25.383' W118° 38.560'
SS-4B	08/08/06	940'	N34° 25.383' W118° 38.543'
SS-4C	08/08/06	931'	N34° 25.4374' W118° 38.517'
SS-4D	08/08/06	930'	N34° 25.376' W118° 38.558'
SS-5A	08/08/06	927'	N34° 25.390' W118° 38.515'
SS-5B	08/08/06	933'	N34° 25.393' W118° 38.497'
SS-5C	08/08/06	938'	N34° 25.375' W118° 38.489'
SS-5D	08/08/06	928'	N34° 25.374' W118° 38.515'

Table 2
Soil Sample Analytical Results
OCP, OPP, CH, Cam-17 metals, Arsenic, and Paraquat
Landmark School Site
Valencia, California

Sample No.	Date	Depth bgs	OPPs (mg/kg)	CH (mg/kg)	OCP (mg/kg)	Paraquat (µg/gg)
SS-1A,1B,1C,1D-0.5	08/09/06	0.5	ND	ND	**0.046 Trifluralin**	ND
SS-1A-0.5	08/09/06	0.5	NA	NA	**0.101 Trifluralin**	NA
SS-1B-0.5	08/09/06	0.5	NA	NA	**0.196 Trifluralin**	NA
SS-1C-0.5	08/09/06	0.5	NA	NA	**0.010 Trifluralin**	NA
SS-1D-0.5	08/09/06	0.5	NA	NA	**0.005 Trifluralin**	NA
SS-2A,2B,2C,2D-0.5	08/09/06	0.5	ND	ND	ND	ND
SS-3A,3B,3C,3D-0.5	08/09/06	0.5	ND	ND	ND	ND
SS-4A,4B,4C,4D-0.5	08/09/06	0.5	ND	ND	**0.038 Trifluralin**	ND
SS-5A,5B,5C,5D-0.5	08/09/06	0.5	ND	ND	ND	ND
SS-6A,6B,6C,6D-0.5	08/09/06	0.5	ND	ND	**0.033 Trifluralin**	ND
SS-7A,7B,7C,7D-0.5	08/09/06	0.5	ND	ND	**0.022 Trifluralin**	ND
SS-8A,8B,8C,8D-0.5	08/09/06	0.5	ND	ND	**0.023 Trifluralin**	ND
DUPA,B,C,D-0.5	08/09/06	0.5	ND	ND	ND	ND
Equipment Blank	08/09/06	---	ND*	ND*	ND*	ND*
PRGs Residential			---	---	**63 Trifluralin ca****	---
PRGs Industrial			---	---	**220 Trifluralin ca***	---
Detection Limits (mg/kg)			**0.05-0.10**	**0.02-20.0**	**0.001-0.20**	**1.0**

Notes:

CH = Chlorinated Herbicides
OCP = Organochlorine Pesticides
OPP = Organophosphorous Pesticides
ND = None detected above detection limits.
NA = Not applicable
* = Reported in micrograms per liter (µg/l)
bgs = below ground surface
ca = Cancer PRG
ca* = Cancer PRG (where :nc<100x ca)
nc = Non-cancer PRG

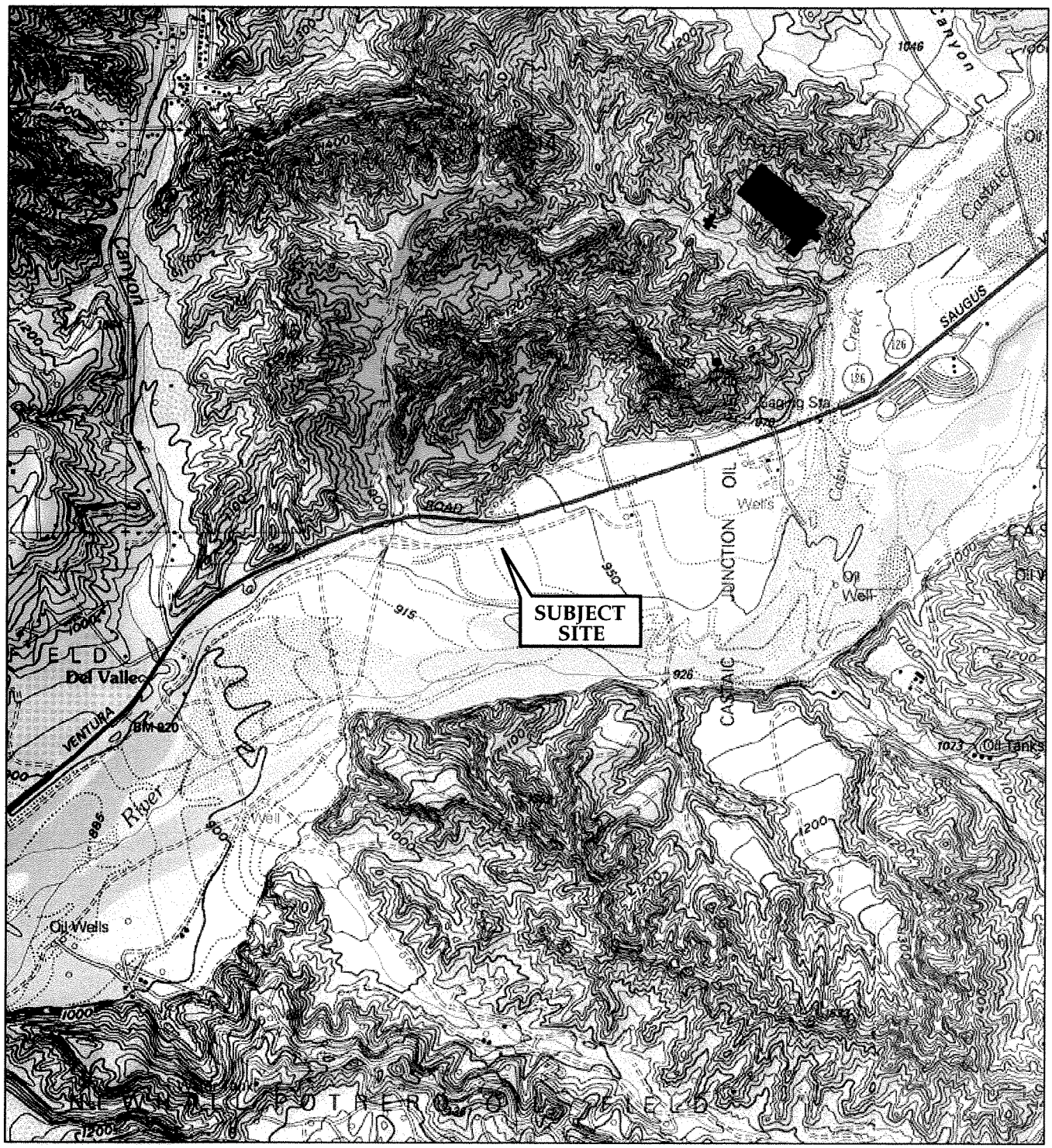
Table 3
Soil Sample Analytical Results
Cam-17 Metals and Arsenic,
Landmark School Site
Valencia, California

Sample No.	Date	Depth bgs	Arsenic (mg/kg)	Cam-17 (mg/kg)
SS-1A-0.5	08/09/06	0.5	ND	NA
SS-1C-0.5	08/09/06	0.5	ND	Below 10x STLC
SS-2C-0.5	08/09/06	0.5	ND	NA
SS-3B-0.5	08/09/06	0.5	ND	NA
SS-4B-0.5	08/09/06	0.5	ND	Below 10x STLC
SS-4D-0.5	08/09/06	0.5	ND	NA
SS-5B-0.5	08/09/06	0.5	ND	NA
SS-6B-0.5	08/09/06	0.5	ND	Below 10x STLC
SS-6D-0.5	08/09/06	0.5	ND	NA
SS-7A-0.5	08/09/06	0.5	ND	NA
SS-8A-0.5	08/09/06	0.5	ND	Below 10x STLC
SS-8C-0.5	08/09/06	0.5	ND	NA
DUPB-0.5	08/09/06	0.5	ND	Below 10x STLC
BG1 -0.5	08/09/06	0.5	ND	Below 10x STLC
BG2-0.5	08/09/06	0.5	ND	Below 10x STLC
BG3 -0.5	08/09/06	0.5	ND	Below 10x STLC
BG4-0.5	08/09/06	0.5	ND	Below 10x STLC
Equipment Blank	08/09/06	---	ND*	ND*
Detection Limits (mg/kg)			**0.30**	**0.19-5.0**

Notes:
ND = None detected above detection limits.
NA = Not applicable
* = Reported in milligrams per liter (mg/l)
bgs = below ground surface

- Concentrations are reported in milligrams per kilogram (mg/kg) which is equivalent to parts per million (ppm).
- Analyses for CAM-17 Metals were performed in accordance with the EPA Method No. 6000/7000 series
- Analyses for Arsenic were performed in accordance with the EPA Method No. 6010B

FIGURES



NORTH

Reference: USGS Val Verde Quadrangle, California
7.5 Minute Series

SITE VICINITY
SCALE - 1:24,000

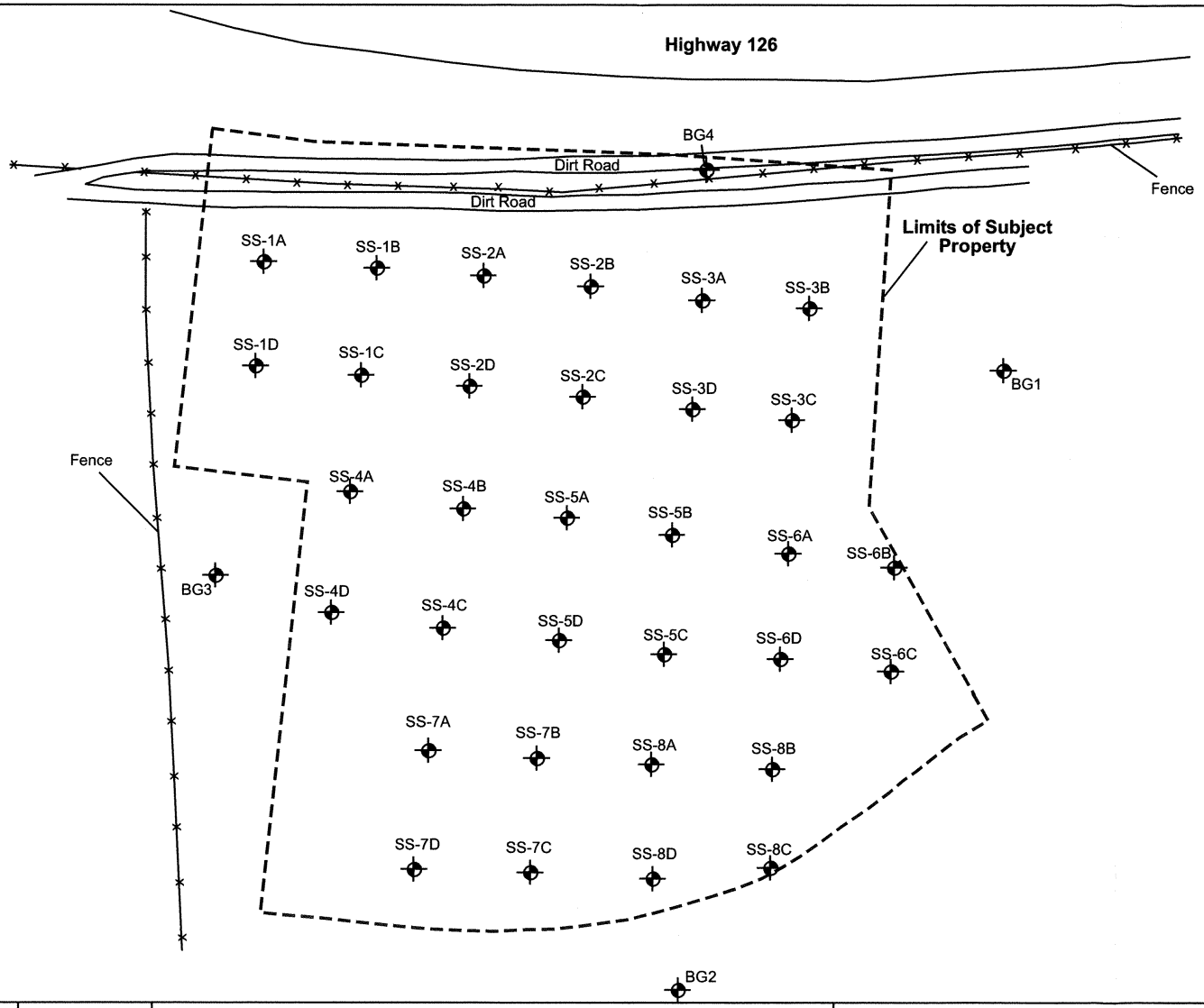
BA ENVIRONMENTAL

PHASE I ENVIRONMENTAL SITE ASSESSMENT

PROJECT: **Landmark School Site**
Valencia, California

PROJECT NO.
106166

FIGURE
1



BA ENVIRONMENTAL

NORTH

0 50 100
Approximate Scale, feet

LEGEND

SS-1A = Soil Boring Location and Designation

PHASE I ENVIRONMENTAL SITE ASSESSMENT

PROJECT: **Landmark School Site**
Valencia, California

PROJECT NO.
106166

FIGURE
2

APPENDICES

APPENDIX A:

Lab Reports and Chain of Custody Documentation

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

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Project: **Landmark School Site / 106166**
Lab I.D.: **060809-23 through -102**

Dear Mr. Cote:

The **analytical results (except Paraquat)** for the soil and water samples, received by our laboratory on August 9, 2006, are attached. The samples were received chilled, intact and accompanying chain of custody record.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Jesse Tu, Ph.D.
Laboratory Manager

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
502 South Verdugo Drive, Suite 200
Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
DATE ANALYZED: 08/10/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-1A-0.5, SS-1B-0.5, SS-1C-0.5, SS-1D-0.5 (Composite)**
LAB I.D.: 060809-23 through -26 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	0.05	1
Bolstar (Sulprofos)	ND	0.05	1
Chlorpyrifos	ND	0.05	1
Coumaphos	ND	0.05	1
Demeton-O	ND	0.05	1
Demeton-S	ND	0.05	1
Diazinon	ND	0.05	1
Dichlorvos	ND	0.05	1
Disulfoton	ND	0.05	1
Ethoprop	ND	0.05	1
Fenchlorphos (Ronnel)	ND	0.05	1
Fensulfothion	ND	0.05	1
Fenthion	ND	0.05	1
Merphos	ND	0.05	1
Methyl Parathion	ND	0.05	1
Mevinphos	ND	0.10	1
Naled	ND	0.10	1
Phorate	ND	0.05	1
Ronnel	ND	0.05	1
Tetrachlorvinphos (Stirophos)	ND	0.05	1
Tokuthion (Prothiofos)	ND	0.05	1
Trichloronate	ND	0.05	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

CUSTOMER: **BA Environmental**
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Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
DATE ANALYZED: 08/10/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-2A-0.5, SS-2B-0.5, SS-2C-0.5, SS-2D-0.5 (Composite)**
LAB I.D.: 060809-31 through -34 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	0.05	1
Bolstar (Sulprofos)	ND	0.05	1
Chlorpyrifos	ND	0.05	1
Coumaphos	ND	0.05	1
Demeton-O	ND	0.05	1
Demeton-S	ND	0.05	1
Diazinon	ND	0.05	1
Dichlorvos	ND	0.05	1
Disulfoton	ND	0.05	1
Ethoprop	ND	0.05	1
Fenchlorphos (Ronnel)	ND	0.05	1
Fensulfothion	ND	0.05	1
Fenthion	ND	0.05	1
Merphos	ND	0.05	1
Methyl Parathion	ND	0.05	1
Mevinphos	ND	0.10	1
Naled	ND	0.10	1
Phorate	ND	0.05	1
Ronnel	ND	0.05	1
Tetrachlorvinphos (Stirophos)	ND	0.05	1
Tokuthion (Prothiofos)	ND	0.05	1
Trichloronate	ND	0.05	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
DATE ANALYZED: 08/10/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-3A-0.5, SS-3B-0.5, SS-3C-0.5, SS-3D-0.5 (Composite)**
LAB I.D.: 060809-39 through -42 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	0.05	1
Bolstar (Sulprofos)	ND	0.05	1
Chlorpyrifos	ND	0.05	1
Coumaphos	ND	0.05	1
Demeton-O	ND	0.05	1
Demeton-S	ND	0.05	1
Diazinon	ND	0.05	1
Dichlorvos	ND	0.05	1
Disulfoton	ND	0.05	1
Ethoprop	ND	0.05	1
Fenchlorphos (Ronnel)	ND	0.05	1
Fensulfothion	ND	0.05	1
Fenthion	ND	0.05	1
Merphos	ND	0.05	1
Methyl Parathion	ND	0.05	1
Mevinphos	ND	0.10	1
Naled	ND	0.10	1
Phorate	ND	0.05	1
Ronnel	ND	0.05	1
Tetrachlorvinphos (Stirophos)	ND	0.05	1
Tokuthion (Prothiofos)	ND	0.05	1
Trichloronate	ND	0.05	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

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Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
DATE ANALYZED: 08/10/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-4A-0.5, SS-4B-0.5, SS-4C-0.5, SS-4D-0.5 (Composite)**
LAB I.D.: 060809-47 through -50 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	0.05	1
Bolstar (Sulprofos)	ND	0.05	1
Chlorpyrifos	ND	0.05	1
Coumaphos	ND	0.05	1
Demeton-O	ND	0.05	1
Demeton-S	ND	0.05	1
Diazinon	ND	0.05	1
Dichlorvos	ND	0.05	1
Disulfoton	ND	0.05	1
Ethoprop	ND	0.05	1
Fenchlorphos (Ronnel)	ND	0.05	1
Fensulfothion	ND	0.05	1
Fenthion	ND	0.05	1
Merphos	ND	0.05	1
Methyl Parathion	ND	0.05	1
Mevinphos	ND	0.10	1
Naled	ND	0.10	1
Phorate	ND	0.05	1
Ronnel	ND	0.05	1
Tetrachlorvinphos (Stirophos)	ND	0.05	1
Tokuthion (Prothiofos)	ND	0.05	1
Trichloronate	ND	0.05	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

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PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
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DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-5A-0.5, SS-5B-0.5, SS-5C-0.5, SS-5D-0.5 (Composite)**
LAB I.D.: 060809-55 through -58 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	0.05	1
Bolstar (Sulprofos)	ND	0.05	1
Chlorpyrifos	ND	0.05	1
Coumaphos	ND	0.05	1
Demeton-O	ND	0.05	1
Demeton-S	ND	0.05	1
Diazinon	ND	0.05	1
Dichlorvos	ND	0.05	1
Disulfoton	ND	0.05	1
Ethoprop	ND	0.05	1
Fenchlorphos (Ronnel)	ND	0.05	1
Fensulfothion	ND	0.05	1
Fenthion	ND	0.05	1
Merphos	ND	0.05	1
Methyl Parathion	ND	0.05	1
Mevinphos	ND	0.10	1
Naled	ND	0.10	1
Phorate	ND	0.05	1
Ronnel	ND	0.05	1
Tetrachlorvinphos (Stirophos)	ND	0.05	1
Tokuthion (Prothiofos)	ND	0.05	1
Trichloronate	ND	0.05	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

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Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
DATE ANALYZED: 08/10/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-6A-0.5, SS-6B-0.5, SS-6C-0.5, SS-6D-0.5 (Composite)**
LAB I.D.: 060809-63 through -66 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	0.05	1
Bolstar (Sulprofos)	ND	0.05	1
Chlorpyrifos	ND	0.05	1
Coumaphos	ND	0.05	1
Demeton-O	ND	0.05	1
Demeton-S	ND	0.05	1
Diazinon	ND	0.05	1
Dichlorvos	ND	0.05	1
Disulfoton	ND	0.05	1
Ethoprop	ND	0.05	1
Fenchlorphos (Ronnel)	ND	0.05	1
Fensulfothion	ND	0.05	1
Fenthion	ND	0.05	1
Merphos	ND	0.05	1
Methyl Parathion	ND	0.05	1
Mevinphos	ND	0.10	1
Naled	ND	0.10	1
Phorate	ND	0.05	1
Ronnel	ND	0.05	1
Tetrachlorvinphos (Stirophos)	ND	0.05	1
Tokuthion (Prothiofos)	ND	0.05	1
Trichloronate	ND	0.05	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

CUSTOMER: **BA Environmental**
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Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
DATE ANALYZED: 08/10/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-7A-0.5, SS-7B-0.5, SS-7C-0.5, SS-7D-0.5 (Composite)**
LAB I.D.: 060809-71 through -74 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	0.05	1
Bolstar (Sulprofos)	ND	0.05	1
Chlorpyrifos	ND	0.05	1
Coumaphos	ND	0.05	1
Demeton-O	ND	0.05	1
Demeton-S	ND	0.05	1
Diazinon	ND	0.05	1
Dichlorvos	ND	0.05	1
Disulfoton	ND	0.05	1
Ethoprop	ND	0.05	1
Fenchlorphos (Ronnel)	ND	0.05	1
Fensulfothion	ND	0.05	1
Fenthion	ND	0.05	1
Merphos	ND	0.05	1
Methyl Parathion	ND	0.05	1
Mevinphos	ND	0.10	1
Naled	ND	0.10	1
Phorate	ND	0.05	1
Ronnel	ND	0.05	1
Tetrachlorvinphos (Stirophos)	ND	0.05	1
Tokuthion (Prothiofos)	ND	0.05	1
Trichloronate	ND	0.05	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

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PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
DATE ANALYZED: 08/10/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-8A-0.5, SS-8B-0.5, SS-8C-0.5, SS-8D-0.5 (Composite)**
LAB I.D.: 060809-79 through -82 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	0.05	1
Bolstar (Sulprofos)	ND	0.05	1
Chlorpyrifos	ND	0.05	1
Coumaphos	ND	0.05	1
Demeton-O	ND	0.05	1
Demeton-S	ND	0.05	1
Diazinon	ND	0.05	1
Dichlorvos	ND	0.05	1
Disulfoton	ND	0.05	1
Ethoprop	ND	0.05	1
Fenchlorphos (Ronnel)	ND	0.05	1
Fensulfothion	ND	0.05	1
Fenthion	ND	0.05	1
Merphos	ND	0.05	1
Methyl Parathion	ND	0.05	1
Mevinphos	ND	0.10	1
Naled	ND	0.10	1
Phorate	ND	0.05	1
Ronnel	ND	0.05	1
Tetrachlorvinphos (Stirophos)	ND	0.05	1
Tokuthion (Prothiofos)	ND	0.05	1
Trichloronate	ND	0.05	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

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PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
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DATE REPORTED: 08/16/06

SAMPLE I.D.: **Dup A-0.5, Dup B-0.5, Dup C-0.5, Dup D-0.5 (Composite)**
LAB I.D.: 060809-87 through -90 (Composite)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	0.05	1
Bolstar (Sulprofos)	ND	0.05	1
Chlorpyrifos	ND	0.05	1
Coumaphos	ND	0.05	1
Demeton-O	ND	0.05	1
Demeton-S	ND	0.05	1
Diazinon	ND	0.05	1
Dichlorvos	ND	0.05	1
Disulfoton	ND	0.05	1
Ethoprop	ND	0.05	1
Fenchlorphos (Ronnel)	ND	0.05	1
Fensulfothion	ND	0.05	1
Fenthion	ND	0.05	1
Merphos	ND	0.05	1
Methyl Parathion	ND	0.05	1
Mevinphos	ND	0.10	1
Naled	ND	0.10	1
Phorate	ND	0.05	1
Ronnel	ND	0.05	1
Tetrachlorvinphos (Stirophos)	ND	0.05	1
Tokuthion (Prothiofos)	ND	0.05	1
Trichloronate	ND	0.05	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

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METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
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Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
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DATE REPORTED: 08/16/06

METHOD BLANK FOR LAB I.D.: 060809-23 THROUGH -26 (COMPOSITE), 060809-31 THROUGH -34 (COMPOSITE), 060809-39 THROUGH -42 (COMPOSITE), 060809-47 THROUGH -50 (COMPOSITE), 060809-55 THROUGH -58 (COMPOSITE), 060809-63 THROUGH -66 (COMPOSITE), 060809-71 THROUGH -74 (COMPOSITE), 060809-79 THROUGH -82 (COMPOSITE), 060809-87 THROUGH -90 (COMPOSITE)

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	0.05	1
Bolstar (Sulprofos)	ND	0.05	1
Chlorpyrifos	ND	0.05	1
Coumaphos	ND	0.05	1
Demeton-O	ND	0.05	1
Demeton-S	ND	0.05	1
Diazinon	ND	0.05	1
Dichlorvos	ND	0.05	1
Disulfoton	ND	0.05	1
Ethoprop	ND	0.05	1
Fenchlorphos (Ronnel)	ND	0.05	1
Fensulfothion	ND	0.05	1
Fenthion	ND	0.05	1
Merphos	ND	0.05	1
Methyl Parathion	ND	0.05	1
Mevinphos	ND	0.10	1
Naled	ND	0.10	1
Phorate	ND	0.05	1
Ronnel	ND	0.05	1
Tetrachlorvinphos (Stirophos)	ND	0.05	1
Tokuthion (Prothiofos)	ND	0.05	1
Trichloronate	ND	0.05	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

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CAL-DHS ELAP CERTIFICATE No.: 1555

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EPA 8141A QA/QC Report

Matrix: **Soil** Date Analyzed: **8/10-11/2006**

Unit: **mg/Kg (PPM)**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 060807-20~24

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Bolstar	0.00	1.00	1.03	**103%**	0.987	**99%**	**4%**	**0-30%**	**40-140**
Ethoprop	0.00	1.00	1.00	**100%**	0.960	**96%**	**4%**	**0-30%**	**40-140**
Ronnel	0.00	1.00	0.978	**98%**	1.01	**101%**	**3%**	**0-30%**	**40-140**
Phorate	0.00	1.00	1.03	**103%**	0.977	**98%**	**5%**	**0-30%**	**40-140**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Bolstar	0.200	0.212	**106%**	**40-140**
Ethoprop	0.200	0.196	**98%**	**40-140**
Ronnel	0.200	0.211	**106%**	**40-140**
Phorate	0.200	0.196	**98%**	**40-140**

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	0807-20~24	0807-25~29	060809-3	060809-4	060809-5	060809-6
Tributyl Phosphate	40-140	89%	94%	94%	96%	98%	94%	95%
Triphenyl Phosphate	40-140	87%	98%	97%	98%	100%	96%	98%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	060809-18	060809-19	060809-20	0809-23~26	0809-31~34	0809-39~42	0809-47~50	0809-55~58
Tributyl Phosphate	101%	95%	96%	95%	96%	98%	95%	88%
Triphenyl Phosphate	106%	96%	98%	99%	98%	101%	97%	89%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	0809-63~66	0809-71~74	0809-79~82	0809-87~90		
Tributyl Phosphate	100%	98%	95%	92%		
Triphenyl Phosphate	102%	99%	96%	93%		

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

** = Surrogate fail due to matrix interference (If Marked)*

Note: *LCS, MS, MSD are in control therefore results are in control.*

Analyzed and Reviewed By: _____

Final Reviewer: _____

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LABORATORY REPORT

CUSTOMER: **BA Environmental**
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Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10-11/06
DATE ANALYZED: 08/11/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-1A-0.5, SS-1B-0.5, SS-1C-0.5, SS-1D-0.5 (Composite)**
LAB I.D.: 060809-23 through -26 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPP	ND	20.0	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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PROJECT: **Landmark School Site / 106166**
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SAMPLE I.D.: **SS-2A-0.5, SS-2B-0.5, SS-2C-0.5, SS-2D-0.5 (Composite)**
LAB I.D.: 060809-31 through -34 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPP	ND	20.0	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

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SAMPLE I.D.: **SS-3A-0.5, SS-3B-0.5, SS-3C-0.5, SS-3D-0.5 (Composite)**
LAB I.D.: 060809-39 through -42 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPP	ND	20.0	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
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DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-4A-0.5, SS-4B-0.5, SS-4C-0.5, SS-4D-0.5 (Composite)**
LAB I.D.: 060809-47 through -50 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPP	ND	20.0	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

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SAMPLE I.D.: **SS-5A-0.5, SS-5B-0.5, SS-5C-0.5, SS-5D-0.5 (Composite)**
LAB I.D.: 060809-55 through -58 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPP	ND	20.0	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

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DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-6A-0.5, SS-6B-0.5, SS-6C-0.5, SS-6D-0.5 (Composite)**
LAB I.D.: 060809-63 through -66 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPP	ND	20.0	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

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SAMPLE I.D.: **SS-7A-0.5, SS-7B-0.5, SS-7C-0.5, SS-7D-0.5 (Composite)**
LAB I.D.: 060809-71 through -74 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPP	ND	20.0	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
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DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-8A-0.5, SS-8B-0.5, SS-8C-0.5, SS-8D-0.5 (Composite)**
LAB I.D.: 060809-79 through -82 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPP	ND	20.0	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

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PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
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DATE ANALYZED: 08/12/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **Dup A-0.5, Dup B-0.5, Dup C-0.5, Dup D-0.5 (Composite)**
LAB I.D.: 060809-87 through -90 (Composite)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPP	ND	20.0	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
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METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
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Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
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DATE REPORTED: 08/16/06

METHOD BLANK FOR LAB I.D.: 060809-23 THROUGH -26 (COMPOSITE), 060809-31 THROUGH -34 (COMPOSITE), 060809-39 THROUGH -42 (COMPOSITE), 060809-47 THROUGH -50 (COMPOSITE), 060809-55 THROUGH -58 (COMPOSITE), 060809-63 THROUGH -66 (COMPOSITE), 060809-71 THROUGH -74 (COMPOSITE), 060809-79 THROUGH -82 (COMPOSITE), 060809-87 THROUGH -90 (COMPOSITE)

Chlorinated Herbicides Analysis
Method: EPA 8151A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPP	ND	20.0	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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QA/QC Report
Analysis: EPA 8151A

Matrix: **Soil/Solid** Date Analyzed: **8/11-12/2006**

Unit: **mg/Kg (PPM)**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 060809-18

Analyte	S.R.	spk conc	MS	% REC	MSD	% REC	%RPD	ACP %RPD	ACP %REC
2,4,5-T	0	0.500	0.601	**120%**	0.570	**114%**	**5%**	**0-20%**	**50-150**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
2,4,5-T	0.0500	0.0505	101%	**70-130**
2,4,5-TP	0.0500	0.0431	86%	**70-130**
2,4-DB	0.500	0.566	113%	**70-130**

Surrogate Recovery:

Analyte	ACP %	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample ID:		M-BLK	060809-18	060809-19	060809-20	0809-23~26	0809-31~34	0809-39~42	0809-47~50
DCAA	50-150	123%	84%	80%	82%	72%	79%	77%	78%

Analyte	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample ID:	0809-55~58	0809-63~66	0809-71~74	0809-79~82	0809-87~90				
DCAA	77%	78%	80.00	85%	76%				

Analyte	%REC	%REC	%REC	%REC					
Sample ID:									
DCAA									

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: _____

Final Reviewer: _____

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LABORATORY REPORT

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PROJECT: **Landmark School Site / 106166**
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DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
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SAMPLE I.D.: **SS-1A-0.5, SS-1B-0.5, SS-1C-0.5, SS-1D-0.5 (Composite)**
LAB I.D.: 060809-23 through -26 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10*
alpha-BHC	ND	0.001	10*
beta-BHC	ND	0.001	10*
gamma-BHC (Lindane)	ND	0.001	10*
delta-BHC	ND	0.001	10*
alpha-Chlordane	ND	0.001	10*
gamma-Chlordane	ND	0.001	10*
4,4'-DDD	ND	0.001	10*
4,4'-DDE	ND	0.001	10*
4,4'-DDT	ND	0.001	10*
Dieldrin	ND	0.001	10*
Endosulfan I	ND	0.001	10*
Endosulfan II	ND	0.001	10*
Endosulfan Sulfate	ND	0.001	10*
Endrin	ND	0.001	10*
Endrin Aldehyde	ND	0.001	10*
Endrin Ketone	ND	0.001	10*
Heptachlor Epoxide	ND	0.001	10*
Heptachlor	ND	0.001	10*
Methoxyclor	ND	0.001	10*
Toxaphene	ND	0.200	10*
Chloroneb	ND	0.010	10*
1,2-Dibromo-3-Chloropropane(DBCP)	ND	0.001	10*
Hexachlorobenzene	ND	0.001	10*
Mirex	ND	0.002	10*
Trifluralin	0.046	0.002	10*

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT
* = ACTUAL DETECTION LIMIT RAISED DUE TO MATRIX INTERFERENCE

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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SAMPLE I.D.: **SS-2A-0.5, SS-2B-0.5, SS-2C-0.5, SS-2D-0.5 (Composite)**
LAB I.D.: 060809-31 through -34 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10*
alpha-BHC	ND	0.001	10*
beta-BHC	ND	0.001	10*
gamma-BHC (Lindane)	ND	0.001	10*
delta-BHC	ND	0.001	10*
alpha-Chlordane	ND	0.001	10*
gamma-Chlordane	ND	0.001	10*
4,4'-DDD	ND	0.001	10*
4,4'-DDE	ND	0.001	10*
4,4'-DDT	ND	0.001	10*
Dieldrin	ND	0.001	10*
Endosulfan I	ND	0.001	10*
Endosulfan II	ND	0.001	10*
Endosulfan Sulfate	ND	0.001	10*
Endrin	ND	0.001	10*
Endrin Aldehyde	ND	0.001	10*
Endrin Ketone	ND	0.001	10*
Heptachlor Epoxide	ND	0.001	10*
Heptachlor	ND	0.001	10*
Methoxyclor	ND	0.001	10*
Toxaphene	ND	0.200	10*
Chloroneb	ND	0.010	10*
1,2-Dibromo-3-Chloropropane(DBCP)	ND	0.001	10*
Hexachlorobenzene	ND	0.001	10*
Mirex	ND	0.002	10*
Trifluralin	ND	0.002	10*

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT
* = ACTUAL DETECTION LIMIT RAISED DUE TO MATRIX INTERFERENCE

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
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LABORATORY REPORT

CUSTOMER: **BA Environmental**
502 South Verdugo Drive, Suite 200
Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
DATE ANALYZED: 08/10/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-3A-0.5, SS-3B-0.5, SS-3C-0.5, SS-3D-0.5 (Composite)**
LAB I.D.: 060809-39 through -42 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10*
alpha-BHC	ND	0.001	10*
beta-BHC	ND	0.001	10*
gamma-BHC (Lindane)	ND	0.001	10*
delta-BHC	ND	0.001	10*
alpha-Chlordane	ND	0.001	10*
gamma-Chlordane	ND	0.001	10*
4,4'-DDD	ND	0.001	10*
4,4'-DDE	ND	0.001	10*
4,4'-DDT	ND	0.001	10*
Dieldrin	ND	0.001	10*
Endosulfan I	ND	0.001	10*
Endosulfan II	ND	0.001	10*
Endosulfan Sulfate	ND	0.001	10*
Endrin	ND	0.001	10*
Endrin Aldehyde	ND	0.001	10*
Endrin Ketone	ND	0.001	10*
Heptachlor Epoxide	ND	0.001	10*
Heptachlor	ND	0.001	10*
Methoxyclor	ND	0.001	10*
Toxaphene	ND	0.200	10*
Chloroneb	ND	0.010	10*
1,2-Dibromo-3-Chloropropane(DBCP)	ND	0.001	10*
Hexachlorobenzene	ND	0.001	10*
Mirex	ND	0.002	10*
Trifluralin	ND	0.002	10*

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT
* = ACTUAL DETECTION LIMIT RAISED DUE TO MATRIX INTERFERENCE

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

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Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
DATE ANALYZED: 08/11/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-4A-0.5, SS-4B-0.5, SS-4C-0.5, SS-4D-0.5 (Composite)**
LAB I.D.: 060809-47 through -50 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10*
alpha-BHC	ND	0.001	10*
beta-BHC	ND	0.001	10*
gamma-BHC (Lindane)	ND	0.001	10*
delta-BHC	ND	0.001	10*
alpha-Chlordane	ND	0.001	10*
gamma-Chlordane	ND	0.001	10*
4,4'-DDD	ND	0.001	10*
4,4'-DDE	ND	0.001	10*
4,4'-DDT	ND	0.001	10*
Dieldrin	ND	0.001	10*
Endosulfan I	ND	0.001	10*
Endosulfan II	ND	0.001	10*
Endosulfan Sulfate	ND	0.001	10*
Endrin	ND	0.001	10*
Endrin Aldehyde	ND	0.001	10*
Endrin Ketone	ND	0.001	10*
Heptachlor Epoxide	ND	0.001	10*
Heptachlor	ND	0.001	10*
Methoxyclor	ND	0.001	10*
Toxaphene	ND	0.200	10*
Chloroneb	ND	0.010	10*
1,2-Dibromo-3-Chloropropane(DBCP)	ND	0.001	10*
Hexachlorobenzene	ND	0.001	10*
Mirex	ND	0.002	10*
Trifluralin	0.038	0.002	10*

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT
* = ACTUAL DETECTION LIMIT RAISED DUE TO MATRIX INTERFERENCE

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

CUSTOMER: **BA Environmental**
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Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
DATE ANALYZED: 08/11/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-5A-0.5, SS-5B-0.5, SS-5C-0.5, SS-5D-0.5 (Composite)**
LAB I.D.: 060809-55 through -58 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10*
alpha-BHC	ND	0.001	10*
beta-BHC	ND	0.001	10*
gamma-BHC (Lindane)	ND	0.001	10*
delta-BHC	ND	0.001	10*
alpha-Chlordane	ND	0.001	10*
gamma-Chlordane	ND	0.001	10*
4,4'-DDD	ND	0.001	10*
4,4'-DDE	ND	0.001	10*
4,4'-DDT	ND	0.001	10*
Dieldrin	ND	0.001	10*
Endosulfan I	ND	0.001	10*
Endosulfan II	ND	0.001	10*
Endosulfan Sulfate	ND	0.001	10*
Endrin	ND	0.001	10*
Endrin Aldehyde	ND	0.001	10*
Endrin Ketone	ND	0.001	10*
Heptachlor Epoxide	ND	0.001	10*
Heptachlor	ND	0.001	10*
Methoxyclor	ND	0.001	10*
Toxaphene	ND	0.200	10*
Chloroneb	ND	0.010	10*
1,2-Dibromo-3-Chloropropane(DBCP)	ND	0.001	10*
Hexachlorobenzene	ND	0.001	10*
Mirex	ND	0.002	10*
Trifluralin	ND	0.002	10*

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT
* = ACTUAL DETECTION LIMIT RAISED DUE TO MATRIX INTERFERENCE

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

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PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
DATE ANALYZED: 08/11/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-6A-0.5, SS-6B-0.5, SS-6C-0.5, SS-6D-0.5 (Composite)**
LAB I.D.: 060809-63 through -66 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10*
alpha-BHC	ND	0.001	10*
beta-BHC	ND	0.001	10*
gamma-BHC (Lindane)	ND	0.001	10*
delta-BHC	ND	0.001	10*
alpha-Chlordane	ND	0.001	10*
gamma-Chlordane	ND	0.001	10*
4,4'-DDD	ND	0.001	10*
4,4'-DDE	ND	0.001	10*
4,4'-DDT	ND	0.001	10*
Dieldrin	ND	0.001	10*
Endosulfan I	ND	0.001	10*
Endosulfan II	ND	0.001	10*
Endosulfan Sulfate	ND	0.001	10*
Endrin	ND	0.001	10*
Endrin Aldehyde	ND	0.001	10*
Endrin Ketone	ND	0.001	10*
Heptachlor Epoxide	ND	0.001	10*
Heptachlor	ND	0.001	10*
Methoxyclor	ND	0.001	10*
Toxaphene	ND	0.200	10*
Chloroneb	ND	0.010	10*
1,2-Dibromo-3-Chloropropane(DBCP)	ND	0.001	10*
Hexachlorobenzene	ND	0.001	10*
Mirex	ND	0.002	10*
Trifluralin	0.033	0.002	10*

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT
* = ACTUAL DETECTION LIMIT RAISED DUE TO MATRIX INTERFERENCE

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
DATE ANALYZED: 08/11/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-7A-0.5, SS-7B-0.5, SS-7C-0.5, SS-7D-0.5 (Composite)**
LAB I.D.: 060809-71 through -74 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10*
alpha-BHC	ND	0.001	10*
beta-BHC	ND	0.001	10*
gamma-BHC (Lindane)	ND	0.001	10*
delta-BHC	ND	0.001	10*
alpha-Chlordane	ND	0.001	10*
gamma-Chlordane	ND	0.001	10*
4,4'-DDD	ND	0.001	10*
4,4'-DDE	ND	0.001	10*
4,4'-DDT	ND	0.001	10*
Dieldrin	ND	0.001	10*
Endosulfan I	ND	0.001	10*
Endosulfan II	ND	0.001	10*
Endosulfan Sulfate	ND	0.001	10*
Endrin	ND	0.001	10*
Endrin Aldehyde	ND	0.001	10*
Endrin Ketone	ND	0.001	10*
Heptachlor Epoxide	ND	0.001	10*
Heptachlor	ND	0.001	10*
Methoxyclor	ND	0.001	10*
Toxaphene	ND	0.200	10*
Chloroneb	ND	0.010	10*
1,2-Dibromo-3-Chloropropane(DBCP)	ND	0.001	10*
Hexachlorobenzene	ND	0.001	10*
Mirex	ND	0.002	10*
Trifluralin	0.022	0.002	10*

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT
* = ACTUAL DETECTION LIMIT RAISED DUE TO MATRIX INTERFERENCE

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

CUSTOMER: **BA Environmental**
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Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
DATE ANALYZED: 08/11/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-8A-0.5, SS-8B-0.5, SS-8C-0.5, SS-8D-0.5 (Composite)**
LAB I.D.: 060809-79 through -82 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10*
alpha-BHC	ND	0.001	10*
beta-BHC	ND	0.001	10*
gamma-BHC (Lindane)	ND	0.001	10*
delta-BHC	ND	0.001	10*
alpha-Chlordane	ND	0.001	10*
gamma-Chlordane	ND	0.001	10*
4,4'-DDD	ND	0.001	10*
4,4'-DDE	ND	0.001	10*
4,4'-DDT	ND	0.001	10*
Dieldrin	ND	0.001	10*
Endosulfan I	ND	0.001	10*
Endosulfan II	ND	0.001	10*
Endosulfan Sulfate	ND	0.001	10*
Endrin	ND	0.001	10*
Endrin Aldehyde	ND	0.001	10*
Endrin Ketone	ND	0.001	10*
Heptachlor Epoxide	ND	0.001	10*
Heptachlor	ND	0.001	10*
Methoxyclor	ND	0.001	10*
Toxaphene	ND	0.200	10*
Chloroneb	ND	0.010	10*
1,2-Dibromo-3-Chloropropane(DBCP)	ND	0.001	10*
Hexachlorobenzene	ND	0.001	10*
Mirex	ND	0.002	10*
Trifluralin	0.023	0.002	10*

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT
* = ACTUAL DETECTION LIMIT RAISED DUE TO MATRIX INTERFERENCE

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

CUSTOMER: **BA Environmental**
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PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
DATE ANALYZED: 08/11/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **DUP A-0.5, DUP B-0.5, DUP C-0.5, DUP D-0.5 (Composite)**
LAB I.D.: 060809-87 through -90 (Composite)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10*
alpha-BHC	ND	0.001	10*
beta-BHC	ND	0.001	10*
gamma-BHC (Lindane)	ND	0.001	10*
delta-BHC	ND	0.001	10*
alpha-Chlordane	ND	0.001	10*
gamma-Chlordane	ND	0.001	10*
4,4'-DDD	ND	0.001	10*
4,4'-DDE	ND	0.001	10*
4,4'-DDT	ND	0.001	10*
Dieldrin	ND	0.001	10*
Endosulfan I	ND	0.001	10*
Endosulfan II	ND	0.001	10*
Endosulfan Sulfate	ND	0.001	10*
Endrin	ND	0.001	10*
Endrin Aldehyde	ND	0.001	10*
Endrin Ketone	ND	0.001	10*
Heptachlor Epoxide	ND	0.001	10*
Heptachlor	ND	0.001	10*
Methoxyclor	ND	0.001	10*
Toxaphene	ND	0.200	10*
Chloroneb	ND	0.010	10*
1,2-Dibromo-3-Chloropropane(DBCP)	ND	0.001	10*
Hexachlorobenzene	ND	0.001	10*
Mirex	ND	0.002	10*
Trifluralin	ND	0.002	10*

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT
* = ACTUAL DETECTION LIMIT RAISED DUE TO MATRIX INTERFERENCE

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
502 South Verdugo Drive, Suite 200
Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/10/06
DATE ANALYZED: 08/10/06
DATE REPORTED: 08/16/06

METHOD BLANK FOR LAB I.D.: 060809-23 THROUGH -26 (COMPOSITE), 060809-31 THROUGH -34 (COMPOSITE), 060809-39 THROUGH -42 (COMPOSITE), 060809-47 THROUGH -50 (COMPOSITE), 060809-55 THROUGH -58 (COMPOSITE), 060809-63 THROUGH -66 (COMPOSITE), 060809-71 THROUGH -74 (COMPOSITE), 060809-79 THROUGH -82 (COMPOSITE), 060809-87 THROUGH -90 (COMPOSITE)

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxyclor	ND	0.001	1
Toxaphene	ND	0.200	1
Chloroneb	ND	0.010	1
1,2-Dibromo-3-Chloropropane(DBCP)	ND	0.001	1
Hexachlorobenzene	ND	0.001	1
Mirex	ND	0.002	1
Trifluralin	ND	0.002	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

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EPA 8081 QA/QC Report

Matrix: **Soil** Date Analyzed: **8/10-11/2006**

Unit: mg/Kg

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 060809-18

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.050	0.0498	**100%**	0.0501	**100%**	**1%**	**0-20%**	**70-130**
Aldrin	0.000	0.050	0.0474	**95%**	0.0478	**96%**	**1%**	**0-20%**	**70-130**
4,4-DDE	0.000	0.050	0.0450	**90%**	0.0455	**91%**	**1%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.0050	0.00492	**98%**	**75-125**
Aldrin	0.0050	0.00494	**99%**	**75-125**
4,4-DDE	0.0050	0.00453	**91%**	**75-125**
Dieldrin	0.0050	0.00474	**95%**	**75-125**

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	060809-18	060809-19	060809-20	0809-23~26	0809-31~34	0809-39~42
Tetra-chloro-meta-xylene	50-150	105%	98%	93%	107%	104%	104%	103%
Decachlorobiphenyl	50-150	105%	94%	87%	93%	102%	102%	99%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	0809-47~50	0809-55~58	0809-63~66	0809-71~74	0809-79~82	0809-87~90		
Tetra-chloro-meta-xylene	100%	101%	103%	101%	103%	99%		
Decachlorobiphenyl	100%	98%	97%	95%	97%	97%		

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
Tetra-chloro-meta-xylene						
Decachlorobiphenyl						

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

** = Surrogate fail due to matrix interference (If Marked)*

Note: *LCS, MS, MSD are in control therefore results are in control.*

Analyzed and Reviewed By:

Final Reviewer:

Enviro – Chem, Inc.
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LABORATORY REPORT

CUSTOMER: **BA Environmental**
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Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**

MATRIX: SOIL — DATE RECEIVED: 08/09/06
DATE SAMPLED: 08/09/06 — DATE ANALYZED: 08/11/06
REPORT TO: MR. RUSSELL COTE — DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-1A-0.5** — LAB I.D.: 060809-23

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Arsenic(As)	ND	0.3	1	500	5.0	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
* = STLC analysis for the metal is recommended (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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PROJECT: **Landmark School Site / 106166**

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REPORT TO: MR. RUSSELL COTE — DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-1C-0.5** — LAB I.D.: 060809-25

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	1	500	15	6010B
Arsenic(As)	ND	0.3	1	500	5.0	6010B
Barium(Ba)	85.8	5.0	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total(Cr)	12.9	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt(Co)	4.27	1.0	1	8,000	80	6010B
Copper(Cu)	6.51	1.0	1	2,500	25	6010B
Lead(Pb)	4.06	0.5	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.1	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	1	3,500	350	6010B
Nickel(Ni)	8.51	2.5	1	2,000	20	6010B
Selenium(Se)	ND	1.0	1	100	1.0	6010B
Silver(Ag)	ND	1.0	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	1	700	7.0	6010B
Vanadium(V)	30.4	5.0	1	2,400	24	6010B
Zinc(Zn)	41.1	0.5	1	5,000	250	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
* = STLC analysis for the metal is recommended (if marked)
** = Additional Analysis required, please call to discuss (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
-- = Not analyzed/not requested

Data Reviewed and Approved by: _____

CAL-DHS ELAP CERTIFICATE No.: 1555

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PROJECT: **Landmark School Site / 106166**

MATRIX: SOIL — DATE RECEIVED: 08/09/06
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REPORT TO: MR. RUSSELL COTE — DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-2C-0.5** — LAB I.D.: 060809-33

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Arsenic(As)	ND	0.3	1	500	5.0	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
* = STLC analysis for the metal is recommended (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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CAL-DHS ELAP CERTIFICATE No.: 1555

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PROJECT: **Landmark School Site / 106166**

MATRIX: SOIL — DATE RECEIVED: 08/09/06
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REPORT TO: MR. RUSSELL COTE — DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-3B-0.5** — LAB I.D.: 060809-40

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Arsenic(As)	ND	0.3	1	500	5.0	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
* = STLC analysis for the metal is recommended (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: _____

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PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
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REPORT TO: MR. RUSSELL COTE
DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-4B-0.5**
LAB I.D.: 060809-48

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	1	500	15	6010B
Arsenic(As)	ND	0.3	1	500	5.0	6010B
Barium(Ba)	106	5.0	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total(Cr)	12.9	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt(Co)	4.31	1.0	1	8,000	80	6010B
Copper(Cu)	6.64	1.0	1	2,500	25	6010B
Lead(Pb)	4.04	0.5	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.1	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	1	3,500	350	6010B
Nickel(Ni)	8.03	2.5	1	2,000	20	6010B
Selenium(Se)	ND	1.0	1	100	1.0	6010B
Silver(Ag)	ND	1.0	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	1	700	7.0	6010B
Vanadium(V)	30.8	5.0	1	2,400	24	6010B
Zinc(Zn)	40.8	0.5	1	5,000	250	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
* = STLC analysis for the metal is recommended (if marked)
** = Additional Analysis required, please call to discuss (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
-- = Not analyzed/not requested

Data Reviewed and Approved by: _____
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PROJECT: **Landmark School Site / 106166**

MATRIX: SOIL — DATE RECEIVED: 08/09/06
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REPORT TO: MR. RUSSELL COTE — DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-4D-0.5** — LAB I.D.: 060809-50

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Arsenic(As)	ND	0.3	1	500	5.0	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
* = STLC analysis for the metal is recommended (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: _____
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PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
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DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-5B-0.5**
LAB I.D.: 060809-56

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Arsenic(As)	ND	0.3	1	500	5.0	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
* = STLC analysis for the metal is recommended (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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PROJECT: **Landmark School Site / 106166**

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REPORT TO: MR. RUSSELL COTE — DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-6B-0.5** — LAB I.D.: 060809-64

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	1	500	15	6010B
Arsenic(As)	ND	0.3	1	500	5.0	6010B
Barium(Ba)	87.3	5.0	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total(Cr)	14.1	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt(Co)	4.63	1.0	1	8,000	80	6010B
Copper(Cu)	7.50	1.0	1	2,500	25	6010B
Lead(Pb)	4.64	0.5	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.1	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	1	3,500	350	6010B
Nickel(Ni)	9.34	2.5	1	2,000	20	6010B
Selenium(Se)	ND	1.0	1	100	1.0	6010B
Silver(Ag)	ND	1.0	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	1	700	7.0	6010B
Vanadium(V)	31.8	5.0	1	2,400	24	6010B
Zinc(Zn)	46.5	0.5	1	5,000	250	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
* = STLC analysis for the metal is recommended (if marked)
** = Additional Analysis required, please call to discuss (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
-- = Not analyzed/not requested

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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PROJECT: **Landmark School Site / 106166**

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REPORT TO: MR. RUSSELL COTE — DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-6D-0.5** — LAB I.D.: 060809-66

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Arsenic(As)	ND	0.3	1	500	5.0	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
* = STLC analysis for the metal is recommended (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

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CAL-DHS ELAP CERTIFICATE No.: 1555

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PROJECT: **Landmark School Site / 106166**

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SAMPLE I.D.: **SS-7A-0.5** — LAB I.D.: 060809-71

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Arsenic(As)	ND	0.3	1	500	5.0	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
* = STLC analysis for the metal is recommended (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

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PROJECT: **Landmark School Site / 106166**

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SAMPLE I.D.: **SS-8A-0.5** — LAB I.D.: 060809-79

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	1	500	15	6010B
Arsenic(As)	ND	0.3	1	500	5.0	6010B
Barium(Ba)	48.9	5.0	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total(Cr)	8.66	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt(Co)	3.23	1.0	1	8,000	80	6010B
Copper(Cu)	4.76	1.0	1	2,500	25	6010B
Lead(Pb)	ND	0.5	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.1	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	1	3,500	350	6010B
Nickel(Ni)	5.96	2.5	1	2,000	20	6010B
Selenium(Se)	ND	1.0	1	100	1.0	6010B
Silver(Ag)	ND	1.0	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	1	700	7.0	6010B
Vanadium(V)	21.7	5.0	1	2,400	24	6010B
Zinc(Zn)	29.7	0.5	1	5,000	250	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
* = STLC analysis for the metal is recommended (if marked)
** = Additional Analysis required, please call to discuss (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
-- = Not analyzed/not requested

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

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PROJECT: **Landmark School Site / 106166**

MATRIX: SOIL — DATE RECEIVED: 08/09/06
DATE SAMPLED: 08/09/06 — DATE ANALYZED: 08/11/06
REPORT TO: MR. RUSSELL COTE — DATE REPORTED: 08/16/06

SAMPLE I.D.: **SS-8C-0.5** — LAB I.D.: 060809-81

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Arsenic(As)	ND	0.3	1	500	5.0	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
* = STLC analysis for the metal is recommended (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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LABORATORY REPORT

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PROJECT: **Landmark School Site / 106166**

MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
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DATE REPORTED: 08/16/06

SAMPLE I.D.: **DUP B-0.5**

LAB I.D.: 060809-88

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	1	500	15	6010B
Arsenic(As)	ND	0.3	1	500	5.0	6010B
Barium(Ba)	64.2	5.0	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total(Cr)	10.7	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt(Co)	3.57	1.0	1	8,000	80	6010B
Copper(Cu)	4.08	1.0	1	2,500	25	6010B
Lead(Pb)	ND	0.5	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.1	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	1	3,500	350	6010B
Nickel(Ni)	6.80	2.5	1	2,000	20	6010B
Selenium(Se)	ND	1.0	1	100	1.0	6010B
Silver(Ag)	ND	1.0	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	1	700	7.0	6010B
Vanadium(V)	27.5	5.0	1	2,400	24	6010B
Zinc(Zn)	33.2	0.5	1	5,000	250	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
* = STLC analysis for the metal is recommended (if marked)
** = Additional Analysis required, please call to discuss (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
-- = Not analyzed/not requested

Data Reviewed and Approved by: _____

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
502 South Verdugo Drive, Suite 200
Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**

MATRIX: SOIL — DATE RECEIVED: 08/09/06
DATE SAMPLED: 08/09/06 — DATE ANALYZED: 08/11/06
REPORT TO: MR. RUSSELL COTE — DATE REPORTED: 08/16/06

SAMPLE I.D.: **BG 1** — LAB I.D.: 060809-96

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	1	500	15	6010B
Arsenic(As)	ND	0.3	1	500	5.0	6010B
Barium(Ba)	49.5	5.0	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total(Cr)	8.59	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt(Co)	2.73	1.0	1	8,000	80	6010B
Copper(Cu)	4.56	1.0	1	2,500	25	6010B
Lead(Pb)	ND	0.5	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.1	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	1	3,500	350	6010B
Nickel(Ni)	5.46	2.5	1	2,000	20	6010B
Selenium(Se)	ND	1.0	1	100	1.0	6010B
Silver(Ag)	ND	1.0	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	1	700	7.0	6010B
Vanadium(V)	20.7	5.0	1	2,400	24	6010B
Zinc(Zn)	27.9	0.5	1	5,000	250	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
* = STLC analysis for the metal is recommended (if marked)
** = Additional Analysis required, please call to discuss (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
-- = Not analyzed/not requested

Data Reviewed and Approved by: _____

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
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LABORATORY REPORT

CUSTOMER: **BA Environmental**
502 South Verdugo Drive, Suite 200
Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**

MATRIX: SOIL — DATE RECEIVED: 08/09/06
DATE SAMPLED: 08/09/06 — DATE ANALYZED: 08/11/06
REPORT TO: MR. RUSSELL COTE — DATE REPORTED: 08/16/06

SAMPLE I.D.: **BG 2** — LAB I.D.: 060809-97

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	1	500	15	6010B
Arsenic(As)	ND	0.3	1	500	5.0	6010B
Barium(Ba)	149	5.0	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total(Cr)	10.4	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt(Co)	3.36	1.0	1	8,000	80	6010B
Copper(Cu)	5.35	1.0	1	2,500	25	6010B
Lead(Pb)	5.68	0.5	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.1	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	1	3,500	350	6010B
Nickel(Ni)	6.85	2.5	1	2,000	20	6010B
Selenium(Se)	ND	1.0	1	100	1.0	6010B
Silver(Ag)	ND	1.0	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	1	700	7.0	6010B
Vanadium(V)	23.2	5.0	1	2,400	24	6010B
Zinc(Zn)	41.5	0.5	1	5,000	250	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
* = STLC analysis for the metal is recommended (if marked)
** = Additional Analysis required, please call to discuss (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
-- = Not analyzed/not requested

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
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Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**

MATRIX: SOIL — DATE RECEIVED: 08/09/06
DATE SAMPLED: 08/09/06 — DATE ANALYZED: 08/11/06
REPORT TO: MR. RUSSELL COTE — DATE REPORTED: 08/16/06

SAMPLE I.D.: **BG 3** — LAB I.D.: 060809-98

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	1	500	15	6010B
Arsenic(As)	ND	0.3	1	500	5.0	6010B
Barium(Ba)	137	5.0	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total(Cr)	12.6	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt(Co)	3.84	1.0	1	8,000	80	6010B
Copper(Cu)	5.44	1.0	1	2,500	25	6010B
Lead(Pb)	5.10	0.5	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.1	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	1	3,500	350	6010B
Nickel(Ni)	7.73	2.5	1	2,000	20	6010B
Selenium(Se)	ND	1.0	1	100	1.0	6010B
Silver(Ag)	ND	1.0	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	1	700	7.0	6010B
Vanadium(V)	29.3	5.0	1	2,400	24	6010B
Zinc(Zn)	42.5	0.5	1	5,000	250	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
* = STLC analysis for the metal is recommended (if marked)
** = Additional Analysis required, please call to discuss (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
-- = Not analyzed/not requested

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
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Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: SOIL
DATE RECEIVED: 08/09/06
DATE SAMPLED: 08/09/06
DATE ANALYZED: 08/11/06
REPORT TO: MR. RUSSELL COTE
DATE REPORTED: 08/16/06

SAMPLE I.D.: **BG 4**
LAB I.D.: 060809-99

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	1	500	15	6010B
Arsenic(As)	ND	0.3	1	500	5.0	6010B
Barium(Ba)	181	5.0	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total(Cr)	8.65	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt(Co)	3.23	1.0	1	8,000	80	6010B
Copper(Cu)	6.88	1.0	1	2,500	25	6010B
Lead(Pb)	5.78	0.5	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.1	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	1	3,500	350	6010B
Nickel(Ni)	6.98	2.5	1	2,000	20	6010B
Selenium(Se)	ND	1.0	1	100	1.0	6010B
Silver(Ag)	ND	1.0	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	1	700	7.0	6010B
Vanadium(V)	18.8	5.0	1	2,400	24	6010B
Zinc(Zn)	68.6	0.5	1	5,000	250	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
* = STLC analysis for the metal is recommended (if marked)
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*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
-- = Not analyzed/not requested

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
502 South Verdugo Drive, Suite 200
Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**

MATRIX: SOIL — DATE RECEIVED: 08/09/06
DATE SAMPLED: 08/09/06 — DATE ANALYZED: 08/11/06
REPORT TO: MR. RUSSELL COTE — DATE REPORTED: 08/16/06

METHOD BLANK FOR LAB I.D.: 060809-23,-25,-33,-40, -48,-50,-56,-64,-66,-71,-79,-81,-88,-96,-97,-98,-99

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: MG/KG = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony(Sb)	ND	1.0	1	500	15	6010B
Arsenic(As)	ND	0.3	1	500	5.0	6010B
Barium(Ba)	ND	5.0	1	10,000	100	6010B
Beryllium(Be)	ND	0.5	1	75	0.75	6010B
Cadmium(Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total(Cr)	ND	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	1	500	5.0	7196A
Cobalt(Co)	ND	1.0	1	8,000	80	6010B
Copper(Cu)	ND	1.0	1	2,500	25	6010B
Lead(Pb)	ND	0.5	1	1,000	5.0	6010B
Mercury(Hg)	ND	0.1	1	20	0.2	7471A
Molybdenum(Mo)	ND	5.0	1	3,500	350	6010B
Nickel(Ni)	ND	2.5	1	2,000	20	6010B
Selenium(Se)	ND	1.0	1	100	1.0	6010B
Silver(Ag)	ND	1.0	1	500	5.0	6010B
Thallium(Tl)	ND	1.0	1	700	7.0	6010B
Vanadium(V)	ND	5.0	1	2,400	24	6010B
Zinc(Zn)	ND	0.5	1	5,000	250	6010B

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection Limit or non-detected
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5
* = STLC analysis for the metal is recommended (if marked)
** = Additional Analysis required, please call to discuss (if marked)
*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
-- = Not analyzed/not requested

Data Reviewed and Approved by: _____

CAL-DHS ELAP CERTIFICATE No.: 1555

QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 8/11/2006

Unit : Mg/KG(ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic (As)	060809-20	1.00	99.5	PASS	0	50.0	44.7	89%	45.3	91%	1%
Copper (Cu)	060809-20	1.00	98.7	PASS	5.34	50.0	49.5	88%	51.8	93%	5%
Lead (Pb)	060809-20	1.00	99.4	PASS	0	50.0	44.7	89%	45.8	92%	2%

ANALYSIS DATE. :

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	060809-99	0.300	92.4	PASS	0	0.300	0.265	88%	0.277	92%	4%

MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic (As)	PASS	PASS	PASS	PASS
LEAD (Pb)	PASS	PASS	PASS	PASS
Copper (Cu)	PASS	PASS	PASS	PASS
MERCURY (Hg)	PASS	PASS	PASS	PASS
Accepted Range	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST: Keith

FINAL REVIEWER:

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
502 South Verdugo Drive, Suite 200
Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**

MATRIX: WATER
DATE RECEIVED: 08/09/06
DATE SAMPLED: 08/09/06
DATE ANALYZED: 08/11-14/06
REPORT TO: MR. RUSSELL COTE
DATE REPORTED: 08/16/06

SAMPLE I.D.: **Equip. Blank**
LAB I.D.: 060809-95

TOTAL METALS ANALYSIS
UNIT: MG/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	EPA METHOD
Antimony(Sb)	ND	0.02	1	200.7
Arsenic(As)	ND	0.01	1	200.7
Barium(Ba)	ND	0.10	1	200.7
Beryllium(Be)	ND	0.01	1	200.7
Cadmium(Cd)	ND	0.01	1	200.7
Chromium(Cr)	ND	0.01	1	200.7
Cobalt(Co)	ND	0.02	1	200.7
Copper(Cu)	ND	0.02	1	200.7
Lead(Pb)	ND	0.01	1	200.7
Mercury(Hg)	ND	0.0005	1	245.1
Molybdenum(Mo)	ND	0.1	1	200.7
Nickel(Ni)	ND	0.05	1	200.7
Selenium(Se)	ND	0.02	1	200.7
Silver(Ag)	ND	0.02	1	200.7
Thallium(Tl)	ND	0.02	1	200.7
Vanadium(V)	ND	0.1	1	200.7
Zinc(Zn)	ND	0.01	1	200.7

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection limit or non-detected

Data Reviewed and Approved by: _____

CAL-DHS ELAP CERTIFICATE No.: 1555

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METHOD BLANK REPORT

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Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**

MATRIX: WATER
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE ANALYZED: 08/11-14/06
DATE REPORTED: 08/16/06

METHOD BLANK FOR LAB I.D.: 060809-95

TOTAL METALS ANALYSIS
UNIT: MG/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	EPA METHOD
Antimony(Sb)	ND	0.02	1	200.7
Arsenic(As)	ND	0.01	1	200.7
Barium(Ba)	ND	0.10	1	200.7
Beryllium(Be)	ND	0.01	1	200.7
Cadmium(Cd)	ND	0.01	1	200.7
Chromium(Cr)	ND	0.01	1	200.7
Cobalt(Co)	ND	0.02	1	200.7
Copper(Cu)	ND	0.02	1	200.7
Lead(Pb)	ND	0.01	1	200.7
Mercury(Hg)	ND	0.0005	1	245.1
Molybdenum(Mo)	ND	0.1	1	200.7
Nickel(Ni)	ND	0.05	1	200.7
Selenium(Se)	ND	0.02	1	200.7
Silver(Ag)	ND	0.02	1	200.7
Thallium(Tl)	ND	0.02	1	200.7
Vanadium(V)	ND	0.1	1	200.7
Zinc(Zn)	ND	0.01	1	200.7

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = PQL X DF
ND = Below the Actual Detection limit or non-detected

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

QA/QC for TTLC Metals Analysis --WATER/LIQUID MATRIX

Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 8/14/2006 Unit : mg/kg (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenic (As)	060810-16	1.00	111	PASS	0	1.00	1.00	100%	1.03	103%	3%
Nickel (Ni)	060810-16	1.00	102	PASS	0	1.00	0.850	85%	0.839	84%	1%
LEAD (Pb)	060810-16	1.00	111	PASS	0	1.00	0.819	82%	0.823	82%	0%

ANALYSIS DATE. :

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)		0.00300		FAIL	0	0.00300		0%		0%	#DIV/0!

MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
ARSENIC (As)	PASS	PASS	PASS	PASS
LEAD (Pb)	PASS	PASS	PASS	PASS
Nickel (Ni)	PASS	PASS	PASS	PASS
MERCURY (Hg)				
Accepted Range	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST: _____

FINAL REVIEWER: _____

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
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Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

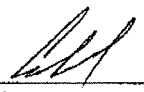
PROJECT: **Landmark School Site / 106166** DATE RECEIVED: 08/09/06
MATRIX: WATER DATE EXTRACTED: 08/11-14/06
DATE SAMPLED: 08/09/06 DATE ANALYZED: 08/16/06
REPORT TO: MR. RUSSELL COTE DATE REPORTED: 08/16/06

SAMPLE I.D.: **Equip. Blank** LAB I.D.: 060809-95

ANALYSIS: CHLORINATED HERBICIDES, EPA 8151A
UNIT: uG/L = MICROGRAM PER LITER = PPB

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	2	1
2,4,5-TP (Silvex)	ND	2	1
2,4-D	ND	20	1
2,4-DB	ND	20	1
Dalapon (Dichloroacetic Acid)	ND	50	1
Dicamba	ND	2	1
Dichloroprop	ND	20	1
Dinoseb (DNBP)	ND	10	1
MCPA	ND	2000	1
MCPP	ND	2000	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 
CAL-DHS ELAP CERTIFICATE No.: 1555

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1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: **BA Environmental**
502 South Verdugo Drive, Suite 200
Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: WATER
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/11-14/06
DATE ANALYZED: 08/16/06
DATE REPORTED: 08/16/06

METHOD BLANK FOR LAB I.D.: 060809-95

ANALYSIS: CHLORINATED HERBICIDES, EPA 8151A
UNIT: uG/L = MICROGRAM PER LITER = PPB

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	2	1
2,4,5-TP (Silvex)	ND	2	1
2,4-D	ND	20	1
2,4-DB	ND	20	1
Dalapon (Dichloroacetic Acid)	ND	50	1
Dicamba	ND	2	1
Dichloroprop	ND	20	1
Dinoseb (DNBP)	ND	10	1
MCPA	ND	2000	1
MCPP	ND	2000	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

QA/QC Report
Analysis: EPA 8151A

Matrix: **Water** Date Analyzed: 8/16/2006
Unit: ug/L (PPB)

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 060814-LCS1/2

Analyte	S.R.	spk conc	MS	% REC	MSD	% REC	%RPD	ACP %RPD	ACP %REC
2,4,5-T	0	5.00	3.33	**67%**	3.05	**61%**	**9%**	**0-20%**	**50-150**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
2,4,5-T	0.500	0.306	61%	**70-130**
2,4,5-TP	0.500	0.323	65%	**70-130**
2,4-DB	5.00	4.96	99%	**70-130**

Surrogate Recovery:

Analyte	spk conc	ACP %	M-BLK	%REC	%REC	%REC	%REC	%REC	%REC
Sample ID:			M-BLK	060809-95					
DCAA	0.20	50-150	93%	72%					

Analyte	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample ID:									
DCAA									

Analyte	%REC	%REC	%REC	%REC	%REC
Sample ID:					
DCAA					

S.R. = Sample Result
spk conc = Spike Concentration
%REC = Percent Recovery
ACP %RPD = Acceptable Percent RPD Range
ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: _____

Final Reviewer: _____

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
502 South Verdugo Drive, Suite 200
Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: WATER
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/11/06
DATE ANALYZED: 08/11/06
DATE REPORTED: 08/16/06

SAMPLE I.D.: **Equip. Blank**
LAB I.D.: 060809-95

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.100	1
alpha-BHC	ND	0.100	1
beta-BHC	ND	0.100	1
gamma-BHC (Lindane)	ND	0.100	1
delta-BHC	ND	0.100	1
alpha-Chlordane	ND	0.100	1
gamma-Chlordane	ND	0.100	1
4,4'-DDD	ND	0.100	1
4,4'-DDE	ND	0.100	1
4,4'-DDT	ND	0.100	1
Dieldrin	ND	0.100	1
Endosulfan I	ND	0.100	1
Endosulfan II	ND	0.100	1
Endosulfan Sulfate	ND	0.100	1
Endrin	ND	0.100	1
Endrin Aldehyde	ND	0.100	1
Endrin Ketone	ND	0.100	1
Heptachlor Epoxide	ND	0.100	1
Heptachlor	ND	0.100	1
Methoxyclor	ND	0.100	1
Toxaphene	ND	20.0	1
Chloroneb	ND	1.00	1
1,2-Dibromo-3-Chloropropane(DBCP)	ND	0.100	1
Hexachlorobenzene	ND	0.100	1
Mirex	ND	0.200	1
Trifluralin	ND	0.200	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by:
CAL-DHS CERTIFICATE # 1555

Enviro – Chem, Inc.
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METHOD BLANK FOR LAB I.D.: 060809-95

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.100	1
alpha-BHC	ND	0.100	1
beta-BHC	ND	0.100	1
gamma-BHC (Lindane)	ND	0.100	1
delta-BHC	ND	0.100	1
alpha-Chlordane	ND	0.100	1
gamma-Chlordane	ND	0.100	1
4,4'-DDD	ND	0.100	1
4,4'-DDE	ND	0.100	1
4,4'-DDT	ND	0.100	1
Dieldrin	ND	0.100	1
Endosulfan I	ND	0.100	1
Endosulfan II	ND	0.100	1
Endosulfan Sulfate	ND	0.100	1
Endrin	ND	0.100	1
Endrin Aldehyde	ND	0.100	1
Endrin Ketone	ND	0.100	1
Heptachlor Epoxide	ND	0.100	1
Heptachlor	ND	0.100	1
Methoxyclor	ND	0.100	1
Toxaphene	ND	20.0	1
Chloroneb	ND	1.00	1
1,2-Dibromo-3-Chloropropane(DBCP)	ND	0.100	1
Hexachlorobenzene	ND	0.100	1
Mirex	ND	0.200	1
Trifluralin	ND	0.200	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by:
CAL-DHS CERTIFICATE # 1555

Enviro-Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

EPA 8081 QA/QC Report

Matrix: **Water** Date Analyzed: 8/11/2006
Unit: ug/L

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)
Spiked Sample Lab I.D.: 060809-95

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0	5.00	4.73	95%	4.78	96%	1%	0-20%	70-130
Aldrin	0	5.00	4.74	95%	4.91	98%	4%	0-20%	70-130
4,4-DDE	0	5.00	4.41	88%	4.46	89%	1%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.500	0.475	95%	75-125
Aldrin	0.500	0.465	93%	75-125
4,4-DDE	0.500	0.452	90%	75-125
Dieldrin	0.500	0.465	93%	75-125

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	060808-71	060809-95				
Tetra-chloro-meta-xylene	50-150	104%	114%	73%				
Decachlorobipneyl	50-150	97%	89%	66%				

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.								
Tetra-chloro-meta-xylene								
Decachlorobipneyl								

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result
spk conc = Spike Concentration
%REC = Percent Recovery
ACP %RPD = Acceptable Percent RPD Range
ACP %REC = Acceptable Percent Recovery Range

* = *Surrogate fail due to matrix interference*
Note: *LCS, MS, MSD are in control therefore results are in control.*

Analyzed and Reviewed By: _____

Final Reviewer: _____

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **BA Environmental**
502 South Verdugo Drive, Suite 200
Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX:WATER
DATE SAMPLED:08/09/06
REPORT TO:MR. RUSSELL COTE

DATE RECEIVED:08/09/06
DATE EXTRACTED:08/14/06
DATE ANALYZED:08/14/06
DATE REPORTED:08/16/06

SAMPLE I.D.: **Equip. Blank**
LAB I.D.: 060809-95

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: ug/L = Microgram Per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	5	1
Bolstar (Sulprofos)	ND	5	1
Chlorpyrifos	ND	5	1
Coumaphos	ND	5	1
Demeton-O	ND	5	1
Demeton-S	ND	5	1
Diazinon	ND	5	1
Dichlorvos	ND	5	1
Disulfoton	ND	5	1
Ethoprop	ND	5	1
Fensulfothion	ND	5	1
Fenthion	ND	5	1
Merphos	ND	5	1
Methyl Parathion	ND	5	1
Mevinphos	ND	10	1
Naled	ND	10	1
Phorate	ND	5	1
Ronnel	ND	5	1
Tetrachlorvinphos (Stirophos)	ND	5	1
Tokuthion (Prothiofos)	ND	5	1
Trichloronate	ND	5	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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METHOD BLANK REPORT

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Tel(818)841-2575 Fax(818)841-2576

PROJECT: **Landmark School Site / 106166**
MATRIX: WATER
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
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DATE ANALYZED: 08/14/06
DATE REPORTED: 08/16/06

METHOD BLANK FOR LAB I.D.: 060809-95

Organophosphorus Pesticides Analysis
Method: EPA 8141A
Unit: ug/L = Microgram Per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	5	1
Bolstar (Sulprofos)	ND	5	1
Chlorpyrifos	ND	5	1
Coumaphos	ND	5	1
Demeton-O	ND	5	1
Demeton-S	ND	5	1
Diazinon	ND	5	1
Dichlorvos	ND	5	1
Disulfoton	ND	5	1
Ethoprop	ND	5	1
Fensulfothion	ND	5	1
Fenthion	ND	5	1
Merphos	ND	5	1
Methyl Parathion	ND	5	1
Mevinphos	ND	10	1
Naled	ND	10	1
Phorate	ND	5	1
Ronnel	ND	5	1
Tetrachlorvinphos (Stirophos)	ND	5	1
Tokuthion (Prothiofos)	ND	5	1
Trichloronate	ND	5	1
Chloroneb	ND	1	1
1,2-Dibromo-3-Chloropropane(DBCP)	ND	1	1
Hexachlorobenzene	ND	1	1
Mirex	ND	1	1
Trifluralin	ND	1	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

EPA 8141A QA/QC Report

Matrix: **Water** Date Analyzed: **8/14-15/2006**

Unit: **UG/L (PPB)**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 060814-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Bolstar	0.00	200	227	**114%**	225	**113%**	**1%**	**0-30%**	**40-140**
Ethoprop	0.00	200	213	**107%**	212	**106%**	**0%**	**0-30%**	**40-140**
Ronnel	0.00	200	225	**113%**	224	**112%**	**0%**	**0-30%**	**40-140**
Phorate	0.00	200	211	**106%**	209	**105%**	**1%**	**0-30%**	**40-140**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Bolstar	20.0	22.8	**114%**	**40-140**
Ethoprop	20.0	21.3	**106%**	**40-140**
Ronnel	20.0	22.5	**112%**	**40-140**
Phorate	20.0	20.9	**105%**	**40-140**

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	060809-95					
Tributyl Phosphate	40-140	101%	108%					
Triphenyl Phosphate	40-140	104%	110%					

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.								
Tributyl Phosphate								
Triphenyl Phosphate								

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
Tributyl Phosphate						
Triphenyl Phosphate						

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

** = Surrogate fail due to matrix interference (If Marked)*

Note: *LCS, MS, MSD are in control therefore results are in control.*

Analyzed and Reviewed By: _____

Final Reviewer: _____

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE # 1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
X 1 Week (Standard)
Other:

Misc.

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Organo chlorine Pesticides (Special List)	Organo phosphorus Pesticide	Chlorinated Herbicides	Paraquat	Arsenic Desecate Sample	Cam-17 metals Desecate Sample	HOLD			COMMENTS
SS-1A-0.5	060809-23	8-9-06	725	SOIL	3	4oC	Ice	X	X	X	X	X					Composite
SS-1B-0.5	-24	↓	722	↓	3		↓	X	X	X	X						Composite
SS-1C-0.5	-25		719		3			X	X	X	X		X				Composite
SS-1D-0.5	-26		729		3			X	X	X	X						Composite
SS-1A-2	-27		727		3									X			
SS-1B-2	-28		724		3									X			
SS-1B-2	-29		720		3									X			
SS-1D-2	-30		731		3									X			
SS-2A-0.5	-31		711		3			X	X	X	X						Composite
SS-2B-0.5	-32		705		3			X	X	X	X						Composite
SS-2C-0.5	-33		658		3			X	X	X	X	X					Composite
SS-2D-0.5	-34		715		3			X	X	X	X						Composite
SS-2A-2	-35		713		3									X			
SS-2B-2	-36		709		3									X			
SS-2C-2	-37	↓	701	↓	3		↓							X			

Company Name: Building Analytics
Address: 502 S. Verdugo D. Ste 200
City/State/Zip: Burbank CA

Project Contact: Russell Cote
Tel: (818) 841-2575
Fax: (818) 841-2576

Sampler's Signature: Russell Cote
Project Name/ID: Landmark School Site 106166

Relinquished by: Russell Cote	Received by: [signature]	Date & Time: 8/9/06 1445	
Relinquished by: [signature]	Received by: WP	Date & Time: 8/9/06 1600	
Relinquished by:	Received by:	Date & Time:	

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 8-9-06

WHITE WITH SAMPLE - YELLOW TO CLIENT

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE # 1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
X 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Organo chlorine Pesticides (Special List)	Organo Phosphorus pesticides	Chlorinated Herbicides	Paraquat	Arsenic (dissolved) CAM-17 metals Discrete sample	HOLD			Misc. COMMENTS
								Analysis Required								
SS-2D-2	060809-38	8-9-06	731	Soil	3		ICE						X			
SS-3A-0.5	-39		620		3			X	X	X	X					Composite
SS-3B-0.5	-40		629		3			X	X	X	X	X				
SS-3C-0.5	-41		638		3			X	X	X	X					
SS-3D-0.5	-42		649		3			X	X	X	X					
SS-3A-2	-43		624		3								X			
SS-3B-2	-44		635		3								X			
SS-3C-2	-45		644		3								X			
SS-3D-2	-46		653		3								X			
SS-4A-0.5	-47		735		3			X	X	X	X					Composite
SS-4B-0.5	-48		740		3			X	X	X	X		X			
SS-4C-0.5	-49		743		3			X	X	X	X					
SS-4D-0.5	-50		745		3			X	X	X	X	X				
SS-4A-2	-51		737		3								X			
SS-4B-2	-52		741		3								X			

Company Name: Building Analytics
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City/State/Zip: Burbank, CA

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Tel: (818) 841-2575
Fax: (818) 841-2576

Sampler's Signature: Russell Cote
Project Name/ID: Landmark School site
1061166

Relinquished by: Russell Cote	Received by:	Date & Time: 8/9/06 1447
Relinquished by:	Received by:	Date & Time: 8/9/06 1600
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
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WHITE WITH SAMPLE · YELLOW TO CLIENT

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0 48 Hours
0 72 Hours
X 1 Week (Standard)
Other:

Misc.

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Organochlorine Pesticide (Special List)	Organophosphorus Pesticide	Chlorinated Herbicides	Paraquat	Arsenic Discrete Sample	CAM-17 metals Discrete Sample	HOLD			COMMENTS
SS-4C-2	060809-53	8-9-06	744	SOIL	3	4°C	ICE							X			
SS-4D-2	-54	↓	747	↓	3		↓							X			
SS-5A-0.5	-55		749		3			X	X	X	X						Composite
SS-5B-0.5	-56		752		3			X	X	X	X	X					Composite
SS-5C-0.5	-57		759		3			X	X	X	X						Composite
SS-5D-0.5	-58		803		3			X	X	X	X						Composite
SS-5A-2	-59		750		3									X			
SS-5B-2	-60		757		3									X			
SS-5C-2	-61		801		3									X			
SS-5D-2	-62		805		3									X			
SS-6A-0.5	-63		808		3			X	X	X	X						Composite
SS-6B-0.5	-64		812		3			X	X	X	X		X				Composite
SS-6C-0.5	-65		822		3			X	X	X	X						Composite
SS-6D-0.5	-66		826		3			X	X	X	X	X					Composite
SS-6A-2	-67	↓	810	↓	3		↓							X			

Company Name: Building Analytics
Address: 502 S. Verdugo Dr. Ste 200
City/State/Zip: Burbank CA

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Fax: (818) 841-2576

Sampler's Signature: [signature]
Project Name/ID: Landmark School site 106166

Relinquished by: [signature]	Received by: [signature]	Date & Time: 8/9/06 1445
Relinquished by: [signature]	Received by: WP	Date & Time: 8/9/06 1600
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 8-9-06

WHITE WITH SAMPLE . YELLOW TO CLIENT

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Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
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Turnaround Time
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0 24 Hours
0 48 Hours
0 72 Hours
X 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Organo chlorine Pesticide (Special List)	Organo phosphorus pesticide	Chlorinated Herbicides	Paraquat	Arsenic	Discrete sample CAM-17 metal	Discrete Sample HOLD			COMMENTS (Misc.)
SS-6B-2	060809-68	8-9-06	820	Soil	3		ICE							X			
SS-6C-2	-69	↓	824	↓	3		↓							X			
SS-6D-2	-70		830		3									X			
SS-7A-0.5	-71		950		3			X	X	X	X	X					Composite
SS-7B-0.5	-72		957		3			X	X	X	X						Composite
SS-7C-0.5	-73		1002		3			X	X	X	X						Composite
SS-7D-0.5	-74		1010		3			X	X	X	X						Composite
SS-7A-2	-75		953		3									X			
SS-7B-2	-76		1000		3									X			
SS-7C-2	-77		1005		3									X			
SS-7D-2	-78		1012		3									X			
SS-8A-0.5	-79		924		3			X	X	X	X		X				Composite
SS-8B-0.5	-80		930		3			X	X	X	X						Composite
SS-8C-0.5	-81		936		3			X	X	X	X	X					Composite
SS-8D-0.5	-82	↓	941	↓	3		↓	X	X	X	X						Composite

Company Name: Building Analytics
Address: 502 S. Verdugo Dr. Ste 200
City/State/Zip: Burbank CA

Project Contact: Russell Cote
Tel: (818) 841-2575
Fax: (818) 841-2576

Sampler's Signature: Russell Cote
Project Name/ID: Landmark School site 106166

Relinquished by:	Received by:	Date & Time:
Russell Cote	[signature]	8/9/06 1445
[signature]	WJ	8/9/06 1600

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 8-9-06

WHITE WITH SAMPLE . YELLOW TO CLIENT

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE # 1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
X 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Organochlorine Pesticide (Expand list)	Organo phosphorus Pesticide	Chlorinated Herbicide	Paraquat #	Arsenic Discrete Sample	CAM-17 metals Discrete Sample	HOLD			Misc. / COMMENTS
SS-8A-2	060809-83	8-9-06	928	SOIL	3		ICE							X			
SS-8B-2	-84	↓	933	↓	3		↓							X			
SS-8C-2	-85		940		3									X			
SS-8D-2	-86		944		3									X			
DUPA-0.5	-87		—		3			X	X	X	X						Composite
DUPB-0.5	-88		—		3			X	X	X	X		X				Composite
DUPC-0.5	-89		—		3			X	X	X	X						Composite
DUPD-0.5	-90		—		3			X	X	X	X						Composite
DUPA-2	-91		—		3									X			
DUPB-2	-92		—		3									X			
DUPC-2	-93		—		3									X			
DUPD-2	-94		—		3									X			
Equip. Blank	-95		—	WATER	5			X	X	X	X		X				
BG 1	-96		1030	SOIL	1								X				
BG 2	-97		1042	SOIL	1								X				

Company Name: Building Analytic
Address: 508 S. Verdugo Dr. Ste 200
City/State/Zip: Burbank CA

Project Contact: Russell Cote
Tel: (818) 841-2575
Fax: (818) 841-2576

Sampler's Signature: [signature]
Project Name/ID: Landmark School site 106166

Relinquished by: [signature]	Received by: [signature]	Date & Time: 8/9/06 1445
Relinquished by: [signature]	Received by: [signature]	Date & Time: 8/9/06 1600
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 8-9-06

WHITE WITH SAMPLE - YELLOW TO CLIENT

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE # 1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
X 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	CAM-17 Metal Discrete Sample	Temperature	Misc.	COMMENTS
				Analysis Required							
BG3	060809-98	8-9-06	1117	SOIL	1		ICE	X			
BG4	-99		1138	SOIL	1			X			
Temp Blank #1	-100		—	WATER	1				X		
Temp Blank #2	-101		—		1				X		
Temp Blank #3	-102		—		1				X		

Company Name: Building Analytics
Address: 502 S. Verdugo Dr. Ste 200
City/State/Zip: Burbank CA

Project Contact: Russell Cote
Tel: (818) 841-2575
Fax: (818) 841-2576

Sampler's Signature: Russell Cote
Project Name/ID: Landmark school site
1061166

Relinquished by: Russell Cote	Received by:	Date & Time: 8/9/06 1445
Relinquished by:	Received by:	Date & Time: 8/9/06 1600
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 8-9-06

WHITE WITH SAMPLE - YELLOW TO CLIENT

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: August 30, 2006

Mr. Russell Cote
BA Environmental
502 South Verdugo Drive,
Suite 200
Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

Project: **Landmark School Site / 106166**
Lab I.D.: **060809-23 through -102**

Dear Mr. Cote:

The **Paraquat results** for the soil and water samples, received by our laboratory on August 9, 2006, are attached. The samples were received intact, accompanying chain of custody and also stored per the EPA protocols.

The samples were received at four degrees Celsius

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

for

Jesse Tu, Ph.D.
Laboratory Manager

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: BA Environmental
502 South Verdugo Drive, Suite 200
Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: Landmark School Site / 106166
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/16&22/06
DATE ANALYZED: 08/29/06
DATE REPORTED: 08/30/06

PARAQUAT ANALYSIS
METHOD: CHEVRON RM8-10
UNIT: uG/G = MICROGRAM PER GRAM

SAMPLE I.D.	LAB I.D.	RESULT	DF
SS-1A-0.5,SS-1B-0.5,SS-1C-0.5, SS-1D-0.5 (COMPOSITE)	060809-23 To -26 (Composite)	ND	1
SS-2A-0.5,SS-2B-0.5,SS-2C-0.5, SS-2D-0.5 (COMPOSITE)	060809-31 To -34 (Composite)	ND	1
SS-3A-0.5,SS-3B-0.5,SS-3C-0.5, SS-3D-0.5 (COMPOSITE)	060809-39 To -42 (Composite)	ND	1
SS-4A-0.5,SS-4B-0.5,SS-4C-0.5, SS-4D-0.5 (COMPOSITE)	060809-47 To -50 (Composite)	ND	1
SS-5A-0.5,SS-5B-0.5,SS-5C-0.5, SS-5D-0.5 (COMPOSITE)	060809-55 To -58 (Composite)	ND	1
SS-6A-0.5,SS-6B-0.5,SS-6C-0.5, SS-6D-0.5 (COMPOSITE)	060809-63 To -66 (Composite)	ND	1
SS-7A-0.5,SS-7B-0.5,SS-7C-0.5, SS-7D-0.5 (COMPOSITE)	060809-71 To -74 (Composite)	ND	1
SS-8A-0.5,SS-8B-0.5,SS-8C-0.5, SS-8D-0.5 (COMPOSITE)	060809-79 To -82 (Composite)	ND	1
DUP A-0.5,DUP B-0.5,DUP C-0.5, DUP D-0.5 (COMPOSITE)	060809-87 To -90 (Composite)	ND	1
METHOD BLANK	---	ND	1
	PQL	1.0	

COMMENTS
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = DF X PQL
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: BA Environmental
502 South Verdugo Drive, Suite 200
Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

PROJECT: Landmark School Site / 106166
MATRIX:WATER
DATE SAMPLED:08/09/06
REPORT TO:MR. RUSSELL COTE

DATE RECEIVED:08/09/06
DATE EXTRACTED:08/15/06
DATE ANALYZED:08/24/06
DATE REPORTED:08/30/06

PARAQUAT ANALYSIS
METHOD: EPA 549.2
UNIT: uG/L = MICROGRAM PER LITER

SAMPLE I.D.	LAB I.D.	RESULT	DF
EQUIP BLANK	060809-95	ND	1
METHOD BLANK	---	ND	1
	PQL	0.4	

COMMENTS
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = DF X PQL
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

SEP 07 2006

NORTH COAST LABORATORIES LTD.

August 29, 2006

Enviro-Chem, Inc.
1214 E. Lexington Ave.
Pomona, CA 91766

Attn: Curt Desilets

RE: 060809-23~95

Order No.: 0608323
Invoice No.: 60566
PO No.: REQUIRED
ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	060809-23~26
02A	060809-31~34
03A	060809-39~42
04A	060809-47~50
05A	060809-55~58
06A	060809-63~66
07A	060809-71~74
08A	060809-79~82
09A	060809-87~90
10A	060809-95

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Colleen Blackstone — Laboratory Supervisor(s)

T. Shaw — QA Unit

(FOR JGC) — Jesse G. Chaney, Jr., Laboratory Director

5680 West End Road • Arcata California 95521-9202 • 707-822-4649 • FAX 707-822-6831

CLIENT: Enviro-Chem, Inc.
Project: 060809-23~95
Lab Order: 0608323

CASE NARRATIVE

EPA 549.2:
Paraquat strongly adsorbs to soil particles that are suspended in water. The strong chemical bonds make the herbicide chemically inactive. When bound with soil particles, the extraction procedure for method EPA 549.2 is ineffective at isolating the bound paraquat. Any reported paraquat represents the dissolved analyte in the water that has not been bound to the soil particles.

The laboratory control sample (LCS) recovery was below the lower acceptance limit for paraquat. The laboratory control sample duplicate (LCSD) recovery was within the acceptance limits; therefore, the data were accepted.

The relative percent difference (RPD) for the laboratory control samples was above the acceptance limit for paraquat. This indicates that the results could be variable. Since there were no detectable levels of analyte in the samples, the data were accepted.

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Date: 29-Aug-2006
WorkOrder: 0608323

ANALYTICAL REPORT

Client Sample ID: 060809-23~26 **Received:** 8/11/06 **Collected:** 8/9/06 0:00
Lab ID: 0608323-01A

Test Name: Paraquat **Reference:** Chevron RM8-10

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Paraquat	ND	1.0	µg/g	1.0	8/16/06	8/29/06

Client Sample ID: 060809-31~34 **Received:** 8/11/06 **Collected:** 8/9/06 0:00
Lab ID: 0608323-02A

Test Name: Paraquat **Reference:** Chevron RM8-10

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Paraquat	ND	1.0	µg/g	1.0	8/16/06	8/29/06

Client Sample ID: 060809-39~42 **Received:** 8/11/06 **Collected:** 8/9/06 0:00
Lab ID: 0608323-03A

Test Name: Paraquat **Reference:** Chevron RM8-10

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Paraquat	ND	1.0	µg/g	1.0	8/22/06	8/29/06

Client Sample ID: 060809-47~50 **Received:** 8/11/06 **Collected:** 8/9/06 0:00
Lab ID: 0608323-04A

Test Name: Paraquat **Reference:** Chevron RM8-10

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Paraquat	ND	1.0	µg/g	1.0	8/22/06	8/29/06

Client Sample ID: 060809-55~58 **Received:** 8/11/06 **Collected:** 8/9/06 0:00
Lab ID: 0608323-05A

Test Name: Paraquat **Reference:** Chevron RM8-10

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Paraquat	ND	1.0	µg/g	1.0	8/22/06	8/29/06

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Date: 29-Aug-2006
WorkOrder: 0608323

ANALYTICAL REPORT

Client Sample ID: 060809-63~66 **Received:** 8/11/06 **Collected:** 8/9/06 0:00
Lab ID: 0608323-06A

Test Name: Paraquat **Reference:** Chevron RM8-10

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Paraquat	ND	1.0	µg/g	1.0	8/22/06	8/29/06

Client Sample ID: 060809-71~74 **Received:** 8/11/06 **Collected:** 8/9/06 0:00
Lab ID: 0608323-07A

Test Name: Paraquat **Reference:** Chevron RM8-10

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Paraquat	ND	1.0	µg/g	1.0	8/22/06	8/29/06

Client Sample ID: 060809-79~82 **Received:** 8/11/06 **Collected:** 8/9/06 0:00
Lab ID: 0608323-08A

Test Name: Paraquat **Reference:** Chevron RM8-10

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Paraquat	ND	1.0	µg/g	1.0	8/22/06	8/29/06

Client Sample ID: 060809-87~90 **Received:** 8/11/06 **Collected:** 8/9/06 0:00
Lab ID: 0608323-09A

Test Name: Paraquat **Reference:** Chevron RM8-10

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Paraquat	ND	1.0	µg/g	1.0	8/22/06	8/29/06

Client Sample ID: 060809-95 **Received:** 8/11/06 **Collected:** 8/9/06 0:00
Lab ID: 0608323-10A

Test Name: EPA 549.2 **Reference:** EPA 549.2

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Paraquat (dissolved)	ND	0.40	µg/L	1.0	8/15/06	8/24/06

NORTH COAST LABORATORIES
5680 West End Road • Arcata, California 95521-9202 • 707-822-4649 • FAX 707-822-6831

North Coast Laboratories, Ltd.

Date: 29-Aug-2006

CLIENT: Enviro-Chem, Inc.
Work Order: 0608323
Project: 060809-23~95

QC SUMMARY REPORT
Method Blank

Sample ID: **MB-16276** Batch ID: **16276** Test Code: **549W** Units: **µg/L** Analysis Date: **8/23/06 11:10:14 PM** Prep Date: **8/15/06**
Client ID: Run ID: **ORLC2_060827A** SeqNo: **616410**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Paraquat (dissolved)	ND	0.40									

Sample ID: **MB-16289** Batch ID: **16289** Test Code: **PARAQS** Units: **µg/g** Analysis Date: **8/29/06** Prep Date: **8/16/06**
Client ID: Run ID: **OLSPEC_060829A** SeqNo: **617280**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Paraquat	ND	1.0									

Sample ID: **MB-16334** Batch ID: **16334** Test Code: **PARAQS** Units: **µg/g** Analysis Date: **8/29/06** Prep Date: **8/22/06**
Client ID: Run ID: **OLSPEC_060829A** SeqNo: **617290**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Paraquat	ND	1.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 29-Aug-2006

CLIENT: Enviro-Chem, Inc.
Work Order: 0608323
Project: 060809-23~95

QC SUMMARY REPORT
Laboratory Control Spike

Sample ID: **LCS-16276**	Batch ID: **16276**	Test Code: **549W**	Units: **µg/L**	Analysis Date: **8/23/06 11:21:03 PM**	Prep Date: **8/15/06**
Client ID:		Run ID: **ORLC2_060827A**		SeqNo: **616411**	

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Paraquat (dissolved)	0.4491	0.40	2.00	0	22.5%	50	126	0			S

Sample ID: **LCSD-16276**	Batch ID: **16276**	Test Code: **549W**	Units: **µg/L**	Analysis Date: **8/23/06 11:31:52 PM**	Prep Date: **8/15/06**
Client ID:		Run ID: **ORLC2_060827A**		SeqNo: **616412**	

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Paraquat (dissolved)	1.734	0.40	2.00	0	86.7%	50	126	0.449	118%	20	R

Sample ID: **LCS-16289**	Batch ID: **16289**	Test Code: **PARAQS**	Units: **µg/g**	Analysis Date: **8/29/06**	Prep Date: **8/16/06**
Client ID:		Run ID: **OLSPEC_060829A**		SeqNo: **617278**	

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Paraquat	4.186	1.0	5.00	0	83.7%	59	101	0			

Sample ID: **LCSD-16289**	Batch ID: **16289**	Test Code: **PARAQS**	Units: **µg/g**	Analysis Date: **8/29/06**	Prep Date: **8/16/06**
Client ID:		Run ID: **OLSPEC_060829A**		SeqNo: **617279**	

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Paraquat	4.336	1.0	5.00	0	86.7%	59	101	4.19	3.53%	20	

Sample ID: **LCS-16334**	Batch ID: **16334**	Test Code: **PARAQS**	Units: **µg/g**	Analysis Date: **8/29/06**	Prep Date: **8/22/06**
Client ID:		Run ID: **OLSPEC_060829A**		SeqNo: **617288**	

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Paraquat	4.246	1.0	5.00	0	84.9%	59	101	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

0608323

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE # 1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
0 1-Week (Standard)
Other:

Misc.
Reference Quote # 878

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	PARAQUAT	Analysis Required	COMMENTS
060809-23~26		8/9		SOIL			None	X		
060809-31~34								X		
-39~42								X		
-47~50								X		
~55~58								X		
-63~66								X		
-71~74								X		
-79~82								X		
-87~90								X		
-95				Water	1		None	X		

Company Name: Enviro-Chem, Inc
Address: 1214 E Lexington Ave
City/State/Zip: Pomona, CA 91766

Project Contact: Curtis Desilets
Tel: 909-590-5905
Fax: 909-590-5907

Sampler's Signature: N/A
Project Name/ID: 060809-23~95

Relinquished by:	Received by:	Date & Time: 8/10/06 11 30
Relinquished by:	Received by: receiptemp 10.0°C	Date & Time:
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client (Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 8/10/06

WHITE WITH SAMPLE - YELLOW TO CLIENT

INVOICE

DATE: August 29, 2006

Remit To: North Coast Laboratories, Ltd.
5680 West End Road
Arcata, CA 95521-9202
Attn: Accounts Receivable

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Invoice To: Enviro-Chem, Inc.
1214 E. Lexington Ave
Pomona, CA. 91766

Attn: Ammy Chang / Accts Payable
Phone: (909) 590-5905

Work Order: 0608323
PO Number: required
Project Name: 060809-23-95

Date Received: 8/11/06

Invoice Number: 60566

Payment Due Date: 9/28/06
Payment Terms: Net 30 Days

Item	Matrix	Code	Qty	List Price	Test Total
EPA 549.2	Aqueous	5021.21	1	$130.00	$130.00
Paraquat	**Soil**	**5021.21**	9	$165.00	$1,485.00

Order TOTAL: $1,615.00

Discount: 0.00%
Surcharge: 0.00%
Misc Charges: $0.00

Comments:

Subtotal: $1,615.00
Payment Received: $0.00

INVOICE Total $1,615.00

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: August 16, 2006

Mr. Russell Cote
BA Environmental
502 South Verdugo Drive,
Suite 200
Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

Project: **Landmark School Site / 106166**
Lab I.D.: **060809-23 through -102**

Dear Mr. Cote:

The **analytical results (except Paraquat)** for the soil and water samples, received by our laboratory on August 9, 2006, are attached. The samples were received chilled, intact and accompanying chain of custody record.

The samples were received at four degrees Celsius

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Jesse Tu, Ph.D.
Laboratory Manager

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: August 29, 2006

Mr. Russell Cote
BA Environmental
502 South Verdugo Drive,
Suite 200
Burbank, CA 91502
Tel(818)841-2575 Fax(818)841-2576

Project: **Landmark School Site / 106166**
Lab I.D.: **060809-23 through -102**

Dear Mr. Cote:

The **additional Trifluralin results** for the soil and water samples, received by our laboratory on August 9, 2006, are attached. The samples were received intact, accompanying chain of custody and also stored per the EPA protocols.

The samples were received at four degrees Celsius

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Jesse Tu, Ph.D. for
Laboratory Manager

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LABORATORY REPORT

CUSTOMER: BA Environmental
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Tel(818)841-2575 Fax(818)841-2576

PROJECT: Landmark School Site / 106166
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/24/06
DATE ANALYZED: 08/25/06
DATE REPORTED: 08/29/06

SAMPLE I.D.: SS-1A-0.5
LAB I.D.: 060809-23

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Trifluralin	0.101	0.002	10

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

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REPORT TO:MR. RUSSELL COTE DATE REPORTED:08/29/06

SAMPLE I.D.: SS-1B-0.5 LAB I.D.: 060809-24

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Trifluralin	0.196	0.002	10

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____

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DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/24/06
DATE ANALYZED: 08/25/06
DATE REPORTED: 08/29/06

SAMPLE I.D.: SS-1C-0.5 LAB I.D.: 060809-25

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Trifluralin	0.010	0.002	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
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PROJECT: Landmark School Site / 106166
MATRIX: SOIL
DATE SAMPLED: 08/09/06
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DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/24/06
DATE ANALYZED: 08/25/06
DATE REPORTED: 08/29/06

SAMPLE I.D.: SS-1D-0.5
LAB I.D.: 060809-26

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Trifluralin	0.005	0.002	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

METHOD BLANK REPORT

CUSTOMER: BA Environmental
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Tel(818)841-2575 Fax(818)841-2576

PROJECT: Landmark School Site / 106166
MATRIX: SOIL
DATE SAMPLED: 08/09/06
REPORT TO: MR. RUSSELL COTE

DATE RECEIVED: 08/09/06
DATE EXTRACTED: 08/24/06
DATE ANALYZED: 08/25/06
DATE REPORTED: 08/29/06

METHOD BLANK FOR LAB I.D.: 060809-23 THROUGH -26

Organochlorine Pesticides Analysis
Method: EPA 8081A
Unit: Mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Trifluralin	ND	0.002	1

COMMENTS:
DF = DILUTION FACTOR
PQL = PRACTICAL QUANTITATION LIMIT
ACTUAL DETECTION LIMIT = PQL X DF
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

APPENDIX 4.22

Cultural and Paleontological Resources

Intensive Phase I Archeological Survey

INTENSIVE PHASE I ARCHAEOLOGICAL SURVEY OF THE WEST RANCH AREA, NEWHALL RANCH, LOS ANGELES COUNTY

1.0 INTRODUCTION

Pursuant to a request from Ms. Gloria Glenn, Vice President - Planning, Newhall Land and Farming Company, an intensive Phase I archaeological survey and cultural resources assessment was conducted by W & S Consultants on the West Ranch portion of the Newhall Ranch, Los Angeles County, California (Figure 1). This survey of this approximately 12,000 acres study area was conducted in two phases, with the first occurring during June and July, 1993, and the second in February through April, 1994. This survey and assessment was intended to identify all cultural resources (prehistoric and historical archaeological sites) within the study area and to offer recommendations for any additional archaeological studies on the property that may be warranted.

The intensive Phase I archaeological survey established that the West Ranch study area has a very low density of prehistoric archaeological remains, apparently due to environmental conditions that were not favorable for aboriginal settlement. Historical archaeological resources, similarly, are restricted to one portion of the West Ranch. Although archaeological sites are present within the study area, they are primarily concentrated in two zones: historical cultural resources at the northeastern boundary of the project; and prehistoric sites on either side of the Santa Clara River, between Potrero and Chiquito Canyons.

This document is intended to summarize the background research conducted as part of the study; to outline the field techniques employed to intensively survey the West Ranch; to describe the results of the survey; and to suggest appropriate additional procedures for cultural resource management within the study area. We begin with a discussion of the background studies, before considering these additional topics in turn.

2.0 BACKGROUND STUDIES

2.1 Project Location and Environment

The West Ranch study area portion of the Newhall Ranch is located in northwestern Los Angeles County, immediately west of the City of Santa Clarita (Figure 1). It includes the Santa Clara River and its north and south banks from approximately Castaic Junction to the Los Angeles - Ventura Counties border; the lower reaches of San Martinez Chiquito Canyon on the north side of the river; and the uplands and valleys on the south side of the river to the crest of the Santa Susana Mountains, which constitutes the major portion of the study area. With the exception of the alluvial floodplain and stream bottom of the Santa Clara River, the West Ranch generally consists of highly disected, steeply sided hills, ridges and mountain peaks, with small and narrow intervening drainages. Potrero Canyon, entering the Santa Clara River from the south, comprises a wide and open valley in the otherwise relatively rugged topography of the southern portion of the study area. Flat, open upland mesas are present on the south side of the river, however. These include Potrero, Grapevine and Airport Mesas from west to east, respectively.

With the exception of the Santa Clara River, per se, the study area is notable for its limited water resources, a fact that undoubtedly affected aboriginal and historical use of the property. The study area south of the river, constituting the major portion of the study zone, for example, apparently contains no springs or streams with potable water (Merrill Castle, personal communication, 1993), and thus is unusually dry, even by inland southern California standards. It is for this

reason, discussed below, that the first Spanish map of the West Ranch area characterizes this region as lomas esterilas, "sterile hills".

Although historic and recent land-use changes have altered the environment considerably from what existed during prehistoric times, at least four major plant associations probably characterized the study area during the aboriginal period. These are chaparral, coastal sage scrub, southern oak woodlands, and riparian associations (cf. Muntz 1974).

The chaparral association covers steeper slopes with poorly developed soils and xeric conditions. It includes the following species: California sagebrush (Artemisia californica), white sage (Salvia mellifera), black sage (S. apliana), purple or white-leaved sage (S. Leucophylla), California encilia (Encilia californica), California buckwheat (Eriogonum fasciculatum), chamise (Adneostoma fasciculatum), buckbruch (Ceanothus cuneatus), scrub oak (Quercus dumosa), toyon (Heteromeles arbutifolia), mountain mahogony (Cercocarpus betuloides), lemonade sumac (Rhus integrifolia) and sugar sumac (R. ovata). This is a particularly common association in the West Ranch study area.

The coastal sage scrub community is the climax community for portions of inland-coastal southern California. It is generally composed of coast buckwheat (Eriogonum cinereum) and wild buckwheat (E. fasciculatum), along with black sage (Salvia apliana), common hazardia (Haplopappus squarrosus), prickly phlox (Leptodactylon californicum), yucca (Yucca whipplei) and California sagebrush (Artemisia californica) as major constituents.

Although both of the above plant associations were undoubtedly of subsistence importance to the aboriginal population of the region, the third association, the southern oak woodland, may have been of primary significance in the inland zones adjacent to the coastal strip. This results because of the great importance placed on the acorn as a food staple by Native Californians (Kroeber 1925), and the rarity of this resource on the coastal side of the Santa Monica Mountains. The association is characterized by the coast live oak (Quercus lobata) and the valley oak (Q. agrifolia), but also would have included various species of native grasses. Although currently restricted in distribution, this association may once have been found across much of the wide, upper reaches of Potrero Canyon and the mesas on the south side of the Santa Clara River. Currently, stands of oak woodlands are still found at higher elevations on the less precipitous ridge/hilltops on the southern side of the property.

The fourth and final plant association consists of riparian habitats, which are localized and poorly diversified woodlands found in areas of perennial moisture. They include such species as arroyo willow (Salix lasiolepsi), mule fat (Baccharis glutinosa), willow dock (Rumex salicifolius), swamp knotweed (Polygonum coccineum), nettle (Urtica holosericea), cocklebur (Xanthium strumarium) and rabbitsfoot grass (Polypogon monspeiensis). Though this plant association is limited in distribution, it can still be considered to have had significant economic importance in aboriginal times, especially in terms of the acquisition of raw materials for items like baskets, cordage and netting. In addition to the obvious aboriginal presence of riparian habitats in the Santa Clara River valley, small riparian habitats were probably once present in some of

the ephemeral drainages tributary to the valley, and in Salt Canyon on the southern side of the river.

2.2 Ethnographic Background

The Upper Santa Clara Valley region, including the West Ranch portion of the Newhall Ranch, appears to have been inhabited during the ethnographic past by an ethnolinguistic group known as the Tataviam. Some controversy exists in reference to this attribution, as the Tataviam are now extinct and were effectively so prior to the initiation of systematic anthropological studies at the turn of the century. But, based on a few existing word lists, descriptions provided by early travelers, mission placenames, and the recollections of other aboriginal informants, the Tataviam are generally accepted as the aboriginal inhabitants of this region. Their language is believed to represent a member of the Takic branch of the Uto-Aztecan linguistic family (King and Blackburn 1976). In this sense, it was related to other Takic languages in the Los Angeles County region, such as Gabrielino/Fernandeño of the Los Angeles Basin proper, and Kitanemuk of the Antelope Valley.

The Tataviam are thought to have inhabited the upper Santa Clara River drainage from about Piru eastwards to just beyond the Vasquez Rocks/Agua Dulce area; southwards as far as Newhall and the crests of the San Gabriel and Santa Susana Mountains; and northwards to include the middle reaches of Piru Creek, the Liebre Mountains and the southwesternmost fringe of the Antelope Valley (ibid; Kroeber 1925; Earle 1990; Johnson and Earle 1990). Their northern boundary most likely ran along

the northern foothills of the Liebre Mountains (i.e., the edge of the Antelope Valley), and then crossed to the southern slopes of the Sawmill Mountains and the Sierra Pelona, extending as far east as Soledad Pass (Earle 1990:94). Ethnographically, at least, the Tataviam do not appear to have controlled the Leona Valley or areas to the north, with the Elizabeth Lake area proper a zone of uncertainty.

Known Tataviam villages during the historic period include: pi?irukung and ?akavaya, both near modern Piru; tsavayu(?u)ng, San Francisquito; etseng, kuvung and huyung, on Piru Creek above Piru; tochonanga, near Newhall; kwarung, Elizabeth Lake; and tsawayung, near Castaic Junction. At kamulus, near modern Rancho Camulos, a mixed Chumash-Tataviam population lived (King and Blackburn 1976:535-6). Because the name kamulus is unquestionably Chumash and not Tataviam, however, the toponym has been viewed as problematical (Johnson and Earle 1990:197); that is, as not reflecting the original (Tataviam) name for this village. Regardless of original name, however, the Spanish missionary Señan, writing in 1804, indicated that the Chumash inhabitants of the village of sécpey had migrated to kamulos, accounting for this admixture (Señan 1962:15). Sécpey is of course now known as Sespe, near the modern town of Fillmore.

The putative historical Tataviam village of tsawayung, also known as chaguayabit or tacuyamam, has generated interest, due to its reported location at Castaic Junction and its association with Asistencia de San Francisco (cf. Henshaw 1955:196; King and Blackburn 1976:536; Johnson 1978; Johnson and Earle 1990). This Tataviam placename is controversial (or at least ambiguous) on two counts. First, the exact location of it was never precisely identified in the historical records.

Although it has been widely presumed to be at or immediately adjacent to the Asistencia, no archaeological or other evidence of such has yet been forthcoming. Second, and moreover, Henshaw (1955:196) argued that it was not the site of a major village where ceremonies were conducted, as many later authors have also assumed. However, John Johnson (personal communication, 1993) has mentioned that there are a significant number of entries in the San Fernando Mission registrar, noting births, baptism, marriages and deaths from persons originally inhabiting this locale, and suggesting that it was once a village of some size. Thus, it remains somewhat enigmatic. At this point, our best interpretation of its original location places it in approximately one-half mile east of the intersection of Rye Canyon Road and Interstate-5, based on evidence discussed subsequently.

Culturally-speaking, the Tataviam were in most respects similar to their Fernandeño and Chumash neighbors, to the south and west, respectively (King and Blackburn 1976). In this sense, they were hunters-gatherers, with subsistence emphasizing yucca, acorns, juniper berries, sage seeds and islay. Game was also hunted, with small animals, such as rabbits/hares and rodents, probably representing more significant contributions of meat protein than larger game, such as deer.

Almost nothing is known of Tataviam social and political organization. Based on analogies with surrounding groups, however, it can be suggested that they were organized in a series of tribelets, similar to the naciones described by Earle (1990) for the Antelope Valley, and found to be characteristic of much of California aboriginal socio-political organization (cf. Kroeber 1925). The tribelet represented an autonomous

land-holding unit, minimally controlled by a head-chief or big-man. They usually included one large, 'capital' village, sometimes occupied year-around, and a series of smaller, seasonally inhabited hamlets. Whether the Tataviam may have had exogomous clans and moieties, like the Cahuilla and Serrano to the east, is unknown. However, it is estimated that the Tataviam population was less than 1000 people at the time of Euro-American contact, and that only two or three of the largest villages throughout their territory were inhabited at any given time (King and Blackburn 1976).

It is also likely that Tataviam religion followed the patterns of their surrounding neighbors. In this case, shamanism would have functioned as the central element. This posits a direct and personal relationship between each individual and the supernatural world, with this relationship enacted by entering a trance or hallucinatory state (usually based on the ingestion of psychoto-mimetic plants, such as jimsonweed or native tobacco). Shamans, per se, who were considered individuals with an unusual degree of supernatural power, served as ritual specialists: ceremonies and rites were infrequent in occasion and limited in type. Perhaps most importantly, shamans served as healers or curers, with the etiology of disease as well as its cure held to lie in the supernatural world. Shamans are also known to have produced the rock art of this region (Whitley 1992), which depicted the hallucinations and spirits they observed in their vision quests.

Although the Tataviam were one of the earliest groups contacted by Spanish missionaries, with a number of their villages described by members of the Portolá expedition of 1769, a general lack of information on this group exists because, by 1810, all Tataviam had been baptized at Mission San

Fernando and were quickly absorbed by other groups through intermarriage. The last speaker of Tataviam died in 1916 (King and Blackburn 1976).

2.3 Archaeological Background

Archaeologically speaking, more information is available on the Upper Santa Clara River area, although here, too, less is known than for many of the surrounding regions of southern California. In general terms, the prehistory of this inland area appears to parallel that of the Santa Barbara Channel/southern California coastal zone (cf. McIntyre 1990), with William Wallace's (1955) cultural historical framework appropriate as a chronological system of reference.

Correspondingly, the earliest evidence for human occupation of this region corresponds to Wallace's Early Millingstone Period (or, alternatively, the Early Horizon), dated from about 7000 to 4000 years before present (B.P.). This represents a period during which subsistance and adaptation are said to have emphasized the collecting and processing of hard seeds, with inland artifact assemblages, correspondingly, dominated by mullers and millingstones known as manos and metates. Evidence for an Early Millingstone occupation of the Upper Santa Clara Valley region is, admittedly, very limited, and has been found at only two sites. Both of these are located near Vasquez Rocks, with temporal attribution based on the presence of a small number of Olivella barrel beads (McIntyre 1990). Such bead types have subsequently proven unreliable temporal indicators, throwing doubt on human inhabitation of this region before about 4000 years ago. Further, recent excavations at one of these putative early locales, the Escondido Canyon Site,

failed to uncover evidence for occupation prior to about 2700 years B.P. (Love 1990).

The second temporal unit in Wallace's chronology is the Intermediate Period (or Middle Horizon), dated from 3500 to 1500 years B.P. It is marked by a shift to the mortar and pestle, with an increased emphasis on hunting and hunting tools in artifact assemblages. Population appears to have increased during this period, with more temporary camps founded. Evidence for Intermediate Period occupation of the Upper Santa Clara Valley region is substantial, in that it has been found at a number of sites and has been based on radiocarbon, obsidian hydration and typological dating (McIntyre 1990). The Agua Dulce village complex, for example, includes occupation extending back to the Intermediate Period, at which time population of the village may have been 50 or more people (King et al n.d.). Furthermore, the Intermediate Period appears to represent a time during which a substantial exploitation of mid-altitude environments first began, with considerable use, for example, of portions of the nearby Hathaway Ranch (located to northwest of the study area) beginning at this time.

Assuming that the Upper Santa Clara River region was first significantly occupied during the Intermediate Period, as existing evidence now suggests, a parallel can be drawn with the inland Ventura County region, where a similar pattern has been identified (Whitley and Beaudry 1991), as well as possibly the Antelope Valley and western Mojave Desert (Sutton 1988a, 1988b). In all of these areas a major expansion in settlement, the establishment of large site complexes, and an increase in the range of environments exploited, appear to have occurred sometime roughly around 3000 years ago. Although most efforts to explain this expansion have focussed on very local

circumstances and events, it is increasingly clear that this was a major southern California-wide occurrence, and therefore that explanation of it must be sought at a larger level of analysis.

There is a continuity in the inland regions between the Intermediate Period and subsequent times, labelled the Late Prehistoric Period, lasting from 1500 years B.P. to historic contact, at about 200 years B.P. Site complexes first occupied in the Intermediate Period continued to be inhabited, although they increased in size, with more specialized and diversified sites added to the kinds of sites present. In fact, the principal distinction between Intermediate and Late Prehistoric sites in the inland regions is a change in certain diagnostic artifact types (notably, projectile points, with a shift from spear points to bow and arrow points). This change in fact may not signify consequential changes in culture, adaptation or subsistence, although the trends begun in the Intermediate accelerate over time during the Late Prehistoric. For example, a large number of Late Prehistoric Period sites are known from the Upper Santa Clara River/Agua Dulce region (cf. McIntyre 1990), with the Agua Dulce village complex estimated to have grown to a population of 200 to 300 people around A.D. 1500 - 1600 (King et al n.d.). Sometime during this period the Tataviam can be hypothesized to have occupied this region, although it is possible that they may have appeared somewhat earlier. However, the important point is that, during the Late Prehistoric Period, the patterns of lifeways recorded for the ethnographic period were fully in operation.

During the Historic Period, the aboriginal population appears to have dropped considerably. This, without doubt, can be attributed to the effects of missionization and its attendant

relocation of the aboriginal population to centralized locales, along with the depredations of introduced Old World diseases. The Upper Santa Clara River region appears to be one of those inland zones, like the Antelope Valley to the north, that quickly and completely lost its aboriginal population. In particular, the aboriginal population from the Upper Santa Clara Valley was moved into Mission San Fernando, in the San Fernando Valley, and the area was effectively depopulated.

2.4 Historical Background

As noted previously, Euro-American mention of the Newhall Ranch region first occurred in the chronicles of the Portolá expedition of 1769, which passed through the San Fernando Valley to Newhall, then to the Castaic Junction area, and then down the Santa Clara River, to Ventura, on its way to Monterey (Bolton 1971; Boneau Companys 1983; Brandes 1970; Cleland 1940). Portolá, in fact, camped at the confluence of the Santa Clara and Castaic Creeks - modern Castaic Junction - and suggested this locale as an appropriate spot for a mission. Portolá described Castaic Junction as follows:

> The country...is delightful and beautiful in the plain, although the mountains that surround it are bare and rough. In the plain we saw many tall and thick cottonwoods and oaks; the watering place [Castaic Junction] consists of an arroyo with a great deal of water which runs in a moderately wide valley, well grown with willows and cottonwoods. We stopped on the bank of the arroyo, where we found a populous village in which people lived without any cover, for they had no more than a light shelter fenced in like a corral...As soon as we arrived they gave us many baskets of different kinds of seeds, and a sort of sweet preserve like little raisins, and another

> resembling honeycomb, very sweet and purging, and made of the dew which sticks to the reed grass. It is a very suitable site for a mission, with much good land, many palisades, two very large arroyos of water, and five large villages close by.
>
> (Bolton 1971:153)

This description, which bears the ledger entry of Tuesday, August 8, 1769, apparently describes a temporary, late summer encampment of Tataviam, judging from the description of the corral-like huts of the village's inhabitants.

Although the Upper Santa Clara Valley region was traversed by a number of Spanish explorers in subsequent years, it initially remained isolated due to rugged topography, even though Portolá had suggested it as a locale for a mission. With the establishment of Missions San Buenaventura, in 1782, and San Fernando, in 1797, late-18th century historical events largely occurred in areas to the west and south of the Upper Santa Clara Valley proper, particularly inasmuch as the Camino Real - the Spanish Royal Road - was eventually established through the Conejo Corridor rather than down the Santa Clara Valley.

However, as the missions increased in size and their herds grew, it became necessary for many of them to establish mission ranchos, or estancias, to allow their cattle to graze some distance from the mission vineyards and fields, per se. With this geographical expansion of mission influence and activities, the Upper Santa Clara Valley region became important, if not pivotal, in a number of events central to the development of southern California. San Francisco Xavier served as the estancia for Mission San Fernando. It comprised the upper reaches of the Santa Clara Valley down to Piru (Cleland 1940; Perkins 1957; Smith 1977) - essentially what

would become the Newhall Ranch - and was established in 1804, a few years after the founding of the mission itself. The headquarters of Estancia San Francisco Xavier was constructed at Castaic Junction, on a bluff overlooking the confluence of the Santa Clara and Castaic Creeks from the south. Eventually it was raised from the status of Estancia to Asistencia, or sub-mission.

The Asistencia de San Francisco Xavier represents the first European settlement of the Castaic Junction region. During this period, its primary function was as a ranching and perhaps agricultural out-station, although it undoubtedly served as a religious outpost as well. Placed at the location suggested for a mission earlier by Father Crespi of the Portolá expedition, it consisted of two rectangular adobe buildings, measuring 105 by 17 feet and 107 by 22 feet, respectively, in size, one of which included a tiled sacristy (Reynolds 1992:17). Eventually a third adobe structure, referred to as the "Old Milk House", was constructed downhill from the main structures, an undated photo of which was published by Perkins (1957:112).

William Lewis Manly, for reasons discussed below, provided a description of the Asistencia in 1849. At that time it was no longer an adjunct to Mission San Fernando but had transferred in ownership to Antonio del Valle when the Asistencia's land was granted as Rancho San Francisco to del Valle by Governor Alvarado in 1839. Notably, Antonio del Valle had served as majordomo and later administrator of Mission San Fernando and its lands from 1834 to 1837, and the family had made supplications to the governor in 1835 and 1837 to obtain a grant in the Santa Clara Valley (Newhall 1958:36; Perkins 1957). When finally awarded, the rancho contained slightly more than 46,000 acres which, as Smith (1977) acknowledges,

was just under the maximum of 11 square leagues then legally allowed.

Manly's description pertains to the period when the Asistencia buildings served as a ranch headquarters for one of a number of del Valle's properties, while he and his family continued to live in Los Angeles. Manly described the Asistencia, his first sighting of California mission architecture, as follows:

> A house on higher ground soon appeared in sight. It was low, of one story with a flat roof, gray in color, and of a different style of architecture from any we had ever seen before. There was no fence around it, and there were no animals or wagons or persons to be seen...but a mule tied to a post told us there was some one about...The house...was built of sun-dried bricks about one by two feet in size, and one end was used as a storehouse...down the hill...[was a]...small, poorly, fenced field which was sometimes cultivated.
>
> (Manly 1924:178-179)

In 1845 the rancho passed to Antonio del Valle's son, Ygnacio. Ygnacio del Valle ultimately became a prominent politician in southern California, serving as Alcalde (mayor) of Los Angeles during the Mexican period, as a member of the Territorial Deputation when California was admitted into the Union in 1850, and in the State Legislature. Forced to fight off efforts by Pedro Carrillo to obtain the western portions of Rancho San Francisco, Ygnacio built a corral at Camulos (the approximate site of the Chumash-Tataviam village of kamulus) in 1841, and finally the Camulos Adobe in 1864, as well as one of the first commercial wineries in the state in 1867 (Smith 1977). The Camulos Adobe, which then became the del Valle family home, was visited by Helen Hunt Jackson in 1882, and served as the

setting for her famous early California novel Ramona. (The D.W. Griffith film "Ramona", starring Mary Pickford, was also filmed at the adobe in 1911).

However, prior to the development of Camulos, the Del Valle ranch headquarters remained at the old site of the Asistencia de San Francisco, above Castaic Junction. Furthermore, it was to the Asistencia that the lead group of the Manly-Walker party - the "Death Valley '49ers" - first emerged out of the wilderness from their efforts to cross the Mojave Desert (Manly 1924:178-179). Manly's description of the Asistencia's buildings, quoted above, represent not only his first sighting of California mission architecture, but his first encounter with civilization, after his harrowing escape from Death Valley.

Following established California agrarian practices, Rancho San Francisco was employed by the del Valles primarily for raising cattle, although Mexican law also required the establishment of an orchard and other agricultural endeavors to validate a land grant (Smith 1977). Perkins (1957:107), for example, recorded that del Valle raised 600 head of cattle on the ranch and planted wheat in a marshy area below Camulos. Notably, however, the original diseño or land grant map for Rancho San Francisco, drawn in 1843, labels the Santa Susana Mountains and hills, south of the Santa Clara River and west of Castaic Junction, as lomas esterilas, "sterile hills" (Smith 1977: frontispiece; Johnson and Earle 1990: Figure 2) which, presumably, was of marginal use to them. This area of "sterile hills" constitutes the large majority of the West Ranch project area.

Rancho San Francisco is, ultimately, the origin for the Newhall Ranch and the Newhall Land and Farming Company. Because the

history of this ranch is very well documented, with complete published accounts provided by Newhall (1958), Perkins (1957), Reynolds (1992), Rolle (1991) and Smith (1977), we provide only a brief summary here.

As is discussed below, del Valle sold the majority of Rancho San Francisco in 1865 for $1.25/acre, retaining only 1500 acres around Rancho Camulos. This 1865 sale was precipitated by the discovery of tar seeps in Pico Canyon, immediately to the south of the original land grant, where oil had been discovered in 1859. The purchasers of the ranch were Thomas A. Scott and Thomas Bard, representing the Philadelphia and California Petroleum Company. Because they believed that ranching and oil were incompatible activities, Scott and Bard subsequently sold 39,503 acres of the ranch to Henry Mayo Newhall, a San Francisco financier, in January, 1875, for $2.20/acre (Newhall 1958; Rolle 1991; Smith 1977). According to Thompson and West (1880:104), shortly thereafter Newhall placed 7000 acres of the ranch under cultivation for wheat and barley, and raised 700 head of cattle and 10,000 sheep. Headquarters for the ranch was adjacent to the Asistencia, in the area of the modern Magic Mountain parking lot.

The town of Newhall was created the following year, as a result of the Southern Pacific Railroad Company's move to place a rail line down the Santa Clara Valley to the coast at Ventura. Although the original development was unsuccessful - due to frequent sandstorms the town's six buildings and name of Newhall were moved three miles to the south in 1878, with the original townsite becoming known as Saugus - ultimately the rail line provided an outlet for the agricultural and ranching products of the ranch, and greatly stimulated oil production in the immediate area (Franks and Lambert 1985:7). For obvious

reasons, both circumstances stimulated the commercial development of the Newhall Ranch.

Henry Mayo Newhall was thrown from his horse on the ranch and died, in San Francisco, in 1883. The ranch then passed to his heirs. According to Rolle (1991:145), the Newhall financial empire subsequently went into decline, coming close to liquidation in 1930. At that point Athol McBean, son-in-law of William Mayo Newhall, was appointed chairman. McBean reorganized the Newhall Land and Farming Company and, aided by a restitution award of three-quarters of a million dollars resulting from the Saint Francis Dam catastrophe (see below), moved the ranch and company back onto sound financial footing. The company has continued as the major agricultural/ranching and land development concern in the region to the present time.

The Rancho San Francisco/Newhall Ranch and the upper reaches of the Santa Clara Valley also figured in three other important episodes in southern California history, two of which are landmarks in the economic history of the state. The first of these is the discovery of gold. Although the history of gold discovery and exploitation in California is often linked with James Marshall's 1848 discovery of gold in John Sutter's Coloma mill-race, it is a well-known fact that gold was found earlier in California 1842, in Placeritas Canyon, by Francisco Lopez, Manuel Cota and Domingo Bermudez (Smith 1977; Outland 1986; Reynolds 1992). But it is by no means clear that even this well-documented incident represents the first true discovery of gold in the state. Instead, a variety of lines of historical evidence suggest that gold may have been mined in the Santa Clara Valley region one to three decades earlier (e.g., see Clark 1970:176).

According to an account published by Outland (1986), a local tale indicates that a group of about 20 men, led by one Santiago Feliciano, left Mission San Fernando in 1820 to explore the Castaic region. After reaching the Castaic Junction area, they headed up Hasley Canyon (north of the study area), and travelled up it about 10 miles. There they discovered gold, and a mining camp, "San Feliciano" (from which San Feliciano Canyon apparently gets its name), was born. The region from San Feliciano to Soledad Canyon was subsequently prospected and mined (mostly for placer deposits) for a number of years, with little record of these efforts presumably resulting because of the legal complications involved in recording gold claims in Mexican California: while the granting of land for agricultural purposes could be effected by the Governor of California, the recording of a gold claim under Mexican law required a trip to Mexico City, an effort none were apparently willing to gamble.

Although, as Outland notes, there is no clear verification for this tale (which ultimately derives from the prominent early settler and local historian S.P. Guiberson), there is nonetheless fairly strong evidence that the Placeritas discovery in 1842 was by no means the first in this region (Smith 1977; Outland 1986; Clark 1970). In 1832, for example, Ewing Young discovered an old ore smelting oven in San Emigdio Canyon (Outland 1986), suggesting that gold mining in the area had occurred for one or two decades prior to the 1842 event, and a number of other sources indicate that the presence of gold in the area was known at least a few years prior to the famous 1842 Placeritas Canyon incident (Smith 1977:32-33), in which gold was discovered by Francisco Lopez.

Lopez's discovery is often trivialized as accidental: a fortuitous event resulting from digging up a wild onion. In fact, Lopez had

been educated at a mining college in Mexico City, and was known to have been systematically prospecting the region prior to the 1842 discovery. As the uncle of Antonio del Valle's widow, he had leased portions of Rancho San Francisco for cattle, and was headquartered at the old Asistencia. There is every reason to assume, thus, that this "official" discovery of gold resulted from intentional prospecting activities, carried out by the then-resident of the Asistencia.

Be this as it may, the 1842 discovery did have one important repercussion: it caused Lopez to continue to look further afield for gold, resulting in his second gold discovery of the state in San Feliciano Canyon (Perkins 1958). In turn, this led to the granting of Rancho Temescal to Lopez and Jose Arellanes, in 1843. This grant included most of Piru Creek, as well as Placerita and San Feliciano Canyons, and totalled over 13,000 acres. Apparently, the legality of this grant under Mexican law has always been a point of some question for, as noted previously, the Governor of California only held the right to award agricultural but not mining grants. However, Thompson and West (1886:74) record that the area was worked by miners from Sonora, Mexico, between 1842 and 1846, at which time they returned to Mexico, and that they extracted between six and eight thousand dollars of gold per year during that period. Nonetheless, about a dozen years later, Rancho Temescal was acquired by Ygnacio del Valle and added to his Rancho San Francisco holdings.

Thus, not only was this region the first in California in which gold was discovered, it was also the first where true oil drilling occurred (Smith 1977), which was the second historical event of statewide importance in the region. This led to discoveries of oil on Rancho San Francisco and, ultimately,

throughout the Santa Clara Valley region. This first major discovery of oil resulted when Ygnacio del Valle sold the majority of his Rancho San Francisco holdings to Thomas Bard, representing Senator Thomas A. Scott, in 1865. Seven weeks later, the first oil well came in on the south side of the Santa Clara River, on property acquired by Bard, near the del Valle adobe (Smith 1977). This discovery, of course, was instrumental in the regional oil boom that ensued.

Following the discovery of oil in the valley, and with the depletion of the (relatively small) placer gold deposits in the region by the 1880s, the Upper Santa Clara Valley region became renowned both for its oil and (ultimately) for its citrus crops. The study area is surrounded by, and includes, a number of oil fields, including the Hasley Canyon and the Castaic Junction Oil Fields to the north, and the Pico Oil Field (with its historical settlement of Mentryville) to the south, that were first developed in this period.

The third local event of historical importance was the collapse of Los Angeles Department of Water and Power's St. Francis Dam and the resulting flood of the Santa Clara River Valley on March 12 and 13, 1928. With the failure of dam close to midnight on March 12, water raged down San Francisquito Canyon to Castaic Junction, which it effectively leveled, and then on to Fillmore, Santa Paula and ultimately to the Pacific, causing great loss of life and destruction along the way. At Castaic Junction, the only survivor of the flood was George MacIntyre, son of the owner of McIntyre's motel and gas station. George was washed northwards by a great arc of the floodwaters, towards Castaic Canyon, where he was able to grab hold of a power pole and avoid drowning; the bodies of his father and one brother were found in Santa Paula; another

brother's body was never recovered. All told, at least 336 known deaths were caused by the flood, 101 individuals were missing and can now be presumed dead, 909 homes were destroyed, and countless acres of orchards were flattened (Outland 1963).

Within the larger Newhall Ranch, but outside of the West Ranch study area at Blue Cut in Ventura County, the flood waters rose to the level of the highway. The restriction of the Santa Clara River stream course at this spot momentarily bottled the flood, resulting in a temporary upsurge of waters against the flood current, creating a whirlpool. An Edison Company work camp of tents housing 150 men had been established at the railroad siding of Kemp, immediately east of Blue Cut, which was innundated by the upsurge. When the flood waters receeded, 84 of these men had been drowned by the catastrophe (Outland 1963:106-107).

In retrospect, it is interesting to note that the Newhall Land and Farming Company had independently hired Harmon Bonte, a consulting engineer, to review the suitability of the Saint Francis Dam in 1924, prior to its construction. Arguing against LADWP's William Mulholland, Bonte contended on the part of his clients that the conglomerate bedrock at the proposed dam site was unfit for dam anchorage. His report was widely published after the disaster, as an indictment of Mulholland's engineering studies (Outland 1963:43), and no doubt contributed to Mulholland's subsequent decision to retire from professional and public life.

In summary, it is apparent that the Newhall Ranch played an important role in both local and state historical events. Although the major portions of the West Ranch study area were

peripheral to these events, the study area nonetheless contained the first European settlement and building in the region; was associated with a number of important historical figures, including Portolá, Crespi, the del Valles, and the Newhalls; and played a role in a series of historical incidents, including the rescue of the Death Valley '49ers, the first discovery of gold in the state, the development of southern California's oil industry, and the Saint Francis Dam catastrophe of 1928.

3.0 ARCHIVAL RECORDS SEARCH

An archival records search of the West Ranch Study Area was completed by the UCLA Archaeological Information Center (AIC) staff to determine whether any prehistoric or historical sites were known on the property, and/or whether all or portions of it had been previously systematically surveyed by archaeologists.

A complete copy of the Records Search is included as Appendix A to this report. In summary form, however, the West Ranch Study Area was found to have never been systematically surveyed, although portions of 13 previous surveys had examined small portions of the property. Only two archaeological sites had been recorded within the study area during these previous studies. The first, CA-LAN-962H, was recorded in 1978 by Bob Edberg and represents the historical Asistencia de San Francisco. The second, recorded by Peak and Associates in 1992, is the prehistoric site of CA-LAN-2133. both of these sites are discussed and described subsequently.

In addition to the records search conducted at the UCLA AIC, we also conducted a preliminary review of existing, published records and maps to aid in defining the zones most likely to contain extant sites. In reference to prehistoric archaeological sites, a map of historical Native American villages in the region (Kroeber 1925; see also King and Blackburn 1976) indicates that all such known villages in the general study area were concentrated along the Santa Clara River, with most of them apparently situated on its north side. Furthermore, the original diseño or land grant map for the Rancho San Francisco, drawn in 1843, also locates these historical villages (Johnson and Earle 1990). In neither map are any of the historical

villages located within the study area, per se. Equally importantly, however, the diseño depicts the upland portions of the West Ranch study area - that is, the vast majority of the study area lying to the south of the river - as lomas esterilas, "sterile hills". This suggests that this area was neither occupied by major Native American villages, nor significantly used during the early historical period. From the perspective of prehistoric archaeological sites, the existing records suggested that the primary area of Native American occupation and use would lie immediately along the Santa Clara River.

Existing records were also useful for identifying areas that might contain historical sites warranting consideration during the CEQA process. These were particularly useful inasmuch as historical site locations were not as greatly constrained by environmental factors as were prehistoric sites. In addition to the 1843 diseño, we examined the Wheeler map of 1879 (Johnson 1978), various published histories of the area (e.g., Thompson and West 1880; Englehart 1927; Perkins 1957; Newhall 1958; Señan 1962; Heil 1974; Cowan 1977; Smith 1977; Outland 1986; Rolle 1991; and Reynolds 1992) and unpublished documents (Woodward n.d.). The Asistencia de San Francisco (CA-LAN-962H) and the adjacent, original headquarters of the Newhall Ranch, located at the eastern side of the project area (discussed below) is one such well-known historical locality. Aside from this specific area, the only additional historical site suggested by the existing records was the "San Martine stage station", said to be located near the Ventura County line (Outland 1986:135; note that we were unable to locate any extant evidence of this historical locality). Thus, the historical records suggested that the concentration of historical sites within the study area should lie at the northeastern end of the West Ranch study area.

4.0 SURVEY METHODS

The intensive Phase I survey of the approximately 12,000 acres West Ranch study area was conducted in two phases: June and July of 1993, and February through April, 1994. Project staff included David S. Whitley, Ph.D., Joseph M. Simon, George Gumerman, Ph.D., Robert Rechtman, Ph.D., Tamara Whitley, M.A., and Thomas Haile.

Field procedures involved spacing the crew at approximately 15 to 20 meter intervals and then walking the property in transects, generally following the contours of the local topography. The groundsurface was examined during these transects to identify evidence of prehistoric sites. Such evidence might include surface artifacts, dark organically rich midden soils, fire-cracked rock resulting from earth ovens and roasting pits, and shell and bone that might represent remnants of dietary remains. Particular attention was paid to cut-banks and road-cuts that exposed buried soils, as well as to rodent-hole backdirt piles that revealed subsurface soils. Any identified archaeological sites were carefully examined in order to obtain an initial estimate of the the existing artifact inventory, and to assess the current site integrity and size.

During the survey special attention was paid to geomorphological conditions that affect the preservation of archaeological remains. Road or bank-cuts that expose subsurface stratigraphy, for example, along with stable geomorphic and depositional environments, were carefully examined for evidence of cultural remains. Given the geomorphology of the current project area, these included saddles in particular, as likely spots for subsurface deposition,

and knolltops as areas also likely to contain cultural resources. In contrast, slopes of greater than about 25% grade, where erosional and gravitational forces would preclude the preservation of archaeological remains, were less intensively examined both because of the negligible possibility that sites might be present on them, and for the safety of the crewmembers.

5.0 FIELD RESULTS

Field conditions for the intensive Phase I survey of the West Ranch study area were, in general, very good. During the period of the survey, vegetative cover was typically low or minimal, affording good groundsurface visibility. Field conditions notwithstanding, the West Ranch study area was found to have a very low density of archaeological remains, with site locations closely conforming to the expectations derived from the review of published and unpublished documents discussed previously. With only two minor exceptions, identified sites are concentrated in two areas: prehistoric sites are principally restricted to both sides of the Santa Clara River in a stretch between the mouths of Potrero and Chiquito Canyons; while historical resources are clustered near the northeastern boundary of the property, near Magic Mountain.

The cultural resources identified and mapped during the intensive Phase I survey are located on Figure 2. Appendix B provides site record forms for each of these sites. They can be described as: a concentration of six prehistoric sites, including one rockshelter, and one isolated artifact along or near the Santa Clara River; one surface site on Grapevine Mesa; one rockshelter in upper Potrero Canyon; and a multi-component historical locality at the eastern end of the study area. We discuss each of these sites in turn.

5.1 Prehistoric Archaeological Sites

A total of eight prehistoric archaeological sites and one isolated artifact were identified during the intensive Phase I

survey. Six of the sites and the isolated artifacts are concentrated along both sides of the Santa Clara River between the mouths of Potrero and Chiquito Canyons. We describe each of these sites, by geographical location, below.

5.11 Santa Clara River Sites

The sites identified along or near the Santa Clara River include two villages, one possible cemetery, two camps, one rockshelter, and one isolated artifact. One of the village sites, CA-LAN-2133, was previously discovered during a pipeline survey that crossed the property. The remaining sites were all newly discovered during the Phase I survey.

CA-LAN-2133 (NLF-1) - Potrero Canyon Mouth Village

The only previously discovered prehistoric archaeological site within the study area is situated on the south side of the Santa Clara River, on a river terrace approximately 500 meters northeast of the mouth of Potrero Canyon. The site appears to cover an area about 200 meters E-W and perhaps 100 meters N-S. However, the southern side of the site, where it abuts the toe of the slope leading to Potrero Mesa, is currently experiencing rapid colluviation. The site is therefore mantled by topsoil to the south and may extend further in this direction.

The site consists of a relatively large village, as indicated by the presence of an organic midden deposit and a wide range of tool types. We noted a chert leaf-shaped projectile point, Olivella shell bead, mano, basket-hopper mortar, and chert, fused shale and quartzite lithic debitage. The debitage included primary, secondary and tertiary flakes. Fire-cracked rock and

burnt animal bone are also present on the site. Furthermore, there are two areas within an eroded cut on the site which appear to represent intact earth-oven features that are being exposed by erosional processes.

Based on the projectile point, which is a large atlatl or dart point, as well as the presence of the basket-hopper mortar, site CA-LAN-2133 appears to date to the Intermediate Period, or from about 3500 to 1500 years B.P. (before present). Although the eroded cut, noted above, has disturbed a portion of the site, CA-LAN-2133 appears to be mostly intact and to maintain a high degree of integrity.

CA-LAN-2241 (NLF-2) - Potrero Canyon Mouth # 2

Immediately to the east of CA-LAN-2133, but on a separate and lower river terrace, we discovered evidence of a second archaeological site. This was encountered in a bulldozed area, alongside the existing dirt road, which exposes some deeply lying sediments within which the site is found. The site's temporal and functional relationship to CA-LAN-2133 is unclear. Based on its location on a separate landform than CA-LAN-2133, and its relatively great depth within the soil profile, we believe that CA-LAN-2241 warrants designation as a distinct site.

At CA-LAN-2241 we found possible evidence of a human interment. This comprised a few broken and highly scattered bones that, based on preliminary observations, may be human in origin. They were found on the groundsurface in a scraped area but appear to be derived from a within a white, non-organic, sandy alluvium that is entirely distinct from the midden soil found at site CA-LAN-2133. There was no evidence to suggest

that any artifacts were associated with this possible interment as grave goods, and the strata from which the bones were apparently derived was close to artifact-free. However, we did discover a fragmentary steatite bowl, broken mortar, a pestle and a single quartzite flake eroding out of the deposit at the same level as the possible human bones.

Mortars and pestles typically date from the Intermediate Period into more recent times in southern California, or to sometime during the last 3500 years. However, occasional discoveries of mortars and pestles in putatively much earlier sites leave their dating in question. While the presence of these artifacts in the deposit of the site, then, suggests that it may date to the same time period as CA-LAN-2133 nearby, this inference is still to be determined. In particular, the nature of the soil combined with the depth and location of the bones and artifacts (approximately 5 feet below grade) argue, to the contrary, that CA-LAN-2241 might be somewhat older.

CA-LAN-2241 is currently in very poor condition. The small terrace that it sits upon, originally perhaps 60 by 60 meters in size, is at least one-half eroded away by recent arroyo cutting. The existing dirt road and recent bulldozer cut, although serving to expose a site that otherwise could not have been identified from the groundsurface alone, have also removed a large section of the archaeological stratum. We estimate that less than 25% of the original site area is still in existence. Further, it is apparent that the few fragmentary bones that have eroded out of the soil are very fragile and could easily be destroyed by natural processes, such as erosion and arroyo cutting.

CA-LAN-2235 (NLF-3) - Chiquito Canyon Village

What appears to be a small village site was discovered on the western side of the mouth of San Martinez Chiquito Canyon. It is located north of Highway 126 on a low knoll; currently an occupied farm house sits on its southern half. We noted substantial evidence of fire-cracked rock, possible midden soil, some shell, core/cobble complex tools, a possible metate fragment, and lithic debitage at this locale, principally around the periphery of the yard containing the house. Although no temporal diagnostics were noted among the surface artifacts, our preliminary estimate is that CA-LAN-2235 dates to the Late Prehistoric period. The area containing the site measures approximately 150 by 50 meters.

Construction of the house on the site has unquestionably resulted in considerable damage to its integrity. However, intact portions of the deposit still may be present peripheral to the house.

CA-LAN-2234 (NLF-4) - Chiquito Canyon Camp # 1

A relatively small site was discovered on the south side of Highway 126, immediately to the east of the San Martinez Chiquito Canyon. The site sits between the highway and the original railroad right-of-way, and measures approximately 100 by 100 meters in size.

Although no evidence of midden soil was found at this locale, the surface of the site contained a moderate density of lithic debitage (principally quartzite and chert primary flakes), fire-cracked rock, and two manos. A small erosional cut on the site exposed a concentration of fire-cracked rock at a depth of about 20 centimeters. Accordingly, our preliminary interpretation is

that this site represents a small camp that is partly buried by natural colluvial processes.

Road construction and disking have disturbed the site to some degree and, in the interim between the two phases of the fieldwork, it was buried with a cap of fill (apparently to control erosion in this area), but it appears to be in fair condition. Although no temporal diagnostics were noted on the surface of the site, it is likely that it was functionally and temporally related to the occupation of CA-LAN-2235, the larger village site located a few hundred meters to the northwest.

CA-LAN-2233 (NLF-5) - Chiquito Canyon Camp # 2

A second campsite (possibly a small village) was located approximately 175 meters west of the mouth of San Martinez Chiquito Canyon, also on the high river terrace containing Highway 126. This site is similar in many respects to CA-LAN-2234, although apparently larger and more intact. It is located on either side of Highway 126 from the high bank of the stream to approximately 50 meters north of the highway. This area includes not only the highway right-of-way, but the original SPRR line as well, which ran parallel and south of the road. Railroad and highway construction, in other words, has seriously impacted the central portion of this site. Furthermore, the site area has been farmed for may years. Thus, its current integrity can only be considered moderate. We estimate its current dimensions at about 200 meters E-W by 150 meters N-S.

The site contains a high density of surface artifacts on its southern side, and a lower density to the north, upslope of the

highway, although these differences probably reflect recent agricultural activities and other impacts, rather than original condition. As at CA-LAN-2234, the artifacts consist principally of debitage and fire-cracked rock. The debitage includes chert/jasper, quartzite and fused shale flakes, including primary, secondary and tertiary specimens. The fire-cracked rock tends to be concentrated in about a half-dozen spots on the site, suggesting that relatively intact hearths or earth ovens may be present. Manos and core-cobble complex tools were also noted north of the highway.

No evidence of midden soil was noted and, in a small erosional cut on the site, we saw no indications of a subsurface component. However, it is possible that a low density of subsurface material has been buried by natural colluvial processes, as at CA-LAN-2235. Again, although no temporal diagnostics were noted on the groundsurface, it is likely that CA-LAN-2233 was functionally and temporally associated with the village at CA-LAN-2235.

As noted above, the highway and railroad may have destroyed the central portion of CA-LAN-2235. However, aside from some disking, the extant portion of the site appears to be in fair condition, notwithstanding the fact that the northern half once comprised a walnut orchard, which was removed over a decade ago.

CA-LAN-2242 (NLF-8) - Martinez Grande Cave

This site is a small west-facing cave, located on the eastern side of San Martinez Grande Canyon, slightly less than one mile north of the Santa Clara River. The cave measures approximately two meters deep by 3.5 meters wide, with a

ceiling that is currently about 1.5 meters high. However, judging from the exposure at the cave entry, it appears that as much as half a meter of soil may be blanketing the cave floor. The wall and ceiling of the cave currently have what appears to be deeply engraved historical grafitti. At the back wall, the word "MERRY" could be identified; other unintelligible words/letters are present on the ceiling. With the exception of this grafitti, the cave appears undisturbed.

Soil in the cave consists of fine, wind-blown sand, with no evidence of an organic midden-like soil. The cave ceiling is also currently free of fire-blackening. Although this last condition may have resulted from recent wind erosion on the ceiling, there is currently no evidence that the cave was used as a habitation, per se, in the sense of a living area. However, two aboriginal artifacts in the form of worked, ancient pieces of wood, are present on the surface of the cave, in a pack-rat nest, attesting to aboriginal use of it, probably as a cache cave.

Cache caves are common in the inland Los Angeles and Ventura Counties region (W & S Consultants 1989). In the immediate vicinity of this site (but outside of the study area), the important cache site Bower's Cave (CA-LAN-36) was discovered (Elsasser and Heizer 1963; Van Valkenburgh 1952). Although it is immediately apparent that this newly discovered cave does not contain a major cache of religious artifacts such as was found in Bower's Cave, it is likely that it was used for the temporary storage of utilitarian items and foodstuffs, as was common in the region, and thus is likely to contain a small quantity of buried archaeological remains.

Isolate-1

The final cultural resource located in the vicinity of Potrero and Chiquito Canyons was an isolated artifact, found within the flood channel of the river on its northern side. This consists of a broken, basket-hopper mortar, found immediately west of the mouth of San Martinez Grande Canyon. It is likely that it washed down the river (perhaps from the sites discovered near the mouth of Chiquito Canyon) during some flood season.

5.12 Other Prehistoric Sites

In addition to the concetration of sites along the Santa Clara River between Potrero and Chiquito Canyons, two other prehistoric archaeological sites were discovered during the intensive Phase I survey.

CA-LAN-2236 (NLF-6) - Grapevine Mesa Lithic Scatter

A very low density surface scatter of lithic flakes was discovered on the northern end of Grapevine Mesa, where it overlooks the Santa Clara River to the north. We identified approximately 8 primary quartzite flakes, spread over an area about 100 by 100 meters in size.

Although the site has suffered minor disturbance from disking, it appears essentially intact. This site apparently represents a small lithic workshop area. It is unlikely to contain a subsurface deposit.

CA-LAN-2240 (NLF-7) - Potrero Canyon Rockshelter

On the southeastern side of the study area, in a small tributary to Potrero Canyon, a small, dry rockshelter was located which may contain evidence of prehistoric use. The rockshelter measures approximately 5 meters across and 3 meters in depth, with a height of about 1.5 meters. The roof of the shelter is fire-blackened and a chert flake was noted on the groundsurface immediately outside of the dripline. Although it does not appear that this shelter served for intensive occupation or use, small rockshelters and caves were almost invariably employed as cache locales prehistorically, as noted above. Thus, it is likely that a small quantity of buried remains may be present in the aeolian deposit in this shelter.

5.2 Historical Archaeological Sites

Historical cultural resources are concentrated in what can best considered a single locality: the northeastern end of the project area, adjacent to the boundary with Magic Mountain. This area includes the Asistencia de San Francisco Xavier and the original Newhall Ranch headquarters. Both of these have been previously recorded as distinct archaeological sites but, because they grade into one another, they are most appropriately discussed as a different temporal components of a single archaeological locality.

5.21 The Asistencia (CA-LAN-962H)

The Asistencia de San Francisco Xavier proper is recorded as site CA-LAN-962H in the files of the UCLA Archaeological Information Center. It is registered as California Historical

Landmark 556 and is also listed in Historic Landmarks in Los Angeles County (County Superintendent of Schools, Los Angeles, 1956). It was originally founded in 1804 as an outpost or Estancia of Mission San Fernando, and was elevated to the status of an Asistencia, or sub-mission subsequently, probably when a second adobe structure on the site was built. The Asistencia continued to be occupied until at least 1861, however, having served as the original headquarters of Rancho San Francisco, controlled by the del Valle family. It was also the location at which Francisco Lopez resided when he made the first "official" discovery of gold in California, in Placeritas Canyon, in 1842. Furthermore, Manly and Rogers of the Death Valley '49ers first emerged into civilization at the Asistencia, in search of aid to rescue the other members of the stranded Bennett-Arcane party of Death Valley '49ers, as discussed above. Thus, the site not only represents the first Euro-American occupation of the Upper Santa Clara Valley region, but it was also associated with a series of notable historical persons and events in California history.

The Asistencia consisted of two long, rectangular buildings, connected by a low wall, and a kiln, located on a terrace overlooking the Santa Clara River and Castaic Junction; a small "milk house", said in one reference to lie in an adjacent canyon (Reynolds 1992) and, in another, to stand on the slope below the two main buildings (Smith 1977); a roadway and a series of ancillary corrals, fields, and so on, on the large flat below the two main structures. The two primary adobe buildings, on the terrace overlooking the river, apparently included tile flooring, a granary, and a small chapel. Perkins (1957) has published an undated photo of the "milk house". From the photo, it appears that this adobe structure stood on the slope below the terrace containing the main adobe buildings.

None of the existing documents indicate that the main buildings on the terrace were modified to any extent once the Asistencia was taken over by the del Valles when they acquired Rancho San Francisco in 1839. In fact, it appears that the principal del Valle residence was in Los Angeles until they moved the ranch headquarters, and the family, to the Camulos Adobe in the 1860s (cf. Smith 1977:116). Manly's (1924:178-179) description of the Asistencia in 1849, quoted previously, suggests that the Asistencia may have been principally occupied by ranch-workers.

A very brief, one-day exploratory excavation of the Asistencia was conducted in 1933 by Arthur Woodward of the Los Angeles County Museum of Natural History. Although Woodward published no report on this project, we have obtained a copy of his unpublished one-page typewritten fieldwork summary from the Museum (see Appendix C). Woodward's excavation goal was apparently just to define the orientation, size and number of internal rooms of the two main structures on the terrace. Judging from Smith's (1977:245, n. 29) published comments, Woodward's 1933 testing was planned as a preliminary effort to be followed by later, more substantial excavations at the site, which were never realized.

In his preliminary effort, Woodward found that the buildings had cobble foundations that were 24" wide and 20" deep, surmounted by adobe brick walls almost three feet thick. The first or northern structure was 105 feet long (E-W) by 17 feet wide (N-S). The second structure, parallel and to the south of the first, was slightly larger: 107 by 22 feet, divided into five separate rooms, one of which was an altar and chapel. Both buildings had tile roofs and floors.

Woodward evidently made no systematic effort to recover an artifact collection from the site during his one-day excavation. His typewritten notes indicate solely the recovery of a "few fragments of English blue pottery", a silver band and a small Spanish coin. According to recent conversations with Mr. Chris D. Coleman (personal communication, 1993), Collections Manager for the Anthropology Section of the Museum, there is no known artifact collection from this site currently housed at the Museum.

According to Smith (1977:245, n. 29), Woodward's intentions to continue with excavating the site were "abandoned in 1937 when vandals broke up the tile floors and removed most of the adobe walls in a search for mission treasure". A note in Historic Landmarks in Los Angeles County (p. 51) states further that the portions of the adobe wall and kiln that were still-standing following Woodward's excavation were subsequently bulldozed. A local resident has told us that this bulldozing occurred to discourage the vandals and pothunters that were apparently trespassing on and looting the site.

On the terrace area where the two main structures once stood we re-located a dense concentration of historical archaeological remains, including evidence of the cobble building foundations. This portion of the site includes an historical midden (i.e., kitchen refuse deposit) containing quantities of ash and burnt bone, and a considerable quantity of artifacts. These include roof and floor tiles, adobe bricks, hand-blown bottle glass, hand-made nails, and ceramics. Included in the ceramics are examples of pearlware, produced principally between 1780 and 1830, shell-edged ware (1750 - 1830), and annular ware (1795 - 1815). One ceramic maker's

mark was also noted on a whiteware sherd. This is the William Adams and Sons "Damascus" mark, produced about 1840 (Praetzellis et al 1983; Felton and Schulz 1983). Thus, it is apparent that substantial archaeological remains are intact on the site, including some architectural remains.

Although the artifact density is significantly lower below the terrace area, per se, we did identify a few specimens of mission-era remains (floor tiles, adobe brick and ceramics) in the large open area below and to the southeast. Currently, three houses are occupied below this terrace, and graded pads for two or more additional structures are evident. It is likely that additional Asistencia remains (privies, perhaps the foundations of the "milk house") are preserved in-and-around these houses and their yards. Furthermore, the original mission-era road is still intact in places along the hillside to the southeast of the terrace.

One issue related to the Asistencia warrants mention at this time, which has been alluded to above. This is the contention that the Asistencia was located at or near a major historical Tataviam village labelled in different orthographies as chaguayabit, tsawayung and tacuyamam (Perkins 1957; King and Blackburn 1976; Johnson 1978; Johnson and Earle 1990). This village is widely recognized as having been located in the Castaic Junction area and, although some have assumed it was located at the same spot as the Asistencia, its exact location has, in fact, never been determined. Various archaeologists have looked for evidence of the village. In 1990, Dr. Louis Tartaglia unsuccessfully attempted to locate it using a back-hoe. We found no evidence to suggest that it was located within or adjacent to the West Ranch project area, let alone at the Asistencia per se, although we intensively surveyed both sides

of the river bank upstream and downstream of this historical Euro-American site.

In addition to the mounting negative evidence suggesting that the village was actually not located at or immediately near the Asistencia, there is additional evidence supporting the interpretation that it may have been in the general Castaic Junction vicinity and not at this locale, per se. First, the Spanish in fact did not usually place their camps and settlements within or immediately adjacent to existing villages, due to health reasons. As a number of chroniclers recounted, the villages usually were ridden with vermin, so the Spanish preferred to establish their habitations some distance away. Second, Arthur Woodward worked at the Asistencia in 1933 while he and Richard Van Valkenburgh were conducting excavations at another historical Tataviam village in nearby Piru Canyon. Had there been a major prehistoric site at or close to the Asistencia in 1933, it is almost certain that Woodward and Van Valkenburgh would have noted such in his notes and maps, and investigated it directly. Further, that Woodward apparently conducted no investigations at the village suggests that, even in 1933 when he was working in the region, its location was unknown.

Thus, the actual whereabouts of chaguayabit/tsawayung may remain a mystery, but it does not appear to have been at the Asistencia, per se. It is possible that it may have been slightly lower lying than the Asistencia, and thus could have been destroyed by the San Francisquito Dam flood of 1928. According to Outland (1963), the waters of the flood raged across four miles of what was then Highway 99 (now I-5) at Castaic Junction, with the water as much as 30 feet high. Any archaeological site lying within the path of this flood, either at

Castaic Junction or further downstream on the Santa Clara River, clearly would have been destroyed by this catastrophe. Perhaps more likely, a Late Prehistoric village site has been identified and excavated about one-half mile east of the intersection of Interstate 5 and Rye Canyon Road, within an existing business park. This excavation resulted in the recovery of nine burials, suggesting that the site was a major or at least significant village locale. Our best estimate, unless and until additional evidence is obtained, is that chuguyabit/tsawayung was this Rye Canyon Road site.

In summary, the Asistencia can be considered a significant historical resource within the West Ranch study area. Although the built-structures have been destroyed over the years, it is apparent that their archaeological remnants are still largely intact, and that much of the historical land-use fabric (such as the mission road) is still evident at this locale.

5.22 The Newhall Ranch Headquarters (CA-LAN-961H)

The Newhall Ranch, founded by Mr. Henry Mayo Newhall in 1875, was originally headquartered at essentially the same locale as the Asistencia (Newhall 1958; Perkins 1957; Rolle 1991). The Newhall family home, the focus of the ranch headquarters, is recorded as site CA-LAN-961H at the UCLA AIC. It was located immediately off-property in what is now the Magic Mountain parking lot, though the house itself has been moved to the William S. Hart Park.

Features and historical artifacts from the ranch headquarters, however, are still present within the West Ranch project area,

overlapping with the extent of the Asistencia. In particular, the southernmost of three occupied houses in this area appears to be an example of turn-of-the-century, vernacular ranch architecture. It is 1"x12" board and batten construction, probably without internal studs, currently sitting on a concrete block foundation. Although this last fact indicates that it was moved to its present location sometime after its original construction, it nonetheless may represent a relatively intact example of historical, rural southern California architecture. Other historical features (e.g., privy pits, old structure foundations) may also be located in this same general area.

The historical cultural resources on the northeastern side of the West Ranch study area, accordingly, include remains and evidence of land-use dating from the Mission, Mexican rancho, and early Anglo-American periods. Indeed, this portion of the property documents the changing land-use patterns during this early, transitional period in California history, as well as the initial Euro-American occupation and use of the Upper Santa Clara River Valley. These scattered remains can be estimated to cover an area approximately 600 by 200 meters in size. However, the majority of them appear to be concentrated towards the north, around the terrace containing the Asistencia proper and the occupied houses immediately below.

6.0 SUMMARY AND RECOMMENDATIONS

An intensive Phase I archaeological survey and cultural resources assessment was conducted on the approximately 12,000 acres West Ranch study area, Newhall Ranch, northwestern Los Angeles County, California. This study, which involved an on-foot survey of the property and a review of written and unpublished documents on the archaeology, history and ethnography of the region, resulted in the evaluation of one previously recorded prehistoric (Native American) sites, the discovery of seven previously unrecorded prehistoric archaeological sites, one isolated artifact, and the assessment of two previously recorded historical (Euro-American) sites. In general, archaeological site density in the study area was found to be very light, probably due to the limited availability of water away from the Santa Clara River, with the identified sites, accordingly, clustering along the river course.

Identified sites were found in two primary concentrations. The first concentration is along both sides of the Santa Clara River, between the mouths of Potrero and Chiquito Canyons, where six prehistoric sites and one isolated artifact are found. Four of the sites and the isolate are located on the north side of the river near Chiquito Canyon; the remaining two sites are on the south bank near Potrero Canyon. The second concentration of cultural resources consists of a historical locality, found on the northeastern side of the study area near Magic Mountain. This includes the Asistencia de San Francisco Xavier (CA-LAN-962H), which also served as the original Rancho San Francisco headquarters occupied by the del Valle family, and the historical Newhall Ranch headquarters (CA-LAN-961H). (Although these two historical sites have been given different

trinomial designations, and though the primary focus of CA-LAN-961H was the Newhall house which is now off property, that portion of them within the study area properly should be considered a single historical locality containing different temporal/cultural components). In addition, two smaller prehistoric archaeological sites, consisting of a small surface scatter and a small rockshelter, were also located within the study area.

6.1 Recommendations

According to the guidelines provided by Appendix K of the California Environmental Quality Act (CEQA), Phase II test excavations and determinations of site significance are required for all sites that have the potential to be directly impacted by a proposed project. We therefore recommend that Phase II test excavations and determinations of site significance be conducted on the eight prehistoric archaeological sites and the historical locality within the study area. Recording of the isolated artifact designated I-1 will, according to CEQA guidelines, satisfactorily mitigate any adverse impacts to this artifact. No additional archaeological work, therefore, is required in reference to this resource.

The Phase II study for the eight prehistoric sites and the historical locality should be designed to provide baseline data from which the size, nature and significance of each resource can be determined. Final recommendations for the management or disposition of each of these cultural resources can then be provided, based on the results of the Phase II test excavations, and the determinations of significance derived therefrom.

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8.0 Figures

List of Figures

1 - The West Ranch study area, Newhall Ranch, northwestern Los Angeles County, California.

2 - Location of identified archaeological sites within the West Ranch study area.

9.0 APPENDIX A: ARCHIVAL RECORDS SEARCH

CONFIDENTIAL

10.0 APPENDIX B: SITE RECORD FORMS

CONFIDENTIAL

11.0 APPENDIX C:
WOODWARD'S REPORT ON THE ASISTENCIA

Investigation of adobe ruins located on the Newhall Rancho about one mile from Castaic unction, California. May 13th. 1933.

In the party were Arthur Woodward, Curator of History, Los Angeles Co. Museum.
Dr. John Nordskog.
J. Marshall Miller.
R. F. Van Valkenburg of Field Staff L.A.Co. Museum.
A. B. Perkins.
Arthur Perkins.
Valentine Perkins.

The apparent length of the original structure was 107'-4" and the width was 22'-8", the nterior width was 17'. Work by Mr. Woodward, Dr. Nordskog, Mr. Miller, and Mr. Van Valkenburg showed a rubble foundation 24" wide and 20" deep, surmounted by adobe brick walls '-10" thick made of sun baked adobe bricks approximately 10" x 21" x 3½". Cleaning away f rubbish exposed a tile floor, portions of which were exposed in places These were kiln-urned flat floor tile, laid without bonding, of sizes 11"x 11", 11"x 11½", and 8½"x 11½", ll being from 1½" to 2" thick. The top of the foundation approximated the top of the loor line. The foundation was laid with adobe lime mortar, as also the walls. The inside as apparently plastered with this mix.

The main building was apparently divided into five appartments running, from the west, s follows in width 25', (from outside to partition center) 20', (partition center to par-ition center) 16' (last named centers) 22' (likewise) 25'- 6" (this from partition center o outside edge of wall). Lack of time made it impossible to locate the entrances. From ile fragments found on the floor, in the debris, and on the surrouding hillside, the struct-ire was apparently roofed with typical Mission roof tile, the matt of the tile being approx-mately ⅜" thick, Kiln-burned.

A few fragments of English blue pottery, typical of other finds at mission ruins, were found, also a small metal (possibly silver) band, about 2" long and 3/8" in width (widened t center) apparentlt cut for inlay (opinion of Mr. Woodward) and one small Spanish silver oin (probably a reale, but not yet deciphered).

Owing to lack of time, openings were not definitely located, and the rubbish was not thouroughly cleared from the floor, nor screened.

The tile floor in place was cleared for about a 5' length and two tile width at a point about 30' from southwest corner on southerly line. Adjacent to the tile floor in place, was one of several excavations on the ruins, made at some time in the past, possibly by treasure unters, which had gone two or three feet below floor level and also taken out part of one tier of the wall bricks. The laying of the adobe bricks in the main walls was rather strange. On the long north wall the adobe brick toward the interior were all laid parallel to the length of the wall and although bonded with one another there was no bond with the bricks to the exterior which were all laid perpendicular to the length of the wall and bonded with each other. The opposite or south long wall was laid in similar manner only in this case the bricks laid parallel to the length of the wall were on the exterior and those perpen-dicular on the interior.

About 60' southerly from the above described structure, and parallel to it, is another ruined wall, with possible abutments toward the north ruin. These abutments were not in-vestigated fully. Work on the easterly end showed a rubble foundation in place surmounted with adobe brick, this wall apparently running east and west, (parallel to the main ruin). The wall running northerly from this east end showed no signs of a rubble foundation but the bottom was several feet lower than the bottom of the rubble foundations of the adjoin-ing wall.

(over)

This site is located on the south side of the Santa Clara River Valley at the junction of the Castaic (or Castac) Valley with the Santa Clara River Valley, Los Angeles County. Ruins located on prominence at turn of river and about 75' above the general valley floor. Latitude 34°26' N., Longitude 118°36'30" W. Santa Suzana Quadrangle, U. S. Geologic Survey topographical maps.

This property is now owned by the Newhall Land and Farming Company, (headquarters for the San Francisco Rancho at Piru), was originally held by San Fernando Mission, and upon secularization passed into the hands of Antonio del Valle (do not confuse with Ygnacio del Valle of Camulos).

References: Engelhardt, "San Fernando Rey", pp. 16, 52, 59, and 143. Reference to an adobe grainary and necessary rooms, size about 105'x 17', located on San Francisco Rancho, built in 1804 by San Fernando Mission Indians of the adjoining rancheria of Chaguayabit. (This ranch is still known as the San Francesquito or San Francisco Rancho.) Rumer had it that Del Valle had built a home on the ranch about 1840 at the site of discovery, of which no details were known and as the ruins were supposed to have been only the Del Valle home site they had not previously been investigated.

by Arthur Woodward

ADDENDUM TO
INTENSIVE PHASE I ARCHAEOLOGICAL SURVEY OF THE WEST RANCH PROJECT AREA, LOS ANGLES COUNTY, CALIFORNIA: ARCHAEOLOGICAL SURVEY OF THE VALENCIA BOULEVARD EXTENSION STUDY AREA

Prepared For:

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Prepared By:

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December 1995

MANAGEMENT SUMMARY

An intensive Phase I archaeological survey and cultural resources assessment was conducted for the Valencia Road extension study area, northern Los Angeles County, California. This investigation constituted an addendum to an earlier Phase I survey of the Newhall Ranch, and involved a review of archival records and an intensive, on-foot survey of the approximately 2.6 miles long by 800 feet wide study area. No cultural resources of any kind were found within the study area, and the extension of Valencia Boulevard will not result in adverse impacts to cultural resources.

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ADDENDUM TO PHASE I ARCHAEOLOGICAL SURVEY OF THE NEWHALL RANCH, LOS ANGLES COUNTY, CALIFORNIA

1.0 INTRODUCTION

At the request of Mr. David Crowder, Newhall Ranch Company, an intensive Phase I archaeological survey and cultural resources assessment was conducted for the proposed Valencia Boulevard extension, northern Los Angeles County, California (Figure 1). This study constitutes an addendum to an earlier Phase I archaeological survey of and report on the Newhall Ranch (W & S Consultants 1994a). The current proposed project, to be conducted as part of the proposed work in the area covered by the earlier Phase I report, will consist of the extension of Valencia Boulevard westward from Interstate 5 for a distance of about 2.6 miles.

The purpose of this Phase I archaeological addendum was to provide an archival records search in order to establish whether any known archaeological sites were present in the project zone, and/or whether any systematic study of the project area had been conducted by archaeologists; an intensive, pedestrian or on-foot survey of the project area in order to identify any previously unrecorded cultural resources; and, should any be found within the subject property, a preliminary assessment of such resources. Background studies of the prehistory, ethnography and history of the study area, as well as a review of pertinent previous research, have been provided in the Phase I report for the proposed project (W & S Consultants 1994a).

This manuscript constitutes a report on the Phase I archaeological addendum. Subsequent sections provide a description of the investigation, including the results of the archival record search; a summary of the field surveying techniques employed; the results of the fieldwork; and management recommendations derived therefrom.

2.0 ARCHIVAL RECORDS SEARCH

An archival record search was conducted at the UCLA Institute of Archaeology, Archaeological Information Center (AIC), by AIC staff members to determine: (i) if prehistoric or historical archaeological sites had previously been recorded within the Valencia Boulevard extension project area; (ii) if the project area had been systematically surveyed by archaeologists prior to the initiation of this field study; and/or (iii) whether the region of the field project was known to contain archaeological sites and to thereby be archaeologically sensitive. The complete results of this archival record search are included in this document as Appendix A.

Files and records at the UCLA AIC indicate that the project area had never been systematically surveyed in its entirety by archaeologists. No sites of any kind had been recorded in the study zone. Furthermore, only one prehistoric site had been recorded within a one-half mile radius of the study zone. This site, CA-LAN-2240, is located 400 feet south of the current study area. Furthermore, a Phase II test excavation and determination of significance was conducted on this site, a small rockshelter, as part of the investigations for the proposed project. It was determined to have no extant archaeological remains, therefore to not maintain significance nor to warrant any protection or mitigation measures (W & S Consultants 1994b).

Examination of historical maps (specifically, Santa Susana 1903 and 1941 15' series topographical sheet) failed to reveal any indications that historical sites would be present within the study area, although unimproved roads were present in the general area.

Historical inventories were also examined. The National Register of Historic Places (NRHP) and the California State Historical Resources Inventory (HRI) lists one property within a one-half mile radius of the study area. This is Well No. 4 of the Pico Canyon Oil Field, which was California's first commercially productive oil well. In addition, Mentryville is also a California Historical Landmark. Well No. 4 and

Mentryville are located south of the study area, in Pico Canyon.

In summary, the archival record search indicated that the project area had never been adequately surveyed to ascertain whether cultural resources were present within it, that no sites were known to be on it, and that archaeological sensitivity in this area was relatively low.

3.0 FIELD SURVEY METHODS

An intensive field survey of the Valencia Boulevard extension study area, Los Angeles County, California, was conducted by Joseph M. Simon and David S. Whitley, Ph.D., on December 1, 1995. The ground surface was examined with the crew spaced at 10 to 15 meter intervals, walking transects across the 800 feet wide study area to identify artifacts or other archaeological indicators that might be present on the ground surface. In addition, cut-banks of arroyos within the study area (where visible) were also examined to ascertain whether buried archaeological deposits might be present, while special attention was paid to potential areas of subsurface deposition, such as swales and saddles.

4.0 SURVEY RESULTS

The intensive Phase I field survey of the Valencia Boulevard extension study area found that ground surface visibility was excellent. Vegetation in the study area was minimal, thereby affording clear visibility of the groundsurface. However, the study area was found to comprise landforms that are largely unsuited for the preservation of cultural resources. The eastern side of the project area consists of a large open wash, subject to occasional flooding. The remainder of the study area comprises heavily dissected narrow ridges and steep bottomed arroyos, neither of which are suited for Native American inhabitation.

The field survey failed to find any evidence for the presence of cultural resources of any kind within the study area and, given the nature of the landforms within the study area, the likelihood that archaeological remains would have been deposited or could have been preserved in this area is minimal.

5.0 RECOMMENDATIONS

An intensive Phase I archaeological survey was conducted for the Valencia Boulevard extension study area, northern Los Angeles County, California. This involved an archival records search of site maps and files at the UCLA Archaeological Information Center; and an intensive, on-foot examination of the study area. Background studies and the archival records search failed to find evidence that archaeological sites of any kind had been previously recorded on the subject property, although no previous systematic study of the area in its entirety had been conducted. The subsequent on-foot survey of the study area failed to find any evidence that cultural resources are present in this area and, given the nature of the landforms in the study area, it is unlikely that any archaeological resources would have ever been present in this area.

Construction of the Valencia Boulevard extension project, therefore, will result in no adverse impacts to cultural resources, and no further archaeological work is required at this locale. However, in the unlikely event that archaeological resources are discovered during any phase of the project, it is recommended that an archaeologist be contacted to record, stabilize and/or recover such remains.

6.0 Cited References

W & S Consultants

1994a Intensive Phase I Archaeological Survey of the West Ranch Project Area, Los Angeles County, California. Manuscript on file, Los Angeles County Regional Planning Department.

1994b Phase II Test Excavations and Determinations of Significance at CA-LAN-2133, 2233, -2234, -2235, -2236, -2240, -2241, -2242, Los Angeles County, California. Manuscript on file, Los Angeles County Regional Planning Department.

7.0 FIGURES

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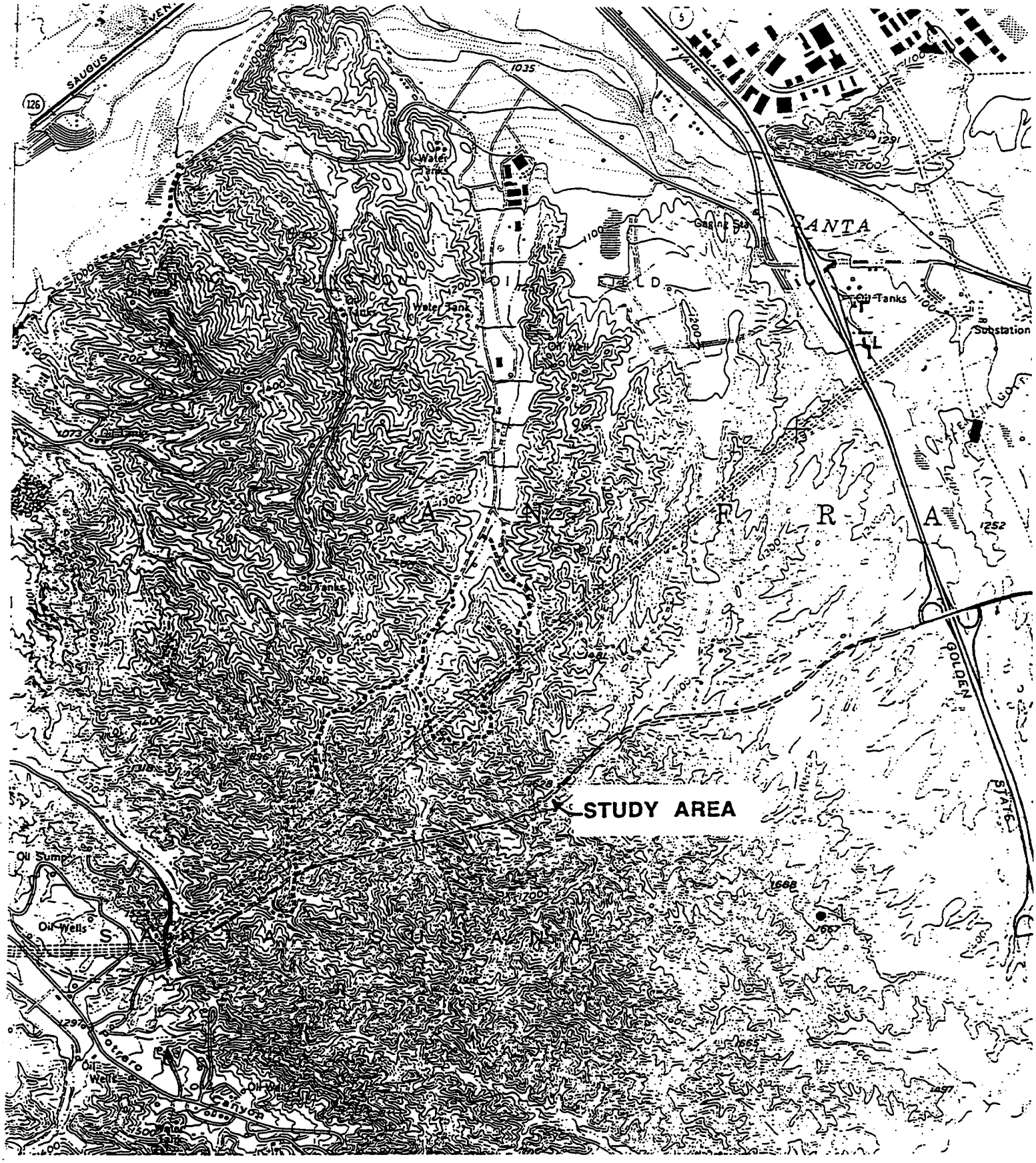

FIGURE 1: Valencia Boulevard extension study area, northern Los Angeles County, California. Base map: USGS Newhall 7.5' quadrangle; scale - 1 : 2000.

8.0 APPENDIX A: ARCHIVAL RECORDS SEARCH

California Historic Resources Inventory

Regional Information Center
Los Angeles, Orange, Ventura Counties

November 16, 1995

Joseph M. Simon
W & S Consultants
2242 Stinson Street
Simi Valley, CA 93065

RE: Record search for a Phase I archaeological survey of the 2.6 mile Valencia Blvd. Extension in Los Angeles County, California

Dear Mr. Simon,

As per your request of October 31, we have conducted a records search for the above referenced project. This search includes a review of all recorded historic and prehistoric archaeological sites within the project area as well as a review of all known cultural resource survey and excavation reports. In addition, we have checked our file of historic maps, the National Register of Historic Places, the California State Historic Resources Inventory, the California Points of Historical Interest, and the listing of California Historical Landmarks in the region. The following is a discussion of our findings regarding the project area.

PREHISTORIC RESOURCES:

One prehistoric site has been identified within a half mile radius of the project area (see enclosed map). This site is not located within the project area, but is 400 feet south of the southern portion of the project area.

HISTORIC RESOURCES:

No historic sites have been identified within a half mile radius of the project area (see enclosed map).. Inspection of our historic maps -- Santa Susana (1903, 1941) 15' series -- indicated that the project area labeled San Francisco on the 1903 map was minimally developed by the turn of the century. One unimproved road entered the area from the west and one jeep trail bisected the area from Castac in the north. The Santa Clara River flowed from east to west north of the project area and numerous intermittent streams crossed through the project area. By 1941, the jeep trail had become an unimproved road. State Route 99 bounded the project area on the east. Several other improved roads cut through the area. A secondary highway was routed thru Pico and Potrero Canyons. The Pico Oil Field and numerous other scattered oil wells were located around the project.

The National Register of Historic Places lists one property within a half mile radius of the project area. This resource was identified as Well No.4 of Pico Canyon Oil Field in San Fernando designated in 11/13/66 (NR# 66000212).

The California State Historic Resources Inventory lists one property within a half mile radius of the project area. This is the same property as the one listed in the National Register of Historic Places. Identified as Well No.4, please refer to the above mentioned resource.

South Central Coastal Information Center • UCLA Institute of Archaeology • Fowler Museum of Cultural History • Los Angeles, California 90095
Telephone: (310) 825-1980 FAX: (310) 206-4723

The listings of the California Historical Landmarks (1990) of the Office of Historic Preservation, California Department of Parks and Recreation, indicate that there are two California Historical Landmarks within a half mile radius of the project area. No. 516 has already been indicated above as Oil Well No.4. The second landmark is identified as No.516-2.

> No.516 Well No. "CSO" 4 (Pico No.4)
> On this site stands CSO-4 (Pico No.4), California's first commercially productive well. It was spudded in early 1876 under the direction of Demetrious G. Scofield who later became the first president of Standard Oil Company of California, and was completed at a depth of 300 feet on September 26, 1876, for an initial flow of 30 barrels of oil a day. Later that year, after the well was deepened to 600 feet with what was perhaps the first steam rig employed in oil well drilling in California, it produced at a rate of 150 barrels a day; it is still producing after 77 years (1953). The success of this well prompted formation of the Pacific Coast Oil Company of California, and led to the construction of the state's first refinery nearby. It was not only the discovery well of the Newhall Field, but was a powerful stimulus to the subsequent development of the California petroleum industry. Located On W Pico Canyon Rd, 3.3 mi W of I-5, Newhall

> No.516-2 Mentryville
> Named after pioneer oil developer Charles Alexander Mentry, who in 1876 drilled the first successful oil well in California. His restored home and barn and Felton School remain here where the Star Oil Company, one of the predecessors of Standard Oil of California was born. Located at 27201 W Pico Canyon Rd, 2.8 mi W of I-5, Newhall

There are no California Points of Historical Interest (1992) within a half mile radius of the project area.

PREVIOUS ARCHAEOLOGICAL INVESTIGATIONS:

Sixteen surveys and/or excavations have been conducted within a half mile radius of the project area. Seven of these are located within the project area (see enclosed map and bibliography): L-510, 2031, 2427, 2450, 2477, 2848, 2950.

Please forward a copy of any reports resulting from this project to our office as soon as possible. Due to the sensitive nature of site location data, we ask that you do not include record search maps in your report. If you have any questions regarding the results presented herein, please feel free to contact our office at (310) 825-1980.

Invoices are mailed approximately two weeks after records searches. This enables your firm to request further information under the same invoice number. Please reference the invoice number listed below when making inquires. Requests made after invoicing necessitate the preparation of a separate invoice with a $15.00 handling fee.

Sincerely,

Ruth W. Chin
Staff Archaeologist

Enclosures:

(X) Map
(X) Bibliography
( ) Site list
( ) Site records
( ) Survey reports
(X) Confidentiality Form
( ) Invoice# 5894

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Report on file, UCLA ARCH. INFO. CENTER
Particulars: PARTIAL SURVEY
QUADS: NEWHALL
QUADS: VAL VERDE
ACRES: 3000
SITES: CA-LAN-1020
FIRM: ARCHAEOLOGICAL ASSOCIATES, LTD.
AGENCY: ULTRASYSTEMS, INC.
PAGES: 15

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Report on file, UCLA ARCH. INFO. CENTER
Particulars: SURVEY
QUADS: Newhall
ACRES: 2
SITES: NONE
FIRM: H.E.A.R.T.
AGENCY: MCR Services
PAGES: 18

L-1171 Tartaglia, Louis James
1982 CULTURAL RESOURCE SURVEY TENTATIVE TRACT NO. 34989
Report on file, UCLA ARCH. INFO. CENTER
Particulars: SURVEY
QUADS: Newhall
ACRES: 46
SITES: NONE
FIRM: LOUIS TARTAGLIA, C.A.
AGENCY: The Newhall Land and Farming Company
PAGES: 38

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Report on file, UCLA ARCH. INFO. CENTER
Particulars: PARTIAL SURVEY
QUADS: Newhall
ACRES: 20
SITES: NONE
FIRM: NARC
AGENCY: Sikand Engineering Associates
PAGES: 3

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Report on file, UCLA ARCH. INFO. CENTER

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QUADS: Newhall
ACRES: 5
SITES: NONE
FIRM: UCLA AS
AGENCY: Valencia Corporation
PAGES: 8

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1983 CULTRUAL RESOURCE RESURVEY OF TENTATIVE TRACT NO.34989
Report on file, UCLA ARCH. INFO. CENTER
Particulars: SURVEY
QUADS: Newhall
ACRES: 23
SITES: NONE
FIRM: C.A.
AGENCY: Valencia Corporation
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Particulars: PARTIAL SURVEY
QUADS: Newhall
ACRES: 400
SITES: CA-LAN-1020
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Report on file, UCLA ARCH. INFO. CENTER
Particulars: SURVEY
QUADS: NEWHALL
ACRES: 500
SITES: NONE
FIRM: NARC
AGENCY: SIKAND ENGINEERING ASSOCIATES
PAGES: 28

L-2396 SINGER, C. A., AND J. ATWOOD
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Particulars: SURVEY
QUADS: NEWHALL
ACRES: 184
SITES: NONE
FIRM: SINGER
AGENCY: JIM HINZDEL & ASSOCIATES, INC.
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Report on file, UCLA ARCH. INFO. CENTER
Particulars: SURVEY
QUADS: NEWHALL
QUADS: VAL VERDE
ACRES: 50
SITES: NONE
FIRM: AA
AGENCY: ULTRASYSTEMS, INC.
PAGES: 6

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1991 CULTURAL RESOURCES ARCHAEOLOGICAL SURVEY I-5 FREEWAY AND
VALENCIA BLVD. VALENCIA, CALIFORNIA
Report on file, UCLA ARCH. INFO. CENTER
Particulars: SURVEY
QUADS: NEWHALL
ACRES: 5
SITES: NONE
FIRM: C.A.
AGENCY: SIKAND ENGINEERING ASSOCIATES
PAGES: 32

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Particulars: SURVEY
QUADS: NEWHALL
LINEAR MILES: 11
SITES: NONE
FIRM: SRS
AGENCY: KENNEDY/JENKS/CHILTON
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QUADS: NEWHALL
ACRES: 84
SITES: NONE
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AGENCY: RILEY/PEARLMAN COMPANY
PAGES: 13

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Report on file, UCLA ARCH. INFO. CENTER
Particulars: SURVEY

UCLA
FILE #

QUADS: NEWHALL
LINEAR MILES: 11
SITES: CA-LAN-1020, LAN-962H, LAN-961H, LAN-36, L-IF-19
FIRM: PEAK AND ASSOCIATES, INC.
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Particulars: SURVEY
QUADS: SEE REPORT
ACRES: 172
SITES: SEE REPORT
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AGENCY: L.W. REED CONSULTANTS, INC.
PAGES: 356

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Report on file, UCLA ARCH. INFO. CENTER
Particulars: RECORD SEARCH
QUADS: SEE REPORT
LINEAR MILES: 67
SITES: SEE REPORT
FIRM: CONSULTING ARCHAEOLOGIST
AGENCY: L.W. REED CONSULTING, INC.
PAGES: 42

PHASE II TEST EXCAVATIONS AND DETERMINATIONS OF SIGNIFICANCE AT CA-LAN-2133, -2233, -2234, -2235, -2236, -2240, -2241 AND -2242, LOS ANGELES COUNTY, CALIFORNIA

Prepared For:

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Simi Valley, California 93065

14 October 1994

MANAGEMENT SUMMARY

Phase II archaeological test excavations and determinations of significance were conducted on eight sites within the West Ranch study area, Western Los Angeles County, California. This included mapping, the collection of artifacts on the groundsurface, and the hand excavation of test pits at each of these sites, as well as an analysis of the recovered archaeological assemblages. Three of these sites, designated CA-LAN-2133, -2233 and - 2235, were found to be subsurface archaeological deposits resulting from small seasonal encampments. Each of these sites was found to date to the Intermediate Period, or from approximately 3500 to 800 years B.P. (before present). One archaeological site (CA-LAN-2236) was found to comprise a small, very low density surface lithic scatter of unknown age. Another presumed surface scatter (CA-LAN-2234) was found to consist of introduced fill derived from a nearby site, and thus to be artifact bearing, although lacking in integrity. A cave site (CA-LAN-2242) once comprised a cache of work tools and food, but was found to have been almost entirely looted at some point in the past; a second rockshelter (CA-LAN-2240) was found to contain no extant evidence of prehistoric use, and thus to not constitute a cultural resource. Finally, a small site (CA-LAN-2241) discovered in a disturbed, graded area was determined to no longer contain any extant, intact deposit or remains. Final recommendations for the management of each of these sites are presented.

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CHAPTER 1
INTRODUCTION

1.1 Summary and Background to the Project

At the request of The Newhall Land and Farming Company, Valencia, California, Phase II archaeological test excavations and determinations of significance were conducted at sites CA-LAN-2133, -2241, -2235, -2234 -2233, -2236, -2240 and -2242, northern Los Angeles County, California (Figure 1). This project was intended to determine the size, nature and significance of these eight prehistoric archaeological sites and thereby to provide baseline data from which an assessment of potential adverse impacts to these resources could be made. These data have been employed to develop final management recommendations for the treatment of these cultural resources.

This study was conducted by W & S Consultants during August and September, 1994. David S. Whitley, Ph.D., and Joseph M. Simon served as principal investigators for the project; Robert Rechtman, Ph.D., was field director for the study; while the laboratory analyses were conducted by Tamara K. Whitley, M.A., and D.S. Whitley. Glenn Russell, Ph.D., of the UCLA Institute of Archaeology, Obsidian Hydration Laboratory, provided chronometric analyses, while Paul Bouey, Ph.D., of Geotrace,

conducted the obsidian source tracing. This report was prepared by D.S. Whitley and Simon. Richard Angulo and Anthony Angulo, representing the California Indian Foundation, served as Native American monitors for the project.

The remainder of this chapter provides environmental and cultural background to the prehistory of the region, including a summary of previous archaeological research conducted in this region; and descriptions of the eight sites considered in this study. This is followed by the field methods used at each of the sites tested during this field program, along with summaries of the field results. We then turn to an assessment of the artifact assemblages recovered from each site, and certain of the analytical conclusions derived from the study of the recovered archaeological collections. We conclude with final recommendations for each of the eight cultural resources considered during this Phase II study.

1.2 Environmental and Cultural Overview

1.21 Environmental Background & Site Descriptions

Archaeological sites CA-LAN-2133, -2241, -2235, -2234 - 2233, -2236, -2240 and -2242 are located within the West

Ranch study area which sits astride the upper Santa Clara River immediately below Castaic Junction, northwestern Los Angeles County, California (Figure 1). Although historic and recent land-use changes have altered the environment considerably from what existed during prehistoric times, at least four major plant associations probably characterized the region containing these sites during the aboriginal period. These are chaparral, coastal sage scrub, southern oak woodlands, and riparian associations (cf. Muntz 1974).

The chaparral association covers steeper slopes with poorly developed soils and xeric conditions. It includes the following species: California sagebrush (Artemisia californica), white sage (Salvia mellifera), black sage (S. apliana), purple or white-leaved sage (S. Leucophylla), California encilia (Encilia californica), California buckwheat (Eriogonum fasciculatum), chamise (Adneostoma fasciculatum), buckbruch (Ceanothus cuneatus), scrub oak (Quercus dumosa), toyon (Heteromeles arbutifolia), mountain mahogony (Cercocarpus betuloides), lemonade sumac (Rhus integrifolia) and sugar sumac (R. ovata). This is a particularly common association in the West Ranch study area.

The coastal sage scrub community is the climax community for portions of inland-coastal southern California. It is generally composed of coast buckwheat (Eriogonum cinereum) and wild

buckwheat (E. fasciculatum), along with black sage (Salvia apliana), common hazardia (Haplopappus squarrosus), prickly phlox (Leptodactylon californicum), yucca (Yucca whipplei) and California sagebrush (Artemisia californica) as major constituents.

Although both of the above plant associations were undoubtedly of subsistence importance to the aboriginal population of the region, the third association, the southern oak woodland, may have been of primary significance in the inland zones adjacent to the coastal strip. This results because of the great importance placed on the acorn as a food staple by Native Californians (Kroeber 1925), and the rarity of this resource on the coastal side of the Santa Monica Mountains. The association is characterized by the coast live oak (Quercus lobata) and the valley oak (Q. agrifolia), but also would have included various species of native grasses. Although currently restricted in distribution, this association may once have been found across much of the wide, upper reaches of Potrero Canyon and the mesas on the south side of the Santa Clara River. Currently, stands of oak woodlands are still found at higher elevations on the less precipitous ridge/hilltops on the southern side of the property.

The fourth and final plant association consists of riparian habitats, which are localized and poorly diversified woodlands

found in areas of perennial moisture. They include such species as arroyo willow (Salix lasiolepsi), mule fat (Baccharis glutinosa), willow dock (Rumex salicifolius), swamp knotweed (Polygonum coccineum), nettle (Urtica holosericea), cocklebur (Xanthium strumarium) and rabbitsfoot grass (Polypogon monspeiensis). Though this plant association is limited in distribution, it can still be considered to have had significant economic importance in aboriginal times, especially in terms of the acquisition of raw materials for items like baskets, cordage and netting. In addition to the obvious aboriginal presence of riparian habitats in the Santa Clara River valley, small riparian habitats were probably once present in some of the ephemeral drainages tributary to the valley, and in Salt Canyon on the southern side of the river.

With the exception of CA-LAN-2133, which was found during a pipeline survey in 1992 (Peck and Associates 1992), all of the sites considered during the Phase II study were first discovered during a recent Phase I survey of the West Ranch property (W & S Consultants 1994a). Six of these sites can be considered as clustering into a grouping of locales along the Santa Clara River between Potrero and San Martinez Chico Canyons, with the remaining two sites located elsewhere within the study area. At that time, they were described as follows:

CA-LAN-2133 (NLF1) - Potrero Canyon Mouth Village

The only previously discovered prehistoric archaeological site within the study area is situated on the south side of the Santa Clara River, on a river terrace approximately 500 meters northeast of the mouth of Potrero Canyon. The site appeared to cover an area about 200 meters E-W and perhaps 100 meters N-S.

The site was believed to consist of a relatively large village, as indicated by the presence of an organic midden deposit and a wide range of tool types. We noted a chert leaf-shaped (atlatl) projectile point, an Olivella shell bead, mano, basket-hopper mortar, and chert, fused shale and quartzite lithic debitage during the Phase I survey of the property (W & S Consultants 1994a). The debitage included primary, secondary and tertiary flakes. Fire-cracked rock and burnt animal bone are also present on the site. Furthermore, there are two areas within an eroded cut on the site that appeared to represent intact earth-oven features that are being exposed by erosional processes.

Based on the projectile point, which is a large atlatl or dart point, as well as the presence of the basket-hopper mortar, site CA-LAN-2133 appeared to date to the Intermediate Period, or from about 3500 to 1500 years B.P. (before present). Although the dirt road and eroded cut, noted above, have disturbed a

portion of the site, it appeared to be mostly intact and to maintain a high degree of integrity.

CA-LAN-2241 (NLF2) - Potrero Canyon Mouth #2

Immediately to the east of CA-LAN-2133, but on a separate and lower river terrace, we discovered evidence of a second archaeological site (originally given the temporary designation of NLF2). This was first encountered in a bulldozed area, alongside the existing dirt road. The site's temporal and functional relationships to CA-LAN-2133 were unclear. Based on its location on a separate landform than CA-LAN-2133, it appeared that CA-LAN-2241 warranted designation as a distinct site.

At CA-LAN-2241 we initially discovered a fragmentary steatite bowl, broken mortar and a pestle in a heavily disturbed area. Subsequently, we also found evidence of at least two separate human interments. Both burials were partial and disturbed and, in one case at least, very fragmentary and scattered. One series of fragmentary human bones was found on the groundsurface scattered across a bull-dozer scraped area immediately south of the dirt road, near where the surface artifacts were found. The second, discovered during the fieldwork, was located in the bottom of a stream channel, having apparently fallen out of the stream sidewall. There was

no evidence to suggest that any artifacts were directly associated with either of these interments as grave goods, and the strata seeming to contain the burials appeared to be artifact-free.

Mortars and pestles typically date from the Intermediate Period into more recent times in southern California, or to sometime during the last 3500 years. While the presence of these artifacts on the site, then, suggests that it may date to the same time period as CA-LAN-2133 nearby, this inference is still to be supported.

CA-LAN-2241 was found to be in very poor condition. The small terrace that it sits upon, originally perhaps 60 by 60 meters in size, is approximately 85% eroded away by arroyo cutting. The existing dirt road and recent bulldozer cut have also removed a large section of the archaeological stratum, assuming one was at one time present at this locale. We estimate that less than 15% of the original site area is still in existence.

CA-LAN-2235 (NLF3)- Chiquito Canyon Village

What appears to be a small village site was discovered on the western side of the mouth of San Martinez Chiquito Canyon (temporary designation NLF3). It is located north of Highway 126 on a low knoll; currently an occupied farm house sits on the

southern half of this knoll. We noted substantial evidence of fire-cracked rock, possible midden soil, some shell, core/cobble complex tools, a possible metate fragment, and lithic debitage at this locale, principally around the periphery of the yard containing the house. The area containing the site measures approximately 150 by 50 meters.

Construction of the house on the site has unquestionably resulted in considerable damage to its integrity. However, isolated intact portions of the deposit still were thought to be present peripheral to the house.

CA-LAN-2234 (NLF4) - Chiquito Canyon Camp #1

A relatively small site was discovered on the south side of Highway 126, immediately to the east of the San Martinez Chiquito Canyon (temporary designation NLF4). The site sits between the highway and the original railroad right-of-way, and was believed to measure approximately 100 by 100 meters in size.

Although no evidence of midden soil was found at this locale, the surface of the site contained a moderate density of lithic debitage (principally quartzite and chert primary flakes), fire-cracked rock, and two manos. A small erosional cut on the site exposed a concentration of fire-cracked rock at a depth of about

20 centimeters. Accordingly, our preliminary interpretation is that this site represents a small camp that is partly buried by natural colluvial processes.

Road construction and disking have disturbed the site to some degree however. Although no temporal diagnostics were noted on the surface of the site, it is likely that it was functionally and temporally related to the occupation of CA-LAN-2235, the larger village site located a few hundred meters to the northwest.

CA-LAN-2233 (NLF5) - Chiquito Canyon Camp #2

A second campsite (possibly a village) was located approximately 175 meters west of the mouth of San Martinez Chiquito Canyon, also on the high river terrace containing Highway 126 (temporary designation NLF5). This site is similar in many respects to CA-LAN-2234, although apparently larger and more intact. It is located on both sides of Highway 126 from the high bank of the stream to at least 100 meters north of the highway. This area includes not only the highway right-of-way, but the original SPRR line as well, which ran parallel and south of the road. Railroad and highway construction, in other words, has seriously impacted the central portion of this site. Furthermore, the site area has been farmed for many years. Thus, its current integrity can only be considered

moderate. We estimated its dimensions at about 200 meters E-W by 150 meters N-S at the time of its discovery.

The site contains a high density of surface artifacts on its southern side, and a much lower density to the north, upslope of the highway, where colluviation is burying the deposit. As at nearby CA-LAN-2234, these consist principally of debitage and fire-cracked rock. The debitage includes chert/jasper, quartzite and fused shale flakes, including primary, secondary and tertiary specimens. Manos and core-cobble complex tools were also noted north of the highway.

No evidence of midden soil was noted and, in a small erosional cut on the site, we saw no indications of a subsurface component. However, it was believed possible that subsurface material has been buried by natural colluvial processes, especially to the north of the highway, were active farming might be bringing materials downslope. Again, although no temporal diagnostics were noted on the groundsurface, it was thought likely that CA-LAN-2233 was functionally and temporally associated with the village at CA-LAN-2235.

CA-LAN-2242 (NLF8)- Martinez Grande Cave

This site is a small west-facing cave, located on the eastern side of San Martinez Grande Canyon, slightly less than one mile

north of the Santa Clara River (temporary designation NLF8). The cave measures approximately 4.5 meters deep by 3.5 meters wide, with a ceiling that is currently about 1.5 meters high. However, judging from the exposure at the cave entry, it appears that as much as half a meter of soil may be blanketing the cave floor. The wall and ceiling of the cave currently have what appears to be deeply engraved historical grafitti. At the back wall, the word "MERRY" could be identified; other unintelligible words/letters are present on the ceiling. With the exception of this grafitti, the cave appears undisturbed.

Soil in the cave consists appeared to be a fine, wind-blown sand, with no obvious evidence of an organic midden-like soil. The cave ceiling is also currently free of fire-blackening. Although this last condition may have resulted from recent wind erosion on the ceiling, there was no evidence that the cave was used as a habitation, per se, in the sense of a living area. However, two putative aboriginal artifacts in the form of worked, ancient pieces of wood, were noted on the surface of the cave, in a pack-rat nest, thus suggesting aboriginal use of the cave, probably as a cache cave.

Cache caves are common in the inland Los Angeles and Ventura Counties region (W & S Consultants 1989). In the immediate vicinity of this site (but outside of the West Ranch study area), the important cache site Bower's Cave (CA-LAN-36) was

discovered (Elsasser and Heizer 1963; Van Valkenburgh 1952). Although it is immediately apparent that this newly discovered cave does not contain a major cache of religious artifacts such as was found in Bower's Cave, it is likely that it was used for the temporary storage of utilitarian items and foodstuffs, as was common in the region, and thus is likely to contain a small quantity of buried archaeological remains.

CA-LAN-2236 (NLF6) - Grapevine Mesa Lithic Scatter

A very low density surface scatter of lithic flakes (temporary designation NLF6) was discovered on the northern end of Grapevine Mesa, where it overlooks the Santa Clara River to the north, some distance from the above described grouping of sites. We identified approximately 8 pieces of lithic debitage, spread over an area about 100 by 100 meters in size, at this locale.

Although CA-LAN-2236 had suffered minor disturbance from disking, it appeared to be essentially intact. This site apparently represents a small lithic workshop area. It was thought unlikely to contain a subsurface deposit.

CA-LAN-2240 (NLF7) - Potrero Canyon Rockshelter

On the southeastern side of the study area, in a small tributary

to Potrero Canyon, a small, dry rockshelter was located which appeared to contain evidence of prehistoric use (temporary designation NLF7). The rockshelter measured approximately 5 meters across and 2 meters in depth, with a height of about 2.5 meters. The roof of the shelter was fire-blackened and a chert flake was noted on the groundsurface immediately outside of the shelter. Although it did not appear that this shelter served for intensive occupation or use, small rockshelters and caves were frequently employed as cache locales prehistorically, as noted above. Thus, it was considered very likely that a small quantity of buried remains may be present in the aeolian deposit in this shelter.

1.22 Ethnographic Background

The Upper Santa Clara Valley region, including the West Ranch portion of the Newhall Ranch, appears to have been inhabited during the ethnographic past by an ethnolinguistic group known as the Tataviam. Some controversy exists in reference to this attribution, as the Tataviam are now extinct and were effectively so prior to the initiation of systematic anthropological studies at the turn of the century. But, based on a few existing word lists, descriptions provided by early travelers, mission placenames, and the recollections of other aboriginal informants, the Tataviam are generally accepted as

the aboriginal inhabitants of this region. Their language is believed to represent a member of the Takic branch of the Uto-Aztecan linguistic family (King and Blackburn 1976). In this sense, it was related to other Takic languages in the Los Angeles County region, such as Gabrieleño/Fernandeño of the Los Angeles Basin proper, and Kitanemuk of the Antelope Valley.

The Tataviam are thought to have inhabited the upper Santa Clara River drainage from about Piru eastwards to just beyond the Vasquez Rocks/Agua Dulce area; southwards as far as Newhall and the crests of the San Gabriel and Santa Susana Mountains; and northwards to include the middle reaches of Piru Creek, the Liebre Mountains and the southwesternmost fringe of the Antelope Valley (ibid; Kroeber 1925; Earle 1990; Johnson and Earle 1990). Their northern boundary most likely ran along the northern foothills of the Liebre Mountains (i.e., the edge of the Antelope Valley), and then crossed to the southern slopes of the Sawmill Mountains and the Sierra Pelona, extending as far east as Soledad Pass (Earle 1990:94). Ethnographically, at least, the Tataviam do not appear to have controlled the Leona Valley or areas to the north, with the Elizabeth Lake area proper a zone of uncertainty.

Known Tataviam villages during the historic period include: pi?irukung and ?akavaya, both near modern Piru; tsavayu(?u)ng, San Francisquito; etseng, kuvung and huyung, on Piru Creek

above Piru; tochonanga, near Newhall; kwarung, Elizabeth Lake; and tsawayung, near Castaic Junction. At kamulus, near modern Rancho Camulos, a mixed Chumash-Tataviam population lived (King and Blackburn 1976:535-6). Because the name kamulus is unquestionably Chumash and not Tataviam, however, the toponym has been viewed as problematical (Johnson and Earle 1990:197); that is, as not reflecting the original (Tataviam) name for this village. Regardless of original name, however, the Spanish missionary Señan, writing in 1804, indicated that the Chumash inhabitants of the village of sécpey had migrated to kamulos, accounting for this admixture (Señan 1962:15). Sécpey is of course now known as Sespe, near the modern town of Fillmore.

Culturally-speaking, the Tataviam were in most respects similar to their Fernandeño and Chumash neighbors, to the south and west, respectively (King and Blackburn 1976). In this sense, they were hunters-gatherers, with subsistence emphasizing yucca, acorns, juniper berries, sage seeds and islay. Game was also hunted, with small animals, such as rabbits/hares and rodents, probably representing more significant contributions of meat protein than larger game, such as deer.

Almost nothing is known of Tataviam social and political organization. Based on analogies with surrounding groups,

however, it can be suggested that they were organized in a series of tribelets, similar to the naciones described by Earle (1990) for the Antelope Valley, and found to be characteristic of much of California aboriginal socio-political organization (cf. Kroeber 1925). The tribelet represented an autonomous land-holding unit, minimally controlled by a head-chief or big-man. They usually included one large, 'capital' village, sometimes occupied year-around, and a series of smaller, seasonally inhabited hamlets. Whether the Tataviam may have had exogomous clans and moieties, like the Cahuilla and Serrano to the east, is unknown. However, it is estimated that the Tataviam population was less than 1000 people at the time of Euro-American contact, and that only two or three of the largest villages throughout their territory were inhabited at any given time (King and Blackburn 1976).

It is also likely that Tataviam religion followed the patterns of their surrounding neighbors. In this case, shamanism would have functioned as the central element. This posits a direct and personal relationship between each individual and the supernatural world, with this relationship enacted by entering a trance or hallucinatory state (usually based on the ingestion of psychoto-mimetic plants, such as jimsonweed or native tobacco). Shamans, per se, who were considered individuals with an unusual degree of supernatural power, served as ritual specialists: ceremonies and rites were infrequent in occasion

and limited in type. Perhaps most importantly, shamans served as healers or curers, with the etiology of disease as well as its cure held to lie in the supernatural world. Shamans are also known to have produced the rock art of this region (Whitley 1992), which depicted the hallucinations and spirits they observed in their vision quests.

Although the Tataviam were one of the earliest groups contacted by Spanish missionaries, with a number of their villages described by members of the Portolá expedition of 1769, a general lack of information on this group exists because, by 1810, all Tataviam had been baptized at Mission San Fernando and were quickly absorbed by other groups through intermarriage. The last speaker of Tataviam died in 1916 (King and Blackburn 1976).

1.23 Archaeological Background

Archaeologically speaking, more information is available on the Upper Santa Clara River area, although here, too, less is known than for many of the surrounding regions of southern California. In general terms, the prehistory of this inland area appears to parallel that of the Santa Barbara Channel/southern California coastal zone (cf. McIntyre 1990), with William Wallace's (1955) cultural historical framework appropriate as a chronological

system of reference.

Correspondingly, the earliest evidence for human occupation of this region corresponds to Wallace's Early Millingstone Period (or, alternatively, the Early Horizon), dated from about 7000 to 4000 years before present (B.P.). This represents a period during which subsistance and adaptation are said to have emphasized the collecting and processing of hard seeds, with inland artifact assemblages, correspondingly, dominated by mullers and millingstones known as manos and metates. Evidence for an Early Millingstone occupation of the Upper Santa Clara Valley region is, admittedly, very limited, and has been found at only two sites. Both of these are located near Vasquez Rocks, with temporal attribution based on the presence of a small number of Olivella barrel beads (McIntyre 1990). Such bead types have subsequently proven unreliable temporal indicators, throwing doubt on human inhabitation of this region before about 4000 years ago. Further, recent excavations at one of these putative early locales, the Escondido Canyon Site, failed to uncover evidence for occupation prior to about 2700 years B.P. (Love 1990).

The second temporal unit in Wallace's chronology is the Intermediate Period (or Middle Horizon), dated from 3500 to 800 years B.P. It is marked by a shift to the mortar and pestle, with an increased emphasis on hunting and hunting

in artifact assemblages. Population appears to have increased during this period, with more temporary camps founded. Evidence for Intermediate Period occupation of the Upper Santa Clara Valley region is substantial, in that it has been found at a number of sites and has been based on radiocarbon, obsidian hydration and typological dating (McIntyre 1990). The Agua Dulce village complex, for example, includes occupation extending back to the Intermediate Period, at which time population of the village may have been 50 or more people (King et al n.d.). Furthermore, the Intermediate Period appears to represent a time during which a substantial exploitation of mid-altitude environments first began, with considerable use, for example, of portions of the nearby Hathaway Ranch (located to northwest of the study area) beginning at this time.

Assuming that the Upper Santa Clara River region was first significantly occupied during the Intermediate Period, as existing evidence now suggests, a parallel can be drawn with the inland Ventura County region, where a similar pattern has been identified (Whitley and Beaudry 1991), as well as possibly the Antelope Valley and western Mojave Desert (Sutton 1988a, 1988b). In all of these areas a major expansion in settlement, the establishment of large site complexes, and an increase in the range of environments exploited, appear to have occurred sometime roughly around 3000 years ago. Although most efforts to explain this expansion have focussed on very local

circumstances and events, it is increasingly clear that this was a major southern California-wide occurrence, and therefore that explanation of it must be sought at a larger level of analysis.

There is a continuity in the inland regions between the Intermediate Period and subsequent times, labelled the Late Prehistoric Period, lasting from 800 years B.P. to historic contact, at about 200 years B.P. Site complexes first occupied in the Intermediate Period continued to be inhabited, although they increased in size, with more specialized and diversified sites added to the kinds of sites present. In fact, the principal distinction between Intermediate and Late Prehistoric sites in the inland regions is a change in certain diagnostic artifact types (notably, projectile points, with a shift from spear points to bow and arrow points). This change in fact may not signify consequential changes in culture, adaptation or subsistence, although the trends begun in the Intermediate accelerate over time during the Late Prehistoric. For example, a large number of Late Prehistoric Period sites are known from the Upper Santa Clara River/Agua Dulce region (cf. McIntyre 1990), with the Agua Dulce village complex estimated to have grown to a population of 200 to 300 people around A.D. 1500 - 1600 (King et al n.d.). Sometime during this period the Tataviam can be hypothesized to have occupied this region, although it is possible that they may have appeared somewhat earlier.

However, the important point is that, during the Late Prehistoric Period, the patterns of lifeways recorded for the ethnographic period were fully in operation.

During the Historic Period, the aboriginal population appears to have dropped considerably. This, without doubt, can be attributed to the effects of missionization and its attendant relocation of the aboriginal population to centralized locales, along with the depredations of introduced Old World diseases. The Upper Santa Clara River region appears to be one of those inland zones, like the Antelope Valley to the north, that quickly and completely lost its aboriginal population. In particular, the aboriginal population from the Upper Santa Clara Valley was moved into Mission San Fernando, in the San Fernando Valley, and the area was effectively depopulated.

CHAPTER 2
FIELD METHODS

2.1 Introduction

Phase II archaeological fieldwork at sites CA-LAN-2133 (temporary designation NLF1), -2241 (NLF2), -2235 (NLF3), -2234 (NLF4), -2233 (NLF5), -2236 (NLF6), -2240 (NLF7) and -2242 (NLF8) was intended to establish the nature and significance of each site, and to thereby provide baseline data from which a determination of the ultimate disposition of these cultural resources could be made. This required the collection of a representative sample of artifacts and archaeological indicators from each of these cultural resources, the establishment of the vertical and horizontal boundaries of each cultural deposit, and an analysis of the recovered artifact assemblage from these archaeological localities.

Procedures followed in the collection of data useful for establishing the nature and significance of the sites included mapping, surface collecting of artifacts lying on the groundsurface, and test excavation of pits to establish the presence or absence of a subsurface archaeological deposit, as well as to characterize such a deposit if found to be present on the sites considered in this study. Though these procedures

were systematized so that the recovered data would be comparable between each site, as well as with previous studies in the region, the magnitude of effort varied somewhat between the sites, reflecting the field conditions specific to each locale. We discuss each of these field methods below, with details on the level of effort expended at each site provided in the subsequent chapter.

2.2 Surface Collection

In order to determine the maximum areal extent of each site, the initial field procedure was to locate, map and collect all surface remains present on the groundsurface. In order to identify all such remains, the general area of each site was walked by crew-members spaced in approximate two meter intervals. Identified artifacts and archaeological indicators were then marked with flagging tape. Surface remains found within an area of approximately 3 meters-square in size (i.e., within a circle with a one-meter radius) were treated as discrete artifact associations and collected as clusters. Transit, stadia and surveyor's chain were subsequently used to map all remains or clusters of remains, which were numbered and collected by these provenience points.

2.3 Test Excavations

Employing a procedure used at all sites tested during this Phase II project, the number and location of the test pits placed on each site were predicated on an evaluation of the very localized geomorphological conditions found to be immediately present. Specifically, recognizing that subsurface archaeological remains could only be expected in areas where depositional processes contributed to the accumulation of soils, and that areas of active degradation would not only lack subsurface deposits but would also most likely contain surface finds (if found to be present) out of original context, test pits were placed in areas where the probability of deposition was deemed highest on each site, and subsequently located to delineate any such discovered deposits. In general, such depositional areas can be said to include: toeslopes and foots of hills; swales; and areas where active rodent activity or vegetative vigor indicate soil accumulation and depth. Conversely, areas of daylighting bedrock and erosional ridges, hilltops and slopes were conceeded only a minimal amount of testing, because of the very limited likelihood that they could accumulate buried archaeological remains.

Excavation units dug on each site were designated numerically. Each unit was dug with pick, shovel and trowel in arbitrary ten

centimeter spits or levels. Spoils from each of these levels was screened through one-eighth inch mesh. All artifacts and archaeological indicators were collected and bagged by unit level. In the initial units excavated on each site, excavation was continued for approximately 50 cm beyond the apparent termination of the cultural deposit, in order to obtain a clear indication of the soils stratigraphy present. Subsequent to stratigraphic definition and profiling, excavation was continued through two culturally sterile levels (i.e., 20 centimeters), or until decomposing bedrock was encountered.

CHAPTER 3
FIELD RESULTS

3.1 Introduction

Using the procedures outlined above, Phase II fieldwork at sites CA-LAN-2133, -2241, -2235, -2234 -2233, -2236, -2240 and -2242, resulted in the collection of a substantial quantity of archaeological remains, although the recovered remains were not uniformally distributed between the eight sites. In the next chapter we discuss the recovered archaeological remains from these sites in detail, including a summary of the laboratory procedures by which these collections were processed and analyzed, a review of each site's assemblage in typological terms, and an outline of certain of the analytical concerns and conclusions these collections allow us to draw. However, prior to considering the artifact collections in specific terms, below we present a summary of the field results in a more general sense, particularly in reference to the size of the surface manifestations of each site, the presence/absence of subsurface remains, the nature of the soils present, and what these features imply about each cultural resource.

3.2 CA-LAN-2133 (NLF1)

A total of 20 excavation units were dug on CA-LAN-2133 (Figure 2). These revealed an archaeological site deposit that is relatively deep but of low density, and is variable in depth. In particular, it appears that the site is primarily a subsurface deposit buried by downslope colluviation originating on Potrero Mesa to the south. Thus, only 14 artifacts were recovered from the groundsurface, all or most of which appear to have been displaced upwards in rodent-hole backdirt piles.

Soils and stratigraphic relationships at the site are depicted in Figure 3, which represents one of the pits (Unit 19) containing a thinner section of the cultural deposit, thereby illustrating the kinds and degrees of taphonomic processes affecting the preservation of the site and its artifacts in a truncated fashion.

All stratigraphic units depicted in this profile are A Horizon (i.e., "topsoil") strata. Starting at the top with A1, there is a lens that is 20 - 25 cm thick of sandy loam that is dark brown/brown (Munsell 10 YR 4/3) in color, and contains a low density of archaeological remains. Immediately below this stratum is an abrupt contact to a thin layer designated A2. This represents a single climatological event, a mudflow, and thus consists of poorly sorted but bedded coarse sands and pebbles. It is light yellowish brown in color (10 YR 6/4), averages about

5 cm in thickness, and is effectively devoid of archaeological remains. The contact between A2 and A3, below it, is irregular and abrupt, suggesting that the surface of layer A3 may have been stripped before A2 was deposited. Stratum A3 is also silty loam, but in this case a dark greyish brown (10 YR 4/2). It is approximately 10 to 15 cm in thickness, and represents the primary archaeological deposit. At about 40 cm in depth, there is a gradual contact with the A4 stratum, which is brown/dark brown in color (10 YR 4/3). In Unit 19, this stratum was about 20 cm thick. While artifacts are present within it, these appear to have moved downwards due to krotovinas (rodent burrows), which extend from the A4 base upwards to the modern ground-level. Although not depicted on Figure 3, stratum A5 lies below A4, and consists of an indurated yellowish brown (10 YR 4/4) clayey loam. It is entirely culturally sterile.

Thus, the soils at CA-LAN-2133 may be conceptually understood as comprising: 1 - a layer of topsoil (A1) that has a low density of archaeological remains that have been brought up from a stratum below; 2 - a primary archaeological deposit (A3) that varies between roughly 20 and 40 cm in thickness; and 3 - a lower lying layer (A4) that contains artifacts derived from the layer above.

Two taphonomic factors are important to emphasize with

reference to this soil profile at CA-LAN-2133. The first is the large number of krotovinas on the site, a circumstance very typical of local sites. These apparently are responsible for moving archaeological remains out of the primary cultural stratum (A3) down into A4, as well as up to A1 and the groundsurface. Furthermore and secondly, these burrows are particularly heavily concentrated in the A4 stratum near the contact with A5. This is due to the change in bulk density of the soil at this contact with the underlying, more indurated lower stratum, resulting in an accumulation of horizontal rather than vertical subterranean chambers near the A4/A5 contact. From an archaeological perspective, however, the important point is that dead rodents tend to die and to be "deposited" in these lower horizontal burrows. This yields an accumulation of clearly naturally-deposited, small mammal bones at or near the contact with the more indurated soils. We discuss the general taphonomic problems in the interpretation of mammal bones from these sites subsequently; here it is simply appropriate to note that an increase in small mammal bones occurs at the lower levels of the site due to natural and not cultural factors.

The subsurface deposit at CA-LAN-2133, accordingly, can best be characterized as a buried cultural lens (A3) that varies between 40 - 50 cm in thickness in the center of the site, to 20 cm or less on the site edges. As is typical in sites in the

region, archaeological materials from this primary cultural lens have been moved downwards into the lower (A4) soils by rodent activities and, inasmuch as the primary cultural deposit is capped by higher materials (A1 and A2), also upwards to the groundsurface.

This subsurface deposit, per se, is centered in an area approximately midway between the E-W dirt road and the edge of the river terrace at the north of the site, and between a large bulldozer cut on the west side of the site and an eastern sloping edge of the terrace that trends towards neighboring site CA-LAN-2241. In the center of the site the lower limits of the A4 stratum varies from 100 to 130 cm in depth. However, the deposits thin laterally outwards from this central area, resulting in an archaeological deposit that is progressively shallower, but still blanketed by overburden, as one moves outwards. Although the site is elliptical in shape, overall dimensions of the site are 70 m N-S by 165 m E-W, for a site area of approximately 11,550 m^2.

Disturbance to this site deposit, then, is of two kinds. As detailed above, rodent disturbance has impacted the stratigraphic integrity of the deposit, spreading cultural remains both up and down the profile. This activity also accounts for the the apparent absence of intact features in the site: although hearths and housepit floors would be expected in

campsites such as CA-LAN-2133, no evidence of intact subsurface features of any kind was uncovered. Second, the westernmost and southern sides of the site have been bulldozed; in the first instance, by the implacement of a pipeline and cow-path leading down to the Santa Clara River and, in the second, by the graded dirt road that traverses the site. Thus, the current integrity of CA-LAN-2133 must be considered no better than moderate.

3.3 CA-LAN-2241 (NLF2)

At the nearby site of CA-LAN-2241 a considerably different picture emerged during the fieldwork. As noted above, surface artifacts and two concentrations of human remains were encountered on the groundsurface of this site during our fieldwork. Inspector Nils Linder of the Los Angeles County Coroner's Office was notified of these human remains, while consultation with and monitoring by the California Indian Council Foundation occurred during the fieldwork, to determine the initial treatment of the human remains.

Mapping and surface collection on the site resulted in the recovery of a very small artifact assemblage, consisting of only six artifacts. These were entirely derived from the disturbed portions of the site: the roadway, the windrow alongside it, and

the bulldozed area to the south of the road. No surface artifacts or other archaeological indicators of any kind could be found on the small portions of intact ground on the site.

In addition to the mapping and collection of the groundsurface remains, four test units were excavated at CA-LAN-2241 (Figure 4). Because all of the surface archaeological remains from CA-LAN-2241 were found in heavily disturbed areas, and because road grading and run-off from Potrero Mesa have removed most of the original groundsurface in the site area, testing was concentrated in the three small portions of the site still containing original groundsurface. Each of the units was excavated by 10 cm level to a minimum depth of 50 cm; Units 1 and 3 were dug to 75 and 60 cm depth, respectively. Soils in each unit were a light yellow brown sandy colluvium. All of the units were entirely culturally sterile, indicating that no subsurface archaeological deposit is present at this site.

The human remains were found in two very different contexts. Burial #1 consists of a few heavily weathered and fragmentary pieces of a human cranium, humerus, femur and radius, found on the groundsurface of a bull-dozed area south of the dirt road. These were collected during the fieldwork for laboratory analysis and eventual re-interment, as requested by the California Indian Council Foundation.

All of the human remains from Burial #1 are apparently derived from an adult, but they are too fragmentary to age to any more specific degree, or to sex or to identify pathologies. The location in which Burial #1 was found corresponds to the area in which a number of the surface artifacts were also found. Based on the weathered nature of the human bones, their discovery in an area of obvious bulldozer disturbance, and the absence of any subsurface archaeological deposit in this location, they apparently were secondarily-deposited during the bulldozer activity, along with the surface artifacts from this same locale. That is, Burial #1 at CA-LAN-2241 consists of a highly disturbed, fragmentary interment in a secondary context. Given the absence of any extant subsurface remains at CA-LAN-2241 or surface artifacts in undisturbed groundsurface contexts, it is likely that this burial and the artifacts found near it on the site derive from an archaeological deposit that was destroyed during grading. That is, we believe that there is no longer an extant archaeological deposit at this site.

Burial #2, in contrast, provides a different and somewhat more ambiguous picture. It was found at the bottom of a steeply-sided arroyo (tributary to the Santa Clara River) that runs north-south along the presumed western side of CA-LAN-2241. At the time of discovery, it had apparently fallen out of the sidewall of this arroyo in a slope failure. A preliminary evaluation of it suggested that it comprised a fairly complete,

albeit obviously disturbed, human burial, that had fallen out of the upper portion of the arroyo sidewall. However, prior to a complete exposure and recording of it, a second slope failure occurred, burying this interment with many cubic yards of soil.

Extensive efforts were made to uncover and then to stabilize Burial #2 because, given its location on the bottom of the arroyo, it is clear that it eventually will be destroyed by natural stream action. However, the second slope failure proved to be very substantial, completely stymieing our efforts to uncover the burial. Thus, Burial #2 is still present on the site and, although it is currently buried by a considerable number of yards of soil from the slope failure, it is nonetheless apparent that natural stream erosion in the arroyo (which was ultimately responsible for both slope failures) will result in its eventual destruction.

At this point and given the above data, any interpretation of this burial must be considered very preliminary. The excavation of two of the test pits (Units #1 and 2) above the arroyo in the immediate area where the burial is presumed to be derived failed to find any evidence for subsurface archaeological remains. Thus, it is possible that Burial #2 represents an isolated prehistoric interment that is currently buried in the bottom of an arroyo by a slope failure. Alternatively, it is also possible that the burial is not an aboriginal interment at all,

but instead represents a victim of the 1928 San Francisquito Flood disaster, which caused the death of over 400 people, many of whose bodies were never recovered (Outland 1963). Although such a scenario might seem far-fetched, we have observed buried modern cow bones lying under five to six feet of alluvial overburden at about the same elevation on the same side of the Santa Clara River; it is known that a 300 feet wall of water inundated Castaic Junction, not far upstream from the site, during the flood; and a major wall of water was trapped slightly downstream from the site at Blue Cut (now known as 40 Mile Curve), causing a massive whirlpool that resulted in the loss of 84 men's lives who were, at that time, living in an Edison work camp along the river (ibid:106-107). Furthermore, our test excavations in the landform from which this burial presumably was derived indicate that soils at this spot are alluvial overbank deposits; that is, flood deposits.

In summary, then, our best estimate of CA-LAN-2241 is that it was once a small site that has been destroyed by road grading, bulldozer activities and natural erosion. With the exception of Burial #2, all archaeological remains from the site, which consisted entirely of disturbed surface remains, were collected during the Phase II test. Burial #2, although now heavily disturbed by natural erosional activities, is still present within the general confines of the site area. Most likely, it represents another prehistoric human burial from the site that will

eventually be destroyed if left in its current context. Alternatively, it may represent a modern flood victim that only coincidentally was laid to rest in the area of a prehistoric archaeological site.

Given the current destroyed status of CA-LAN-2241, then, it is impossible to estimate its original size. However, it is possible to infer that, in its original condition, it must have been very small, probably no more than 20 meters in diameter. This inference is based on the simple fact that the area within which the site was located is itself a small and narrow arroyo mouth, with the site presumably having originally sat on one of the arroyo terraces found therein. Further, the presence of only a very small quantity of disturbed artifacts supports the interpretation that this site was once quite small in size. In fact, it is possible that CA-LAN-2241 originally consisted simply of two human burials, both of which were disturbed over the years.

3.4 CA-LAN-2235 (NLF3)

Field conditions were, likewise, considerably different at CA-LAN-2235 than at the previous two sites, based on the obvious presence of a modern house, with its attendant utility system and ornamental vegetation, in the approximate middle of the

site, along with a paved road on its presumed southern and western sides. Fourteen test pits were excavated on the site (Figure 5) and, during the mapping and surface collection, 14 surface artifacts were collected. These procedures revealed the presence of a low density subsurface archaeological deposit. As at CA-LAN-2133, this deposit was variable in depth, in this case with greatest cultural depth at the southern end of the low knoll containing the site, thinning laterally towards the north and towards the sides.

The stratigraphic relationships at the site are revealed in Figure 6, which provides a profile of Unit 11, the deepest pit at CA-LAN-2235. As is evident in this profile, three A horizon strata are present at this site. The A1 or top 20 cm of the site is a plow zone and root layer, which has been heavily disturbed by disking and vegetation. Soil in this stratum is silty loam that is dark greyish brown (10 YR 4/2). Below A1, with a thickness of about 50 cm, is A2, also a silty loam but brown/dark brown in color (10 YR 4/3). This is the primary archaeological deposit on CA-LAN-2235. The A3 stratum, a sandy loam that is dark yellowish brown (10 YR 4/4), lies below A2. There is a gradual and diffuse contact between these two soil units; this contact is itself approximately 20 cm thick, lying between 70 and 90 cm in depth. Although artifacts are present in this gradual contact zone, these appear to have been moved into this lower contact zone by rodent activity, as

krotovinas are common in the A1, A2 and A3 strata.

Thus, the intact subsurface archaeological deposit at CA-LAN-2235 consists of a primary deposit that ranges from about 20 cm in thickness, at the northern end of the site, to approximately 50 cm in depth at the south. Above this primary deposit, the top 20 cm across the site has been heavily disturbed by disking. Additional disturbance has occurred at the base of the deposit, where rodent activity has moved archaeological materials deeper down the profile from the primary deposit, in some cases 20 cm or more.

As implied above, the size of CA-LAN-2235 is effectively defined by a paved dirt road on the southern and western side of the low knoll, and by the edge of the San Martinez Chico arroyo to the east. Dimensions north-south extend from the toeslope of the knoll (at the paved road) northwards up the elongated knoll about midway through the dirt lot north of the existing house on the site. Thus, the site covers an area 100 m NW-SE and 50 m SW-NE, for a total of 5000 m^2.

Note, however, that within this total site area considerable disturbance has occurred which has greatly reduced the extant area of intact site. The house and driveway, for example, cover approximately 600 m^2, or ~12% of the site area. These have effectively destroyed all vestiges of the archaeological deposit

that was once under them. Furthermore, during the excavation of Unit 6, the northern edge of a modern gravel leach field was encountered. This extended from 40 to 60 cm in depth. Although the archaeological deposit was 70 cm deep itself at this spot, the presence of a 20 cm gravel layer between 40 and 60 cm in depth here indicates that everything above 60 was at one point excavated out, the gravel was then spread within the leach field, and topsoil was placed on top of the gravel. That is, for all intents and purposes the archaeological deposit in the area of the leach field was also effectively destroyed, thus expanding the area of complete archaeological deposit destruction northwards from the house another 20 meters.

Based on the above figures, then, we can calculate that approximately 24% of CA-LAN-2235 has been completely destroyed by house and leach field construction, while the remaining portions of the site have been impacted by the rodent disturbance that is typical in the region, as well as by disking and horticultural modifications associated with a modern residence.

In summary, CA-LAN-2235 was found to have a primary, intact subsurface archaeological deposit ranging from 20 to approximately 50 cm in thickness; the 20 cm above this primary deposit has been disturbed by disking. Furthermore, although the site covers an area 5000 m^2 in size, construction within

this area has reduced this figure by roughly 24%, leaving about 3800 m^2 of intact deposit. Given these circumstances, CA-LAN-2235 can be considered to be highly disturbed; that is, in very poor condition.

3.5 CA-LAN-2234 (NLF4)

Surface collection and the excavation of nine test pits (Figure 7) were completed on CA-LAN-2234. These resulted in the recovery of seven surface specimens and a small quantity of subsurface archaeological remains. However, based on our excavations and on subsequent discussions with members of the Newhall Land and Farming Company agricultural division staff, subsurface soil conditions at the site proved to be complex, and indicated that the site had a relatively involved depositional history.

In order to fully understand the circumstances at this site, it is important to note that it sits immediately east of the San Martinez Chico arroyo; soils on the site, thus, are all alluvial overbank deposits. Within the approximate center of the site there is currently a large, mature oak. To the dripline of this oak the groundsurface is intact and undisturbed by disking or other modern activities. However, it is apparent that the tree

actually sits on the western bank of a small drainage, a fact that is masked by artificially elevated and recently disked soils around this island of undisturbed soil. That is, soils around the oak are essentially level in all directions, indicating at a minimum that soils had been brought in and placed southeast of the oak to fill-in the small drainage upon whose side this tree sits.

Excavation units in the disked soils on the site resulted in the recovery of very low densities of artifacts; typically on the order of one or two pieces of chipping waste per 10 cm level, extending in most cases to about 30 cm, but in two units to 60 cm. However, the distribution of the units containing different depths of cultural remains proved to follow no discernible pattern, as should occur in all subsurface deposits; instead, the depth distribution of cultural remains was completely random rather than, for example, having a deep deposit at one locale with a progressively thinner cultural deposit outwards from this deepest locale, which is the normal depositional pattern. Moreover, within the island of undisturbed soil in the middle of the site, no artifacts of any kind were encountered. That is, precisely where the most intact cultural deposit would be expected under normal site conditions, no archaeological remains of any kind were found. Based on the visibly identifiable artificial elevation of soils around the island containing the oak, the random depth distribution of cultural

materials, and the absence of cultural materials within the undisturbed island area, we inferred that the soils containing the site might be introduced fill derived from a nearby archaeological site.

Such an inference was verified by the agricultural staff of Newhall Land and Farming Company, who stated that the soils containing the artifacts at this "site" in fact had been borrowed from the area of CA-LAN-2233, to the west of the Martinez Chico arroyo and south of Highway 126, about 10 years previously, and were spread in their current location for erosion control. That is, CA-LAN-2234 in fact proved to not be an archaeological site, in the sense of an intact deposit of cultural remains, but instead represents a small quantity of out-of-context, highly disturbed artifacts that were moved from their original locations some years earlier. Given the extremely low density of artifacts recovered from the introduced fill, it appears that the portion of the nearby site of CA-LAN-2233 that was graded for this erosion control was a primarily a periperhal surface deposit.

Thus, CA-LAN-2234 entirely lacks integrity and, as a secondary deposit of introduced fill containing artifacts, is rightly not an archaeological site in the proper sense of the word. Any estimation of site size or depth, therefore, would be meaningless.

3.6 CA-LAN-2233 (NLF5)

Thirteen test pits were excavated on this site (Figure 8), which straddles Highway 126. Three of the test pits (Units #1 - 3) were placed south of the highway; the remainder (Units #4 - 13) were excavated to the north in an agricultural field extending towards CA-LAN-2235. Site conditions proved to be distinct between the southern and northern portions of the site; accordingly, we discuss each of these areas in turn.

That section of CA-LAN-2233 south of Highway 126 represents a relatively narrow portion of the lower terrace immediately overlooking the Santa Clara River, and appears to have been heavily impacted by various modern construction activities. In addition to the highway itself, which rests upon a large bed of fill where it crosses the southern section of CA-LAN-2233 (thus burying portions of the site), this southern section also includes the old railroad right-of-way and a dirt road alongside the former rail tracks. Furthermore, as noted above, the eastern end of this southern site area served as a borrow pit for fill dumped on nearby CA-LAN-2234. The southern section of the site, finally, has been cultivated, and thus has been disked and plowed for an unknown number of years. In short, there is ample evidence of considerable disturbance in this portion of

CA-LAN-2233.

That said, it is nonetheless true that surface artifacts are readily exposed on the ground in this portion of the site, indicating presumably that little in the way of colluviation has occurred here that would bury the surface expression of the site. Surface collecting undertaken in this portion of CA-LAN-2233 resulted in the recovery of 14 archaeological specimens.

The three test units excavated in the southern site area also yielded a very small assemblage of archaeological remains. However, all of these specimens were concentrated in alluvial overbank deposits in the top three levels of these units; that is, within the plow and disk zone, with no archaeological materials present below this zone of mechanical disturbance, and with no indication that a true subsurface archaeological deposit was present in this portion of the site. Accordingly, the handful of lithic waste flakes found during the excavations in this southern portion of the site clearly represent surface materials that were introduced into the subsurface by agricultural activities.

The southern section of CA-LAN-2233, thus, represents a small surface lithic scatter that has been heavily disturbed by the construction and then demolition and removal of a railroad track, by the grading of a dirt road, by the borrowing of topsoil,

by disking and plowing, and by the construction of Highway 126 over it. Most likely, this southern portion of CA-LAN-2233 once served as a peripheral activity area associated with the larger section of the site to the north. Our fieldwork on the southern site area, however, resulted in the collection of all extant surface artifacts in this area.

Although their geomorphological relationships are now slightly obscured by Highway 126, the northern portion of CA-LAN-2233 sits on what was once a higher terrace slightly northeast of the southern section of the site. Historically the northern portion of the site was a walnut orchard; for at least a dozen years it has been actively farmed with row crops. These activities have accelerated colluvial movement from the northern end of this terrace to the southern end, now truncated by the highway. The result is a buried subsurface archaeological deposit which thickens towards the south, and with surface expressions limited to very occassional evidence brought up in rodent back-dirt piles, by plowing, or perhaps by stump removal when the walnut orchard was cut-down and its remnants removed.

Ten test pits were dug in the northern portion of CA-LAN-2233 (Figure 8). These revealed the presence of a deep but very low density archaeological deposit. In one unit (#8) this deposit extended to a depth of 200 cm; average depth, however, was about 140 cm, with lateral thinning towards the edges of the

site, especially from south to north.

The nature of this deposit is best revealed with reference to a representative soil profile, as illustrated by Figure 9, which depicts the west wall of Unit 5. There are three pertinent soil horizons in this profile. Stratum A1 is the plow and disk zone, which extends from a minimum of 20 to a maximum of 30 cm below the modern groundsurface. A1 soil is silty loam that is yellow brown in color (10 YR 4/4). There is an abrupt but irregular contact between the A1 and underlying A2 strata. In some units (though not present in Unit 5 and not depicted in Figure 9), a stone line was found at the base of the plow zone, reflecting the settling of heavier materials at the bottom of this highly disturbed layer.

A2, which is the primary cultural deposit on the site, extends from the irregular contact with A1 to about 100 cm in depth in Unit 5; in some units it is considerably deeper. A2 is also silty loam but it is dark brown (10 YR 3/3) in color. This stratum has been disturbed by both krotovinas and by walnut tree roots; although the orchard was removed a number of years ago, large root casts were still noticeable in many of the test pits. Furthermore, certain of the units (particularly Unit 4) displayed no intact A2 stratum; instead, a heavily mixed deposit of A2 and A3 soils was found where intact A2 stratum should have been located. Although these mixed A2/A3 horizon areas

contained artifacts, we assume they result from former tree stump locations on the site. Removals of these stumps would have mixed the soils from these two strata and, of course, artifacts would be left within these disturbed areas, although they are now out-of-context and lack any archaeological integrity.

The contact between A2 and A3 is gradual and diffuse. A3 proper, however, is a pale brown sandy loam (10 YR 6/3), and is culturally sterile.

Although there are small numbers of artifacts throughout the A2 stratum (including a few in A1), the majority tend to be concentrated in the lower half of the A2 horizon in most units. For example, in Unit 8 only 23% of the lithic artifacts (tools and debitage) were found between 0 and 100 cm depth; 78%, in contrast, were recovered between 100 and 170 cm. Similarly, in Unit 8, these proportions are 26% and 74%. That is, the lower portion of the deposit contained three times as many lithic specimens as the upper portion, even though the lower section is only about two-thirds as thick as its upper counterpart.

Although this circumstance may be partly attributable to the downward movements of artifacts in a disturbed profile, we suspect that it also reflects the fact that the major and more intensive portion of the occupation of the site occurred during

its earlier period. That is, rodent, walnut orchard and plowing have clearly moved archaeological remains both up and down within the profile, and colluviation on the site has been quite rapid, leading to a thick soil profile. Nonetheless, there appears to be a sufficiently strong pattern of concentration towards the base of the A2 cultural deposit to suggest that the site was most intensely occupied early in its history.

One other aspect of the excavation of the northern portion of CA-LAN-2233 warrants mention at this time. This was the discovery of a human burial in Unit 6 between 80 and 100 cm depth. Inspector Nils Linder of the Los Angeles County Coroner's Office was notified of this discovery, while the California Indian Council Foundation was consulted with regards to its disposition, and provided monitoring services during its exposure and recording. At the request of this last group, it was decided to expose and record as much of the burial as possible, but to leave it in place and thus re-bury it in-situ.

The cranium of this burial was found protruding out of the south wall of Unit 6 at ~80 cm depth. A window was cut into the sidewall of this unit to expose as much as was feasible of this burial; this allowed us to examine and record portions of the cranium and the left radius and ulna. The burial was well preserved and, we believe, largely intact, although we cannot be certain of this fact given our limited and partial exposure of it.

Based on our observed evidence, we have inferred that it is a prone burial, facing west, with the body extending north-south. No grave goods were observed associated with the portion of the burial that was exposed.

Based on this partial exposure, it was apparent that the cranium, frontal, parietal, temporal, zygomatic and occipital portions of the skull were present. A fragmentary left radius and ulna were also observed. All observed bones were gracile and clearly adult. Although speculative, it thus appears that the burial may represent a female. No pathologies could be observed on the very few bones that were exposed.

In addition to the in-situ human bones, some small human bone fragments were also found in the 70 - 80 cm level of the unit. These include a fragmentary foot phalange and a few small pieces of rib bone. Furthermore, a highly worn lateral incisor was recovered in the 20 - 30 cm level of this unit. It is very common for smaller bones to get displaced from an in-situ burial, being moved by rodent activities and root disturbance. These small, out of context fragments apparently represent such occurrences. These bones were likewise re-buried with the in-situ burial when the unit was back-filled.

it is important to note that Unit 6 was placed on the southernmost edge of the northern portion of CA-LAN-2233;

specifically, immediately adjacent to a small dirt frontage road that runs along Highway 126. Subsequent to the testing of this site, it was determined that the exact location of this unit falls within the highway right-of-way; that is, outside of the project area, per se.

In summary, CA-LAN-2233 can be considered to consist of two discrete sections. The southern section, south of Highway 126, originally consisted of a surface lithic scatter on the periphery of the site. Mapping and collecting at this location resulted in the recovery of all extant surface remains present there, but disturbance within this southern portion of the site has been so extreme that it is currently impossible to obtain any meaningful estimate of its original extent. The northern portion of the site, to the north of Highway 126, consists of a subsurface deposit that averages 140 cm in depth. Although this portion of the site was found to contain a human burial, this apparently is located outside of the project area, per se, in the highway right-of-way.

The extant subsurface deposit within the northern portion of CA-LAN-2233 currently covers an area of 150 m N-S by 60 m E-W, or 9000 m^2. Originally the site undoubtedly was longer but the construction of Highway 126 has truncated the deposit to the south. This deposit is in moderate condition: in addition to its southern truncation, it has suffered from rodent disturbance

typical for sites in the area but, more importantly, it has been impacted by the existence of a historical orchard on the site. In certain areas, this has resulted in a heavy mixing of the site deposit with culturally sterile soils, thus leaving the artifacts out of original context and therefore lacking integrity.

3.7 CA-LAN-2236 (NLF6)

Mapping, surface collection and subsurface testing at CA-LAN-2236 included the excavation of two test pits (Figure 10) and the recovery of four lithic waste flakes on the groundsurface of the site. The test pits revealed the presence of a thin layer of silty loam topsoil (very pale brown, 10 YR 7/3 in color), which graded between 15 and 20 cm to a more indurated sandy loam (brown, 10 YR 5/3). Two flakes were recovered from the top few centimeters of Unit 1; otherwise the subsurface was entirely culturally sterile.

Because the site area had been disked, it is apparent that CA-LAN-2236 consisted of a small, very low density surface lithic scatter which has had a few pieces of lithic chipping waste introduced a few centimeters into the soil by disking. It measured approximately 20 m E-W by 15 m N-S, or 300 m^2, for an extremely low surface artifact density of one flake per 75 m^2. Phase II testing at this locale resulted in the recovery of

effectively all extant remains from this small surface site.

3.8 CA-LAN-2240 (NLF7)

This site is a small rockshelter, measuring 5 m E-W, 2.5 m N-S and 2.25 m in maximum height, located along upper Portero Canyon, and thus some distance from the Santa Clara River, as well as from all other sites discovered within the study area. When first located, this locale was inferred to be an archaeological site based on the presence of fire-blackening on the ceiling (typically, indicating that fires have burned within the cave), the presence of a single chert flake on the groundsurface immediately outside of the cave mouth, and the fact that the vast majority of caves and rockshelters in this region served as caches for prehistoric remains, even if they do not manifest visible surface evidence of archaeological specimens (W & S Consultants 1989a).

Phase II testing at CA-LAN-2240, however, proved that it was the exception to this rule. Two test pits were dug within this rockshelter (Figure 11). These demonstrated that the soils are very shallow within the rockshelter, consisting of fine aeolian sands, which were entirely culturally sterile. That is, the excavation of both units failed to result in the recovery of any archaeological remains from this locale. Furthermore, the

single isolated chert flake found outside of the mouth of the shelter could not be relocated; most likely, it had eroded down slope as a result of rains or windstorms.

Thus, CA-LAN-2240, is apparently not an archaeological site but instead a natural rockshelter with no extant evidence of prehistoric use. Fire-blackening on the ceiling, accordingly, may have been caused by the burning of naturally accumulated brush (such as packrat wood piles) in the shelter during a wildfire in the region, or by prehistoric peoples who used the shelter but left no extant artifactual remains from such use.

3.9 CA-LAN-2242 (NLF8)

Archaeological site CA-LAN-2242 likewise is a small cave. Unlike CA-LAN-2240, however, it is located in San Martinez Grande Canyon near the Santa Clara River and the other sites considered during this study. Furthermore, it was found to contain significant evidence of prehistoric use.

Eight test pits were placed within this cave (Figure 12), which measures 3.5 m N-S, 4.25 m E-W, 1.5 m in height, and with an opening 2.75 m across. Only four of these units, however, were a full 1x1 m in size; the remainder were smaller portions of meter squares configured to correspond to the irregular

dimensions of the cave walls. Each unit was excavated to bedrock, which varied from a few to approximately 30 cm in depth. Soils within the cave proved to be fine aeolian sand, with one exception: at the front of the cave near the drip-line, a small deposit of light brown soil, extending from the groundsurface to bedrock, was encountered. This consists of the aeolian sands enriched by organics. Contact between this brown sand and the clean aeolian sand in the interior of the cave was essentially vertical. A series of artifacts and archaeological specimens were recovered from within this relatively small section of brown sand. These included bone tools, a steatite arrow shaft straightener, shell beads, asphaltum bearing impressions of baskets, and a small quantity of faunal remains. In addition, modern remains (such as wooden matchsticks and pieces of plastic sheeting) were also found in the deposit, including essentially resting on bedrock. These modern specimens, however, were found in the clean aeolian sands towards the back of the cave, not in the organically enriched brown sands at the front.

Although we discuss the artifact assemblage from this site subsequently, a few comments are in order to explain this collection. First, the nature of this prehistoric assemblage is such that it is clearly a cache of work tools and other items; that is, it is not a sample of artifacts and remains that would result from an occupation of the cave, nor is it a cache of

ceremonial or religious artifacts. Second, the distinctive transition between the clean aeolian sands, in the interior of the cave, which contain modern artifacts, and the organically enriched sand at the front containing the prehistoric remains, is important in terms of understanding the status of the cave. It is apparent that the interior of the cave has been entirely looted, and that the accumulation of clean sands in the back of the cave has occurred since this looting event. The few remaining artifacts found at the front of the cave in the intact deposit, in contrast, appear to represent the remnants left behind by the looters. This inference is substantiated, third, when historical background on cache caves in this immediate area is considered.

Cache caves are common in the region (W & S Consultants 1989a). The most famous of these is Bowers' Cave (CA-LAN-36), which is located about one mile away from CA-LAN-2242 near Val Verde. It was discovered before the turn of the century by two local teen-agers, the Pyle Brothers, who lived at Mud Springs in Hasley Canyon, and was found to contain a wealth of ritual items: ceremonial wands, feather sashes and skirts, bullroarers, and baskets. Because of the rarity of these items, they were purchased by the Rev. Steven Bowers (hence "Bowers' Cave"), a Ventura resident, who subsequently sold most of the artifacts to the Peabody Museum at Harvard University. Bowers is known to have paid the Pyle brothers

$1800.00 for the artifacts which, prior to the turn of the century, would have been considered a very substantial sum of money (Van Valkenburgh 1952; Elsasser and Heizer 1963).

The end result of the discovery and sale of the Bowers' Cave artifacts was, apparently, a systematic search for and looting of local caves. (Among other evidence, oral history in the Fillmore-Piru area indicates that at least one additional ceremonial cache cave was ultimately discovered by the brothers, but in this case at a now unknown location in Piru Canyon. One of the ceremonial sashes obtained at this Piru Canyon cave is displayed in Harry Lechler's Piru museum). Given the proximity of CA-LAN-2242 to Bowers' Cave as well as the Pyle Ranch, the visibility of the site from the canyon bottom, and the interest in cave looting generated by the Bowers' Cave artifact sale, it would have required miraculous circumstances for CA-LAN-2242 to have survived intact.

CA-LAN-2242, accordingly, appears to have originally comprised a cave used to cache tools and storage baskets. For all intents and purposes, however, it was effectively destroyed by looters, most likely before the start of this century. Our Phase II testing at the site removed the last few remnants of archaeological remains that were once present at this locale.

CHAPTER 4
ARTIFACT ASSEMBLAGE AND ANALYTICAL CONCERNS

4.0 Introduction

Although the general patterns of artifact distributions, enumerated in the previous chapter, provide important information relative to the size and nature of the archaeological sites considered in this Phase II study, proper determination of the significance and scientific importance of these resources can only be obtained with a more intensive analysis of the recovered artifact assemblages. Accordingly, in this chapter we consider these assemblages in some analytical detail, and what they imply about each of the sites as well as aspects of the prehistory of the region. We begin by detailing the laboratory procedures followed in the processing and curation of the recovered remains. Subsequently we outline the taxonomic system employed to categorize and classify each site's collection. This is followed by a typological summary of the artifacts and archaeological indicators recovered from each site. Finally, we consider the scientific importance of these remains in slightly larger comparative terms. This places them in a regional perspective, and informs an understanding of their probable functions and chronological positions.

4.1 Laboratory Procedures

Following the completion of the Phase II fieldwork at CA-LAN-2133, -2241, -2235, -2234 -2233, -2236, and -2242, the recovered artifact assemblages were taken to the W & S Consultants' laboratory for washing, processing and analysis. (Note that no artifact collection was obtained at CA-LAN-2240, which proved to not to contain any extant archaeological remains, and thus it is not considered in this chapter). After each specimen was washed and labelled, metrical and typological analyses were performed. We provide measurements and weights for the various artifacts and archaeological indicators in the respective site catalogs (Tables 1 - 7) included in this report. In order to facilitate typological comparisons between these sites, as well as to other similar sites from this same region, we have employed a standardized taxonomic system. We describe this classificatory system in some detail below.

4.12 Taxonomic Considerations

In considering the artifacts recovered from the Phase II investigations at CA-LAN-2133, -2241, -2235, -2234 -2233, -2236, and -2242, we employ a morphological stone tool typology first published by Whitley et al (1979) and now widely

used in the region. This affords a number of advantages. First, because of its widespread use (e.g., Johnson 1979; W and S Consultants 1984, 1989a, 1989b) it permits easy comparability between existing studies. Second, because it is morphologically rather than functionally based, it provides greater objectivity in taxonomic assignments. Specifically, it avoids the dangers inherent in inferring dubious functional purposes for stone tools that may have had multiple uses, and that often exhibit little in the way of formal attributes. In the inland southern California region, in particular, it is increasingly clear that most sites are characterized by expediant or casual tool assemblages, probably reflecting the fact that the sites resulted from dispersal phase activities that little emphasized formal patterns of behavior (W & S Consultants 1989b). Thus, a typology based on the elucidation of tool manufacturing stages, rather than one assuming final function of the implements, stands less chance of leading interpretations astray. However, this is not to imply that functional interpretations are unwarranted or undesired. Such is not the case; instead, it is simply to emphasize that functional interpretations must be made somewhat independent of - and therefore including other lines of evidence from - the typological assignments alone.

The morphological typology employed here is based on four major categories of stone artifacts (cf. Whitley et al 1979). These are: (i) groundstone implements; (ii) core/cobble tools;

(iii) flaked stone tools; and (iv) tool manufacturing waste, or debitage. Groundstone implements are tools that have been pecked and/or ground into shape. They include manos (or mullers) and metates (or basal grinding slabs), along with mortars, pestles, stone bowls and comals (or griddles). Although there is a general association between groundstone artifacts and plant grinding, pulping and processing, as in the case of manos, metates, mortars and pestles, this is not invariably so: stone bowls and comals, for example, had other uses, with certain kinds of bowls, in particular, sometimes reserved for ceremonial purposes.

Groundstone artifacts are usually (but not invariably) made of softer lithic materials. Metates, for example, are often made from sandstone or some other sedimentary material; bowls and comals are typically manufactured from steatite (soapstone or talc schist). Manos, however, were often derived directly from river cobbles of appropriate size, so that quartzite is a common material source.

Core/cobble tools are generally large, bulky implements made by the re-use and/or modification of a river cobbles and lithic cores. They include 'hammerstones', 'choppers' and 'scraper planes'. Hammerstones are usually unshaped or minimally shaped, roughly fist-sized, stones that exhibit characteristic battering and pounding scars, but often otherwise lack

modification. Choppers are cobbles or cores that have been unifacially or bifacially flaked to create a relatively sharp edge. Scraper planes are high-backed, unifacially flaked tools that are usually 'biscuit-shaped' in plan, with edge angles near perpendicular, and with heavy use-scars along their convex face.

All of these tools were apparently employed for heavy pounding, scraping and/or battering tasks. There is a frequent association of core/cobble tools with groundstone artifacts (specifically manos and metates) in the nearby Conejo Corridor region (Whitley 1979b), suggesting that the two categories may have been functionally related; that is, that core/cobble tools may have served as part of a plant acquisition and processing toolkit. This is supported in reference to the scraper planes, in particular, which are argued to represent special yucca processing tools (Kowta 1969; Salls 1985). Further, this suggests in turn that the core/cobble tools were part of a woman's plant gathering toolkit (W & S Consultants 1989b).

Flaked or chipped stone tools are secondary reductions from cores and cobbles. That is, they represent tools manufactured from flakes struck-off the primary sources of lithic materials. These flakes may be used without modification as 'utilized flakes'; they may be bifacially flaked; or they may be unifacially flaked. It is apparent that the majority of the

flaked or chipped stone tools in the region are either utilized flakes with no modification, or have edges that have been flaked unifacially or bifacially, but exhibit little or no effort for further edge modification or shape regularization (W & S Consultants 1989b). Again, this further emphasizes the casual or expediant nature of these tools, and also implies that they may have been used for a variety of tasks with little functional specialization.

Correspondingly, the majority of the chipped stone tools from this region are what we have defined as biface or uniface 'edges', and they may have been used for any number of general cutting, scraping and abrading tasks. Of course, occassional projectile points and drills represent special types of bifaces with specific and known functions, whereas biface 'knives' (large leaf or knife-shaped tools) are presumed to have been used for cutting and piercing/stabbing tasks.

Generally, chipped stone tools were made from material with particular flaking characteristics; specifically, those subject to conchoidal fracture. Crypto-crystallates such as chert and chalcedony, therefore, are common raw materials, but fused shale, quartzite, cherty-siltstone, rhyolite, andesite, basalt and occassionally obsidian may also be present in a collection. Because small hand specimens of rhyolite, andesite and basalt are, in fact, only distinguishable with petrographic analysis, we

treat them all as "fine-grained volcanics". And, as we have recently discovered (W & S Consultants 1991b), "fused sandstone", resulting from contact metamorphism between Miocene Conejo Volcanics and sedimentary beds, was also a lithic material of common use in the region. Because of its similarities to fused shale (based, of course, on similar metamorphic origins), it has often been mistaken for this latter material. This would be inconsequential, save for the assumption that the putative fused shale has its sole origins in Grimes and Happy Camp Canyons, north of Moorpark. Instead, it is apparent that a number of fused sandstone quarries are present in the nearby Conejo Corridor; that their respective lithic materials are widely mis-recognized as fused shale; and that, therefore, lithic exploitation was probably much more widely ranging than the often inferred simple exploitation of major quarries at Grimes Canyon might suggest (W & S Consultants 1991b).

The final category of stone artifacts is what can be considered lithic waste or debitage. It includes spent cores, waste flakes, and angular shatter. There are a number of different kinds of cores and flakes, and the presence of these varieties at a site tends to signify different types of tool reduction or manufacturing techniques. For example, the presence of large numbers of secondary and tertiary flakes usually indicates that chipped stone tool manufacture occurred at a locale, whereas

primary flakes alone might be associated with the making of the cruder chipped stone tools, or might be expected at quarries where only the preliminary stages of tool manufacturing were conducted. Similarly, relatively large proportions of tertiary flakes correlate with habitation/campsites, in that tool maintenance and finishing occurred at these locales. Furthermore, because different lithic materials tend to correlate with different categories of tools, the material present in the debitage collection can also be a clue to a site's function. Quartzite and other 'crude' lithic materials, for example, are often found where core/cobble tools are manufactured, whereas crypto-crystallates tend to occur where chipped stone tools are manufactured. And, in a general way, there is an association between these last materials, chipped stone artifacts, and habitation sites (W & S Consultants 1989c).

In addition to the lithic tool typology, other classes of artifacts may be present at local sites. Dietary remains, in the form of shellfish and faunal bones, are sometimes present, as are ornaments, usually in the form of shell beads. Where appropriate, based on the specifics of each recovered artifact assemblage, we consider these categories of remains below, on a site by site basis, as well.

4.2 Artifact Assemblage: CA-LAN-2133 (NLF1)

The prehistoric artifact assemblage from CA-LAN-2133 (temporary designation NLF1) consisted of a total of 815 lithic specimens (Tables 1, 8 and 9). As in most sites, this was dominated by debitage or waste flakes, representing 796 specimens, or 98% of the assemblage total. The remaining 19 formal lithic artifacts (2%) included 2 examples of core-cobble complex tools (~11%), five flaked stone tools (~26%) and 12 piece of groundstone (~63%). Other archaeological specimens include three miscellaneous artifacts and a small quantity of shellfish and bone. We discuss the categories of artifacts present on the site in turn.

Core/cobble complex tools

Core/cobble complex tools from CA-LAN-2133 (Table 8) were limited to two examples, representing 11% of the formal tool assemblage from the site. These are a Type 2A minimally modified cobble hammerstone (see Whitley et al 1979:18), made of quartzite (catalog number #2133-188); and a Type 2 meta-volcanic biface core chopper (#2133-189; ibid:15). Both artifacts were recovered at depth from the site, being derived from the 40 - 50 cm level of Unit 18 and the 50 - 60 cm level of Unit 19, respectively.

With an assemblage of only two core/cobble complex artifacts, functional inferences of any kind are, necessarily, difficult to make. However, one characteristic of this assemblage - in this case the negative evidence that it presents - appears important for archaeological interpretations. This concerns the putative importance of core/cobble complex tools, particularly hammerstones and scraper planes, in agave processing. Earth ovens used for agave roasting are quite common in the archaeological record of the Upper Santa Clara Valley in the Acton/Agua Dulce area; thus one might infer that agave constituted an important part of the diet of the inhabitants of this region. We presume that artifact assemblages from sites in the Acton area would reflect this subsistence emphasis, with significant numbers of these kinds of core/cobble artifacts. Although we would have assumed that this subsistence pattern would have also held for the West Ranch study area around Castaic Junction, the absence of any significant numbers of these tool types, combined with our earlier failure to find agave roasting ovens during the archaeological survey of the property, demonstrate that the subsistence importance of agave was restricted to the more eastern, and therefore drier portions, of the Upper Santa Clara River.

Flaked Stone Tools

Although not common at the site, flaked stone tools were more frequently encountered than core/cobble complex tools, with five flaked stone artifacts recovered. This represents 26% of the formal tool assemblage.

Flaked stone tools include one projectile point, three biface tools, and one uniface artifact. The projectile point (#2133-29) is a fragmentary chert tip, recovered from the 50 - 60 cm level of Unit 2. As such, it is not temporally diagnostic and thus provides no information on the age of the site. However, it is worth noting that, at the time of the Phase I survey of the West Ranch study area, an atlatl point was discovered on the site surface, along an active cattle path. This could not be relocated at the time of the Phase II study, no doubt due to regular use of the pathway by cattle. Nonetheless, it demonstrates that at least some use of the site occurred prior to the introduction of the bow and arrow into the region, or prior to approximately A.D. 500 (cf. Yohe 1989).

The biface artifacts recovered from CA-LAN-2133 include one chert knife mid-section (#2133-185, Unit 18, 0 - 10 cm level), and two biface edges. Of the biface edges, artifact #2133-11 (Unit 1, 60 - 70 cm level) is made of chert, while artifact #2133-186 (Unit 18, 20 - 30 cm level) is made of quartz.

Although locally available, quartz is a particularly intractable lithic material for flaking purposes, and thus is only occasionally represented in the tool and debitage assemblage from the site. Given the difficulty in working quartz, this last biface edge is crude and clearly represents a casual and expedient tool form.

The final flaked stone tool from CA-LAN-2133 is a uniface edge made of quartzite (#2133-177), recovered from Unit 3, 90 - 100 cm level. As with the biface edges, it is also a crude and expedient stone tool.

Groundstone

Groundstone comprised the largest component of the formal tool assemblage from the site, with 12 artifacts, constituting 63% of the formal tool assemblage. Manos, or hand grinding stones, were the largest contributor to this class, represented by seven examples, for fully 37% of the formal tool assemblage. The manos included four Type 4B shaped biface artifacts (cf. Whitley et al 1979:43), one Type 4A shaped biface specimen, and two small untypable fragments. That the typable manos are all variants of Type 4 shaped biface specimens indicates that considerably more care was expended in groundstone manufacture than in the flaked stone assemblage, which (as we have noted) was dominated by expedient, casual tools.

Type 4B manos from CA-LAN-2133 include specimens #2133-68 (Unit 5, 50 - 60 cm level), made of schist; #2133-108 (Unit 6, 80 - 90 cm level), sandstone; #2133-176 (Unit 3, 70 - 80 cm level), quartzite; and #2133-250 (Unit 9, 30 - 40 cm level), also sandstone. The Type 4A mano is #2133-125 (Unit 10, 20 - 30 cm level), made of sandstone. The untypable fragments are both made of quartzite (#2133-175, Unit 3, 70 - 80 cm, and #2133-190, Unit 20, 40 - 50 cm). It is apparent that a wide range of materials, thus, were employed in mano manufacture. With one exception, these are locally available, presumably from the nearby river bed. The exception is the schist; presumably, Sierra Pelona schist from the Acton area. Although this has not been sourced chemically, as a general observation we have noted that what appears to be Sierra Pelona schist is common in the groundstone assemblages from Upper Santa Clara River sites, whereas it is not found in sites further towards the west and south.

Two unshaped but utilized pestles were also recovered from the site. Both of these are made of sandstone (#2133-87, Unit 5, 80 - 90 cm, and #2133-111, Unit 6, 50-60 cm).

The presence of pestles on the site is important for two reasons. First, it has long been assumed by archaeologists that manos (and their corresponding metates) and pestles (with

mortars) were functionally distinct: manos used to grind hard seeds, and pestles to pound acorns. Although this distinction has never been proven, it is reasonable enough, and it has an important implication about subsistence practices at the site: a variety of plant foods were being gathered and processed at CA-LAN-2133.

The second implication of the pestles is chronological: mortars and pestles first occur in the southern California archaeological record at the beginning of the Intermediate or Middle Period, or approximately 3500 years B.P. The presence of these artifacts at CA-LAN-2133, therefore, suggests that the site is an Intermediate Period, or later, occupation. This inference, furthermore, is substantiated by the atlatl point that was noted on the site surface during the Phase I survey, mentioned above, which is minimally 1500 years in age. The combination of these two temporal diagnostics suggests strongly that at least portions of the site date between 1500 B.C. and A.D. 500.

In addition to the hand groundstone, one fragment of a basal groundstone implement was recovered: an untypable portion of a metate (#2133-174, Unit 3, 50 -60 cm), made of sandstone. In addition, one miscellaneous piece of groundstone was encountered. This is a lightly ground piece of schist (#2133-109, Unit 6, 80 - 90 cm), which is either a fragment of a mano

or a groundstone plaque of unknown function.

Debitage

As noted above, debitage is almost invariably the most common class of remains from local sites. This proved true at CA-LAN-2133, where debitage constituted ~98% of the recovered assemblage. Details concerning the materials and classes of debitage recovered from the site are provided in Table 9. However, the debitage assemblage can be summarized as follows.

By lithic material, locally available chert was the most common debitage form, contributing ~58% of the total. Fused shale was also a very important lithic material at the site, constituting ~27% of the debitage. As noted previously, major fused shale sources are present in Grimes Canyon, near modern Fillmore, with smaller sources dispersed throughout the Conejo Volcanics to the southwest of Moorpark. Other quantitatively significant lithic materials include metavolcanics (7%), quartzite (~6%), and obsidian (~1%). Fine-grained volcanics and quartz are also represented, but in minor quantities (<1%).

The presence of fused shale on CA-LAN-2133 is important inasmuch as it reflects lithic material acquisition at a distance, albeit a relatively short distance. More to the point,

however, the obsidian from the site is clearly derived from volcanic glass sources in eastern California, and therefore demonstrates trade over long distances.

Five obsidian specimens from CA-LAN-2133 have been submitted to Glenn Russell, Ph.D., UCLA Institute of Archaeology Obsidian Hydration Laboratory, for hydration dating, and Paul Bouey, Ph.D., Geotrace, for x-ray flourescence (XRF) sourcing. Although the results of the XRF sourcing analysis are not yet available, and the dating must be based on the source from which the obsidian was obtained, there are nonetheless some provisional inferences that can be plausibly made, due to a very strong local pattern in prehistoric obsidian trading networks. This pattern demonstrates that the large majority of obsidian specimens from southern California sites are derived from the Coso obsidian source of Inyo County, which is approximately 175 miles from the site.

Until the final XRF results are available, it may be reasonably assumed that the inhabitants of CA-LAN-2133 were involved in long-distance trade of some form with the Coso region near Little Lake. In terms of trading networks it is important to note that, should the samples from CA-LAN-2133 prove to have been derived from other obsidian sources, the distance of this long-distance trade network will be increased, inasmuch as the Coso source is in fact the closest source to southern California.

However, accepting for a moment the assumption that the obsidian from the site is derived from Coso, we can then use the Coso calibration of 220 microns/year proposed by Meighan (1981) to obtain provisional direct chronometric ages for the specimens from CA-LAN-2133. These chronometric ages are as follows:

Catalog #	Microns	Years BP	Years AD/BC
22	4.9	1078	AD 874
48	7.0	1540	AD 412
56	9.6	2112	160 BC
65	3.6	792	AD 1160
86	7.2/7.7	1584/1694	AD 368/258

Thus, these provisional obsidian hydration dates suggest an occupation of CA-LAN-2133 extending minimally from 160 BC to AD 1160. This chronological inference, even though provisional at this point in our analyses, fits neatly with the estimates of site age made on the presence of an atlatl point and pestles, as noted previously. That is, this gives us three lines of evidence supporting an occupation of CA-LAN-2133 during the latter portion of the Intermediate Period, and perhaps mostly between roughly 200 BC and AD 1200.

The distribution of waste materials by debitage class is also useful for inferring the function of different archaeological sites: quarry and lithic workshops, for example, are dominated by cores, primary flakes and angular shatter; habitation sites

tend to have large proportions of secondary and especially tertiary flakes, reflecting final tool manufacturing and refinement. At CA-LAN-2133, the proportions per class are as follows: primary flakes - ~19% of the total; secondary flakes - ~22%; tertiary flakes - ~53%; and angular shatter - ~14%; with <1% cores and biface thinning flakes present.

The preponderance of tertiary flakes, followed by a significant quantity of secondary flakes, of course, matches the minimal numbers primary flakes, pieces of angular shatter and cores on the site. As noted above, the classes of debitage present on the site are those associated with final tool production, refinement and maintenance, not with primary lithic reduction and tool production. Moreover, the kinds of flakes present on the site are those typically associated with habitation sites: villages or campsites. In turn, this final inference is supported by the general nature of the tool assemblage which, even though relatively small quantitatively, is nonetheless characterized by a broad range of types and classes of implements.

One final point concerning the debitage needs be made. This concerns the absence of any clearly discernible pattern of lithic reduction in the flakes; for example, biface thinning flakes, which result from systematic biface manufacture (e.g., arrow points or knives), are all but absent in the debitage assemblage. Thus, while the debitage reflects final tool manufacture and

maintenance, it does not appear that this was either systematic or that it was conducted to any great intensity at this site.

Miscellaneous Artifacts

A small quantity of miscellaneous artifacts was also recovered from CA-LAN-2133 (Table 8). As regards bone tools, two tips of bone awls were recovered from the site (#2133-47, Unit 3, 50 - 60 cm, and #2133-193, Unit 6, 80 - 90 cm). Both of these, presumably, were manufactured from deer cannon bones. More importantly, they demonstrate that basketry production occurred on the site, inasmuch as bone awls were the primary tools used to weave coiled baskets.

The final category of miscellaneous artifacts is a bead, in this case a disk bead made of steatite (#2133-70, Unit 5, 60 - 70 cm). This, of course, is an indication that some degree of personal ornamentation was practiced by the inhabitants of the site, as was typical throughout prehistoric California. Unfortunately, while beads and ornaments are often useful as chronological indicators, this particular steatite bead represents a type used almost throughout the entirety of the prehistory of the region (cf, C. King 1981).

Faunal Remains

In addition to the lithic and bone artifacts, faunal remains were also recovered from CA-LAN-2133. Animal bone from the site is summarized in Table 10. In interpreting such a collection of faunal remains from local archaeological sites, however, an important analytical concern is the taphonomic history of the collection. That is, because bones may occur naturally in the subsoil - especially bones of small mammals such as pocket gophers and ground squirrels that commonly reside and die in burrows - it is not always a straightforward process to determine which specimens in a faunal collection are truly archaeological and which are present as the result of normal animal activities. This problem is compounded by the fact that certain of these same burrowing animals may have been employed as parts of the prehistoric aboriginal diet. Furthermore, domestic dogs and wild coyotes may take or leave bones on sites, while large mammals can die on them after their prehistoric occupation. And, in the case of caves and rockshelters, a very wide range of animals may have lived and died in these sheltered habitats, or have been dropped there by other non-human predators.

Because of these confounding factors we have developed a series of short and general guidelines to aid in determining which specimens are most likely 'cultural', in the sense of

having resulted from aboriginal behavior, and which bones are most probably unrelated to the archaeological remains and therefore only within the archaeological deposit due to serendipitous circumstances. In terms of positively determining that a given bone was brought onto a site by human agency we consider the following as useful criteria: (i) butchering and cutting marks; (ii) evidence of burning and charring; (iii) knowledge of the habits of a given species, indicating a low probability of its remains being naturally interred in a particular type of deposit; and (iv) ethnographic information concerning the diet and butchering habits of local aboriginal groups. Information counting against the inclusion of a given bone in a reconstruction of prehistoric diet includes: (a) knowledge concerning the behavior of a given species, indicating a high likelihood of natural deposition in the type of deposit in question; (b) 'freshness' of the bone; (c) absence of butchering marks and burning, or the presence of modern saw-cut marks; and (d) ethnographic data discounting the use of that species by local groups.

Thus, a cut long bone of a deer or a charred rabbit femur both would be considered most probably as 'cultural' specimens, and of course any marine mammal or fish bones could only have been deposited in an archaeological deposit by human activities. By contrast, pocket gopher and ground squirrel bones would be considered with suspicion if derived from an open-air deposit,

such as CA-LAN-2133, particularly if they lacked any evidence of butchering or charring.

With these considerations in mind, the collection of faunal remains from CA-LAN-2133 was analyzed and is tabulated in Table 10. As is typical in sites in the region (cf. Reynolds 1978), the large majority of this collection consists of very small fragments, resulting from a heavy processing of the bones (probably by breaking and smashing) to extract the marrow. The result is a collection that is very difficult, if not essentially impossible, to speciate, especially since there are few articulations upon which to base a positive species identification. Consequently, we have organized the specimens, as well as those from the other sites considered in this study, into a series of size categories that provide some idea of the probable species (or range of species) from which they were derived. Except in cases in which the bone is so fragmentary so as to preclude any categorization whatsoever, unspeciated bone has been assigned to the appropriate size grouping; where possible, the skeletal element has been identified as well. These categories, with the range of species potentially observable in southern California sites along with certain of their live weights (cf. Reynolds 1978), are as follows:

Small mammal:
Pocket gopher (2.5 - 8.8 ozs)
Kangaroo rat (1.6 - 2.7 ozs)

Harvest mouse (0.3 - 0.6 ozs)
Dusky-footed woodrat (8 - 13.75 ozs)
Meadow mouse (1.5 - 3.5 ozs)
Audobon cottontail (912 gms)
Brush rabbit (1.25 - 1.8 lbs)
Ground squirrel (0.2 - 0.5 lbs)
Western grey squirrel (average = 1.75 lbs)

Medium mammal:
Black-tailed hare (4.4 - 6.1 lbs)
Grey fox (7 - 13 lbs)
Coyote (20 - 50 lbs)
Domestic dog
Racoon (1.8 - 22.2 kg)
Badger (3.6 - 10 kg)
Striped skunk (6 - 14 lbs)
Bobcat (15 - 35 lbs)

Large mammal:
Mule deer (125 - 200 lbs)
Guadalupe fur seal (50 - 100 lbs)
California sea lion (males to 600 lbs, females to 400 lbs)
Grey wolf (60 - 100 lbs)
Horse
Domestic sheep
Domestic cow

We emphasize, again, the relatively high degree of processing that the faunal remains from CA-LAN-2133 exhibit. With the above difficulties and caveats in mind, it can then be reported that 1195 pieces of animal bone were recovered from the site, representing a total of 234.5 gms. Following typical regional patterns, small mammal bone is the most common constituent

of this assemblage, by count, whereas large mammal bone provides the majority of the bone by weight. More specifically, the figures for the different faunal classes are as follows: large mammal - 179 pieces or 15% by count, and 132.6 gms or 57% by weight; medium mammal - 52 pieces or 4%, and 16.8 gms or 7%; and small mammal - 906 pieces or 78%, and 78.1 gms or 33%. There was also a significant quantity of bone that was so heavily rendered that it could not be classed by size (31 pieces or ~3% and 2.5 gms for 1%). Reptiles are represented in the assemblage by two turtle scutes, presumably from the Pacific Pond Turtle, Clemmys marmorata. Birds are also present (21 pieces, or ~2% and 7.0 gms or ~3%) in small but significant quantities.

Although close to all of the bone has been so heavily rendered for marrow extraction that speciation is impossible, a few observations and inferences can still be derived from this assemblage. The first is that, relative to other sites in the general southern California region, there is a very rough equity between the large and small mammal bone in this assemblage. This could be interpreted two ways. The first is that there is a higher than usual presence of intrusive small mammal bones in the collection. Although there is no objective way for us to evaluate this inference, it seems unlikely, simply because it requires an invocation of special and unique circumstances to explain the faunal assemblage. The second potential

interpretation, then, and the one that we favor, is that the exploitation and use of small mammals constituted an important part of the animal protein in the diet of the site's inhabitants. The plausibility of this interpretation is enhanced given the known ethnographic use of small mammals by southern California groups.

Even given the apparent relative importance of small mammals at the site, it is also clear that large mammals provided the bulk of the meat protein to the inhabitants of CA-LAN-2133. It is therefore worth mentioning that, even while unspeciated, this large mammal faunal assemblage undoubtedly is almost primarily mule deer; certainly, there is no evidence that large marine mammals are represented in this assemblage. Furthermore, the large mammal assemblage is notable because it is heavily dominated by broken long-bone shaft fragments. Although this may to some degree reflect preservational factors and such activities as dogs scavenging on the site while it was occupied, it also suggests to us patterning in the butchering practices of the inhabitants of CA-LAN-2133; namely, that deer were killed at some distance from the site; butchered at or near the kill locality; and that only the more transportable portions of the carcass were brought back to the site, where they were heavily rendered for their grease. Such butchering practices, furthermore, reflect a relatively sedentary camp or village population, matched against a

relatively wide-ranging hunting strategy. This last inference may itself reflect a relatively low carrying capacity for the immediate region of the site for, as we have observed elsewhere (W & S Consultants 1994a), the hills to the south of CA-LAN-2133 are notable for their absence of potable water, leading the first mapper of the region to characterize this area in the 1840s as "lomas esterilos" - sterile hills.

Shellfish

A small amount of shellfish was recovered from CA-LAN-2133. This is quantified in Table 11. The total of all shell from the site is only 3.7 grams, representing 11 shell fragments. This shell is heavily weathered and, with only one exception, cannot be identified. The exception is a fragment of a Conus californicus shell. Although this does not appear to have been modified, Conus shells were used for beads rather than food; that is, it is the remains of an ornament, and therefore not reflective of subsistence practices at the site.

Much thought has been given to the interpretation of shellfish remains from California sites and, in certain cases, considerable effort has been expended in reconstructing the dietary implications of the different mixes of shellfish at different sites. There appears to be significant value in such efforts, at least for sites located immediately along the

coastal verge. However, as we have noted previously (W & S Consultants 1992a:60-61), there is some difficulty in inferring that shellfish remains at inland sites solely represent dietary remnants. This results for two reasons. (1) Untreated shellfish are notorious for quick spoilage and the production of bacterial toxins that are often fatal, and inland sites are effectively beyond the time-limits by which shellfish could be safely walked-in for consumption. (2) Moreover, it makes no logical sense that, in putatively carrying-in shellfish for consumption, the meat would be left attached to the shell. A far easier strategy would be to remove the meat from the shell and to just carry-in the edible meat, without the weight of the waste shells.

Because of these factors, we have speculated that shellfish in inland sites may not represent dietary remains, but instead shells brought-in for other purposes entirely, perhaps for the production of lime used in the preparation of pespibata, a native tobacco-based emetic that was widely used in Native California (ibid:61). This is supported by the observation that much of the shellfish at inland sites is burned, which is the primary means by which lime was produced to augment native tobacco in the pespibata admixture.

A corollary of the above speculations would be ethnographic evidence that coastal California natives processed shellfish at

the beach by removing it from the shell, and that they dried the removed meat to prevent spoilage. Thus, that shellfish meat would be transported without the shell. Just such a process is confirmed by Delfina Cuero, who noted that the meat of shellfish was removed from the shell at the beach, it was boiled to clean it, and then spread on the rocks to dry. If salt was available, the meat was also salted so it would "keep better" (Shipek 1991:28, 57). Notably, during Cuero's youth, upon which these recollections were based, she lived some distance inland from the coast, and thus this practice applies to inland dwellers concerned with the transporting their shellfish away from the coast, and preventing its rapid spoilage.

Cuero, of course, was not a Tataviam, Gabrielino or Chumash but a Kumeyaay, and thus some differences potentially may have existed from region to region in the way that shellfish were processed. However, we have no ethnographic data on local shellfish production, and the rapidity with which shellfish turn toxic represents a constraint that is truly cross-cultural in implications. Thus, although our speculations about the use of shellfish in the production of pespibata must remain hypothetical, we feel there is a strong likelihood, nonetheless, that the shellfish we find in inland sites represents something other than direct dietary remains. That is, our most plausible interpretation at this time is that shellfish from inland sites such as CA-LAN-2133 is not a dietary remnant, but instead a

by-product of some other activity.

Regardless of ultimate function, however, one point can be made about the relative importance of shellfish at this site vis-a-vis others in the inland region. We have calculated the grams of shellfish recovered from three sites/site complexes per areal meter square of excavation (W & S Consultants 1991b) for comparison with the sample from CA-LAN-2133. At CA-VEN-294 the resulting figure is 30.2 grams/m^2; at the Ring Brothers Site Complex the comparable figure is 29.3/m^2. At CA-LAN-760 the figure is 0.9/m^2 (W & S Consultants 1992). At CA-LAN-2133, in contrast, this figure is 0.6 gm/m^2. From these comparative figures, two conclusions result. The first is that there was considerable variation in the degree of shellfish use at different inland southern California sites in this region. The second is that the amount of shellfish present at CA-LAN-2133 is more than an order of magnitude less than that at some other, comparable inland sites. Thus, while it is apparent that some inland sites had sufficient access to coastal resources to acquire shellfish in some quantities, others (including CA-LAN-2133) had effectively little or no such access. Certainly, given the low amount of meat per gram of shell, it is clear that shellfish could not served as a significant dietary component for the site's inhabitants, even if our arguments for the potential use of shell in pespibata are discounted.

CA-LAN-2133 - Summary

The artifact assemblage from CA-LAN-2133, in summary, provides a coherent picture of prehistoric activity and occupation at this locale. As regards chronology, three artifact classes contribute to the temporal placement of the site. The pestles recovered during the excavation indicate that the site was occupied sometime after 1500 B.C. The atlatl point observed on the site surface during the Phase I survey suggests a minimum occupation between approximately 1500 B.C. and A.D. 500. Finally, obsidian from the site has been directly dated with six chronometric assays on five specimens yielding ages ranging from 160 BC to AD 1160. When these different lines of evidence are combined they provide a temporal span of occupation corresponding to the later portion of the Intermediate Period, from approximately 200 BC to AD 1200.

As regards site function, it is notable that the site artifact assemblage included a wide range, even if relatively small quantity, of tool types. Groundstone is the most common class of tool, although flaked stone tools are also represented in significant numbers. Though not collected and tabulated as part of the artifact assemblage, per se, it is also worth noting that fire-cracked rock was present in the excavation units. This last fact, combined with the presence of rendered faunal

remains and the high proportion of secondary and especially tertiary flakes, supports an interpretation of this site as a small, probably seasonally-occupied habitation site; that is, most likely a small camp, occupied during specific seasons by a small group, such as a single extended family. Subsistence practices for this group apparently emphasized plant foods, which may have included small seeds (e.g., grasses and chia) and acorns. Notably, agave does not appear to have been part of the inhabitant's diet to any significant degree, based on both the absence of scraper planes in the lithic assemblage, and our earlier failure to find earth ovens during the Phase I survey of the West Ranch study area. Finally, meat protein was provided in significant quantities by both large (e.g., deer) and small (rabbits and rodents) game. Butchering and rendering practices evident in the large game remains suggest a hunting strategy that was wide-ranging, with butchering occurring at the kill sites, and the meatiest portions of the carcass brought back to the camp. In this sense, CA-LAN-2133 may have served as a kind of base-camp for a small group of fairly wide-ranging foragers.

4.3 Artifact Assemblage: CA-LAN-2241 (NLF2)

Aside from the human remains found at CA-LAN-2241 (temporary designation NLF2), discussed in some detail

previously, a very small collection of artifacts was also obtained. All of these were also found within the disturbed surface portion of the site: the road and bulldozer borrow area. These artifacts are summarized in Table 2.

As indicated in this table, all of these artifacts are examples of groundstone. They include a miscellaneous piece of very lightly ground tabular schist (#2241-1), perhaps a schist plaque or thin, unshaped uniface mano; three fragments of a single steatite bowl (#2241-2), apparently made from Sierra Pelona talc schist; a sandstone bowl/mortar fragment (#2241-3); an unshaped sandstone pestle fragment (#2241-4); and a complete, small sandstone basket-hopper mortar with an asphaltum-coated rim (#2241-5).

Two inferences immediately result from this assemblage. First, these artifacts are clear indicators of plant food processing, with a presumed emphasis on acorns using mortars/bowls and basket-hopper mortars with pestles. Moreover, these artifacts all occur in Intermediate Period and later temporal contexts, suggesting an age of 3500 years B.P. or less for the site. Second, and even though disturbed, the assemblage is quite small in quantity and very limited in its range of artifact classes. Thus, although there appears to have been a site at this locale that was destroyed by bulldozing, this apparently was a very small site, probably representing a

limited, specialized activity area.

What is less clear is the context of these artifacts: as noted above, all were found in either the road or road windrow, or in a heavily bulldozed borrow area immediately south of the road. No artifacts were found on any intact portions of the groundsurface of the site, nor during the test excavations there. That is, all of the artifacts from the site were found in heavily disturbed contexts, with original proveniences then effectively lost.

One interpretation of the distribution of these artifacts in their disturbed contexts might be that they are derived from nearby site CA-LAN-2133. We think this is unlikely because we failed to find a continuous distribution of artifacts in the roadway between these two sites, as would be expected if the artifacts from CA-LAN-2241 originated from the grading of the road through CA-LAN-2133 and had been pushed to the east. Instead, their concentration in a relatively restricted area at CA-LAN-2241 suggests to the contrary that there was once a small archaeological deposit at this locale, but that it was essentially and unfortunately destroyed by bulldozing.

This said, it is nonetheless notable that the artifact assemblage from CA-LAN-2241 may be approximately equivalent in age to that from CA-LAN-2133. Such a

circumstance is not unusual inasmuch as groundstone milling stations in the inland southern California region, for example, are often associated with larger nearby habitation sites (Whitley 1979). Thus, it is possible that CA-LAN-2241 served as an ancillary activity area related to the occupation of CA-LAN-2133. Unfortunately, however, given the fact that CA-LAN-2241 had been effectively destroyed before any archaeological investigation of it, we may never adequately establish whether the two sites were utilized at the same time.

4.4 Artifact Assemblage: CA-LAN-2235 (NLF3)

The artifact assemblage from CA-LAN-2235 (temporary designation NLF3) included a total of 403 lithic specimens, one bone tool, and 5.6 gms of faunal remains (Tables 3, 12, 13 and 14). Formal tools are limited to 10 artifacts (~3% of the total): three pieces of groundstone; one core/cobble complex tool; and six flaked stone tools. We discuss this artifact assemblage by major class below.

Core/Cobble Complex Tools

Only a single core/cobble complex tool was recovered during the Phase II test excavations at CA-LAN-2235 (Table 12): a metavolcanic, Type 3 irregular core hammerstone (see Whitley

et al 1979:18). This artifact (catalog #2235-84) was encountered in the 20 - 30 cm level of Unit 8.

As noted previously, core/cobble complex tools, including hammerstones, may have been used in plant pulping and rendering, as well as stone tool flaking and groundstone roughening. Thus, any immediate functional attribution based on the presence of a single hammerstone at CA-LAN-2235 would be fool-hardy. This is not to imply that the core/cobble complex assemblage from the site is of limited inferential value. Instead, following the argument made earlier concerning CA-LAN-2133, we note that the absence of core/cobble complex tools here itself is of significance, further demonstrating a pattern in which the processing of heavy vegetal foods, such as agave, was not undertaken to any significant degree.

Groundstone Artifacts

Groundstone tools are the second most common components of the formal tool assemblage from CA-LAN-2235, with three specimens representing 30% of these tools. All of the groundstone from the site are fragments of manos. These include a Type 4B shaped biface specimen (#2235-20, Unit 8, 30 - 40 cm) made of quartzite; a Type 3C unshaped biface mano (#2235-21, Unit 8, 40 - 50 cm), also of quartzite; and a Type 3B unshaped biface mano variant (#2235-30, Unit 9, 30 - 40

cm) that is metavolcanic (cf. Whitley et al 1979:38, 43).

Two factors stand-out concerning these artifacts, when compared to CA-LAN-2133, discussed previously. The first is that greater specialization is indicated, in that manos but no pestles/mortars are included in the assemblage. Although the sample is sufficiently small to preclude any strong inferences, it can be suggested provisionally that small seed exploitation was the plant food emphasis of the site's inhabitants. The second notable factor in this assemblage is that all of the lithic materials present here are locally available, in the stream bed to the south of the site. This contrasts with CA-LAN-2133, again, where Sierra Pelona schist was present in the groundstone assemblage. Thus, site inhabitants were using exclusively local lithic materials in the manufacture of their groundstone tools.

Flaked Stone Tools

As implied above, flaked stone tools constituted the majority of the formal tool assemblage from CA-LAN-2235, with the six artifacts of this class representing 60% of the worked tools (Table 12). Included in this total are two projectile points, one biface, two uniface edges and one bifacially utilized flake.

The two projectile points include one atlatl point (#2235-82,

Unit 3, 20 - 30 cm level) and one arrow point (#2235-87, Unit 10, 0 - 10 cm; see Figure 13). The atlatl point is a relatively large and thick leaf-shaped specimen made of chert. As an atlatl, it can be confidently assumed to pre-date the introduction of the bow and arrow at A.D. 500; that is, it suggests a range of occupation for the site from 1500 B.C. to A.D. 500 (cf. Yohe 1992).

The arrow point is also made of chert. Although relatively crude, in general terms it resembles a Rose Spring side-notched point, as defined for the Mojave Desert. These points date from A.D. 500 - 1200 in eastern California and are presumed to so-date in the coastal region; that is, they apparently pre-date the start of the Late Prehistoric Period and instead represent the terminal portion of the Intermediate Horizon. The combination of the atlatl and arrow points on the site, thus, suggests a late Intermediate Period age, or roughly A.D. 1 to 1200, in addition to indicating that hunting occurred at the site. Note, however, that both artifacts were recovered from the upper levels of the site deposit. It is thus entirely possible that the initial occupation of the site was somewhat earlier than suggested by these projectile points.

Other flaked stone tools include a biface knife fragment (#2235-88, Unit 10, 70 - 80 cm); two uniface edges (#2235-83, Unit 8, 10 - 20 cm; and #2235-86, Unit 9, 60 - 70 cm); and

a utilized flake showing bifacial edge attrition (#2235-89, surface). With the exception of the utilized flake, all of these are made of chert; the exception is metavolcanic.

With the exception of the projectile points, indicative of hunting, the flaked stone tool assemblage from the site represents a non-specialized and largly expedient group of implements. Thus, although these tools out-number the groundstone from the site, which clearly reflects plant processing, it is difficult (if not impossible) to contend that any other activity may have been of greater importance than plant gathering to the site's inhabitants. Instead, the flaked stone tool assemblage suggests very generalized camp maintenance activities.

Debitage

The waste lithic material from CA-LAN-2235 included a total of 393 specimens (Table 13) which, like all hunter-gatherer archaeological sites, constitutes the vast majority of the recovered remains. As regards types of lithic materials, chert is by far the dominant contributor to this assemblage, representing fully 84% of the total. Metavolcanics are the second most common lithic material, contributing 8%. These two are followed by quartzite (13%); fused shale and obsidian (2% each); with a very small quantity of quartz (<1%).

The dominance of the chert followed by metavolcanics at a distant second is a pattern also evident in the flaked stone tools, as noted above; thus formal tool and debitage lithic material patterns are essentially equivalent, suggesting that the tools might be locally manufactured rather than traded-in as finished implements. Perhaps more interesting in the debitage assemblage is the relative proportions of obsidian and fused shale. As noted in reference to CA-LAN-2133, fused shale is a relatively local although restricted lithic resource, deriving from Grimes Canyon near Fillmore and other areas in the Conejo Volcanics Formation southwest of Moorpark. Obsidian, in great contrast, is from eastern California, with the closest source almost 200 miles away at Coso in Inyo County. Because there is this great disparity in distance from sources, it is then important to note that as much obsidian is present at CA-LAN-2235 as fused shale, even though the obsidian source is ten times further away than the fused shale quarries near Fillmore. This contrasts quite dramatically with CA-LAN-2133, where more normal relative frequencies of these materials were obtained (27% fused shale versus 1% obsidian).

The apparent contrast in relative frequency relative to distance from lithic source in obsidian and fused shale at CA-LAN-2133 appears quite important. Although the data at hand are too small to allow us to provide a final interpretation of this

empirical circumstance, we can offer some preliminary alternative hypotheses to account for this otherwise anomolous situation. First, this circumstance may reflect a situation in which fused shale trade was controlled and access to this raw material by the site's inhabitants was heavily restricted. While such a scenario is entirely speculative at this point, the plausibility of this scenario is enhanced by the fact that, historically at least, the fused shale quarries where located in Chumash and not Tataviam territory. Currently we have no ethnographic information indicating that there was any kind of a trade boundary between the Chumash and the Tataviam; however, we do know that access to resources and trade became highly structured during the Late Prehistoric Period in the Chumash realm. It is not inconceivable that such a circumstance developed towards the end of the Intermediate Period in reference to the fused shale quarries in Grimes Canyon; however, CA-LAN-2235 is not a Late Prehistoric Period site, and may not even date to the latter end of the Intermediate Period (see below). Moreover, it should also be noted in support of this theory that there is no ancillary evidence of trade between the inhabitants of this site and the Chumash, who controlled the coastal region; specifically, and in contrast to CA-LAN-2133, no shellfish or fish bone were found at the site, thus further emphasizing the minimal evidence for east - west trade into Chumash territory.

Alternatively, it might be posited that the time of site occupation occurred during the period of obsidian trade but before a significant fused shale trade had developed. Although this possibility is not inconceivable, we currently have no empirical evidence indicating that fused shale use and trade was necessarily later dating than the Intermediate Period obsidian trading network. Furthermore, should this be true, a corollary of it would be that CA-LAN-2235 and CA-LAN-2133 should represent different chronological periods of occupation, inasmuch as there is clear evidence of significant fused shale trade at CA-LAN-2133. Currently, there is no strong evidence to support this inference, as discussed below.

A third possibility that might explain this lithic material distribution would be a hypothesis based on the unique function of the site, or its specific season of occupance. Both of these possibilities are, at this point, unknowns, although there is nothing in the artifact assemblage suggesting that the site's function or seasonal period of occupation was necessarily dramatically different than CA-LAN-2133, for example. Moreover, our typical understanding of seasonal occupation rounds and the kinds of behaviors associated with different stages in these rounds would suggest that "exotic" trade goods, such as obsidian, would be rarely found at small dispersal camps, such as CA-LAN-2235, or at least would not occur in unusually large quantities, further emphasizing the anomolous

nature of this debitage assemblage.

The absence of any immediate and strong explanation for this lithic waste distribution reflects our general lack of knowledge about upper Santa Clara River drainage prehistory. However, it also suggests that there are aspects of the prehistory of this specific region that differ dramatically from the neighboring Chumash area, which is much better known, and that there may be a series of very interesting research problems that can be addressed in this region.

The above circumstance, thus, requiring further consideration as research proceeds in this region, we can nonetheless turn to other issues derived from the debitage, including specifically the direct chronometric ages that can be obtained from the obsidian found on the site. As at CA-LAN-2133, we have obtained obsidian hydration readings but not yet XRF sources for the obsidian specimens at this time. Making the reasonable assumption that these specimens are most likely derived from the Coso source, and using the average Coso rate of 220 microns per year, the following chronometric ages result:

Catalog #	Microns	Years BP	Years AD/BC
13	9.3	2046	94 BC
27	19.1	4202	2250 BC
41	17.6	3872	1920 BC
71	4.6	1012	AD 940
74	7.3/12.5	1606/2750	AD346/798 BC

These direct chronometric ages are fairly wide-ranging, and suggest a series of possible alternative explanations. First, they may all be valid, thus indicating that the site was used for a considerably long period stretching from 2250 BC to AD 940 - a span of slightly more than 3000 years. This would indicate occupance immediately prior to and then through the Intermediate Period, essentially starting with the Early Millingstone Horizon/Intermediate Period transition. Further, such an lengthy span of occupation would suggest that the actual use of the site at any given time was quite ephemeral, given the general paucity of artifacts at it. Second, it is also possible that some of the earlier hydration readings are derived from natural cortical rather than cultural surfaces and/or that inhabitants of the site "scavenged" pieces of flaked obsidian off earlier sites, and then brought them to CA-LAN-2235, in which case they would be considered "intrusive" dates. Care was certainly taken at the UCLA Obsidian Hydration Lab to insure that only cultural surfaces were examined. Moreover, the very divergent readings, and therefore dates, on specimen #74 (AD 346 and 798 BC) strongly support the fact that at least some older pieces of obsidian were being re-used (and therefore re-flaked) at later dates, in this case almost 1200 years apart. However, it still must be recognized that such "scavenging" of older obsidian could as easily have occurred on the site itself, as from some other locale. Third, it may also be that some of

these samples are from sources other than Coso and thus that the divergent readings reflect the need to apply different calibration rates, rather than high variance in their actual ages.

Resolution of these differing potential interpretations can only be achieved once the XRF sourcing studies are completed. In the meantime, it must be emphasized that these chronometric ages are all essentially consistent with an Intermediate Period age for the site, starting at roughly 1500 BC and extending to AD 1200, and perhaps beginning a half-millenium or more earlier. Thus, CA-LAN-2235 is roughly coeval with the occupation of CA-LAN-2133, albeit CA-LAN-2235 appears to have been first occupied at a slightly earlier date.

Finally, the patterning in the classes of debitage present on CA-LAN-2235 can be considered to help develop a perspective on the function of the site. By debitage type, the assemblage was dominated by tertiary flakes (48%) followed by secondary flakes (32%). Primary flakes and angular shatter are both present but in limited quantities, representing only 7% and 13% of the assemblage, respectively. From these figures we may conclude that primary lithic reduction and tool manufacture were limited activities on the site and that stone flaking, instead, emphasized tool maintenance and perhaps final tool finishing. As noted previously, this is a pattern that typically occurs in habitation rather than specialized activity sites.

Miscellaneous artifacts

A single miscellaneous artifact was recovered from CA-LAN-2235. This is the tip of a bone awl, presumably made from the cannon bone of a deer. This artifact (#2235-81) was recovered from the 40 - 50 cm level of Unit 12. As with bone awls generally, it indicates that basket making probably occurred at the site, as this was the primary function to which these implements were directed.

Faunal remains

As noted previously, a total of only 5.6 gms of faunal remains was recovered from CA-LAN-2235, representing 29 specimens of animal bone (Table 14). In keeping with the caveats and principles of faunal analysis discussed in reference to CA-LAN-2133, these remains were sorted and classified into animal size classes. Notably, no medium size mammal bones, reptile, bird, fish or marine mammal bones were recovered. Instead, the assemblage was dominated by large terrestrial mammal bones both by count (16 specimens, or 55%) and weight (4.1 gms, or 73%). A considerably smaller quantity of small mammal bones was also present (6 pieces, or 21% by count; 0.6 gm, or 11% by weight). The remaining faunal remains (7 for 24% and 0.9 gm for 16%) were too fragmentary even for size classification.

Four points, then, need be made about this bone assemblage. The first is that, like many sites in the region, the bone is too heavily rendered for marrow extraction to allow for any speciation; thus, food preparation procedures are equivalent to those noted at CA-LAN-2133, and other sites in the region. Second, and that said, the assemblage is dominated by large mammal bones to a degree not typically seen in the area; not only are small mammals much less common, but there is no evidence for other occasional components, such as birds, medium sized mammals or reptiles. This circumstance, rightly, may simply reflect the small sample size under consideration. Alternatively, it may represent a real (and not simply statitistical) pattern, thus signalling the fact that large mammal procurement was the primary hunting activity at this site. Note that, even if this were so, it nonetheless does not appear that animal meat protein was a particularly significant part of the site inhabitants' diet.

Third, it can also be noted that, with one exception, the large mammal bone all essentially consists of long-bone shaft fragments. The single exception is a very small cranial fragment; inasmuch as this specimen was recovered in the plow zone of the site, it is possible that it is a recent, introduced rather than prehistoric specimen. The predominance of long bone shaft fragments, then, suggests a butchering strategy that

would have been completed at the kill site, with the meatier portions of the carcass brought in to the camp.

Fourth, it is important to consider the distribution of the animal bone across the site. As is evident in Table 14, all of the bone from CA-LAN-2235 is derived from only three units (#1, 5 and 11). However, one of these units (#5) contained nothing but a small quantity of bone and was located a considerable distance from what is interpreted as the site deposit. We interpret the bone from this unit, accordingly, as non-cultural (or, at least, non-prehistoric). This interpretation is supported by the fact that the bone from this unit included the more anomolous components (such as a large mammal cranial fragment, which is highly unlikely to have been preserved in the deposit for any great length of time, and more probably represents a modern specimen). Once Unit 5 is removed from the probable collection of prehistoric, cultural faunal remains from the site, almost all of the faunal assemblage is derived from a single pit, Unit 11. This fact further supports an interpretation that faunal resources were of limited importance to the inhabitants of the site.

In sum, the faunal assemblage suggests that hunting was of minimal subsistence importance at the site but that, when practiced, it emphasized large game. Further, it appears that the butchering and cooking strategies then employed were

equivalent to those seen at other sites in the region: butchering at or near to the kill sites; transport of only the meatier portions of the carcass into the camp; and then heavy pounding and rendering of the bone for marrow extraction. However, we would provisionally infer that this hunting was of somewhat less importance here than at CA-LAN-2133, for example, as well as other sites in the region.

CA-LAN-2235 - Summary

The artifact assemblage from CA-LAN-2235, albeit small, provides at least initial information on the age and nature of the site. First, in reference to chronology, three temporal indicators were recovered from the site. Two of these are projectile points: an atlatl and an arrow point. The combination of these two artifacts suggests a site age of 1500 B.C. to A.D. 1200, or essentially the Intermediate Period. The presence of obsidian on the site, even in small quantities, provides the third temporal estimator. Direct chronometric assays on five obsidian flakes from the site yielded dates ranging from 2250 BC to AD 940, or essentially from slightly before the beginning of the Intermediate Period, some 3500 years ago, to near the end of this period at AD 1200.

The possibility of an occupation of this site in the earlier portion of the Intermediate Period, and perhaps even

immediately before the Intermediate Period during the Early Millingstone Horizon/Intermediate Period transition, moreover, is generally supported by another observation that can be made on the artifact assemblage; namely, the absence of pestles and mortars in the groundstone assemblage. It is difficult to build chronological arguments solely on groundstone implements, because manos and metates were never entirely replaced by mortars and pestles, and therefore because the use of these different implements was more resource and environment specific than temporally diagnostic. Still, the absence of pestles and mortars may provide weak evidence in favor of a slightly earlier occupation of this site, especially in comparison to the other large sites considered in this study (CA-LAN-2133 and -2233).

The artifact assemblage from the site is small but diverse, containing all major classes of lithic remains, and (beyond the groundstone) no indication of specialized economic or subsistence activities of any kind. Further, although dietary remains in the form of animal bones are present at the site, these only occur in very small quantities. Combined with the presence of fire-cracked rock, indicative of camp fires,which was noted during the excavation, this suggests that some degree of habitance occurred at this site. Given the depth of the deposit, the very small size of the artifact asemblage, and the potentially extensive length of time within which the site

was occupied of roughly 3000 years, we can only conclude that CA-LAN-2235 served as a very sporadically utilized seasonal camp. That is, it is clearly a location that was inhabited by a very small group, probably a single family, but likely not seasonally on a yearly basis. Instead, as we discuss subsequently, it may have been tied to the occupation of CA-LAN-2233, and may have been occupied seasonally during years when nearby CA-LAN-2233 was not inhabited.

4.5 Artifact Assemblage: CA-LAN-2234 (NLF4)

The artifact assemblage from CA-LAN-2234 (temporary designation NLF4) is summarized in Table 4. It includes two formal lithic artifacts, one ornament, one bone tool, 39 pieces of debitage weighing 63.6 gms, and eight fragments of animal bone weighing 2.5 gms.

The formal lithic artifacts from CA-LAN-2234 (Table 15) are limited to a bifacially flaked drill (#2234-28, Unit 3, 20 - 30 cm), made of chert (see Figure 13); and a fragment of an unshaped quartzite pestle (#2234-30, surface artifact #1). The miscellaneous artifacts include a square Haliotis bead (#2234-7, Unit 2, 10 - 20 cm) with a single, round, central perforation; and the tip of a bone awl (#29, Unit 6, 0 - 10 cm). Unfortunately, square abalone beads such as the example found

at CA-LAN-2234 are not temporally diagnostic (cf. King 1981:375-380).

By lithic material, debitage from the site (Table 16) was dominated by chert, which contributed 66% of the total by count. Fused shale was next in importance, contributing 21%. This was followed by metavolcanics (8%), and obsidian and quartzite (1% each). By debitage class, tertiary flakes were by far the most common, contributing 61%. Secondary flakes were next in numerical importance, with 26% of the total, followed by primary flakes (5%) and angular shatter (1%).

Faunal remains from CA-LAN-2234 are summarized in Table 17. They include two pieces of small mammal bone weighing a total of 0.2 gms; one piece of medium mammal bone weighing 0.4 gms; and five pieces of large mammal bone weighing 1.9 gms. The large mammal bone is predominated by shaft fragments of long-bones, including a number of burnt specimens.

As noted previously, the deposit from CA-LAN-2234 apparently represents deposited fill from a nearby site, apparently from the southern section of CA-LAN-2233. Thus, the archaeological materials from the site are out-of-original context and therefore are not immediately interpretable. In general terms, however, they do reflect a range of lithic tool and material types similar to those found on this nearby site, as discussed

below.

4.6 Artifact Assemblage: CA-LAN-2233 (NLF5)

The artifact assemblage recovered from CA-LAN-2233 (temporary designation NLF5) included 12 formal lithic tools, 279 pieces of debitage, five miscellaneous artifacts, and 138.8 gms of animal bone (Tables 5, 18, 19 and 20). Formal tools, which we discuss below, include seven groundstone implements, one core/cobble tool, and four flaked stone tools.

Core/cobble complex tools

Paralleling a situation noted at other sites tested during the project, CA-LAN-2233 had a very limited core/cobble complex tool assemblage, in this case restricted to a single example (Table 18). This artifact (#2233-44) is a Type 2A minimally modified cobble hammerstone (cf. Whitley et al 1979:18) made of quartzite and recovered from the 50 - 60 cm level of Unit 7.

As we have emphasized previously, the presence of a single core/cobble complex tool on the site is functionally ambiguous. Nonetheless, the general absence of this class of artifacts at this site supports our contention that agave (which required pounding, scraping and pulping) did not serve as an important

part of the local prehistoric diet, and that large amounts of lithic reduction were not undertaken at local sites either. Thus, we see a pattern in the artifact assemblage from CA-LAN-2233 that was also noted at CA-LAN-2133 and -2235, at least, but that differs somewhat from sites in the nearby Conejo and Simi Corridors, for example. In this sense the negative evidence from CA-LAN-2233 helps establish a regional pattern in tool assemblages, and presumably therefore local adaptive patterns.

Groundstone implements

Groundstone contributes the majority of the formal tool assemblage (7 or 58%) from CA-LAN-2233. As at nearby CA-LAN-2235, the groundstone from the site is entirely hand grinding tools, but in this case it includes both manos and pestles (Table 18).

Manos are the primary components of the groundstone and, in fact, formal tool assemblage as a whole, with six recovered from the site. Two of these are Type 3A unshaped biface manos (see Whitley et al 1979:38; #2233-79, Unit 8, 40 - 50 cm level; and #2233-113, Unit 9, 30 - 40 cm). These are quartzite and metavolcanic, respectively. Two manos consist of Type 4B shaped biface specimens (ibid:43; #2233-115, Unit 9, 40 - 50 cm; and #2233-135, Unit 11, 80 - 90 cm), both of which are

quartzite. One example is a Type 7 quadriface mano (ibid:46; #2233-97, Unit 8, 130-140 cm) made of quartzite. The final contributor to the mano assemblage is an untypable fragment (#2233-144, Unit 11, 110 - 120 cm), also made of quartzite.

As at nearby CA-LAN-2235, the groundstone assemblage, thus, is entirely dominated by locally available lithic materials. The presence of a pestle fragment at the site, however, provides chronological evidence that CA-LAN-2233 was occupied sometime after 3500 years B.P., or from the Intermediate Period onwards. Although the numbers are too small to warrant strong inferences, this may also suggest more varied plant subsistence practices at CA-LAN-2233 when compared to CA-LAN-2235.

Flaked stone tools

The flaked stone tools from the site constituted 33% of the formal tool assemblage, representing four artifacts. All of these are bifacially flaked specimens, and all are made of locally available chert (Table18).

Perhaps the most notable member of this class is a bifurcate-stemmed atlatl point (#2233-164) recovered from the 130 - 140 cm level of Unit 8 (Figure 13). By any measure this is a crude projectile point made from a side-struck flake with

minimal morphological modification. In fact, flaking has essentially been limited to edge regularization and sharpening, with no overall thinning such that the catenary pressure ripples from original removal of the flake are still evident.

Bifurcate-stemmed atlatl points are common in far western North America, even if slightly ambiguous in terms of chronological placement. In the desert the correspond to the Gypsum, Pinto or Gatecliff series types, depending upon region and author. Typically, these are believed to be between roughly 4000 and 2000 years in age in the Great Basin (cf. Holmer 1986). In the southern Sierra Nevada, in slight contrast, they occur during the Chowchilla Phase, or from approximately 2000 to 1700 years B.P. (Moratto 1984). In southern California, per se, they in fact are not typically present, but are probably typologically closest to Elko series points dating to what corresponds to the Intermediate Period locally (cf. Glenn 1991).

Although it is not yet clear that southern California coastal point types have fully equivalent chronological spans, the temporal patterns suggested by the temporal placement of these points in the remainder of the far west provide us with some sense of the probable age of bifurcate-stemmed points in this region. Thus, it seems likely that the specimen from CA-LAN-2233 is roughly 2000 years in age.

The remaining flaked stone tools from the site include two fragmentary biface knives (#2233-160, Unit 1, 20 - 30 cm; and #2233-162, Unit 8, 20 - 30 cm), and a bifacially flaked drill (#2233-161, Unit 7, 160 - 170 cm). While the drill was clearly used for drilling and gouging activities, the biface knife fragments could have been used for almost any purpose. Thus, although the flaked stone tool assemblage from the site is more restricted than that found at the other sites in the region, it nonetheless does not reflect any obvious level of specialization, whether economic, subsistence or otherwise.

Debitage

Lithic debitage recovered from CA-LAN-2233 is summarized in Table 19. It totalled 279 pieces. By material, and following the pattern seen at other sites during this project, locally available chert is by far the dominant lithic material, constituting fully 85% of the debitage. In order of quantitative importance, this is followed by metavolcanics (10%), fused shale (3%), quartzite (1%) and obsidian (1%).

The relative contributions of fused shale and obsidian from CA-LAN-2233, 3% and 1% respectively, closely parallel these same proportions at nearby CA-LAN-2235, which are 2% each; these figures are, statistically speaking, fully equivalent. Thus, the pattern first observed in raw lithic material at this nearby site

is verified by this additional, albeit slightly smaller, debitage assemblage from CA-LAN-2233. We have reviewed above the possible explanations that may account for the apparent fact that we have found equivalent quantities of raw materials from sources that are, respectively, about 20 and almost 200 miles distant from these sites. Note also that at CA-LAN-2233, as at CA-LAN-2235 (but not at CA-LAN-2133), no shellfish was recovered, further emphasizing the limited amount of trade between the inhabitants of this site and groups to the west. That this pattern is repeated at CA-LAN-2233 simply further speaks of the need for additional regional data from which to test these alternative competing hypotheses.

Obsidian from the site is, of course, valuable for chronometric analyses and therefore the temporal placement of the deposit. Five obsidian samples were dated at the UCLA Obsidian Hydration Lab. Bearing in mind the caveats mentioned earlier in reference to similar samples from CA-LAN-2133 and -2235, the following results were obtained:

Catalog #	Microns	Years BP	Years AD/BC
8	5.2	1144	AD 808
25	7.4	1628	AD 324
62	7.8	1716	AD 236
86	7.3/11.0	1606/2420	AD 346/468 BC
163	6.0	1320	AD 632

As noted in reference to the sample with two widely divergent readings from CA-LAN-2235, the differing dates for specimen

#86 from CA-LAN-2233 are also problematic. They may represent the inadvertent reading of a natural and not cultural surface, or they may reflect scavenging of obsidian from earlier sites. Excluding this single, slightly anomolous chronometric age, the obsidian samples from CA-LAN-2233 otherwise display a very tight temporal cluster, ranging from only AD 236 to AD 808, or in the terminal portion of the Intermediate Period. But even if the divergent reading from specimen #86 is included, all of these direct chronometric dates fall within the latter half of the Intermediate Period.

Turning to debitage classes, the waste lithic materials from CA-LAN-2233 are, once again, dominated by tertiary (43%) and secondary (37%) flakes. Primary flakes are relatively rare (<4%), with angular shatter somewhat more common (17%). As at CA-LAN-2133 and 2233, where similar patterns were observed, this suggests that tool maintenance and perhaps final tool finishing were conducted at the site, and that little in the way of primary lithic reduction or tool manufacture occurred at this locale.

Miscellaneous artifacts

Two classes of miscellaneous artifacts were recovered from CA-LAN-2233 (Table 18). The first is an incised schist plaque fragment (#2233-131), recovered from Unit 11 in the 50 - 60

cm level. This artifact appears to be a portion of a shaped, circular or semi-circular (perhaps lunate) piece, ground on both sides along both faces and the external edge to a smooth finish. On one side it also exhibits a lightly scratched geometric design (see Figure 14). The extant portions of this appear to consist of two slightly overlapping "pine tree"-like motifs. It appears that this plaque has been rubbed with red ochre on its incised side.

Such small incised plaques are unusual although not necessarily rare objects in the archaeological record, being particularly common in the desert region to the east. Some have been found locally, however, including at Medea Creek in western Ventura County (L. King 1981). A number of authors have noted the design similarities between these pieces of mobiliary art and scratched style petroglyphs (Ritter 1994). Such scratched petroglyphs are found in Tataviam territory at Vasquez Rocks, to the east (L. King 1981), but their function and relationship to the mobiliary art is still unknown.

The four remaining miscellaneous artifacts from CA-LAN-2233 are all portions of bone tools. Two of these are awl fragments (#2233-168 and #2233-169, both from Unit 7, 50 - 60 cm); again, presumably made from deer cannon bones and used in basketry manufacture. The remaining two specimens are small, polished pieces of bone that are too fragmentary to be

classified (#2233-170, Unit 8, 160 - 170 cm; and #2233-171, Unit 11, 130 - 140 cm), but also may ultimately derived from bone awls or needles.

Faunal remains

The faunal assemblage from CA-LAN-2233 consists of 641 pieces of animal bone weighing 138.8 grams, and is summarized in Table 20. As is frequently the case, large mammal bone is the largest contributor by weight (50%), but small mammal bone holds the position of prominence by count (64%). More specifically, the tabulations are as follows: large mammal class - 17% by count and 50% by weight; medium mammal - 5% and 6% respectively; small mammal - 64% and 31% respectively; and unidentifiable fragments - 15% and 12% respectively. Reptiles are also represented in this assemblage, in this case based on the presence of a single turtle scute, presumably derived from Clemmys marmorata, the Pacific Pond Turtle, which was used for both food and to make shell rattles. Birds, fish and marine mammals, however, are not represented in the bone assemblage.

Although differing somewhat from the faunal assemblage at CA-LAN-2235, where large mammal bones dominated in terms of both weight and count, the animal bones from CA-LAN-2233 resemble the collection from CA-LAN-2133 in terms of

proportions. In both cases, large mammals are quantitatively dominant by weight but small mammals by count, a fact which may simply reflect the high probability for the introduction of small mammal carcasses in archaeological site deposits after their formation. Difficulties in taphonomic interpretation notwithstanding, therefore, we can reasonably infer that large mammal exploitation (probably of mule deer) was the primary hunting activity of the inhabitants of CA-LAN-2233. Furthermore, the large mammal remains from the site are predominated by long bone shaft fragments, a situation that probably reflects butchering practices in which carcasses were dismembered near the kill site, and only the meatier portions of the animals brought back to the camp.

CA-LAN-2233 - Summary

Three temporal indicators were recovered from CA-LAN-2233: an atlatl point which can be inferred to date at roughly 2000 years B.P.; a pestle, which post-dates 3500 years B.P.; and a small but significant quantity of obsidian flakes. These have been directly dated, with ages ranging from AD 236 to AD 808. Based on these data, the site can be interpreted as Intermediate Period in age, maximally dating from 1500 B.C. to A.D. 1200, and conservatively placed between about A.D. 1 and 800. Note that this is essentially the same time range inferred for sites CA-LAN-2133 and -2235, a point to which we return in our

conclusions.

As regards function, CA-LAN-2233 also appears similar to CA-LAN-2133 and -2235. It has a small but diverse lithic tools assemblage with a significant quantity of groundstone and a limited amount of faunal remains. It has a debitage assemblage dominated by the kinds of flakes that result from activities typically conducted at habitation sites such as camps or villages. Yet there is essentially no evidence for economic or subsistence specialization at the site, while the presence of a burial on the site further supports the interpretation that it is a habitation and not special activity locale.

Thus, the evidence at hand suggests that CA-LAN-2233 most likely served as a small, seasonally occupied camp, probably used over a millenium or more by a small group, perhaps a single family. Based on its proximity to and chronological overlap with CA-LAN-2235, furthermore, we can infer that these two sites represent portions of a single site complex; granted, CA-LAN-2235 may in part be slightly earlier dating than CA-LAN-2233, but there are nonetheless clear indications for at least some coterminous occupation. Based on patterns observed elsewhere in the inland southern California region (see Whitley 1979), these two discrete but adjacent archaeological sites probably represent a manifestation of horizontal, rather than vertical, stratigraphy. That is, they

most likely represent portions of the same functional settlement unit, with each of them occupied successively, as fire or pest infestation would occasionally cause the camp's occupants to shift the exact locations of their brush huts from one site to the next.

4.7 Artifact Assemblage: CA-LAN-2236 (NLF6)

Fitting its interpretation as a small surface lithic scatter, the artifact assemblage from CA-LAN-2236 (temporary designation NLF6) consisted of a small number of pieces of lithic debitage (Table 6). These consisted of six specimens total, all recovered from the surface of the site with the exception of two pieces found in the first few centimeters of Unit 1.

By material, metavolcanics were the most common class, constituting half of the total. Quartzite, chert and fused shale were each represented by a single specimen. Secondary flakes were the most common by debitage type, again with half of the total. Two tertiary flakes were also recovered, along with a single primary flake.

The artifact collection from CA-LAN-2236, thus, clearly represents a small lithic scatter resulting from an unknown activity, such as plant collecting or hunting. Nothing in this

assemblage is temporally or functionally diagnostic, but it is likely that the debitage found at this locale nonetheless results as a bi-product of some other specific activity. Given the location of this site on a mesa edge overlooking the river, hunting would seem an obvious possibility, but this same mesa may equally well have provided a valuable plant gathering area. Moreover, the diversity in lithic material types suggests that even the flaking activity at this site was diverse and non-specialized.

What is inferentially most useful about this assemblage, then, is the simple fact that it indicates that some prehistoric use of these upland areas occurred. In this case this use was clearly ephemeral and light, but this still is suggestive of wide-ranging foraging activities.

4.8 Artifact Assemblage: CA-LAN-2242 (NLF8)

The artifact assemblage recovered from CA-LAN-2242 (temporary designation NLF8) is summarized in Table 7. It is an unusual assemblage in that the site itself appears to have served as a cache locality, and because the cave was very heavily looted at some time in the past. Thus, as discussed previously, the extant artifacts were recovered from a small intact area under the drip-line of the cave, with the majority of

the interior of the cave apparently excavated-out and swept clean by looters. It is entirely possible that the area within which the artifacts were found during our test excavation represents the back-dirt pile left by the looters, with the artifacts simply their overlooked items. But by whatever agency, the result is an assemblage that is at once very mixed, and that hints at what once may have been present in this small cave.

As is evident in Table 7, worked artifacts from the site include one complete bone awl (#2242-8), one steatite shaft straightener (#2242-20), one steatite bowl fragment (#2242-16), three shell beads (#2242-3), and a possible shell pendant (#2242-10). Sixteen fragments of asphaltum, weighing a total of 40.4 gms, were also recovered. Twelve of these display impressions of basketry, indicating that they were once pressed on tarred baskets. Finally, 34 pieces of animal bone, weighing a total of 72.7 gms, were collected, along with two shell fragments weighing 6.8 gms.

The bone awl is a large, complete example made from a deer cannon bone. Because the preservation is excellent in the dry cave and/or due to the relative youthfullness of this specimen, it appears essentially new and little used or weathered. One other faunal specimen from the cave (#2242-23) consists of a deer cannon bone articulated end. Although this example is too

fragmentary to determine whether it was worked into an awl, there is a reasonable likelihood that such may have been the case.

The shaft straightener, made of steatite, is a relatively small (4.9 cm maximum length) elliptical implement with a single, deep groove across it. This groove measures 3.7 cm in length, 1.29 cm in width, and approximately 0.75 cm in depth. Although it is impossible to be certain without a petrographic thin-section, it appears that it is made of Sierra Pelona talc schist, from the steatite source area located in Tataviam territory near Agua Dulce. The steatite bowl fragment might be considered a bowl sherd, in the sense of being a relatively small sidewall fragment. It derives from a relatively thin-walled vessel (~1.48 cm in wall thickness) that was smoothed on both the interior and exterior surfaces. This specimen is clearly made from Sierra Pelona and not Catalina Island steatite, judging from a small, fresh break on its side.

All three shell beads are made from Olivella biplicata shells. Two are wall disks, the third is a cup. As such, they are not temporally diagnostic in any exact sense (cf. C King 1981:360). One of the disks, however, shows clear evidence of having had its central perforation drilled with a metal needle, demonstrating that it is historical in age and most likely dating after the beginning of Spanish colonization (ibid:295-296); i.e.,

post - A.D. 1769. Thus, the beads support the interpretation of CA-LAN-2242 as historical, perhaps even nineteenth century, in age.

The single shell pendant from the site is a large, flat, triangular-shaped piece of Haliotis rufescens shell (see Figure 14). It lacks any perforation, but the extreme end of the apex (where a perforation would be expected) is worn away, indicating that the presence/absence of a perforation is ambiguous. The two cut edges of the shell piece, however, are ground smooth, and the dorsal surface has been ground and polished to remove the epidermis of the shell. It seems most likely that this specimen served as a pendant hung from a perforation at its apex; however, we cannot discount the possibility that it originally constituted some other form of ornament, given the current absence of any perforation.

As noted above, 40.4 gms of asphaltum were found in the cave, with the majority of these displaying evidence of basketry impressions. Such would result from tarred baskets, which were used as water bottles or jugs, globular storage baskets, or as part of basket-hopper mortars. Furthermore, the discovery of tarred basketry fragments in caves in inland southern California is quite common (W & S Consultants 1989a). Thus, the presence of these fragments in the cave suggests that baskets were once kept at this locale; whether they were looted

from the cave or removed aboriginally, however, may never be known.

Only one of the basketry impressions is sufficiently large and detailed to provide any indication of the kind of basket it once covered. This specimen (#2242-11) itself only measures 2.01 by 1.45 by 0.26 cm, demonstrating, among other things, that the asphaltum coating was quite thin. It was placed on what appears to be a simple close twined basket, using the technological terminology of Adovasio (1977). Wefts are 0.25 cm wide and 0.65 cm high; there are thus approximately three wefts per centimeter, and slightly less than two warps per centimeter. Given the impossibility of orienting this small specimen, it is not possible to determine whether it was **s** or **z** slant twined.

In addition to the prehistoric or aboriginal remains from CA-LAN-2242, a small quantity of modern Euro-American artifacts were also recovered, and are listed in Table 7. These include two match sticks, some plastic sheeting fragments, and a corroded metal strap of some kind, perhaps from a bucket. The inferential importance of these artifacts pertains to the evidence they provide for disturbance of the deposit. As is evident in Table 7, they indicate that modern materials were introduced essentially to bedrock; that is, that the deposit had been turned-over, further supporting our interpretation of it as

The final class of archaeological remains from the cave is faunal specimens. A total of 34 pieces of animal bone, weighing 72.7 gms, and two pieces of shell weighing 6.8 gms, were recovered from the cave (Table 21). As regards the animal bone, and as noted previously, one of these specimens (#2242-23) is the articulated end of a deer cannon bone that may be a fragment of a bone awl. When this is subtracted from the collection, 33 pieces of bone were found weighing 55.8 gms. All of this, with two exceptions, consists of large mammal bone. The exceptions are, first, 11 pieces of small mammal bone weighing 0.4 gms and, second, a single piece of turtle shell, (Clemmys marmorata) weighing 0.6 gms.

Faunal remains from cave deposits are particularly difficult to interpret, inasmuch as the taphonomic problems are greatly compounded by the fact that such settings may be used by coyotes and other predators, who would also introduce bone into the deposit. This circumstance relative to CA-LAN-2242 is particularly acute in that there is no clear evidence that the site served as a habitation or camp; indeed, its small size and low-ceiling essentially precludes such having occurred. Thus, although we think it likely that some of the animal bone (including the turtle remains) may have been brought into the cave by human agency, there is no feasible way to argue

whether or not the bulk of the faunal collection is natural or cultural.

Two pieces of unmodified shellfish were, however, recovered during the excavation. These consist of single fragments of pectin and Conus californicus. In the latter case, this is a shell species used for ornamental, not dietary, purposes, thus fitting with the interpretation of the site as a cache rather than habitation area.

In summary, CA-LAN-2242 appears to have been a small cache cave, used to store baskets (perhaps water bottles), and various tools (such as shaft straighteners and bone awls) and ornaments (including shell beads). At least one of these last artifacts indicates that the cave was used into the historical period, perhaps during the early nineteenth century. Unlike the famous nearby Bowers' Cave, however, we found no evidence to suggest that ceremonial or sacred objects, such as ritual wands and feather sashes and capes, were stored at this locale. However, the cave appears to have been looted sometime in the past, so a complete understanding of its original contents may never be obtained.

4.9 Interpretive Concerns

The excavation of eight sites within the West Ranch study area revealed the presence of three small camps or habitation sites (CA-LAN-2133, -2233 and -2235); one very small lithic scatter (CA-LAN-2236); and one historical cache cave that had been heavily looted some time in the past (CA-LAN-2242). The three remaining sites investigated proved in one case to represent a small site seemingly destroyed in its entirety by inadvertent bulldozer activities and natural erosion (CA-LAN-2241), in the second a secondary deposit of fill derived from a nearby site and thus containing a small quantity of out of context artifacts (CA-LAN-2234), and in the third a cave that was found to have no extant evidence of aboriginal use (CA-LAN-2240). Thus, in terms of substantive archaeological concerns, our emphasis necessarily is on the three habitation or camp sites.

The data obtained from the Phase II test excavations at the prehistoric sites within the West Ranch study area can then be summarized in terms of a few key issues. The first concerns site distributions, and therefore settlement patterns on the Santa Clara River drainage. As now seems apparent, prehistoric sites are exclusively concentrated immediately along this river course, with no evidence for upland or off-river occupation in this immediate region in the Castaic Junction area. While we presume that natural resources were exploited away from the

river, it is very clear that that inhabitation was tethered to the river course, most likely due to the presumed absence of potable water sources away from this riparian zone. Alternatively, it is possible that subsistence heavily emphasized riparian resources that we have not yet recognized archaeologically, but in either case the riverine environment was a primary inhabitation region, at least during parts of the seasonal round.

Note, further, that the qualitative and quantitative nature of the artifact assemblages from the three habitation sites suggests seasonal and essentially non-intensive site use. There is no evidence to support either an interpretation that these sites were year-around villages, or that they were even seasonally inhabited by large groups of peoples. Instead, they appear to represent small dispersal phase camps, perhaps occupied by single or extended families during part of a seasonal movement pattern. This raises a subsidiary question concerning the nature of this putative seasonal round and, in particular, where else on the landscape the inhabitants of these sites may have travelled during their yearly cycle of transhumance. The current project certainly cannot provide a final resolution to this regional question. However, based on the absence of sites in the upland areas of the Santa Susana Mountains south of the river (W & S Consultants 1994a), it seems most likely that seasonal movements involved either

shifts to higher elevations in the Los Padres to the north, or movements along the Santa Clara River towards the east. We discount the possibility that seasonal movements may have been directed towards the coast, based on the dramatic negative evidence on these three sites indicating little or no interaction with coastal peoples and/or access to coastal resources.

Our prehistoric evidence from these sites, thus, matches what is known about the historical distribution of villages in this region (cf. Kroeber 1925), which places all villages on the banks of the Santa Clara River. However, this raises the second, and perhaps primary, issue, chronology, and its corollary concern, the relationship between the sites in the study area, per se. When the sites considered in this study are placed chronologically, a very clear pattern emerges. The three largest sites, CA-LAN-2133, -2233 and -2235 are all temporally equivalent, dating to the Intermediate Horizon (albeit it is possible that CA-LAN-2235 may include a slightly earlier occupation than the other two sites). That is, we have obtained relative temporal diagnostics as well as direct chronometric ages for these sites that place them between 3500 and 800 years B.P. No evidence was obtained to support significantly earlier or later occupations in the region.

The regional implications of the discovery of three habitation

deposits within an approximately 12,000 acres study area, but located in very close proximity and dating to the same time period with no evidence of earlier or later occupation, are quite great. This evidence suggests a dramatic punctuation in the prehistoric occupation of this region, involving a population that first becomes archaeologically visible during the Intermediate Period and, at its end, all but disappears from the area. We argue that this circumstance in the Santa Clara River drainage represents a local variant of a major adaptive radiation and population expansion which we have recently identified, and that apparently occurred after approximately 4000 years B.P. throughout far western North America.

In the last few years, we have undertaken a re-analysis of the artifact assemblages, chronometric and relative ages, and soils stratigraphies of all excavated sites in Ventura, Los Angeles, Riverside, and portions of Kern and Inyo Counties (Whitley 1994; Whitley and Beaudry 1991; Whitley et al 1988; Whitley et al, n.d.; Whitley and Simon n.d.; cf., W & S Consultants 1989a, 1989b, 1991a, 1991b; 1994b; etc.). In addition, we have completed major surveys as well as test and salvage excavations on a number of sites, for numerous different projects, in a general transect that runs from the Ventura/Los Angeles coast through the middle elevations of the Los Padres and San Gabriel Mountains, including the upper Santa Clara Valley, Agua Dulce/Acton region; through the Antelope Valley;

across the southern Sierra Nevada; and into the western Great Basin. Combined with the data from a series of published studies (e.g., McGuire and Garfinkel 1980; Horne 1981; Meighan 1981; Sutton 1988; Whitley 1994), this re-analysis has resulted in one important conclusion: essentially all previous temporal assignments of inland and interior sites to the Early Millingstone Period (or Early Horizon), beyond surface finds of projectile points in the desert regions, are dubious in the extreme. That is, we have found that the "evidence" for Early Millingstone occupation of the inland and interior regions is either based on the presence of non-diagnostic, functional distinctions in artifact assemblages which, more rightly, pertain to site adaptive function rather than age (cf. Glassow 1965:68), or to a very small number of highly suspect chronometric assays. Moreover, we have also found a soils stratigraphic "basement" level for cultural deposits in the inland Ventura/western Los Angeles County region that, based on our own chronometric ages, dates to no more than 3500 to 4000 years in age.

That is, we have found that although Early Millingstone Period sites are relatively common along the coast, there is little if any evidence for the occupation of the inland and interior regions during this early time period. While the millingstone adaptation to seeds and plants, and toolkits dominated by plant processing tools, are present (if not common) in the inland and

interior zones, they appear to date to a later time period, with true Early Millingstone Period occupation apparently restricted to the coastal strip, proper (Whitley and Beaudry 1991). It is currently unclear whether this pattern is fully a function of real differences in inland and interior versus coastal settlement distributions, or whether it reflects site preservation problems in the inland region, but the widespread nature of the pattern tends to preclude causality due to site formation processes alone.

An appropriate example of the confusion of millingstone functional and adaptational patterns for Early Millingstone Period chronological diagnostics at inland sites, and the resulting muddle in the cultural-historical sequence, is provided by the so-called "Topanga Culture", as exemplified by excavations at CA-LAN-1, the "Tank Site" (cf. Heizer and Lemert 1947; Treganza and Malamud 1950; Treganza and Bierman 1958). This is widely regarded as "Early Millingstone" chronologically, and its base ("Phase I") was initially assigned 10,000 years of age, due to the large numbers of millingstones, "crude" choppers and "cog stones" (see Treganza and Bierman 1958:75, Table 1). More recently, it has been assigned a revised age of more than 5000 years B.P. (Moratto 19845:127). But, as Johnson (1966) has rightly pointed out, Phase III of the Topanga Culture, as demonstrated by his excavations at CA-LAN-2, is only 2500 years old; that is, it is Intermediate and not Early Millingstone

in age. It then must follow that the preceding Phase II can only be considered 3500 to 2500 years old, due to the presence of (Intermediate Period) mortars and pestles in the Phase II assemblage. That is, Phase II of the Topanga Culture also can only be Intermediate period in age. Since Phase I lies immediately and comformally below Phase II stratigraphically, it likewise must follow that it immediately pre-dates the Intermediate Period Topanga Phase II remains. At best, then, Phase I of the Topanga Culture is terminal Early Millingstone or transitional Early Millingstone/Intermediate, but not necessarily of any great antiquity. This intepretation is confirmed when it is recognized that one of the key classes of temporal diagnostics said to support the very early age assignment for Phase I, the cogged stones, were all recovered from the Phase II deposit, even though Treganza and Bierman (1958) incorrectly assigned them to the Phase I assemblage (Eberhart 1961:366-7). That is, cogged stones are part of an assemblage that includes Intermediate Period mortars and pestles. Thus, there is currently no evidence to suggest any great antiquity for Phase I of the Topanga culture; instead it appears to be simply ~4000, rather than 10,000 or even 5000+ years in age. And, once it is acknowledged that a "classic" Early Millingstone temporal diagnostic, the cogged stone, is in fact only Intermediate Period in age, then a whole series of putatively 6000 to 8000 year old inland sites - the basement level for most inland regions - immediately become

Intermediate Period in age.

In the general inland southern California region, chronometric arguments for an Early Millingstone inland occupation then reduce to a single early radiocarbon age from CA-VEN-294 (Rosen 1978) which, for reasons discussed at length elsewhere (Whitley 1979) is stratigraphically and typologically unlikely. Elsewhere in interior south-central California and the western Great Basin, the plausible case for a pre--4000 years B.P. occupation of any consequence is also close to non-existant.

Our point here is not to suggest that no inhabitation or exploitation of inland/interior southern California and the western Great Basin occurred before 3500 - 4000 years ago. We are sure that such did occur, especially in light of the occassional discovery of Paleoindian/Late Pleistocene and Early Holocene remains from this region. Instead, it is simply to emphasize two points. First, there is little or no evidence of such occupation, away from the immediate coastal verge, prior to ~4000 years ago. That is, the inland and interior regions appear to have been more or less depopulated prior to roughly 4000-3500 years ago. In the desert regions we certainly know that substantial population existed during the Early Holocene/Western Pluvial Lakes Tradition Period. Thus, the depopulation appears to represent the middle Holocene, essentially the Altithermal climatic period, while the

population increase correlates with the so-called neo-glacial. Second, it is apparent that after ~4000 B.P. there was a very dramatic increase in site numbers, site functional types, and environmental zones exploited, in addition to the diversity represented by artifact assemblages. For example, we have noted that the initial occupations of many middle elevation zones in the Los Padres and San Gabriel Mountains, near to the southern California coastal zone, as well as in the southern Sierra Nevada, first occurred at approximately 4000 - 3500 years ago. And, as has been noted for a number of years in the coastal Santa Barbara region, per se, the Intermediate Period is signalled by an addition of new subsistance strategies and artifact types in the archaeological record.

Thus, we would like to suggest that CA-LAN-2133, -2233 and -2235, all dispersal phase camps located in inland southern California, reflect far western North American-wide demographic and cultural processes that occurred during what is referred to, locally, as the Intermediate Period or Middle Horizon, and represents the improving post-Altithermal climatic period. These processes included a major demographic explosion, which resulted in the inhabitation of previously depopulated or under-populated inland and interior regions; a concomitant diversification of adaptive strategies and exploitation of a wide range of terrestrial resources, and the demographic radiation into new kinds of environments.

The flip-side of this argument is a circumstance that has only recently become apparent; namely, the widespread abandonment of inland sites at the start of the Late Prehistoric Period (W & S Consultants 1994b). Although the details of this seeming reduction in population and settlement have yet to be fully explored, there again appears to be a process that extended from the western Great Basin (Whitley 1994) and, in fact, throughout the greater Southwest, across the Mojave Desert and Antelope Valley (Sutton 1988) and, as is evident at sites CA-LAN-2133, -2233 and -2235, into the Santa Clara River drainage, at a minimum. Furthermore, some perturbations of this same process are evident near the coast in the Santa Barbara Channel area (ibid). In this case, environmental change again may be a driving force behind these abandonment, as a long-term circa AD 1200 drought has been identified as a major disruptive factor across the far western United States.

Again, we do not mean to imply that no aboriginal population lived in the Santa Clara River drainage after AD 1200; historical records, among others, demonstrate that there certainly was a resident population in this region. Instead, our current interpretation is that the Intermediate Period maintained a higher population and therefore denser settlement pattern than the subsequent Late Prehistoric, most likely reflecting changes in the relative carrying capacity of the

natural environment over time.

Thus, CA-LAN-2133, -2233 and -2235 appear to reflect prehistoric inhabitation of the Santa Clara River system during an environmentally-optimal period in the past, with the appearance of these sites thus correlating with the end of the hot and dry Altithermal climatic period and the beginning of the cooler and wetter neo-glacial. In contrast, their abandonment occurred at a time of drought and therefore reduced available natural resources.

This apparent demographic pattern leads to a corollary concern, which is the nature of the relationship between these three specific habitation sites. We have implied aspects of their inferred relationships above, but these warrant explicit consideration here. First, it is quite clear that although CA-LAN-2233 and -2235 sit upon different landforms, and therefore fully qualify as distinct sites, for all intents and purposes they represent the same geographical location: the west bank of the Martinez Chico arroyo at its confluence with the Santa Clara River. This fact, combined with their essentially coeval occupation spans, as well as the very similar constituents of their respective artifact assemblages, leads to one conclusion: although definable in a clerical sense as distinct sites, CA-LAN-2233 and -2235 clearly represent a single behavioral pattern. That is, they are manifestations of

the same functional settlement unit.

In order to accomodate circumstances such as this, where distinctive sites in fact appear to reflect aspects of the same functional settlement unit, we have developed the term "site complex": a clustering of sites and deposits that, in the large sense, were probably occupied by the same group of people following the same adaptive strategies (Whitley 1979; Whitley and Beaudry 1991). Site complexes are particularly common in inland Ventura and western Los Angeles Counties, where they reflect the fact that archaeological sites develop horizontal, as well as vertical, accretions over time. Such minor changes in the focus of habitation sites - e.g., from one knolltop to an immediately adjacent knolltop - occurred most likely due to minor circumstances, such as the burning of a camp, or its infestation by pests. Indeed, Spanish accounts attest to the fact that villages had an average lifespan of about seven years, at which point they would be burned and shifted slightly to a nearby location. Availability of water, of course, prevented the village locations from changing to any consequential degree.

Thus, it is clear that CA-LAN-2233 and -2235 are portions of the same functional settlement unit. Less clear is the relationship of these two archaeological deposits to CA-LAN-2133, across the river and slightly downstream from their locations. The following appear to be the pertinent factors

intents and purposes, located within the same environmental zone as the two north bank sites. We thus can dismiss the possibility that CA-LAN-2133 represents part of the seasonal round of the inhabitants of the other two sites. If such were the case, at least one of the sites would necessarily be located in a different kind of environment, so as to facilitate access to seasonally variable resources in different environments. Thus, the north bank and south bank sites appear to be equivalent in terms of probable position in seasonal subsistence patterns. Although there are some seemingly minor differences in stone tool assemblages and faunal remains between the north bank and south bank sites, furthermore, in general there is a quite close correspondance in artifact assemblages and faunal remains. Certainly, given the evidence currently available, there is no strong case in the artifact assemblages for differing functional or subsistence specializations between these sites, thus supporting the above inference.

Second, if we compare the size of the two subsurface deposits from the north bank sites with that on the south, they can be stated as grossly equivalent in size, especially considering that variations in depth should contribute to different areal dimensions, even with fully equivalent population numbers and lengths of occupation: CA-LAN-2133 covers approximately 11,550 m^2; the combined size of CA-LAN-2233 and -2235 is 12,800 m^2. That is, at a gross level the contrast between the

two north bank sites and the single south bank habitation suggests roughly equivalent population sizes, here assuming (as is widely accepted) that there is some constant between population size, site area, and amount of artifactual debris generated.

Third, however, there is one seemingly distinctive difference when the north bank sites as a unit are compared to the south bank site. This concerns evidence for trade. As discussed at some length above, all sites display essentially equivalent evidence for trade in the form of obsidian with eastern California. Only CA-LAN-2133 on the south bank, though, has substantial evidence of trade with the area to the west, most noticeably in the amount of fused shale on the site and, to a lesser degree, in coastal shell. Furthermore, this site has a larger number of pieces of Sierra Pelona steatite, originating in the Acton area to the east. That is, CA-LAN-2133 has apparently significantly greater evidence for trade to the west and to the east than either CA-LAN-2233 and -2235 singly or combined.

It is difficult to offer any strong interpretation of this seemingly significant circumstance, given the relatively limited data at hand. Clearly, however, the inhabitants of CA-

LAN-2133 had greater access to western resources, and therefore stronger ties with populations living downstream in the drainage than the north bank occupants. Perhaps surprisingly, CA-LAN-2133's inhabitants also seemingly had greater access to resources to the east, specifically to Sierra Pelona steatite. The only plausible explanation for this circumstance, accordingly, is that CA-LAN-2133 on the west, and CA-LAN-2233 and -2235, on the east, sat astride a cultural boundary of some sort, with the increased accessibility maintained by the inhabitants of CA-LAN-2133 to western resources such as fused shale and coastal items allowing them to more readily obtain eastern trade goods, such as Sierra Pelona steatite, than the inhabitants of sites that were actually slightly more closely located to these resources. That is, this explanation assumes a difference in relative economic value between these various trade goods. While there is no independent support for such an assumption, no more plausible interpretation appears to exist which can account for the empirical evidence obtained from these sites.

Thus, it is apparent that the archaeological evidence obtained during the Phase II test excavations on sites in the West Ranch study area both contribute to emerging interpretive reconstructions in far western North American prehistory, as well as suggest additional problems requiring further analysis and study.

CHAPTER 5
CONCLUSIONS AND RECOMMENDATIONS

5.1 Summary and Conclusions

Test excavations and determinations of site significance were conducted at eight prehistoric archaeological sites within the West Ranch study area, designated CA-LAN-2133, -2241, -2235, -2234 -2233, -2236, -2240 and -2242, northern Los Angeles County, California. This Phase II fieldwork involved mapping, the surface collecting of groundsurface artifacts and archaeological indicators, and the hand excavation of test pits on each site, along with laboratory processing, cataloging and analyses of the recovered artifact collections.

CA-LAN-2133 (NLF1) proved to comprise a subsurface archaeological deposit mantled by natural colluviation, and was found to measure approximately 11,550 m^2 in size. Judging from artifacts recovered from the site it appears to represent a small campsite or habitation, probably occupied by a single extended family on a seasonal basis. Temporally diagnostic artifacts from the site indicate that it was inhabited sometime during the Intermediate Period, or between about 3500 to 800 years B.P.; however, direct chronometric assays on obsidian

flakes from the site support an occupation restricted to the latter half of the Intermediate Period, from 160 B.C. to A.D. 1160. Currently, CA-LAN-2133 is in moderate to good condition. A graded road and disking have impacted the upper levels of the site, and its western end has been truncated by a eroded cut leading down to the river; otherwise, it is largely intact.

CA-LAN-2241 (NLF2) appears to have once represented a very small archaeological deposit that contained one, and possibly two, isolated human burials, and a small number of plant processing tools. No extant portions of this site could be located during the Phase II test. Instead, the human bones and artifacts found at this site were recovered in heavily disturbed contexts; specifically, on the groundsurface of a graded dirt road and in a large bulldozed area adjacent to the road, where all recovered artifacts were found and a few very fragmentary human bones were collected. A second human burial was also observed on the site in an immediately adjacent arroyo bottom. It had eroded out of the side-wall of the arroyo and had fallen to the stream bed when first located, but a subsequent arroyo side-wall collapse buried this interment under a very large volume of dirt. Efforts to expose and record this second burial by hand excavation were unsuccessful, due to the volume of collapsed soils covering it. It is assumed that this burial is also prehistoric in origin, based on its proximity to the other

prehistoric aboriginal remains. However, there is currently no positive empirical evidence in support this inference, and the apparent stratigraphic context of the burial in alluvial overbank (flood) deposits suggests the possibility that it may actually represent one of the many unrecovered bodies of a vicitim from the 1928 San Francisquito Dam disaster.

Thus, with the exception of this burial, all artifacts and human remains from CA-LAN-2241 have been removed from the site area. There are currently no extant portions of this site still in existence, although a disturbed burial of unknown origin is present in the arroyo bottom on the western side of the site.

CA-LAN-2235 (NLF3) consists of a subsurface archaeological deposit measuring approximately 3800 m^2 in size. It was found to represent a small, probably seasonally occupied camp or habitation, most likely used by a single extended family during their seasonal subsistence rounds. Artifacts from the site indicate that it dates to the Intermediate Period; chronometric assays on obsidian flakes from this locale, however, suggest an occupation beginning immediately before the start of the Intermediate Period, at 2250 BC, and extending to AD 940. Although the earlier obsidian dates from this site are slightly anomolous, they nonetheless are generally consistent with the temporal assignment based on the nature of the artifact assemblage recovered during the testing.

CA-LAN-2235 is currently in poor condition. A modern house, driveway and leach field are located within the approximate middle of the site, and have resulted in the complete destruction of approximately 20% of the site, while the remainder has been less severely impacted by modern land-use around this house.

CA-LAN-2234 (NLF4) was found to comprise introduced fill used to control erosion near the east bank of Martinez Chico Canyon. This fill was derived from the southern portion of nearby site CA-LAN-2233, and thus was itself artifact-bearing. Although a small quantity of archaeological artifacts and specimens was, accordingly, recovered from this putative site, these are out-of-original context, therefore entirely lacking in context and integrity, and thus of little or no scientific value.

CA-LAN-2233 (NLF5) consists of two components or loci, now separated by Highway 126. To the north is a subsurface archaeological deposit covering approximately 9000 m^2. This deposit contains a small habitation site apparently related to nearby site CA-LAN-2235. As at CA-LAN-2235, the northern portion of CA-LAN-2233 appears to represent a seasonally occupied single family camp. Artifacts from the deposit indicate that it dates to the Intermediate Period. This is confirmed by obsidian hydration ages from the site, which

indicate an occupation range of at least AD 236 to AD 808. A single human burial was exposed, recorded and re-buried in-situ on CA-LAN-2233 during the Phase II test. This was located adjacent to Highway 126. Subsequent to the Phase II fieldwork it has been determined that this burial falls within the highway right-of-way, and therefore outside of the study area, per se.

The northern portion of CA-LAN-2233 is in moderate condition. Its southern end has been truncated by Highway 126; plowing and disking have impacted its upper levels; and the development and ultimate removal of a historical walnut orchard has resulted in considerable stratigraphic mixing within the subsurface deposit at the site.

The southern portion of CA-LAN-2233 was determined to be a low density surface lithic scatter that had been very seriously and adversely impacted: a portion of it had been borrowed and used as fill on CA-LAN-2234; a railroad track and frontage road had been placed across the site, with the rail line subsequently removed; it has been plowed and disked for a number of years; and portions of it have been buried by Highway 126. Surface collecting during the Phase II test resulted in the recovery of all extant archaeological remains at this locale. Thus, there are no longer any extant archaeological remains within the southern portion of CA-LAN-2233.

CA-LAN-2236 (NLF6) was found to consist of a small, very low density surface lithic scatter. No temporally diagnostic artifacts or chronometrically datable materials were found on this site. It appears to have served as a non-specialized chipping station, probably created in concert with some other economic activity, such as plant gathering or hunting. Phase II fieldwork at this site resulted in the collection of all extant archaeological remains from this locale.

CA-LAN-2240 (NLF7) represents a small rockshelter that was inferred would contain archaeological remains. Subsurface excavation in this shelter demonstrated that no archaeological remains of any kind are still extant at this locale. That is, CA-LAN-2240 does not represent an extant cultural resource.

CA-LAN-2242 (NLF8) is a small cave. Test excavations within this cave indicate that it had been used to cache tools and implements, perhaps as late as the early part of the nineteenth century. However, the vast majority of the cave had been thoroughly looted. Only a few archaeological specimens were still present in the cave when test excavated during the current project. All of these were collected during this Phase II program; there are, thus, no longer any extant archaeological remains at this locale.

5.2 Final recommendations for CA-LAN-2133 (NLF1)

CA-LAN-2133 was found to contain a subsurface archaeological deposit and intact prehistoric artifacts that can contribute to the scientific reconstruction of prehistoric lifeways in the Santa Clara River Valley. Development at this locale has the potential to result in adverse impacts to cultural resources. Following the guidelines provided by Appendix K of the California Environmental Quality Act (CEQA), therefore, we recommend that any such adverse impacts to this site be mitigated by avoidance and preservation. Should preservation of this site be unfeasible, however, we recommend that a Phase III data recovery (salvage excavation) project be completed at CA-LAN-2133, to collect and preserve the scientific information contained therein.

5.3 Final recommendations for CA-LAN-2241 (NLF2)

Archaeological site CA-LAN-2241 was found to consist of a destroyed small prehistoric site, dating from sometime after 3500 years B.P. The site contained a handful of groundstone artifacts and two human burials, all of which were located in disturbed contexts at the time of the fieldwork. That is, subsurface testing demonstrated that no intact deposit is present on this site. Phase II surface collecting resulted in the recovery of all extant artifacts from this site, along with the

few fragmentary human bones constituting Burial 1. A second burial was also observed on this site. This had eroded out of an arroyo sidewall and had fallen into a stream bed. Subsequent arroyo wall collapse prior to an opportunity to record and stabilize this burial have re-buried this interment under a very considerable volume of soil. Efforts to re-expose it through hand-excavation were unsuccessful. Although it is assumed that Burial 2 on CA-LAN-2241 is aboriginal in origin, it apparently eroded out of Santa Clara River flood deposits. Thus, it must be recognized that this burial may instead represent one of the many unrecovered bodies of the victims of the 1928 San Francisquito Dam disaster.

Although there is no longer an extant archaeological site at this locale, a burial of unknown origin is still present in a disturbed context within the site area. Development of this area, therefore, has the potential to result in adverse impacts to archaeological remains (whether ultimately historical or prehistoric in age). Following the guidelines of CEQA, we recommend that any such adverse effects be mitigated through site avoidance and preservation. Should this prove unfeasible, we recommend that an effort be made to re-locate, analyze and re-inter the extant burial in the arroyo bottom at some more appropriate and environmentally secure locale within the region.

5.4 Final recommendations for CA-LAN-2235 (NLF3)

CA-LAN-2235 proved to be a subsurface archaeological deposit covering approximately 3800 m^2 in size. Artifacts recovered from the site and chronometric assays conducted on obsidian indicate that this site dates to the Intermediate Period, perhaps including the transitional period immediately before the beginning of this temporal phase, or from approximately 2250 BC to AD 940. It is thus at least partly coeval with CA-LAN-2133, as well as with CA-LAN-2233.

CA-LAN-2235 was found to be heavily disturbed, with at least 24% of it completely destroyed by the construction of a modern house, driveway and leach field within the approximate middle of the deposit. Nonetheless, the site has the potential to contribute to our scientific reconstruction of the prehistory of this region; further development on this site therefore has the potential to result in adverse impacts to cultural resources. Following Appendix K of CEQA, accordingly, we recommend that any additional adverse impacts to this site be mitigated by avoidance and preservation. Should this prove unfeasible, we recommend that a Phase III data recovery be conducted at this site to collect and preserve the scientific information contained therein.

5.5 Final recommendations for CA-LAN-2234 (NLF4)

The location designated CA-LAN-2234 was determined to comprise an area of imported fill. This fill was itself obtained from a nearby surface lithic scatter; hence the original recording of this locale as archaeological site CA-LAN-2234.

This location, accordingly, does not constitute a cultural resource with integrity. Given the fact that the few extant artifacts at this location are entirely out of original context, they have little potential to contribute to the scientific reconstruction of prehistoric lifeways in the region. Development of this locale, therefore, will not result in adverse impacts to significant cultural resources. We recommend that no additional archaeological work be required at this locale.

5.6 Final recommendations for CA-LAN-2233 (NLF5)

Due to the construction of Highway 126 through the site, CA-LAN-2233 is best considered in reference to two components: a southern portion, located south of the highway; and a northern portion, found in agricultural fields north of the highway.

The southern portion of CA-LAN-2233 was found to represent a very low density surface lithic scatter. It has been seriously

disturbed by the construction and then removal of a railroad line across this portion of the site; the grading of a dirt frontage road along the rail line course; the borrowing of fill eventually taken to the locale of CA-LAN-2234; plowing and disking for an unknown number of years; and the partial burial of the site component by the highway.

Phase II fieldwork determined that the southern portion of CA-LAN-2233 is solely a surface scatter of lithic tools, and resulted in the recovery of all extant surface artifacts at this locale, thus yielding scientifically consequential information from and about this component of this cultural resource. This has served to completely and satisfactorily mitigate any adverse impacts that might result from the development of that portion of CA-LAN-2233 lying south of Highway 126. Accordingly, we recommend that no additional archaeological work be required at this locale. However, following the guidelines of CEQA, it is recommended that an archaeologist be present for topsoil grading and removals at this location, to record, stabilize and evaluate any archaeological remains that might be uncovered during such activities.

The northern portion of CA-LAN-2233, in contrast, was found to contain a subsurface archaeological deposit covering approximately 9000 m^2. As with CA-LAN-2133 and -2235, this deposit was found to date to the Intermediate Period, with

chronometric assays indicating an occupation between AD 236 and 808. Furthermore, this northern portion of CA-LAN-2233 was determined to represent a small seasonal camp, probably occuppied by a single extended family during portions of their yearly subsistence round.

The condition of the subsurface deposit constituting the northern portion of CA-LAN-2233 was found to be moderate: its southern end has been truncated by Highway 126, while plowing and the develop and subsequent removal of a walnut orchard have contributed to a mixing of the stratigraphic layers at the site in certain areas. Nonetheless, the site has the potential to yield information valuable for the scientific reconstruction of prehistoric lifeways in this region. Moreover, a single human burial was uncovered and then re-buried on the site during the Phase II fieldwork. Although this was subsequently determined to fall outside of the project area, per se, and to be located in a road right-of-way, it is clearly of religious importance to local Native American groups. Development of the northern portion of CA-LAN-2233, therefore, has the potential to result in adverse impacts to cultural resources.

Following the guidelines of CEQA, we recommend that any adverse impacts to this site be mitigated by avoidance and preservation. Should this be unfeasible with reference to the entirety of the northern component of CA-LAN-2233, we

recommend that the human burial located within the site be preserved in-situ, and that adverse impacts to other portions of this component of the site be mitigated by a Phase III data recovery program.

5.7 Final recommendations for CA-LAN-2236 (NLF6)

Phase II testing at CA-LAN-2236 demonstrated that this site was a small, very low density surface lithic scatter. This fieldwork resulted in the recovery of all extant artifacts at this site, thus resulting in the recovery of scientifically consequential information from and about this cultural resource. This has served to completely and adequately mitigate all adverse impacts to this site that might accrue due to development at this locale. Accordingly, we recommend that no additional archaeological work be required at this locale. However, following Appendix K of CEQA, it is recommended that an archaeological monitor be present on this site for topsoil grading and removals, to identify, record and evaluate any archaeological remains that might be uncovered during such activities.

5.8 Final recommendations for CA-LAN-2240 (NLF7)

CA-LAN-2240 was recorded as a small rockshelter that was presumed to contain archaeological materials. Phase II testing failed to obtain any evidence that extant archaeological remains are present at this locale. Accordingly, CA-LAN-2240 does not constitute a cultural resource. Development at this locale, accordingly, will not result in adverse impacts to cultural resources. Based on this fact, we recommend that no additional archaeological work be required at this locale.

5.9 Final recommendations for CA-LAN-2242 (NLF8)

CA-LAN-2242 is a small cave that once was used to cache work tools and supplies. Based on the results of the Phase II testing of this cave, it was apparently very heavily looted at some time in the historical past. Our test excavations, accordingly, discovered only a small portion of the original contents of this site, which were localized in a small, and apparently overlooked area, at the mouth of the cave. There are currently no extant archaeological remains at this site, with the Phase II test having resulted in the recovery of scientifically consequential information from and about it. This has served to completely and adequately mitigate any adverse impacts that might accrue to this cultural resource due to development at this locale. We

recommend that no additional archaeological work be required at this cave site, therefore, following the guidelines of CEQA.

6.0
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7.0
TABLES

List of Tables

TABLE 1: CA-LAN-2133 ARTIFACT CATALOG

Cat#/2133-	Unit/level	Material	L x W x T	Weight (gm)	Number	Type
1	1/0-10	Lithic	---------	0.9	1	Debitage
2	1/10-20	Lithic	---------	22.7	1	Debitage
3	1/20-30	Lithic	---------	4.6	3	Debitage
4	1/30-40	Lithic	---------	2.1	2	Debitage
5	1/40-50	Bone	---------	2.6	16	Faunal remains
6	1/40-50	Lithic	---------	1.6	5	Debitage
7	1/50-60	Bone	---------	3.3	8	Faunal remains
8	1/50-60	Lithic	---------	0.1	1	Debitage
9	1/60-70	Bone	---------	0.4	4	Faunal remains
10	1/60-70	Lithic	---------	0.2	2	Debitage
11	1/60-70	Chert	4.01x3.19x2.2	19.4	1	Biface edge
12	1/70-80	Bone	---------	2.8	18	Faunal remains
13	1/70-80	Lithic	---------	10.4	3	Debitage
14	1/80-90	Bone	---------	0.6	2	Faunal remains
15	1/80-90	Lithic	---------	0.1	1	Debitage
16	1/90-100	Bone	---------	5.2	25	Faunal remains
17	1/100-120	Bone	---------	5	8	Faunal remains
18	1/100-110	Lithic	---------	3.5	2	Debitage
19	1/110-120	Bone	---------	2.5	18	Faunal remains
20	2/0-10	Lithic	---------	11.4	5	Debitage
21	2/10-20	Bone	---------	1.2	3	Faunal remains
22	2/10-20	Lithic	---------	1.5	4	Debitage
23	2/20-30	Lithic	----------	0.3	3	Debitage
24	2/30-40	Lithic	---------	19.6	8	Debitage
25	2/40-50	Bone & shell	---------	3.1	9	Faunal remains
26	2/40-50	Lithic	---------	6.2	6	Debitage
27	2/50-60	Bone	---------	1.1	5	Faunal remains
28	2/50-60	Lithic	---------	6	5	Debitage
29	2/50-60	Fused shale	1.2x1.1x0.4	0.3	1	Proj pt tip
30	2/60-70	Lithic	---------	0.7	7	Debitage
31	2/80-90	Bone	---------	0.4	1	Faunal remains
32	2/90-100	Bone	---------	0.7	3	Faunal remains
33	2/90-100	Lithic	---------	0.5	2	Debitage
34	2/100-110	Bone	---------	1.9	1	Faunal remains
35	2/100-110	Lithic	---------	9.4	5	Debitage
36	3/0-10	Bone	---------	1.3	14	Faunal remains
37	3/0-10	Lithic	---------	54.8	19	Debitage
38	3/10-20	Bone	---------	2	9	Faunal remains
39	3/10-20	Lithic	----------	28.8	17	Debitage
40	3/20-30	Bone	---------	4.4	13	Faunal remains
41	3/20-30	Lithic	---------	6	9	Debitage
42	3/30-40	Bone	---------	5.7	27	Faunal remains
43	3/30-40	Lithic	---------	7.5	6	Debitage

TABLE 1: CA-LAN-2133 ARTIFACT CATALOG

44	3/40-50	Bone	---------	20.5	146	Faunal remains
45	3/40-50	Lithic	---------	21.4	15	Debitage
46	3/50-70	Bone	---------	3.9	291	Faunal remains
47	3/50-70	Bone	1.7x0.5x0.3	0.1	1	Awl fragment
48	3/70-80	Lithic	---------	12.6	16	Debitage
49	3/80-90	Bone	---------	7.4	24	Faunal remains
50	Deleted	---------	---------	---------	---------	---------
51	3/90-100	Bone	---------	5	25	Faunal remains
52	3/90-100	Lithic	---------	9.6	4	Debitage
53	3/100-110	Bone	---------	5.7	19	Faunal remains
54	3/100-110	Lithic	---------	1.2	8	Debitage
55	3/110-120	Bone	---------	5.3	18	Faunal remains
56	3/110-120	Lithic	---------	3.5	4	Debitage
57	3/120-130	Bone	---------	4.3	25	Faunal remains
58	5/0-10	Lithic	---------	3.3	6	Debitage
59	5/10-20	Bone	---------	0.9	2	Faunal remains
60	5/10-20	Lithic	---------	19.4	8	Debitage
61	5/20-30	Bone	---------	0.4	2	Faunal remains
62	5/20-30	Lithic	---------	9.2	10	Debitage
63	5/30-40	Bone	---------	0.8	3	Faunal remains
64	5/30-40	Lithic	---------	19.5	13	Debitage
65	5/40-50	Lithic	---------	105.3	33	Debitage
66	5/50-60	Bone	---------	6.9	5	Faunal remains
67	5/50-60	Lithic	---------	42.3	23	Debitage
68	5/50-60	Schist	14.4x10.6x2.4	587.5	1	Mano
69	5/60-70	Steatite	1.12x0.41	0.1	1	Bead fragment
70	5/60-70	Lithic	---------	65.9	28	Debitage
71	5/70-80	Bone	---------	0.3	2	Faunal remains
72	5/70-80	Lithic	---------	63.1	21	Debitage
73	8/0-10	Lithic	---------	1.3	4	Debitage
74	8/10-20	Bone	---------	1.6	1	Faunal remains
75	8/10-20	Lithic	---------	10	5	Debitage
76	8/20-30	Lithic	---------	15.1	9	Debitage
77	Deleted	---------	---------	---------	---------	---------
78	8/30-40	Lithic	---------	3.3	9	Debitage
79	8/40-50	Bone	---------	0.4	4	Faunal remains
80	8/40-50	Lithic	---------	43.1	7	Debitage
81	8/50-60	Bone	---------	2.1	3	Faunal remains
82	8/50-60	Lithic	---------	36.3	4	Debitage
83	8/60-70	Bone	---------	0.5	2	Faunal remains
84	8/60-70	Lithic	---------	3.5	5	Debitage
85	5/80-90	Bone	---------	3.4	5	Faunal remains
86	5/80-90	Lithic	---------	63.2	40	Debitage
87	5/80-90	Sandstone	5.8x5.3x6.9	335.7	1	Pestle frag

TABLE 1: CA-LAN-2133 ARTIFACT CATALOG

88	5/90-100	Bone	---------	0.2	3	Faunal remains
89	5/90-100	Lithic	---------	101.9	25	Debitage
90	6/0-10	Bone	---------	0.1	1	Faunal remains
91	6/0-10	Lithic	---------	15.5	5	Debitage
92	6/10-20	Bone	---------	0.8	8	Faunal remains
93	6/10-20	Lithic	---------	10.4	7	Debitage
94	6/20-30	Bone	---------	3.9	8	Faunal remains
95	6/20-30	Lithic	---------	3.4	7	Debitage
96	6/30-40	Bone	---------	0.2	1	Faunal remains
97	6/30-40	Lithic	---------	38.2	4	Debitage
98	6/40-50	Bone	---------	0.6	5	Faunal remains
99	6/40-50	Lithic	---------	6	8	Debitage
100	6/50-60	Bone	---------	3.5	16	Faunal remains
101	6/50-60	Lithic	---------	1.4	6	Debitage
102	6/60-70	Lithic	---------	82.1	8	Debitage
103	6/60-70	Bone	---------	6.2	34	Faunal remains
104	6/70-80	Bone	---------	4.4	26	Faunal remains
105	6/70-80	Lithic	---------	17	12	Debitage
106	6/80-90	Bone	---------	4.8	37	Faunal remains
107	6/80-90	Lithic	---------	9.5	6	Debitage
108	6/80-90	Sandstone	7.0x9.5x5.5	495.2	1	Mano fragment
109	6/80-90	Schist	---------	81.4	7	Misc. grndstn
110	6/90-100	Bone	---------	2.8	13	Faunal remains
111	6/50-60	Sandstone	6.3x6.3x3.0	134.1	1	Pestle frag
112	9/10-20	Lithic	---------	0.8	1	Debitage
113	9/10-20	Bone	---------	0.3	1	Faunal remains
114	9/20-30	Lithic	---------	1.8	3	Debitage
115	9/30-40	Bone	---------	0.2	1	Faunal remains
116	9/30-40	Lithic	---------	4.3	6	Debitage
117	9/40-50	Lithic	---------	1.6	7	Debitage
118	9/50-60	Lithic	---------	5.9	6	Debitage
119	9/50-60	Lithic	---------	0.4	3	Faunal remains
120	10/0-10	Lithic	---------	2.1	3	Debitage
121	10/10-20	Bone	---------	0.7	2	Faunal remains
122	10/10-20	Lithic	---------	12.5	8	Debitage
123	10/20-30	Bone	---------	0.1	1	Faunal remains
124	10/20-30	Lithic	---------	5.9	10	Debitage
125	10/20-30	Sandstone	11.5x8.4x5.4	896.1	1	Mano
126	10/30-40	Bone	---------	0.3	6	Faunal remains
127	10/30-40	Lithic	---------	1.4	5	Debitage
128	10/40-50	Bone	---------	0.7	5	Faunal remains
129	10/40-50	Lithic	---------	3.8	5	Debitage
130	10/50-60	Metal	---------	---------	1	Fence staple
131	10/50-60	Bone	---------	1.6	8	Faunal remains

TABLE 1: CA-LAN-2133 ARTIFACT CATALOG

132	10/50-60	Lithic	---------	11.5	5	Debitage
133	11/0-10	Lithic	---------	0.9	2	Debitage
134	11/10-20	Lithic	---------	2.6	4	Debitage
135	11/10-20	Bone	---------	0.3	2	Faunal remains
136	11/20-30	Lithic	---------	0.4	1	Debitage
137	11/30-40	Lithic	---------	3.7	3	Debitage
138	11/50-60	Lithic	---------	1.1	4	Debitage
139	11/60-70	Bone	---------	0.1	1	Faunal remains
140	11/60-70	Lithic	---------	0.2	2	Debitage
141	12/0-10	Bone	---------	1.1	1	Faunal remains
142	12/0-10	Lithic	---------	0.1	1	Debitage
143	12/30-40	Bone	---------	0.1	1	Faunal remains
144	12/30-40	Lithic	---------	3	1	Debitage
145	12/40-50	Lithic	---------	26.6	3	Debitage
146	12/50-60	Bone	---------	4.7	2	Faunal remains
147	12/50-60	Lithic	---------	0.1	1	Debitage
148	12/50-60	Sandstone	13.6x4.4x4.5	423.1	1	Pestle fragm
149	15/0-10	Lithic	---------	0.5	3	Debitage
150	15/10-20	Lithic	---------	1	2	Debitage
151	16/0-10	Bone	---------	0.5	1	Faunal remains
152	16/0-10	Lithic	---------	0.8	3	Debitage
153	16/10-20	Lithic	---------	2.4	3	Debitage
154	16/20-30	Bone	---------	0.7	11	Faunal remains
155	16/20-30	Lithic	---------	0.2	2	Debitage
156	16/20-30	Metal	---------	---------	1	Tack
157	16/30-40	Lithic	---------	0.9	2	Debitage
158	15/30-40	Lithic	---------	0.9	1	Debitage
159	15/40-50	Bone	---------	1.2	1	Faunal remains
160	15/50-60	Lithic	---------	0.6	1	Debitage
161	16/70-80	Lithic	---------	2.2	1	Debitage
162	14/0-10	Lithic	---------	1.6	2	Debitage
163	14/0-10	Bone	---------	0.4	1	Faunal remains
164	14/10-20	Bone	---------	0.9	3	Faunal remains
165	14/10-20	Lithic	---------	7.8	2	Debitage
166	14/20-30	Bone	---------	0.4	3	Faunal remains
167	14/20-30	Lithic	---------	8.6	5	Debitage
168	14/30-40	Bone	---------	0.8	5	Faunal remains
169	14/30-40	Lithic	---------	4.6	2	Debitage
170	14/40-50	Lithic	---------	21.4	4	Debitage
171	14/40-50	Bone	---------	1.7	4	Faunal remains
172	14/50-60	Bone	---------	0.3	3	Faunal remains
173	14/50-60	Lithic	---------	1.9	2	Debitage
174	3/50-70	Quartzite	7.1x6.4x6.6	446.1	1	Metate frag
175	3/70-80	Quartzite	6.1x3.8x4.3	117.7	1	Mano fragment

TABLE 1: CA-LAN-2133 ARTIFACT CATALOG

176	3/70-80	Quartzite	11.5x6.1x3.9	407.8	1	Mano fragment
177	3/90-100	Quartzite	8.3x4.7x3.4	104.5	1	Uniface edge
178	7/50-60	Lithic	---------	19.2	4	Debitage
179	7/50-60	Bone	---------	4.3	7	Faunal remains
180	7/60-70	Bone	---------	1.3	8	Faunal remains
181	7/60-70	Lithic	---------	3.3	1	Debitage
182	7/70-80	Bone	---------	0.7	2	Faunal remains
183	7/70-80	Lithic	---------	5.8	2	Debitage
184	7/80-90	Bone	---------	0.3	2	Faunal remains
185	18/0-10	Chert	1.4x1.6x1.7	2.4	1	Biface frag
186	18/20-30	Quartz	3.9x3.3x1.6	22.9	1	Biface edge
187	18/30-40	Lithic	---------	4.5	6	Debitage
188	18/40-50	Quartzite	6.3x3.5x4.9	150.8	1	Hammerstone
189	19/50-60	Meta-volcanic	5.7x5.9x4.4	156.3	1	Biface chopper
190	20/40-50	Quartzite	5.5x4.1x2.4	61.7	1	Mano fragment
191	3/50-60	Bone	---------	---------	1	Tooth fragment
192	3/70-80	Bone	---------	---------	1	Tooth fragment
193	6/80-90	Bone	2.8x0.7x0.4	0.7	1	Awl fragment
194	14/60-70	Bone	---------	2.7	3	Faunal remains
195	19/0-10	Bone	---------	0.3	3	Faunal remains
196	19/0-10	Lithic	---------	2.6	3	Debitage
197	19/10-20	Lithic	---------	3.6	4	Debitage
198	19/10-20	Bone	---------	0.1	1	Faunal remains
199	19/20-30	Lithic	---------	0.7	1	Debitage
200	19/30-40	Bone	---------	2.6	4	Faunal remains
201	19/30-40	Lithic	---------	7.5	4	Debitage
202	19/40-50	Bone	---------	9.8	6	Faunal remains
203	19/40-50	Lithic	---------	5.4	7	Debitage
204	Deleted	----------	----------	----------	----------	----------
205	19/50-60	Bone	---------	6.1	7	Faunal remains
206	19/50-60	Lithic	---------	11.9	4	Debitage
207	16/40-50	Bone	---------	2.5	9	Faunal remains
208	16/40-50	Lithic	---------	2.4	3	Debitage
209	16/50-60	Bone	---------	3.3	17	Faunal remains
210	16/50-60	Lithic	---------	7.3	7	Debitage
211	16/60-70	Bone	---------	12.9	62	Faunal remains
212	16/60-70	Lithic	---------	168.3	12	Debitage
213	16/70-80	Bone	---------	8	29	Faunal remains
214	Deleted	----------	----------	----------	----------	----------
215	17/10-20	Bone	---------	1.4	2	Faunal remains
216	17/10-20	Lithic	---------	9.6	10	Debitage
217	17/20-30	Bone	---------	6.9	5	Faunal remains
218	17/20-30	Lithic	---------	18.6	6	Debitage
219	17/30-40	Bone	---------	0.4	1	Faunal remains

TABLE 1: CA-LAN-2133 ARTIFACT CATALOG

220	17/30-40	Lithic	---------	1.7	3	Debitage
221	17/40-50	Bone	---------	0.8	2	Faunal remains
222	17/60-70	Bone	---------	4.5	15	Faunal remains
223	17/60-70	Lithic	---------	2.5	7	Debitage
224	18/0-10	Lithic	---------	5	5	Debitage
225	18/0-10	Bone	---------	1.4	3	Faunal remains
226	18/10-20	Bone	---------	1.2	5	Faunal remains
227	18/10-20	Lithic	---------	0.6	5	Debitage
228	18/20-30	Bone	---------	0.2	8	Faunal remains
229	18/20-30	Lithic	---------	11.2	5	Debitage
230	18/30-40	Bone	---------	0.4	4	Faunal remains
231	18/40-50	Bone	---------	0.9	4	Faunal remains
232	18/40-50	Lithic	---------	2.4	6	Debitage
233	18/50-60	Lithic	---------	0.3	3	Debitage
234	18/50-60	Bone	---------	0.2	2	Faunal remains
235	20/0-10	Bone	---------	0.1	1	Faunal remains
236	20/0-10	Lithic	---------	3.7	5	Debitage
237	20/10-20	Bone	---------	0.1	1	Faunal remains
238	20/10-20	Lithic	---------	16.6	7	Debitage
239	20/10-20	Metal	---------	---------	1	Fence staple
240	20/20-30	Bone	---------	0.1	1	Faunal remains
241	20/20-30	Lithic	---------	15.1	8	Debitage
242	20/30-40	Bone	---------	0.5	2	Faunal remains
243	20/30-40	Lithic	---------	9.6	2	Debitage
244	20/40-50	Bone	---------	0.2	1	Faunal remains
245	20/40-50	Lithic	---------	18.6	3	Debitage
246	20/50-60	Bone	---------	0.8	2	Faunal remains
247	20/50-60	Lithic	---------	3.6	4	Debitage
248	17/60-70	Metal	---------	---------	1	Nail
249	Deleted	----------	----------	----------	----------	----------
250	9/30-40	Sandstone	9.0x8.5x5.4*	548.3	1	Mano
251	SA#1	Lithic	---------	1.6	1	Debitage
252	SA#2	Lithic	---------	6.4	1	Debitage
253	SA#3	Lithic	---------	2.6	1	Debitage
254	SA#4	Lithic	---------	5.3	1	Debitage
255	SA#5	Lithic	---------	3.8	1	Debitage
256	SA#6	Lithic	---------	6.4	1	Debitage
257	SA#7	Lithic	---------	5.1	1	Debitage
258	SA#11	Lithic	---------	0.2	1	Debitage
259	SA#12	Lithic	---------	4	1	Debitage
260	SA#13	Lithic	---------	7.1	1	Debitage
261	SA#14	Lithic	---------	1.6	1	Debitage
262	SA#15	Lithic	---------	1.9	1	Debitage
263	SA#16	Lithic	---------	13.9	1	Debitage

TABLE 1: CA-LAN-2133 ARTIFACT CATALOG

264	SA#19	Lithic	---------	59.3	1	Debitage

TABLE 2: CA-LAN-2241 ARTIFACT CATALOG

Cat#/2241	Unit/level	Material	L x W x T	Weight (gm)	Number	Type
1	SA#1	Schist	14x9.4x1.6"	345.2	1	Misc grndstn
2	SA#2	Steatite	13x8x2.7"	563.2	1	Bowl
3	SA#3	Sandstone	17.6x13.6x6.7	1360.7	1	Bowl
4	SA#4	Sandstone	16.9x18.3x16.	1122.3	1	Pestle
5	SA#5	Sandstone	12.4x12.9x6.4	1571.8	1	Basket-hopper

TABLE 3: CA-LAN-2235 ARTIFACT CATALOG

Cat#/2235	Unit/level	Material	L x W x T	Weight (gm)	Number	Type
1	1/40-50	Bone	---------	0.4	1	Faunal remains
2	1/40-50	Lithic	---------	6.4	3	Debitage
3	SA#15	Lithic	---------	5.8	1	Debitage
4	2/0-10	Lithic	---------	0.6	1	Debitage
5	2/10-20	Lithic	---------	1.5	3	Debitage
6	2/20-30	Lithic	---------	15.1	1	Debitage
7	2/20-30	Lithic	---------	1.6	3	Debitage
8	3/20-30	Lithic	---------	3.4	4	Debitage
9	3/30-40	Lithic	---------	16.4	8	Debitage
10	3/40-50	Lithic	---------	0.4	1	Debitage
11	3/50-60	Lithic	---------	1.9	2	Debitage
12	3/60-70	Lithic	---------	4.3	3	Debitage
13	6/20-30	Lithic	---------	15.9	3	Debitage
14	6/30-40	Lithic	---------	1.4	1	Debitage
15	SA#15	Quartzite	1.1x6.0x4.5	173.1	1	Hammerstone
16	6/60-70	Lithic	---------	2.1	3	Debitage
17	8/10-20	Lithic	---------	4.6	2	Debitage
18	8/20-30	Lithic	---------	13.4	6	Debitage
19	8/30-40	Lithic	---------	10.4	7	Debitage
20	8/30-40	Quartzite	7.8x3.8x4.2*	175.2	1	Mano
21	8/30-40	Quartzite	11.7x6.7x4.4*	412.8	1	Mano
22	8/40-50	Lithic	---------	3.4	10	Debitage
23	8/50-60	Lithic	---------	24.3	8	Debitage
24	8/60-70	Lithic	---------	23.2	7	Debitage
25	8/70-80	Lithic	---------	16.3	4	Debitage
26	9/0-10	Lithic	---------	2.4	2	Debitage
27	9/10-20	Lithic	---------	11.8	11	Debitage
28	9/20-30	Lithic	---------	13.8	6	Debitage
29	9/30-40	Lithic	---------	6.7	4	Debitage
30	9/30-40	Meta-volcanic	12.3x8.4x8.4*	572.4	1	Mano
31	Deleted	---------	---------	---------	---------	---------
32	9/40-50	Lithic	---------	10	7	Debitage
33	9/50-60	Lithic	---------	25.9	4	Debitage
34	9/60-70	Lithic	---------	15.2	14	Debitage
35	9/70-80	Lithic	---------	15.8	6	Debitage
36	9/80-90	Lithic	---------	2.4	3	Debitage
37	11/0-10	Lithic	---------	72.1	2	Debitage
38	11/10-20	Lithic	---------	53.6	16	Debitage
39	11/20-30	Lithic	---------	21.4	10	Debitage
40	11/20-30	Bone	---------	0.3	3	Faunal remains
41	11/30-40	Lithic	---------	4.1	11	Debitage
42	11/30-40	Bone	---------	0.2	2	Faunal remains
43	11/40-50	Lithic	---------	7.9	8	Debitage

TABLE 3: CA-LAN-2235 ARTIFACT CATALOG

44	11/50-60	Lithic	---------	8.2	8	Debitage
45	11/50-60	Bone	---------	1.5	7	Faunal remains
46	11/60-70	Lithic	---------	21.3	12	Debitage
47	11/60-70	Bone	---------	0.4	2	Faunal remains
48	11/70-80	Lithic	---------	16.9	14	Debitage
49	11/70-80	Bone	---------	0.1	1	Faunal remains
50	11/80-90	Lithic	---------	9	16	Debitage
51	11/80-90	Bone	---------	0.7	5	Faunal remains
52	11/90-100	Bone	---------	0.3	1	Faunal remains
53	11/90-100	Lithic	---------	8.2	11	Debitage
54	11/100-110	Bone	---------	0.4	2	Faunal remains
55	11/100-110	Lithic	---------	2.1	1	Debitage
56	1/0-10	Lithic	---------	3.1	1	Debitage
57	1/10-20	Lithic	---------	1.6	2	Debitage
58	1/20-30	Bone	---------	0.1	1	Faunal remains
59	3/0-10	Lithic	---------	8.8	3	Debitage
60	SA#11	Chert	4.7x3.9x2.2	46.5	1	Core
61	5/0-10	Bone	---------	0.3	2	Faunal remains
62	5/10-20	Bone	---------	0.1	1	Faunal remains
63	5/20-30	Bone	---------	0.8	1	Faunal remains
64	6/0-10	Lithic	---------	1.7	1	Debitage
65	6/10-20	Lithic	---------	2.8	1	Debitage
66	SA#10	Lithic	---------	0.5	1	Debitage
67	8/0-10	Lithic	---------	5.7	6	Debitage
68	10/0-10	Lithic	---------	1.4	3	Debitage
69	10/10-20	Lithic	---------	15.2	12	Debitage
70	10/20-30	Lithic	---------	7.3	11	Debitage
71	10/30-40	Lithic	---------	17.4	18	Debitage
72	10/40-50	Lithic	---------	8.7	13	Debitage
73	10/50-60	Lithic	---------	26.2	17	Debitage
74	10/60-70	Lithic	---------	13	10	Debitage
75	10/70-80	Lithic	---------	0.4	2	Debitage
76	12/0-10	Lithic	---------	12.6	7	Debitage
77	12/10-20	Lithic	---------	30	9	Debitage
78	12/20-30	Lithic	---------	7	9	Debitage
79	12/30-40	Lithic	---------	5.4	2	Debitage
80	12/40-50	Lithic	---------	4.1	2	Debitage
81	12/40-50	Bone	1.5x0.4x0.4*	0.2	1	Awl
82	3/20-30	Chert	2.9x1.6x0.7*	2.1	1	Projectile pt
83	8/10-20	Chert	6.6x4.4x1.7	36.8	1	Uniface edge
84	8/20-30	Quartzite	7.4x5.5x4.3	187.2	1	Hammerstone
85	8/70-80	Plastic	---------	---------	1	Pipe frag
86	9/60-70	Chert	6.1x6.0x2.1	101.8	1	Uniface edge
87	10/0-10	Chert	1.6x1.1x0.4*	0.5	1	Projectile pt

TABLE 3: CA-LAN-2235 ARTIFACT CATALOG

88	10/70-80	Chert	1.7x1.0x0.5*	0.6	1	Biface
89	Surface	Metavolcanic	5.2x3.7x1.7	22.6	1	Utilized flake
90	SA#1	Quartzite	7.1x7.8x6.0	377.6	1	Hammerstone
91	SA#2	Lithic	---------	2.1	1	Debitage
92	SA#3	Lithic	---------	1.6	1	Debitage
93	SA#4	Lithic	---------	7.9	1	Debitage
94	SA#5	Lithic	---------	5.7	1	Debitage
95	SA#6	Lithic	---------	1.3	1	Debitage
96	SA#7	Sandstone	9.8x7.8x4.7*	454.2	1	Metate
97	SA#8	Schist	11.8x10.1x2.(	385.5	1	Comal (?)
98	SA#9	Sandstone	8.0x5.8x6.2*	312	1	Mano

TABLE 4: CA-LAN-2234 ARTIFACT CATALOG

Cat#/2234	Unit/level	Material	L x W x T	Weight (gm)	Number	Type
1	1/0-10	Bone	---------	0.4	1	Faunal remains
2	1/10-20	Lithic	---------	0.3	2	Debitage
3	1/20-30	Lithic	---------	0.2	1	Debitage
4	1/30-40	Lithic	---------	1.1	2	Debitage
5	1/50-60	Bone	---------	0.3	1	Faunal remains
6	1/50-60	Lithic	---------	0.4	1	Debitage
7	2/10-20	Shell	---------	0.1	1	Haliotis bead
8	3/0-10	Lithic	---------	5.6	1	Debitage
9	3/10-20	Lithic	---------	2.6	3	Debitage
10	3/20-30	Lithic	---------	0.1	1	Debitage
11	3/30-40	Lithic	---------	0.1	1	Debitage
12	4/0-10	Bone	---------	0.3	1	Faunal remains
13	4/0-10	Lithic	---------	1.6	5	Debitage
14	4/10-20	Lithic	---------	0.4	3	Debitage
15	4/20-30	Lithic	---------	1.7	2	Debitage
16	4/20-30	Bone	---------	0.4	1	Faunal remains
17	5/0-10	Bone	---------	0.6	1	Faunal remains
18	5/0-10	Lithic	---------	0.1	1	Debitage
19	5/10-20	Lithic	---------	0.3	1	Debitage
20	6/0-10	Bone	---------	0.2	2	Faunal remains
21	6/0-10	Lithic	---------	9.1	5	Debitage
22	6/10-20	Bone	---------	0.3	1	Faunal remains
23	6/10-20	Lithic	---------	1.2	2	Debitage
24	6/20-30	Lithic	---------	0.1	1	Debitage
25	6/30-40	Lithic	---------	2.1	1	Debitage
26	6/40-50	Lithic	---------	1.4	1	Debitage
27	9/0-10	Lithic	---------	12.7	3	Debitage
28	3/20-30	Chert	3.4x1.1x0.8	2.7	1	Drill
29	6/0-10	Bone	2.3x0.4x0.4*	0.4	1	Awl
30	SA#1	Quartzite	20.3x7.9x6.5	>2500.0	1	Pestle
31	SA#2	Lithic	----------	23.6	6	Debitage

TABLE 5: CA-LAN-2233 ARTIFACT CATALOG

Cat#/2233	Unit/level	Material	L x W x T	Weight (gm)	Number	Type
1	1/0-10	Bone	---------	0.4	1	Faunal remains
2	1/0-10	Lithic	---------	0.4	2	Debitage
3	1/0-10	Bone	---------	0.3	1	Faunal remains
4	1/10-20	Lithic	---------	0.5	1	Debitage
5	1/20-30	Bone	---------	1.1	6	Faunal remains
6	1/20-30	Lithic	---------	7.3	1	Debitage
7	2/10-20	Lithic	---------	5.7	3	Debitage
8	2/20-30	Lithic	---------	3.4	3	Debitage
9	2/20-30	Bone	---------	0.9	2	Faunal remains
10	3/0-10	Lithic	---------	0.9	2	Debitage
11	3/10-20	Lithic	---------	1.7	5	Debitage
12	4/0-10	Bone	---------	0.7	3	Faunal remains
13	4/0-10	Lithic	---------	0.3	2	Debitage
14	4/10-20	Bone	---------	0.1	1	Faunal remains
15	4/10-20	Lithic	---------	1.8	3	Debitage
16	4/20-30	Bone	---------	2.3	5	Faunal remains
17	4/20-30	Lithic	---------	6.2	5	Debitage
18	4/30-40	Bone	---------	1.5	16	Faunal remains
19	4/30-40	Lithic	---------	5.4	7	Debitage
20	4/40-50	Bone	---------	4.1	14	Faunal remains
21	4/40-50	Lithic	---------	15.8	11	Debitage
22	4/50-60	Bone	---------	6.3	37	Faunal remains
23	4/50-60	Lithic	---------	1.9	5	Debitage
24	4/60-70	Bone	---------	3.3	31	Faunal remains
25	4/60-70	Lithic	---------	8.4	1	Debitage
26	4/70-80	Bone	---------	2.4	10	Faunal remains
27	4/70-80	Lithic	---------	0.4	1	Debitage
28	6/0-10	Bone	---------	0.3	3	Faunal remains
29	6/10-20	Lithic	---------	0.4	1	Debitage
30	6/20-30	Bone	---------	1.2	4	Faunal remains
31	6/20-30	Lithic	---------	0.6	1	Debitage
32	6/30-40	Bone	---------	0.5	3	Faunal remains
33	6/30-40	Lithic	---------	8.5	6	Debitage
34	6/40-50	Bone	---------	3	12	Faunal remains
35	6/40-50	Lithic	---------	19.8	6	Debitage
36	6/50-60	Bone	---------	3	21	Faunal remains
37	6/50-60	Lithic	---------	5.6	5	Debitage
38	6/60-70	Bone	---------	4.1	16	Faunal remains
39	6/60-70	Lithic	---------	7.8	4	Debitage
40	6/70-80	Bone	---------	4.9	37	Faunal remains
41	6/70-80	Lithic	---------	0.3	3	Debitage
42	6/80-90	Bone	---------	4.6	23	Faunal remains
43	6/80-90	Lithic	---------	4.1	4	Debitage
44	7/50-60	Quartzite	8.5x7.3x5.1	331.3	1	Hammerstone

TABLE 5: CA-LAN-2233 ARTIFACT CATALOG

45	7/50-60	Bone	---------	0.1	1	Faunal remains
46	7/50-60	Lithic	---------	3.6	2	Debitage
47	7/60-70	Bone	---------	0.2	3	Faunal remains
48	7/60-70	Lithic	---------	0.6	2	Debitage
49	7/70-80	Bone	---------	0.6	4	Faunal remains
50	7/80-90	Lithic	---------	3.4	1	Debitage
51	7/90-100	Bone	---------	0.6	3	Faunal remains
52	7/90-100	Lithic	---------	0.3	1	Debitage
53	7/100-110	Bone	---------	1.3	13	Faunal remains
54	7/100-110	Lithic	---------	3.3	3	Debitage
55	7/100-110	Bone	---------	3.9	12	Faunal remains
56	7/110-120	Lithic	---------	0.7	2	Debitage
57	7/130-140	Bone	---------	1.2	4	Faunal remains
58	7/130-140	Lithic	---------	13.4	9	Debitage
59	7/140-150	Bone	---------	0.5	5	Faunal remains
60	7/140-150	Lithic	---------	16.8	9	Debitage
61	7/150-160	Bone	---------	3	17	Faunal remains
62	7/150-160	Lithic	---------	15.4	9	Debitage
63	7/160-170	Bone	---------	2.2	9	Faunal remains
64	7/160-170	Lithic	---------	5.9	13	Debitage
65	7/170-180	Lithic	---------	0.1	1	Debitage
66	7/180-190	Lithic	---------	5.1	2	Debitage
67	7/0-10	Bone	---------	1.2	1	Faunal remains
68	7/20-30	Bone	---------	0.4	1	Faunal remains
69	7/30-40	Bone	---------	0.8	8	Faunal remains
70	7/30-40	Lithic	---------	0.5	4	Debitage
71	7/30-40	Quartzite	7.7x4.3x5.1*	323.8	1	Pestle
72	7/40-50	Lithic	---------	5.1	1	Debitage
73	8/0-10	Bone	---------	0.1	1	Faunal remains
74	8/0-10	Lithic	---------	4.6	3	Debitage
75	8/10-20	Bone	---------	0.1	1	Faunal remains
76	8/20-30	Lithic	---------	11	3	Debitage
77	8/30-40	Bone	---------	0.5	1	Faunal remains
78	8/30-40	Lithic	---------	3.5	2	Debitage
79	8/40-50	Quartzite	13.9x8x6	1077.6	1	Mano
80	8/40-50	Bone	---------	1.7	4	Faunal remains
81	8/40-50	Lithic	---------	0.7	2	Debitage
82	8/50-60	Bone	---------	0.3	3	Faunal remains
83	8/50-60	Lithic	---------	0.3	1	Debitage
84	8/60-70	Bone	---------	0.2	2	Faunal remains
85	8/70-80	Bone	---------	0.9	5	Faunal remains
86	8/70-80	Lithic	---------	3.1	4	Debitage
87	8/80-90	Bone	---------	1.9	8	Faunal remains
88	8/80-90	Lithic	---------	4.1	1	Debitage
89	8/90-100	Bone	---------	0.6	3	Faunal remains

TABLE 5: CA-LAN-2233 ARTIFACT CATALOG

90	8/90-100	Plastic	---------	---------	---------	Fragments
91	8/100-110	Bone	---------	4.5	21	Faunal remains
92	8/100-110	Lithic	---------	3.6	3	Debitage
93	8/110-120	Bone	---------	4.4	24	Faunal remains
94	8/110-120	Lithic	---------	28.5	20	Debitage
95	8/130-140	Bone	---------	2.5	17	Faunal remains
96	8/130-140	Lithic	---------	5.8	8	Debitage
97	8/130-140	Quartzite	14.8x9.7x6.9	1640.4	1	Mano
98	8/140-150	Bone	---------	4.8	8	Faunal remains
99	8/140-150	Lithic	---------	16.8	6	Debitage
100	8/150-160	Bone	---------	6.2	8	Faunal remains
101	8/150-160	Lithic	---------	17	7	Debitage
102	8/160-170	Bone	---------	2.4	5	Faunal remains
103	8/160-170	Lithic	---------	18.2	9	Debitage
104	8/170-180	Lithic	---------	0.1	1	Debitage
105	8/180-190	Bone	---------	0.1	2	Faunal remains
106	8/190-200	Bone	---------	0.1	1	Faunal remains
107	9/0-10	Lithic	---------	0.8	2	Debitage
108	9/10-20	Bone	---------	0.2	2	Faunal remains
109	9/10-20	Lithic	---------	20.8	1	Debitage
110	9/20-30	Lithic	---------	1.6	1	Debitage
111	9/30-40	Bone	---------	0.1	2	Faunal remains
112	9/30-40	Lithic	---------	33.2	2	Debitage
113	9/30-40	Meta-volcanic	11.3x7x5.7	638.7	1	Mano
114	9/40-50	Lithic	---------	5.6	2	Debitage
115	9/40-50	Quartzite	4.1x4.1x5.7*	179.7	1	Mano
116	9/50-60	Lithic	---------	29.6	3	Debitage
117	9/60-70	Bone	---------	5.6	16	Faunal remains
118	9/60-70	Lithic	---------	6.1	4	Debitage
119	9/70-80	Bone	---------	2.8	13	Faunal remains
120	9/70-80	Lithic	---------	4.9	4	Debitage
121	9/80-90	Bone	---------	5	11	Faunal remains
122	9/80-90	Lithic	---------	0.2	1	Debitage
123	9/90-100	Bone	---------	2.3	19	Faunal remains
124	9/90-100	Lithic	---------	8.2	1	Debitage
125	9/100-110	Bone	---------	0.4	5	Faunal remains
126	11/10-20	Lithic	---------	0.3	1	Debitage
127	11/20-30	Lithic	---------	0.4	1	Debitage
128	11/40-50	Lithic	---------	1.4	2	Debitage
129	11/50-60	Lithic	---------	6.7	2	Debitage
130	11/50-60	Bone	---------	1.1	5	Faunal remains
131	11/50-60	Schist	6.7x6.7x1.7	120.1	1	Incised plaque
132	11/60-70	Lithic	---------	5.9	4	Debitage
133	11/60-70	Bone	---------	1.4	5	Faunal remains
134	11/70-80	Lithic	---------	8.1	1	Debitage

TABLE 5: CA-LAN-2233 ARTIFACT CATALOG

135	11/80-90	Quartzite	10.2x6.8x5.3"	325.9	1	Mano
136	11/80-90	Bone	---------	2.7	13	Faunal remains
137	11/80-90	Lithic	---------	3.2	4	Debitage
138	11/90-100	Bone	---------	7.2	16	Faunal remains
139	11/90-100	Lithic	---------	24.3	4	Debitage
140	11/100-110	Bone	---------	2.6	15	Faunal remains
141	11/100-110	Lithic	---------	6.6	2	Debitage
142	11/110-120	Bone	---------	1.8	6	Faunal remains
143	11/110-120	Lithic	---------	2.9	4	Debitage
144	11/110-120	Quartzite	6.4x5.4x5.6"	170.1	1	Mano
145	11/120-130	Bone	---------	4.1	11	Faunal remains
146	11/120-130	Lithic	---------	0.3	4	Debitage
147	11/130-140	Bone	---------	2.2	9	Faunal remains
148	Deleted	---------	---------	---------	---------	---------
149	11/140-150	Bone	---------	0.6	7	Faunal remains
150	Deleted	---------	---------	---------	---------	---------
151	11/150-160	Bone	---------	0.2	2	Faunal remains
152	11/150-160	Lithic	---------	4.9	2	Debitage
153	11/160-170	Bone	---------	0.9	4	Faunal remains
154	11/160-170	Lithic	---------	3.3	2	Debitage
155	12/0-10	Lithic	---------	4.9	2	Debitage
156	Deleted	---------	---------	---------	---------	---------
157	12/30-40	Lithic	---------	2.1	2	Debitage
158	12/40-50	Lithic	---------	4.2	2	Debitage
159	Deleted	---------	---------	---------	---------	---------
160	1/20-30	Chert	1.6x1.3x0.7"	1.2	1	Biface
161	7/160-170	Chert	2.4x1.2x0.5"	1.2	1	Drill
162	8/20-30	Chert	2.2x1.5x0.7"	1.5	1	Biface
163	8/80-90	Obsidian	2.5x2.0x1.3	1.7	1	Biface
164	8/130-140	Chert	3.4x2.5x3.4	3.2	1	Projectile pt
165	6/20-30	Bone	---------	---------	1	Tooth
166	6/50-60	Bone	---------	---------	2	Misc. frags
167	6/70-80	Bone	---------	---------	4	" "
168	7/50-60	Bone	4.6x0.5x0.4"	0.7	1	Awl
169	7/50-60	Bone	2.2	0.1	1	Awl frag
170	8/160-170	Bone	7x0.72x0.68	4.6	1	Misc worked fr
171	11/130-140	Bone	3.7x0.4x0.4	0.9	1	Needle
172	SA#1	Lithic	---------	3.7	1	Debitage
173	SA#2	Sandstone	9.2x5.8x6.3"	400.9	1	Metate
174	SA#4	Lithic	---------	2.9	1	Debitage
175	SA#5	Sandstone	6.4x8.8x6.2"	380.3	1	Mano
176	SA#7	Quartzite	7.4x6.1x4.4	331.6	1	Hammerstone
177	SA#8	Sandstone	7.8x3.5x5"	206.4	1	Mano
178	SA#9	Chert	3.9x3.6x2.6	31.9	1	Core
179	SA#11	Lithic	---------	4.2	1	Debitage

TABLE 5: CA-LAN-2233 ARTIFACT CATALOG

180	SA#13	Lithic	---------	2.8	1	Debitage
181	SA#15	Sandstone	7.4x7.2x6.2"	482.9	1	Metate
182	SA#16	Lithic	---------	6.8	1	Debitage
183	SA#17	Lithic	---------	7.2	1	Debitage
184	SA#18	Lithic	---------	4.4	1	Debitage
185	SA#20	Schist	16.3x10x3"	673.2	1	Misc grndstn

TABLE 6: CA-LAN-2236 ARTIFACT CATALOG

Cat#/2236	Unit/level	Material	L x W x T	Weight (gm)	Number	Type
1	1/0-10	Lithic	---------	4.1	2	Debitage
2	SA#1	Lithic	---------	21.6	1	Debitage
3	SA#2	Lithic	---------	67.1	1	Debitage
4	SA#5	Lithic	---------	1.3	1	Debitage
5	SA#6	Lithic	---------	0.2	1	Debitage

TABLE 7: CA-LAN-2242 ARTIFACT CATALOG

Cat#/	Unit/level	Material	L x W x T	Weight (gm)	Number	Type
1	1/10-20	Asphaltum		3.3	4	Basket impres.
2	1W/30-40	Bone	---------	1.9	5	Faunal remains
3	1W/20-30	Shell	0.7x0.7x0.2	0.2	3	Beads
4	1W/30-40	Asphaltum	----------	1.7	1	Basket impres.
5	1W/40-50	Asphaltum	----------	12.6	1	Basket impres.
6	2/0-10	Asphaltum	----------	7.6	1	Basket impres.
7	2/10-20	Wood	---------	---------	1	Match
8	2/20-sterile	Bone	16.2x2.4x1.2	24.7	1	Awl
9	2/20-sterile	Bone	---------	2.1	1	Faunal remains
10	2/20-sterile	Shell	9.6x5.9x0.5*	22.1	1	Pendant
11	2/20-sterile	Asphaltum	----------	0.3	1	Basket impres.
12	2/20-sterile	Wood	---------	---------	1	Match
13	2/20-sterile	Bone	---------	1.5	1	Faunal remains
14	1W/20-30	Asphaltum	----------	2.7	4	Chunk
15	2W/10-20	Bone	---------	27.4	6	Faunal remains
16	2W/20-30	Steatite	5.4x4.2x4.5*	58.9	1	Bowl
17	2W/20-30	Shell & bone	---------	5.1	22	Faunal remains
18	2W/30-40	Asphaltum	----------	4.3	4	Basket impres.
19	2W/30-40	Shell	---------	4.2	1	Fragments
20	2W/30-40	Steatite	4.9x3.9x2.2	75.6	1	Straightener
21	3/0-10	Metal	---------	---------	1	Strap
22	3/10-sterile	Plastic	---------	---------	---------	Sheet frags
23	3W/20-30	Bone	---------	16.9	1	Faunal remains

TABLE 8: CA-LAN-2133 LITHIC TOOLS & MISCELLANEOUS ARTIFACTS

Cat.#/2133	Unit/level	Material	Description/type
GROUNDSTONE TOOLS:			
68	5/50-60	Schist	Type 4B mano
87	5/80-90	Sandstone	Pestle fragment
108	6/80-90	Sandstone	Type 4B mano
109	6/80-90	Schist	Mano or plaque fragment
111	6/50-60	Sandstone	Pestle fragment
125	10/20-30	Sandstone	Type 4A mano
148	13/50-60	Sandstone	Pestle
174	3/50-60	Sandstone	Untypable metate fragment
175	3/70-80	Quartzite	Untypable mano fragment
176	3/70-80	Quartzite	Type 4B mano
190	20/40-50	Quartzite	Untypable mano fragment
250	9/30-40	Sandstone	Type 4B mano fragment
CORE/COBBLE COMPLEX TOOLS:			
188	18/40-50	Quartzite	Type 2A hammerstone
189	19/50-60	Meta-volcanic	Biface chopper
FLAKED STONE TOOLS:			
11	1/60-70	Chert	Biface edge
29	2/50-60	Chert	Projectile point tip
177	3/90-100	Quartzite	Uniface edge
185	18/0-10	Chert	Biface mid-section fragment
186	18/20-30	Quartz	Biface edge
MISCELLANEOUS ARTIFACTS:			
47	3/50-70	Bone	Awl tip
70	5/60-70	Steatite	Disk bead fragment
193	6/80-90	Bone	Awl tip

TABLE 9: CA-LAN-2133 DEBITAGE

Cat.#/2133	Unit/level	Material	#/Wt. (gms)	Type
1	1/0-10	Chert	1/0.9	P-1
2	1/10-20	Quartzite	1/22.9	P-1
3	1/20-30	Chert	3/4.6	P-1, S-2
4	1/30-40	Chert	2/2.1	P-2
6	1/40-50	Chert	3/1.3	S-2, T-1
		Quartzite	1/0.1	T-1
		Fused Shale	1/0.2	T-1
8	1/50-60	Fused shale	1/0/1	T-1
10	1/60-70	Chert	1/0.1	T-1
		Fused shale	1/0.1	T-1
13	1/70-80	Chert	3/10.4	P-1, AS-2
15	1/80-90	Chert	1/0.1	T-1
18	1/100-110	Chert	2/3.5	P-1, S-1
20	2/0-10	Chert	4/9.7	P-1, S-1, T-2
		Fused shale	1/1.7	S-1
22	2/10-20	Chert	2/1.3	P-1, S-1
		Fused shale	1/0.1	T-1
		Obsidian	1/0.1	T-1
23	2/20-30	Fused shale	3/0.3	T-3
24	2/30-40	Chert	4/19.0	P-3, S-1
		Fused shale	3/0.5	T-3
		Quartzite	1/0.1	T-1
26	2/40-50	Chert	5/6.1	S-4, T-1
		Fused shale	1/0.1	T-1
28	2/50-60	Fused shale	3/5.0	P-1, T-1, BTF-1
		Chert	2/1.0	S-1, AS-1
30	2/60-70	Chert	1/0.2	S-1
		Fused shale	5/0.4	T-5
		Obsidian	1/0/1	T-1
33	2/90-100	Chert	1/0.5	S-1
35	2/100-110	Chert	3/7.7	P-1, S-1, AS-1
		Fused shale	2/1.7	P-1, T-1
37	3/0-10	Chert	10/53.4	P-2, S-2, T-1, AS-5
		Fused shale	9/1.4	S-1, T-9
39	3/10-20	Chert	11/26.3	P-4, S-3, T-2, AS-2
		Fused shale	6/2.5	S-2, T-4
41	3/20-30	Chert	5/2.4	S-2, T-2, AS-1
		Fused shale	3/1.5	P-1, S-2
		Quartzite	1/2.1	P-1
43	3/30-40	Chert	6/7.5	S-2, T-3, AS-1
45	3/40-50	Chert	12/19.4	S-4, T-6, AS-2
		Fused shale	3/0.2	T-3

TABLE 9: CA-LAN-2133 DEBITAGE

47	3/50-60	Fused shale	12/3.6	S-1, T-11	
		Chert	26/13.2	P-3, S-3, T-17, AS-17	
48	3/70-80	Chert	4/1.3	S-2, T-2	
		Fused shale	9/0.6	T-9	
		Quartzite	2/11.4	S-2	
		Obsidian	1/0.3	AS-1	
52	3/90-100	Chert	3/5.1	P-2, AS-1	
		Quartzite	1/4.5	P-1	
54	3/100-110	Chert	8/1.2	T-8	
56	3/110-120	Chert	2/2.5	S-1, AS-1	
		Obsidian	1/0.1	T-1	
		Fused shale	1/0.9	T-1	
58	3/120-130	Chert	5/3.2	S-3, T-2	
		Fused shale	1/0.1	T-1	
60	5/10-20	Chert	6/14.3	P-2, T-2, AS-2	
		Quartzite	2/5.1	S-2	
62	5/20-30	Chert	5/7.9	P-1, S-1, T-2, AS-2	
		Fused shale	5/1.2	T-4, BTF-1	
64	5/30-40	Fused shale	10/1.3	S-1, T-9	
		Metavolcanic	2/16.8	P-2	
		Quartzite	1/0.4	S-1	
65	5/40-50	Chert	20/12.9	P-2, S-5, T-11, BTF-1, AS-1	
		Metavolcanic	4/90.4	P-2, S-2	
		Quartzite	2/0.4	T-2	
		Obsidian	1/0.1	T-1	
		Fused shale	6/1.5	S-2, T-4	
67	5/50-60	Chert	11/13.2	P-3, S-1, T-2, AS-5	
		Quartzite	2/19.2	P-2	
		Metavolcanic	6/9.5	P-3, S-3	
		Fused shale	4/0.4	T-4	
70	5/60-70	Chert	21/13.7	S-9, T-10, AS-2	
		Fused shale	3/0/2	T-3	
		Metavolcanic	2/11.1	AS-2	
		Quartzite	2/40.9	P-2	
72	5/70-80	Metavolcanic	2/37.9	S-1, AS-1	
		Quartzite	3/14.6	P-3	
		Fused shale	2/0.3	T-3	
		Chert	14/10.3	P-1, S-4, T-5, AS-3	
86	5/80-90	Chert	23/14.7	S-6, T-11, AS-6	
		Fused shale	10/4.4	S-1, T-9	
		Quartzite	2/0.5	T-2	
		Metavolcanic	4/43.5	S-3, AS-1	
		Obsidian	1/0.1	T-1	

TABLE 9: CA-LAN-2133 DEBITAGE

89	5/90-100	Chert	12/11.9	S-2, T-7, As-3
		Fused shale	5/2.6	S-1, T-4
		Quartzite	3/73.9	S-2, T-1
		Metavolcanic	5/14.5	S-2, As-3
91	6/0-10	Chert	4/3.1	S-2, T-2
		Quartzite	1/12.4	P-1
93	6/10-20	Chert	6/4.4	S-4, T-2
		Quartzite	1/6.0	P-1
95	6/20-30	Chert	7/3.4	S-3, T-4
97	6/30-40	Chert	2/36.7	T-1, As-1
		Metavolcanic	1/1.3	S-1
		Fused shale	1/0.2	T-1
99	6/40-50	Chert	1/0.7	S-1
		Fused shale	7/5.3	P-2, T-5
101	6/50-60	Chert	4/0.7	T-4
		Fused shale	2/0.7	S-1, T-1
102	6/60-70	Chert	6/2.1	S-2, AS-4
		Fused shale	1/1.1	T-1, AS-1
		FG volcanic	1/78.9	C-1
105	6/70-80	Chert	8/16.2	P-1, T-6, AS-1
		Fused shale	4/0.8	T-4
107	6/80-90	Fused shale	1/0.1	T-1
		Chert	5/9.4	S-1, T-4
109	6/90-100	Chert	3/0.3	T-3
		Metavolcanic	2/77.6	P-1, AS-1
		Fused shale	1/0.1	T-1
		Quartzite	1/3.4	AS-1
178	7/50-60	Chert	3/19.1	T-2, AS-1
		Fused shale	1/0.1	T-1
181	7/60-70	Chert	1/3.3	S-1
183	7/70-80	Chert	2/5.8	T-1, AS-1
73	8/0-10	Chert	1/1.1	S-1
		Fused shale	3/0.2	T-3
75	8/10-20	Chert	5/10.0	S-3, AS-2
76	8/20-30	Chert	5/3.6	S-1, T-3, AS-1
		Fused shale	2/0.5	T-2
		Metavolcanic	2/11.0	S-1, AS-1
78	8/30-40	Chert	4/2.7	P-1, S-1, T-1, AS-1
		Fused shale	5/3.6	S-1, T-4
80	8/40-50	Chert	4/4.4	P-1, S-1, T-2
		Fused shale	1/0.1	T-1
		Metavolcanic	2/38.6	P-1, T-1
82	8/50-60	Metavolcanic	1/25.2	P-1

TABLE 9: CA-LAN-2133 DEBITAGE

		Chert	3/11.1	P-1, S-2	
84	8/60-70	Metavolcanic	3/3.3	S-2, T-1	
		Fused shale	2/0.2	T-2	
112	9/10-20	Chert	1/0.8	P-1	
114	9/20-30	Chert	2/1.6	P-1, T-1	
		Fused shale	1/0.2	T-1	
116	9/30-40	Chert	3/1.8	T-1, AS-2	
		Fused shale	3/2.7	T-2, AS-1	
117	9/40-50	Chert	3/0.9	T-3	
		Fused shale	2/0.3	T-2	
		Quartzite	1/0.2	T-1	
		Metavolcanic	1/0.2	T-1	
118	9/50-60	Chert	4/5.3	P-2, S-1, T-1	
		Fused shale	2/0.4	T-1, AS-1	
120	10/0-10	Chert	3/2.1	P-1, T-2	
122	10/10-20	Chert	5/4.4	S-1, T-1, AS-2	
		Metavolcanic	1/3.3	S-1	
		Quartzite	1/0.3	T-1	
		Quartz	1/3.7	S-1	
124	10/20-30	Chert	6/3.8	T-3, AS-3	
		Metavolcanic	2/1.8	P-1, T-1	
		Fused shale	1/0.2	T-1	
		Obsidian	1/0.1	T-1	
127	10/30-40	Fused shale	3/0.5	T-3	
		Metavolcanic	1/0.7	S-1	
		Obsidian	1/0.2	T-1	
129	100/40-50	Chert	3/3.5	S-2, T-1	
		Fused shale	1/0.1	T-1	
		Quartzite	!/0.2	T-1	
132	10/50-60	Chert	3/1.3	T-2, AS=1	
		Fused shale	1/0.1	T-1	
		Quartzite	1/10.4	P-1	
133	11/0-10	Chert	1/0.6	S-1	
		Fused shale	1/0.3	T-1	
134	11/10-20	Chert	2/2.4	T-1, AS-1	
		Fused shale	2/0.2	T-2	
136	11/20-30	Fused shale	1/0.4	T-1	
137	11/30-40	Chert	1/0.4	AS-1	
		Fused shale	2/3.3	S-1, T-1	
138	11/50-60	Chert	3/0.7	T-3	
		Fused shale	1/0.4	T-1	
140	11/60-70	Fused shale	2/0.2	T-2	
142	12/0-10	Fused shale	1/0.1	T-1	

TABLE 9: CA-LAN-2133 DEBITAGE

144	12/30-40	Chert	1/3.0	S-1	
145	12/40-50	Chert	3/26.6	S-2, AS-1	
147	12/50-60	Chert	1/0.1	T-1	
162	14/0-10	Chert	2/1.6	AS-2	
165	14/10-20	Chert	1/0.1	AS-1	
		Quartzite	1/7.1	P-1	
167	14/20-30	Chert	3/0.5	T-3	
		Fused shale	1/0.1	T-1	
		Metavolcanic	1/8.0	S-1	
169	14/30-40	Metavolcanic	1/4.5	S-1	
		Chert	1/0.1	T-1	
170	14/40-50	Chert	2/20.4	AS-2	
		Fused shale	2/1.0	T-2	
173	14/50-60	Metavolcanic	1/1.4	S-1	
		Quartz	1/0.5	T-1	
149	15/0-10	Chert	2/0.4	T-2	
		Fused shale	1/1.1	T-1	
150	15/10-20	Chert	2/1.0	T-2	
158	15/30-40	Chert	1/0.9	S-1	
160	15/50-60	Chert	1/0.6	T-1	
161	15/70-80	Chert	1/2.2	AS-1	
152	16/0-10	Chert	2/0.7	T-2	
		Fused shale	1/0.1	T-1	
153	16/20-30	Chert	3/2.4	T-2, AS-1	
155	16/20-30	Chert	1/0.1	T-1	
		Fused shale	1/0.1	T-1	
157	16/30-40	Chert	2/0.9	S-1, T-1	
208	16/40-50	Chert	2/6.1	P-1, T-1	
		Fused shale	1/0.2	BTF-1	
		Quartzite	2/1.4	S-1, T-1	
210	16/50-60	Chert	4/2.7	T-2, AS-2	
		Fused shale	1/0.1	T-1	
		Quartzite	2/6.5	S-1, T-1	
212	16/60-70	Chert	3/46.5	T-1, AS-1, C-1	
		Metavolcanic	2/1.1	T-2	
		Quartzite	2/120.2	T-1, C-1	
		Fused shale	5/0.5	T-4, BTF-1	
214	16/70-80	Chert	2/6.9	S-1, T-1	
		Fused shale	1/0.1	T-1	
216	17/10-20	Chert	4/2.9	S-3, T-1	
		Metavolcanic	2/3.1	S-1, T-1	
		Quartzite	1/3.2	S-1	
		Fused shale	2/0.3	T-2	

TABLE 9: CA-LAN-2133 DEBITAGE

		Quartz	1/0.1	T-1
218	17/20-30	Chert	2/0.4	T-2
		Metavolcanic	2/16.0	P-2
		Fused shale	2/2.2	S-1, T-1
220	17/30-40	Chert	1/1.3	AS-1
		Fused shale	2/0.4	T-2
223	17/60-70	Chert	4/1.3	T-4
		Fused shale	2/0.4	T-2
		Metavolcanic	1/0.8	S-1
224	18/0-10	Chert	3/0.9	T-3
		Metavolcanic	1/3.9	P-1
		Fused shale	1/0.2	T-1
227	18/10-20	Chert	4/0.5	T-4
		Fused shale	1/0/1	T-1
229	18/20-30	Chert	4/11.1	S-1, T-1, AS-2
		Fused shale	1/0.1	T-1
187	18/30-40	Chert	5/4.1	S-2, T-3
		Quartz	1/0.1	T-1
232	18/40-50	Chert	3/1.9	S-2, T-1
		Fused shale	3/0.5	T-3
233	18/50-60	Fused shale	3/0.3	T-3
196	19/0-10	Chert	2/2.2	S-1, T-1
		Quartz	1/0/4	T-1
197	19/10-20	Quartzite	2/3.4	S-1, T-1
		Fused shale	1/0.1	T-1
		Obsidian	1/0.1	T-1
199	19/20-30	Chert	1/0.7	S-1
201	19/30-40	Chert	3/5.9	P-1, T-1, AS-1
		Metavolcanic	1/1.6	S-1
203	19/40-50	Chert	3/4.1	S-2, T-1
		Fused shale	3/1.0	T-3
		Quartzite	1/0.3	T-1
206	19/50-60	Chert	2/10.4	S-1, AS-1
		Metavolcanic	2/1.5	S-1, AS-1
		Fused shale	6/3.3	S-2, T-4
		Quartz	1/0.1	T-1
236	20/0-10	Chert	4/3.6	S-2, T-2
		Fused shale	1/0.1	T-1
238	20/10-20	Chert	4/16.1	S-2, AS-2
		Fused shale	3/0.5	T-1, AS-2
241	20/20-30	Chert	8/15.1	P-1, T-2, AS-5
243	20/30-40	Chert	1/7.5	AS-1
		Metavolcanic	1/2.1	S-1

TABLE 9: CA-LAN-2133 DEBITAGE

245	20/40-50	Chert	3/18.6	S-2, AS-1	
247	20/50-60	Chert	3/2.0	S-2, T-1	
		Fused shale	1/1.6	AS-1	
KEY:					
P - Primary	S- Secondary	T - Tertiary	AS - Angular shatter		
BTF - Biface thinning flake		C - Core			

TABLE 10: CA-LAN-2133 FAUNAL REMAINS

Cat.#/2133	Unit/level	#/Wt. (gms)	Description
5	1/40-50	11/1.2	Small mammal (some modern)
		3/0.2	Medium mammal
		2/1.2	Large mammal (shaft fragments)
7	1/50-60	5/0.4	Small mammal (some modern)
		2/0.2	Medium mammal
		1/2.7	Large mammal (shaft fragment)
9	1/60-70	4/0.4	Small mammal
12	1/70-80	17/2.2	Small mammal (some modern)
		1/0.6	Medium mammal
14	1/80-90	2/0.6	Medium mammal
16	1/90-100	18/2.7	Small mammal (some modern)
		2/0.6	Medium mammal
		3/1.6	Large mammal (shaft fragments)
		2/0.3	Bird
17	1/100-110	3/0.3	Small mammal
		2/0.5	Medium mammal
		3/4.2	Lg mammal (shaft & immature vert frags)
19	1/110-120	17/2.1	Small mammal (shaft fragments)
		1/0.4	Large mammal (shaft fragments)
21	2/10-20	3/1.2	Large mammal (shaft fragments)
25	2/40-50	1/0.2	Small mammal
		4/1.2	Medium mammal
		2/0.9	Large mammal
		2/0.8	Bird
27	2/50-60	2/0.4	Small mammal
		3/0.7	Large mammal (1 tooth & 1 burnt shaft frags)
32	2/90-100	2/0.7	Large mammal (shaft fragments)
34	2/100-110	1/1.9	Large mammal (burnt shaft frags)
36	3/0-10	2/0.8	Large mammal (shaft fragments)
		12/0.5	Unidentifiable (pulverized)
38	3/10-20	7/1.1	Small mammal
		2/0.9	Large mammal (shaft fragments)
40	3/20-30	4/0.8	Small mammal
		1/0.4	Medium mammal
		5/2.1	Large mammal (shaft fragments)
		3/1.1	Unidentifiable
42	3/30-40	15/2.2	Small mammal
		4/0.8	Medium mammal
		3/1.7	Large mammal (shaft fragments)
		5/1.0	Unidentifiable
44	3/40-50	136/9.9	Small mammal (some modern)
		8/9.9	Large mammal

TABLE 10: CA-LAN-2133 FAUNAL REMAINS

		2/0.7	Bird
46	3/50-70	267/2.1	Small mammal (some modern, some burnt)
		21/0.9	Large mammal (shaft fragments)
		3/0.9	Bird
49	3/80-90	22/5.2	Small mammal (some burnt)
		2/2.2	Large mammal (shaft fragments)
51	3/90-100	22/1.9	Small mammal (some burnt)
		3/3.1	Large mammal (shaft fragments)
53	3/100-110	10/0.4	Small mammal
		6/4.2	Large mammal
		3/1.1	Bird
55	3/110-120	14/3.4	Small mammal (some burnt)
		4/1.9	Large mammal (shaft fragments)
57	3/120-130	19/3.7	Small mammal (some burnt)
		6/4.2	Medium mammal (burnt)
59	5/10-20	2/0.9	Large mammal
61	5/20-30	2/0.4	Large mammal
63	5/30-40	3/0.8	Large mammal
66	5/40-50	5/6.9	Large mammal (shaft & epiphysis fragments)
71	5/70-80	2/0.3	Unidentifiable
85	5/80-90	5/2.8	Large mammal
		1/0.4	Medium mammal
		2/0.2	Unidentifiable
88	5/90-100	3/0.2	Medium mammal
90	6/0-10	1/0.1	Unidentifiable
92	6/10-20	6/0.3	Small mammal
		2/0.5	Large mammal (shaft fragments)
94	6/20-30	5/3.3	Large mammal
		3/0.6	Unidentifiable
96	6/30-40	1/0.2	Unidentifiable
98	6/40-50	5/0.6	Small mammal
100	6/50-60	2/1.7	Large mammal
		14/1.8	Small mammal
103	6/60-70	29/4.4	Small mammal
		5/1.8	Medium mammal (shaft & canine tooth frags)
104	6/70-80	20/2.1	Small mammal
		3/1.2	Large mammal (shaft fragments)
		3/1.1	Bird
106	6/80-90	33/3.4	Small mammal
		2/0.8	medium mammal
		2/0.6	Bird
110	6/90-100	10/1.9	Small mammal
		3/0.9	Large mammal (shaft fragments)

TABLE 10: CA-LAN-2133 FAUNAL REMAINS

179	7/50-60	4/0.4	Small mammal
		3/3.9	Large mammal
180	7/60-70	6/0.8	Small mammal
		2/0.5	Medium mammal
182	7/70-80	1/0.3	Medium mammal
		1/0.4	Large mammal
184	7/80-90	2/0.3	Small mammal
74	8/10-20	1/1.6	Large mammal
77	8/20-30		
79	8/40-50	4/0.4	Small mammal (some burnt)
81	8/50-60	1/0.2	Small mammal
		1/1.1	Large mammal
		1/0.8	Bird
83	8/60-70	2/0.5	Bird
113	9/20-30	1/0.3	Large mammal (shaft fragments)
115	9/30-40	1/0.2	Clemmys marmorata scute
119	9/50-60	1/0.1	Small mammal
		2/0.3	Medium mammal
121	10/10-20	2/0.7	Large mammal
123	10/20-30	1/0.1	Small mammal
126	10/30-40	6/0.3	Small mammal (some modern)
128	10/40-50	4/0.4	Small mammal
		1/0.3	Medium mammal
131	10/50-60	8/1.6	Small mammal (some burnt)
135	11/10-20	2/0.3	Small mammal
139	11/60-70	1/0.1	Small mammal
141	12/0-10	1/1.1	Small mammal (prob. modern, cranial frags)
143	12/30-40	1/0.1	Small mammal (prob. modern)
146	12/50-60	2/4.7	Large mammal
163	14/0-10	1/0.4	Large mammal (burnt)
164	14/10-20	3/0.9	Large mammal (burnt)
166	14/20-30	2/0.2	Small mammal
		1/0.2	Medium mammal (burnt)
168	14/30-40	2/0.2	Small mammal
		1/0.3	Medium mammal (burnt)
		1/0.2	Unidentifiable
171	14/40-50	1/0.1	Small mammal
		2/1.5	Large mammal (burnt)
		1/0.1	Clemmys marmorata scute
172	14/50-60	3/0.3	Small mammal
194	14/60-70	2/0.2	Small mammal (prob. modern)
		1/2.5	Large mammal (burnt shaft frags)
159	15/40-50	1/1.2	Large mammal

TABLE 10: CA-LAN-2133 FAUNAL REMAINS

151	16/0-10	1/0.5	Medium mammal (burnt)
154	16/20-30	10/0.3	Small mammal
		1/0.4	Large mammal (shaft fragments)
207	16/40-50	5/0.7	Small mammal
		2/1.3	Large mammal
		2/0.5	Unidentifiable
209	16/50-60	10/1.9	Small mammal (some modern, some burnt)
		3/0.8	Medium mammal
		4/2.6	Large mammal (shaft frags, some burnt)
211	16/60-70	56/6.4	Small mammal (some burnt, some modern)
		6/6.5	Large (some burnt, shaft frags)
213	16/70-80	22/2.6	Small mammal (some burnt, some modern)
		7/5.4	Large mammal (some burnt)
215	17/10-20	1/0.1	Small mammal
		1/1.3	Large mammal (shaft fragment)
217	17/20-30	4/6.7	Large mammal (burnt shaft frags)
		1/0.2	Bird
219	17/30-40	1/0.4	Medium mammal (burnt shaft fragment)
221	17/40-50	2/0.8	Large mammal (shaft fragments)
222	17/60-70	11/1.3	Small mammal (some modern, some burnt)
		4/3.2	Large mammal (unfused long-bone articulation)
225	18/0-10	3/1.4	Large mammal (shaft fragments)
226	18/10-20	3/0.6	Small mammal (prob. modern)
		1/0.4	Large mammal (shaft fragment)
		1/0.2	Unidentifiable
228	18/20-30	3/0.2	Small mammal
230	18/30-40	3/0.2	Small mammal
		1/0.2	Unidentifiable
231	18/40-50	3/0.8	Large mammal (shaft fragments)
233	18/50-60	1/0.1	Small mammal
		1/1.1	Unidentifiable
195	19/0-10	3/0.3	Small mammal
198	19/10-20	1/0.1	Small mammal
200	19/30-40	2/0.7	Medium mammal (shaft & cranial frags)
		2/1.9	Large mammal (shaft fragments)
202	19/40-50	3/0.4	Small mammal
		3/9.4	Lg mammal (burnt cannon bone articulation frag
205	19/50-60	6/0.7	Small mammal (prob. modern)
		1/5.4	Large mammal (burnt distal tibia frag)
235	20/0-10	1/0.1	Small mammal
237	20/10-20	1/0.1	Small mammal
240	20/20-30	1/0.1	Small mammal
242	20/30-40	2/0.5	Large mammal (shaft fragments)

TABLE 10: CA-LAN-2133 FAUNAL REMAINS

244	20/40-50	1/0.2	Small mammal		
246	20/50-60	1/0.3	Small mammal		
		1/0.5	Large mammal (shaft fragments)		

TABLE 11: CA-LAN-2133 SHELLFISH REMAINS

Cat.#/2133	Unit/level	#/Wt (gm)	Description
25	2/40-50	1/1.7	Conus californicus
		1/0.1	Unidentifiable
38	3/10-20	1/0.1	Unidentifiable
42	3/10-20	1/0.1	Unidentifiable
44	3/40-50	1/0.1	Unidentifiable
46	3/50-60	3/0.3	Unidentifiable
179	7/50-60	3/0.5	Unidentifiable

TABLE 12: CA-LAN-2235 ARTIFACTS

Cat.#/2235	Unit/level	Material	Description/type
GROUNDSTONE TOOLS			
20	8/30-40	Quartzite	Type 4B mano fragment
21	8/40-50	Quartzite	Type 3C mano fragment
30	9/30-40	Metavolcanic	Type 3B mano fragment
CORE/COBBLE COMPLEX TOOLS			
84	8/20-30	Metavolcanic	Type 3 hammerstone
FLAKED STONE TOOLS			
89	Surface	Metavolcanic	Utilized flake
82	3/20-30	Chert	Atlatl point, leaf-shaped
83	8/10-20	Chert	Uniface edge
86	9/60-70	Chert	Uniface edge
87	10/0-10	Chert	Arrow point, Rose Spring
88	10/70-80	Chert	Biface fragment
MISCELLANEOUS ARTIFACTS			
81	12/40-50	Bone	Awl tip

TABLE 13: CA-LAN-2235 DEBITAGE

Cat.#/2235	Unit/level	Material	#/Wt. (gms)	Type	
56	1/0-10	Chert	1/3.1	S-1	
57	1/10-20	Chert	2/1.6	S-2	
2	1/40-50	Chert	3/6.4	S-2, T-1	
4	2/0-10	Chert	1/0.6	T-1	
5	2/10-20	Chert	2/1.2	T-1, AS-1	
		Metavolcanic	1/0.3	T-1	
6	2/20-30	Quartzite	1/15.1	S-1	
7	2/30-40	Chert	2/0.9	T-2	
		Metavolcanic	1/0.7	T-1	
59	3/0-10	Chert	3/8.8	S-2, AS-1	
8	3/20-30	Chert	4.3.4	S-1, T-2, AS-1	
9	3/30-40	Chert	8/16.4	S-1, T-5, AS-1	
10	3/40-50	Chert	1/0.4	T-1	
11	3/50-60	Chert	2/1.9	S-1, T-1	
12	3/60-70	Chert	3/4.3	T-1. AS-2	
64	6/0-10	Fused shale	1/1.7	S-1	
65	6/10-20	Chert	1/2.8	P-1	
13	6/20-30	Chert	3/15.9	P-1, S-2	
		Obsidian	1/0.2	T-1	
14	6/30-40	Chert	1/1.4	P-1	
16	6/60-70	Chert	3/2.1	3/2.1	S-1, T-2
		Metavolcanic	1/0.9	P-1	
67	8/0-10	Chert	5/5.6	P-1, T-4	
		Quartz	1/0.1	T-1	
17	8/10-20	Chert	2/4.7	S-1, T-1	
18	8/20-30	Chert	6/13.4	P-1, S-3, T-2	
19	8/30-40	Chert	7/10.4	S-3, T-4	
22	8/40-50	Chert	8/17.3	S-3, T-3, AS-2	
		Metavolcanic	2/2.1	S-1, T-1	
23	8/50-60	Chert	6/10.1	S-2, T-2, AS-2	
		Metavolcanic	1/10.1	S-1	
24	8/60-70	Chert	5/11.2	S-2, T-1, AS-1	
		Quartzite	2/12.0	S-1, T-1	
25	8/70-80	Chert	4/16.3	S-2, T-1, AS-1	
26	9/0-10	Chert	2/2.4	S-1, T-1	
27	9/10-20	Obsidian	1/0.4	T-1	
		Chert	10/11.4	P-2, S-4, T-4	
28	9/20-30	Chert	6/13.8	S-2, T-4	
29	9/30-40	Chert	4/6.7	S-2, T-1, AS-1	
32	9/40-50	Chert	7/10.0	S-3, T-3, AS-1	
33	9/50-60	Chert	3/23.7	P-1, S-2	
		Metavolcanic	1/2.2	S-1	

TABLE 13: CA-LAN-2235 DEBITAGE

34	9/60-70	Chert	14/15.2	S-4, T-8, AS-2
35	9/70-80	Chert	2/3.5	AS-2
		Metavolcanic	4/12.3	P-1, S-3
36	9/80-90	Chert	1/0.5	S-1
		Quartzite	1/1.3	S-1
		Metavolcanic	1/0.6	T-1
68	10/0-10	Chert	2/1.2	S-1, AS-1
		Fused shale	1/0.2	T-1
69	10/10-20	Chert	11/14.6	P-3, S-4, T-4
		Metavolcanic	1/0.6	T-1
70	10/20-30	Chert	7/5.4	S-3, T-4
		Metavolcanic	2/1.4	S-2
		Fused shale	2/0.9	T-2
71	10/30-40	Chert	11/9.2	P-s, S-1, T-4, AS-4
		Metavolcanic	4/6.9	P-2, S-2
		Obsidian	1/0.1	T-1
		Quartzite	2/1.2	T-2
72	10/40-50	Chert	11/7.9	S-3, T-7, AS-1
		Fused shale	2/0.8	T-2
73	10/50-60	Chert	12/21.7	S-3, T-6, AS-3
		Metavolcanic	2/2.2	S-1, T-1
		Quartzite	1/2.1	S-1
		Obsidian	2/0/2	T-2
74	10/60-70	Chert	6/6.1	S-1, T-3, AS-3
		Metavolcanic	2/0.5	T-2
		Quartzite	1/6.0	S-1
		Obsidian	1/0.4	AS-1
75	10/70-80	Chert	1/0.3	T-1
		Fused shale	1/0.1	T-1
37	11/0-10	Quartzite	2/72.1	P-1, AS-1
38	11/10-20	Chert	16/53.6	P-3, S-3, T-9, AS-1
39	11/20-30	Chert	7/15.0	P-1, T-5, AS-1
		Metavolcanic	3/6.4	P-1, S-2
41	11/30-40	Chert	9/2.8	S-3, T-6
		Obsidian	1/0.9	T-1
		Quartzite	1/0.4	T-1
43	11/40-50	Chert	8/7.9	S-2, T-4, AS-2
44	11/60-70	Chert	12/21.3	S-4, T-6, AS-2
48	11/70-80	Chert	13/13.8	S-5, T-8
		Metavolcanic	1/3.1	S-1
		Quartzite	2/4.8	S-1, T-1
50	11/80-90	Chert	15/6.9	P-1, S-2, T-10, AS-2
		Metavolcanic	1/2.1	S-1

TABLE 13: CA-LAN-2235 DEBITAGE

53	11/90-100	Chert	10/5.1	S-1, T-9	
		Metavolcanic	1/3.1	P-1	
55	11/100-110	Chert	1/2.1	S-1	
76	12/0-10	Chert	5/9.9	P-1, S-3, T-1	
		Quartzite	1/1.2	S-1	
		Metavolcanic	1/1.5	S-1	
77	12/0-10	Chert	9/30.0	P-1, S-2, T-5, AS-1	
78	12/20-30	Chert	9/7.0	S-2, T-7	
79	12/30-40	Chert	2/5.4	S-1, AS-1	
80	12/40-50	Chert	2/4.1	S-2	
KEY:					
P - Primary	S - Secondary	T- Tertiary	AS - Angular shatter		

TABLE 14: CA-LAN-2235 FAUNAL REMAINS

Cat.#/2235	Unit/level	#/Wt. (gms)	Description
58	1/20-30	1/0.1	Small mammal
1	1/40-50	1/0.4	Large mammal
61	5/0-10	2/0.3	Large mammal (weathered & burnt)
62	5/10-20	1/0.1	Small mammal
63	5/10-20	1/0.8	Large mammal (skull fragment)
40	11/20-30	3/0.3	Unidentifiable
42	11/30-40	2/0.2	Small mammal
45	11/50-60	7/1.5	Large mammal (weathered shaft fragments)
47	11/60-70	1/0.1	Small mammal
		1/0.3	Unidentifiable
49	11/70-80	1/0.1	Small mammal
51	11/80-90	2/0.4	Large mammal (weathered & burnt)
		3/0.3	Unidentifiable
52	11/90-100	1/0.3	Large mammal
54	11/100-110	2/0.4	Large mammal (burnt)

TABLE 15: CA-LAN-2234 ARTIFACTS

Cat.#/2234	Unit/level	Material	Description/type
28	3/20-30	Chert	Biface drill
7	2/10-20	Shell	Haliotis bead, square
29	6/0-10	Bone	Awl tip, burnt
30	SA #1	Quartzite	Pestle fragment

TABLE 16: CA-LAN-2234 DEBITAGE

Cat.#/2234	Unit/level	Material	#/Wt. (gms)	Type
2	1/10-20	Fused shale	2/0.3	T-2
3	1/20-30	Fused shale	1/0.2	T-1
4	1/30-40	Chert	2/1.1	T-2
6	1/50-60	Chert	1/0.4	P-1
8	3/0-10	Fused shale	1/5.6	AS-1
9	3/10-20	Chert	3/2.6	S-2, T-1
10	3/20-30	Fused shale	1/0.1	T-1
11	3/30-40	Chert	1/0.1	T-1
13	4/0-10	Chert	4/1.5	P-1, T-3
		Fused shale	1/0.1	T-1
14	4/10-20	Chert	3/0.4	T-2, AS-1
15	4/20-30	Chert	2/1.7	S-1, T-1
18	5/0-10	Fused shale	1/0/1	T-1
19	5/10-20	Fused shale	1/0.3	AS-1
21	6/0-10	Chert	5/9.1	S-2, T-3
23	6/10-20	Metavolcanic	1/1.0	S-1
		Chert	1/0.2	T-1
24	6/20-30	Chert	1/0.1	T-1
25	6/30-40	Chert	1/2.1	S-1
		Metavolcanic	1/1.4	S-1
26	6/40-50	Chert	1/0.5	T-1
		Metavolcanic	1/2.6	S-1
		Quartzite	1/9.6	S-1
27	9/0-10	Obsidian	1/0.1	T-1
KEY:				
P - Primary	S - Secondary	T - Tertiary	AS - Angular shatter	

TABLE 17: CA-LAN-2234 FAUNAL REMAINS

Cat.#/2234	Unit/level	#/Wt. (gms)	Description
1	1/0-10	1/0.4	Large mammal (burnt shaft fragment)
5	1/50-60	1/0.3	Large mammal
12	4/0-10	1/0.3	Large mammal (burnt shaft fragment)
22	4/10-20	1/0.3	Large mammal
16	4/20-30	1/0.4	Medium mammal
17	5/0-10	1/0.6	Large mammal (burnt shaft fragment)
20	6/0-10	2/0.2	Small mammal

TABLE 18: CA-LAN-2233 ARTIFACTS

Cat.#/2233	Unit/level	Material	Description/type
GROUNDSTONE TOOLS			
71	7/30-40	Quartzite	Pestle fragment
79	8/40-50	Quartzite	Type 3A mano
97	8/130-140	Quartzite	Type 7 mano
113	9/30-40	Metavolcanic	Type 3A mano
115	9/40-50	Quartzite	Type 4B mano
135	11/80-90	Quartzite	Type 4B mano
144	11/110-120	Quartzite	Untypable mano fragment
CORE/COBBLE COMPLEX TOOLS			
44	7/50-60	Quartzite	Type 2A hammerstone
FLAKED STONE TOOLS			
160	1/20-30	Chert	Biface fragment
161	7/160-170	Chert	Biface drill fragment
162	8/20-30	Chert	Biface fragment
164	8/130-140	Chert	Bifurcate-stemmed atlatl point
MISCELLANEOUS ARTIFACTS			
131	11/50-60	Schist	Incised plaque, w/ ochre
BONE ARTIFACTS			
168	7/50-60	Bone	Awl fragment
169	7/50-60	Bone	Awl fragment
170	8/160-170		Misc. worked fragment
171	11/130-140	Bone	Misc. worked fragment

TABLE 19: CA-LAN-2233 DEBITAGE

Cat.#/2233	Unit/level	Material	#/Wt. (gms)	Type
2	1/0-10	Chert	2/0.4	P-1, S-1
4	1/10-20	Chert	1/0.5	S-1
6	1/20-30	Metavolcanic	1/7.3	S-1
7	2/10-20	Chert	3/5.7	AS-3
8	2/20-30	Chert	2/3.3	T-1, AS-1
		Obsidian	1/0.1	T-1
10	3/0-10	Fused shale	2/0.9	S-1, T-1
11	3/10-20	Chert	3/1.4	T-2, AS-1
		Fused shale	2/0.3	T-2
13	4/0-10	Chert	3/0.7	T-1, AS-2
15	4/10-20	Chert	3/1.8	S-1, T-2
17	4/20-30	Chert	5/6.2	P-1, S-1, T-3
19	4/30-40	Chert	7/5.4	S-2, T-4, AS-1
21	4/40-50	Chert	10/15.6	S-2, T-6, AS-2
		Fused shale	1/0.2	T-1
23	4/50-60	Chert	5/1.9	S-1, T-3, AS-1
25	4/60-70	Chert	1/8.4	S-1, T-1
27	4/70-80	Chert	1/0.4	T-1
29	6/10-20	Chert	1/0.4	T-1
31	6/20-30	Chert	2/0.6	T-2
33	6/30-40	Chert	5/8.3	S-2, T-2, AS-1
		Quartzite	1/0.2	T-1
35	6/40-50	Chert	6/19.8	S-2, T-2, AS-2
37	6/50-60	Chert	5/5.6	P-1, S-2, T-2
39	6/60-70	Chert	4/7.8	S-2, T-2
41	6/70-80	Chert	3/0.3	T-3
43	6/80-90	Chert	4/4.1	S-1, T-3
70	7/30-40	Chert	4/0.5	T-4
72	7/40-50	Chert	1/5.1	AS-1
46	7/50-60	Chert	2/3.6	S-1, T-1
		Metavolcanic	1/5.2	S-1
48	7/60-70	Chert	2/0.6	T-3
50	7/80-90	Quartzite	1/3.4	S-1
52	7/90-100	Fused shale	1/0.3	S-1
54	7/100-110	Chert	3/3.3	S-3
56	7/110-120	Chert	2/0.7	T-1, AS-1
52	7/90-100	Fused shale	1/0.3	S-1
54	7/100-110	Chert	3/3.3	S-3
56	7/110-120	Chert	2/0.7	T-1, AS-1
58	7/130-140	Chert	9/13.4	S-5, T-2, AS-2
60	7/140-150	Chert	9/16.8	S-6, T-3
62	7/150-160	Chert	8/15.3	S-2, T-4, AS-2
		Obsidian	1/0.1	T-1
64	7/160-170	Chert	13/5.9	S-5, T-6, AS-2

TABLE 19: CA-LAN-2233 DEBITAGE

66	7/180-190	Metavolcanic	2/5.1	S-1, T-1	
74	8/0-10	Chert	3/4.6	S-2, AS-1	
76	8/20-30	Chert	3/11.0	S-2, T1	
78	8/30-40	Chert	2/3.5	T-1, AS-1	
81	8/40-50	Chert	1/0.4	T-1	
		Fused shale	1/0.3	T-1	
83	8/50-60	Chert	1/0.3	T-1	
86	8/70-80	Chert	2/0.2	T-2	
		Fused shale	1/2.8	AS-1	
		Obsidian	1/0.1	T-1	
88	8/80-90	Chert	1/4.1	AS-1	
92	8/100-110	Chert	3/3.6	S-2, AS-1	
94	8/110-120	Chert	13/19.9	S-5, T-6, AS-2	
		Metavolcanic	7/8.6	S-6, T-1	
96	8/130-140	Chert	8/5.8	S-3, T-4, AS-2	
99	8/140-150	Chert	5/8.9	P-1, S-3, T-1	
		Metavolcanic	1/7.9	S-1	
101	8/150-160	Chert	3/4.4	S-3	
		Metavolcanic	4/12.6	P-1, S-3, T-1	
103	8/160-170	Chert	4/6.1	S-2, T-2	
		Metavolcanic	5/12.1	S-5	
104	8/170-180	Chert	!/0/1	T-1	
107	9/0-10	Chert	2/0.8	S-1, T-1	
109	9/10-20	Chert	1/20.8	P-1	
110	9/20-30	Chert	!/1.6	S-1	
112	9/30-40	Chert	1/0/1	T-1	
		Metavolcanic	1/33.1	P-1	
114	9/40-50	Chert	2/5.6	S-2	
116	9/50-60	Chert	3/29.6	AS-3	
118	9/60-70	Chert	4/6.1	S-2, T-1, AS-1	
120	9/70-80	Chert	4/4.9	S-2, T-1, AS-1	
122	9/80-90	Chert	1/0.2	T-1	
124	9/90-100	Chert	1/8.2	AS-1	
126	11/10-20	Chert	1/0.3	AS-1	
127	11/20-30	Chert	1/0.4	T-1	
128	11/40-50	Chert	2/1.4	T-2	
129	11/50-60	Chert	1/0.8	AS-1	
		Quartzite	1/5.9	S-1	
132	11/60-70	Chert	3/5.4	S-1, AS-2	
		Metavolcanic	1/0.5	T-1	
134	11/70-80	Chert	1/8.1	P-1	
137	11/80-90	Chert	4/3.2	S-1, T-3	
139	11/90-100	Chert	1/0.2	T-1	
141	11/100-110	Chert	1/5.4	AS-1	
		Metavolcanic	1/1.2	S-1	

TABLE 19: CA-LAN-2233 DEBITAGE

143	11/110-120	Chert	4/2.9	T-3, AS-1	
146	11/120-130	Chert	4/0.3	T-4	
152	11/150-160	Chert	2/4.9	P-1, S-1	
154	11/160-170	Chert	2/3.3	S-1, T-1	
155	12/0-10	Chert	2/4.9	S-1, T-1	
157	12/30-40	Chert	2/2.1	S-1, AS-1	
158	12/40-50	Chert	2/4.2	S-1, AS-1	
KEY:					
P - Primary	S - Secondary	T - Tertiary	AS - Angular shatter		

TABLE 20: CA-LAN-2233 FAUNAL REMAINS

Cat.#/2233	Unit/level	#/Wt. (gms)	Description
1	1/0-10	1/0.4	Large mammal (shaft fragment)
3	1/10-20	1/0.3	Medium mammal (shaft fragment)
5	1/20-30	6/1.1	Small mammal (prob. modern)
9	2/20-30	2/0.9	Small mammal (prob. modern)
12	4/0-10	2/0-.3	Medium mammal (burnt)
		1/0.4	Large mammal (shaft fragment)
14	4/10-20	1/0.1	Small mammal
16	4/20-30	1/0.1	Small mammal
		4/2.2	Large mammal (shaft fragments)
18	4/30-40	11/0.5	Small mammal
		4/0.6	Medium mammal (shaft fragments, burnt)
		1/0.4	Large mammal (shaft fragment)
20	4/40-50	10/1.1	Small mammal some modern)
		4/3.0	Large mammal (shaft fragments)
22	4/50-60	31/3.1	Small mammal (some modern)
		1/1.1	Medium mammal (shaft fragments)
		5/2.1	Large mammal (shaft fragments)
24	4/60-70	30/2.9	Small mammal (modern)
		1/0.4	Large mammal (shaft fragments, burnt)
26	4/70-80	3/1.1	Small mammal (prob. modern)
		2/0.9	Large mammal (shaft fragments, burnt)
		3/0.4	Unidentifiable
28	6/0-10	3/0.3	Small mammal
30	6/20-30	2/0.6	Small mammal
		2/0.6	Large mammal (shaft fragments)
32	6/30-40	3/0.5	Small mammal
34	6/40-50	5/0.9	Small mammal
		6/1.9	Large mammal
		1/0.2	Unidentifiable
36	6/50-60	19/2.4	Small mammal (prob. modern)
		2/0.6	Medium mammal (burnt)
38	6/60-70	8/0.9	Small mammal
		3/2.4	Large mammal (shaft fragments, burnt)
		5/0.8	Unidentifiable
40	6/70-80	30/1.8	Small mammal (some modern)
		7/3.1	Large mammal
42	6/80-90	23/4.6	Small mammal (some modern)
67	7/0-10	1/1.2	Large mammal
68	7/20-30	1/0.4	Medium mammal
69	7/30-40	8/0.8	Small mammal
45	7/50-60	1/0.1	Small mammal
		4/0.5	Large mammal
		2/0.2	Unidentifiable
47	7/60-70	3/0.2	Small mammal

TABLE 20: CA-LAN-2233 FAUNAL REMAINS

49	7/70-80	4/0.6	Small mammal (some burnt)
51	7/90-100	2/0.3	Small mammal
		1/0.3	Large mammal (shaft fragment)
53	7/100-110	5/0.5	Small mammal
		8/0.8	Unidentifiable
55	7/110-120	7/0.8	Small mammal
		5/3.1	Large mammal
57	7/130-140	1/0.1	Small mammal
		1/0.7	Large mammal
		2/0.4	Unidentifiable
59	7/140-150	5/0.5	Small mammal
61	7/150-160	6/0.8	Small mammal
		3/1.4	Large mammal
		8/0.8	Unidentifiable
63	7/160-170	4/0.4	Small mammal
		4/1.5	Large mammal (some burnt)
		1/0.3	Unidentifiable
65	7/170-180	1/0.1	Unidentifiable
73	8/0-10	1/0.1	Small mammal
75	8/10-20	1/0.1	Small mammal
77	8/30-40	5/0.5	Small mammal
80	8/40-50	2/1.5	Large mammal (shaft fragments)
		2/0.2	Unidentifiable
82	8/50-60	3/0.3	Small mammal
84	8/60-70	2/0.2	Small mammal
85	8/70-80	2/0.6	Large mammal (shaft fragments)
		3/0.3	Unidentifiable
87	8/80-90	4/0.4	Small mammal
		2/0.6	Medium mammal (skull fragment)
		2/0.9	Large mammal (shaft fragment)
89	8/90-100	1/0.2	Small mammal
		1/0.3	Large mammal (shaft fragment, burnt)
		1/0.1	Unidentifiable
91	8/100-110	4/0.4	Small mammal
		4/3.2	Large mammal (shaft fragment, burnt)
		13/0.9	Unidentifiable
93	8/110-120	17/1.7	Small mammal (some burnt)
			Large mammal (shaft fragments)
95	8/130-140	5/0.6	Small mammal
		3/1.1	Large mammal
		9/0.8	Unidentifiable
98	8/140-150	3/0.3	Small mammal
		4/4.4	Large mammal (shaft fragments, burnt)
		1/0.1	Unidentifiable
100	8/150-160	3/0.2	Small mammal

TABLE 20: CA-LAN-2233 FAUNAL REMAINS

		1/0.4	Medium mammal
		4/5.6	Large mammal (shaft fragments, burnt)
102	8/160-170	1/0.3	Small mammal
		1/0.5	Clemmys marmorata scute
		3/1.6	Unidentifiable
105	8/180-190	2/0.1	Small mammal
106	8/190-200	1/0.1	Small mammal
108	9/10-20	2/0.2	Small mammal
111	9/30-40	2/0.1	Small mammal
117	9/60-70	12/1.5	Small mammal
		4/4.1	Large mammal (shaft & articulated ends, burnt
119	9/70-80	9/0.9	Small mammal (some modern)
		4/1.9	Large mammal (shaft fragments, burnt)
121	9/80-90	9/0.9	Small mammal
		2/4.1	Large mammal (shaft fragments)
123	9/90-100	17/1.5	Small mammal
		2/0.8	Large mammal (shaft fragments)
125	9/100-110	5/0.4	Small mammal
130	11/50-60	5/1.1	Medium mammal
133	11/70-80	5/1.4	Medium mammal (burnt)
136	11/80-90	7/0.6	Small mammal
		6/2.1	medium mammal (burnt)
138	11/90-100	8/0.8	Small mammal (some burnt)
		6/6.2	Large mammal (some skull frags; burnt)
		2/0.2	Unidentifiable
140	11/100-110	2/0.2	Small mammal
		3/0.9	Large mammal
		10/1.5	Unidentifiable
142	11/110-120	2/0.2	Small mammal
		1/0.9	Large mammal
		3/0.7	Unidentifiable
145	11/120-130	7/0.7	Small mammal
		1/2.9	Large mammal (shaft fragments, burnt)
		3/0.5	Unidentifiable
147	11/130-140	4/0.4	Small mammal (some burnt)
		1/1.2	Large mammal
		4/0.6	Unidentifiable
149	11/140-150	3/0.2	Small mammal
		2/0.3	Large mammal (shaft fragments)
		2/0.1	Unidentifiable
151	11/150-160	2/0.2	Unidentifiable
153	11/160-170	1/0.1	Small mammal
		1/0.6	Large mammal (shaft fragment)
		2/0.2	Unidentifiable

TABLE 21: CA-LAN-2242 FAUNAL AND SHELLFISH REMAINS

Cat.#/2242	Unit/level	#/Wt. (gms)	Description
2	1W/10-20	5/1.9	Large mammal
9	2/20-sterile	1/24.0	Large mammal
15	2W/10-20	4/27.0	Large mammal
		1/0.1	Small mammal
		1/0.3	Clemmys marmorata
17	2W/20-30	10/1.6	Large mammal
		10/0.3	Small mammal
		1/0.6	Clemmys marmorata
		1/2.6	Conus californicus
19	2W/30-40	1/4.2	Pectin
23	3WW/20-30	1/16.9	Large mammal

INTRODUCTION

The following presents the results of RMW's assessment of the paleontological resources of the Newhall Ranch. The study area consists of approximately 12,000 acres of hilly terrain west of Valencia, California. A series of east - west trending ridges and valleys, which become progressively more rugged in southern portion of the property, cross the site. Several large flat terraces are present along the south side of Santa Clara River. Hillsides, terraces, and valley floors are covered by grassland or chaparral. The site is bordered on the north in part by Highway 126 and undeveloped land, on the eastside the boundary is approximately one-half mile west of Interstate 5, and on the west the boundary is the Los Angeles Ventura County line, and the southern boundary by undeveloped land (Figure 1).

METHODS

The purpose of this report is to assess the known and potential paleontological resources within the study area. Pertinent geological/paleontological literature was reviewed for this study. A records search of records was done at, the Los Angeles County Museum of Natural History, (which includes the California Institute of Technology and the University of California Berkeley Museum of Paleontology locality data). A walkover survey of the property was conducted by Mr. Dave Stevens and Mr. Rod Raschke during August 1994. During the survey natural and manmade exposures of the various rock units were examined. Our efforts were concentrated in areas likely to be developed, this was generally north of Salt Canyon. In addition to our field survey, samples from 13 horizons within the Saugus Formation were sampled and screen washed to locate microvertebrate remains. Samples were taken from several different stratigraphic levels within the formation to determine if fossils are present throughout the formation or not. Samples were taken only from the Saugus Formation, because it had the most likely sediment types to contain microvertebrate fossils and it's history of producing microvertebrates near the study area. These samples consisted of fifty to one-hundred pound samples of rock that were processed through one-eighth inch screens and 20 mesh screen after being soaked for several hours in water. All but three of the samples broke down sufficiently to be processed through the screens. The results of these efforts are discussed below.

PALEONTOLOGY and STRATIGRAPHY

The Newhall Ranch study area is underlain by rocks ranging in age from the late Miocene Epoch (approximately 8 million years B.P.) to the Recent. Newhall Ranch is at the eastern margin of the Ventura structural basin. This region was studied in detail by Winterer and Durham who published their results in 1962. We used their map as the basis for our study, because they appear to have accurately reflected the geology of the region based on our limited field observations. The pre-Quaternary rock units were deposited during the final retreat of the sea from the Ventura basin. These rock units record the transition from deep marine basin to non-marine flood plain environments over a period of several million years. The Quaternary age rock units are deposits of more recent stream, river, and runoff waters. The geologic units, in ascending order, are the Modelo Formation, Towsley Formation, the Pico Formation, the Saugus Formation, Quaternary terrace deposits, Quaternary older alluvium, and Recent alluvium/colluvium.

Modelo Formation

The Modelo Formation is exposed along the southern boundary of the study parcel. Exposures of the Modelo Formation are in an area that is to remain as open space and not subject to development. Therefore, our efforts in the area of the Modelo Formation were limited to a brief examination of natural exposures. The Modelo Formation is composed primarily of sandstones and shales and represents deposition under deeper water marine conditions. A late Miocene Epoch (12 to 8 million years ago) marine unit, the Modelo Formation is known for its fish, bird, and marine mammal fossils. Mollusks, plants, and foraminifera (microscopic animal members of the marine plankton) have also been collected from this unit. A fossil walrus was collected in Gillibrand Canyon, to the southwest of the study area in Ventura County (Lander, 1988). Fossil fish scales were found in the Modelo Formation in the study area during our field survey.

Towsley Formation

Exposures of the Towsley Formation are in Rawhide Canyon and high country areas in the south central portion of the study area. Exposures of the Towsley Formation are in an area that is to remain in open space. Therefore, our efforts in the area of the Towsley Formation exposures were limited to a brief examination of a few road cuts and natural exposures. The Towsley Formation is a latest Miocene to early Pliocene (8 to 4 million years ago) marine deposit. The shales, sandstones, and conglomerates of the Towsley Formation were deposit in a gradually shallowing marine basin. Portions of this unit were deposited as submarine sediment flows, bring sand and rocks up to boulder size into the deep seas. Fossil marine vertebrates and invertebrates are known from exposures of this formation east of the study area along Interstate 14. At these occurrences the remains of fossil whales, sea cows (manatees), a distant relative of the walrus, and numerous invertebrates were collected. No fossils were located during our brief examination of the Towsley Formation.

Pico Formation

The Pico Formation is exposed in Long Canyon, Potrero Canyon, Salt Canyon, Graves Canyon, and west of Chiquito Canyon to the project boundary. The Pico Formation was deposited in a shallowing marine basin. The base of the Pico Formation was deposited in deep waters, while the top of the formation was deposited in shallow marine or lagoonal waters. At the top of this formation the Pico Formation interfingers with the overlying Saugus Formation. The siltstones, sandstones, and conglomerates of this formation span the period between 4 and 2 million years ago. These rocks are known to contain the remains of numerous invertebrates and occasional vertebrates. Immediately adjacent to the study area an extensive invertebrate fauna has been reported and there is at least one recorded vertebrate locality reported. Within the study area invertebrates were found at several localities in Potrero Canyon, Long Canyon, and Chiquito Canyon. A fragmentary fossilized bone was discovered in the transition zone between the Pico Formation and the Saugus Formation, near the mouth of Long Canyon. Screen washing of matrix from this locality produced a rodent tooth and fragmentary microvertebrate remains.

Saugus Formation

The Saugus Formation is exposed on the westside of Chiquito Canyon and northeast of Long Canyon as far east as Magic Mountain. Oil field operations have created extensive exposures of this unit, allowing for examination of large part of the unit. The Saugus Formation records deposition in the region between the late Pliocene Epoch (2 million years ago) and the early Pleistocene (1.6 million years ago to 200,000 years ago). The age of the Saugus Formation is in debate, because of the lack of age diagnostic fossils, especially in the upper portion of the formation. In the study area, the Saugus Formation interfingers with the underlying Pico Formation and contains some marine or brackish water deposits in the lower portion of the unit, before becoming exclusively non-marine in the upper portion of the formation. The marine deposits have also been referred to the Pico Formation. The assignment of these rocks to a particular formation is less important than understanding the events that surrounded their formation. The Saugus Formation records the last withdrawal of the sea from the Santa Clarita Valley approximately 2 million years ago. This gradual shallowing of the sea that had covered the region since the Miocene, some 15 million years, resulted from the rise of the Santa Susana Mountains and Simi Hills. Marine invertebrates are well known from these deposits in the Moorpark and Simi Valley areas. A diverse assemblage of marine and non-marine vertebrates including extinct horses, large cats, dogs, elephants, turtles, peccaries, deer, and sharks is known from other exposures of the Saugus Formation in Simi Valley. Grading at the Valencia Commerce Center, northeast of the study area, produced the remains of an extinct relative of the zebra and a variety of micro-vertebrates including rodents, rabbits, and lizards (Landers 1991). Fossil horse teeth were reported from the Saugus Formation near the Del Valle oil field north of the study area (Winterer and Durham 1962). During our field survey the unidentifiable vertebrate remains were located at two horizons, one near the top of the formation and the other in the transition zone between the Saugus and Pico Formations. The later appears to be a fragment of a marine mammal skull based on its size and curvature. Our screen washing efforts produced bones and teeth at 9 horizons scattered throughout the formation. These fossils include rodent teeth, a shell plate from a turtle, a possible bird bone fragment, a fragment of a tooth of a small carnivore, and several unidentifiable bone fragments. The abundance and diversity of fossils discovered is surprising considering the small size of samples processed during our screen washing activities. Four occurrences

(localities 13,13A, 14, and 25) represent significant fossil occurrences, because of the presence of abundant identifiable remains in small samples.

Quaternary terrace deposits

Quaternary age terrace deposits are exposed in the area surrounding Magic Mountain in the eastern portion of the study area and the large mesas in the site such as Airport Mesa, Potrero Mesa, etc. Quaternary terrace deposits represent the deposits of streams and runoff waters that have flowed across the region during the past 1.6 million years. As many as seven elevated terraces have been recognized in the vicinity of the study area. In the Santa Clarita River Valley, just north of the study area, a tooth of a *Bison* was collected from rocks assigned to either terrace deposits or the older Saugus Formation. *Bison* are considered age diagnostic, as they first appear in the fossil record of North America no more than 500,000 years ago and probably less than 200,000 years ago. This specimen was identified as a late form of *Bison* strongly suggesting that it came from the terrace deposits and not the Saugus Formation. No fossils were observed in these deposits within the study area.

Quaternary older alluvium

Elevated deposits that appear to be older alluvial valley fills are scattered throughout the study area, but are most obvious in Long Canyon. These most likely represent older valley fills that are now elevated above the current valley floors. This would suggest that they represent a significant span of time. No fossils were observed in these deposits during our field survey.

Quaternary alluvium

Recent alluvium covers the canyon floors within the study area. These materials are the deposits of the streams that have flowed across the region during the past 10,000 years. Recent alluvium is too young geologically to contain significant fossils. However, occasionally older alluvium is found buried beneath these younger deposits and they can contain fossils. No fossils were observed in the alluvial deposits during our survey.

PALEONTOLOGIC SENSITIVITIES AND IMPACTS

The purpose of assessing paleontological resources within a study area is to determine the potential impacts the proposed project will have on the region's paleontological resources. A way of determining impacts is to estimate the potential for the discovery of fossils. Potential for discovery is a measure of the likelihood that fossils will be discovered during excavations into a given rock unit. This potential is based on the past discovery of fossils from that rock unit. Paleontological potential does not measure the significance of individual fossils present within the study area, because it is impossible to accurately predict what individual fossils will be discovered.

To evaluate the paleontologic potential of rock units a five-tiered classification system of sensitivity for paleontological resources has been developed. The data used to define these potentials came from a review of pertinent paleontological information and literature both within the study site and the surrounding areas, discussion with professional paleontologists, and field experience in southern California. Each sensitivity rating reflects the potential for the discovery of fossil resources during site development. The five sensitivity ratings are:

NO potential.
This rating applies to igneous rocks whose molten origins preclude fossil remains being preserved.
LOW potential.
Rocks that are too young geologically to contain significant fossils, are altered, or have a poor record of fossil recovery.
MODERATE potential.
Units that fall within this rating contain sedimentary rocks with histories of producing only limited numbers of fossils at many locations.
HIGH potential.
Units that have well-established histories of containing significant fossils and/or fossils located on the study site.
INDETERMINATE potential.
This classification applies to rock units where there is little or no history of fossil discoveries because of a lack of systematic exploration of rock exposures.

Development can have both adverse and positive impacts on paleontological resources. Adverse impacts are the destruction of paleontological resources because of the increase in activity in the area. Direct adverse impacts occur from brushing, grading, trenching, and other

earthmoving activities. Indirect adverse impacts result from increased accessibility resulting in unauthorized fossil collecting by amateur collectors, especially in the open space areas. However, indirect impacts are typically insignificant. Development can have positive impacts on the region's paleontological resources, if proper measures are implemented during development. These positive impacts result when a paleontologist can monitor grading of a site and salvage exposed fossils of possible scientific significance. Similar efforts throughout southern California have resulted in the collection of thousands of important fossils and have greatly enhanced our knowledge of the history of life on Earth. However, if monitoring and salvage efforts are not implemented development can result in the destruction of many significant fossils.

The potential for significant of impacts on paleontological resources depends on the potential for the discovery of fossils in a rock unit and the amount of grading to take place in the rock unit. This is because a rock unit that has produced fossils is likely to continue to produce fossils at a similar rate and as more of the unit that is exposed by grading, the more likely fossils are to be exposed.

Based on the results of our field survey, screen washing efforts, literature review, and records search, the Newhall Ranch study area is underlain by geologic units rated from HIGH to LOW paleontologic potential. The potential for fossil production of the individual formations in the study area is discussed below. Potential impacts on paleontological resources are directly related to the potential for the discovery of fossils in a rock unit and the amount of development in a rock unit.

The Modelo Formation is well known for its well-preserved fish and bird skeletons, as well as marine mammals, mollusks, plants, and microplankton. The Modelo Formation is considered to have a HIGH paleontologic potential. Since exposures of the Modelo Formation are restricted to future open space areas, the potential for significant impacts on paleontological resources is low.

The Towsley Formation is known to produce numerous remains of invertebrates and the occasional remains of marine vertebrates. These fossils occur in locally abundant concentrations or horizons. Although this unit has been examined in only a few areas fossils appear to occur throughout the formation. Therefore, the unit is assigned a HIGH paleontological potential. Exposures of the Towsley Formation are restricted to future open space areas, therefore, the potential for significant impacts on paleontological resources is low.

The Pico Formation contains numerous invertebrates within the study area and is known to contain occasional marine vertebrates in other areas. Therefore, this unit is assigned a HIGH potential for the discovery of fossils during development. Much of the proposed development of Newhall Ranch will take place on exposures of the Pico Formation, this suggests that there is a high potential for significant impacts on paleontological resources.

The Saugus Formation has an extensive record of producing important invertebrates and vertebrate remains at several localities within and near the study area. It is assigned a HIGH paleontological potential. Large portions of the development of Newhall Ranch will take place on exposures of the Saugus Formation, suggesting a high potential for significant impacts on paleontological resources. Additional fossils from this unit would be significant in that they would aid in the determination of the age of this deposit. This information would provide information on the movement of faults in the region.

The Quaternary terrace deposits are assigned a MODERATE paleontologic potential, based on their record of fossil production in the region. Much of the development of Newhall Ranch will take place on exposures of Quaternary terrace deposits. This suggests a high potential for significant impacts on paleontological resources. Additional fossils from this unit would be significant in that they would aid in the determination of the age of this deposit. This information would provide information on the movement of faults in the region.

The Quaternary age older alluvium is assigned a MODERATE potential, based on their apparent relationship to terrace deposits. These units are underlain by older highly

fossiliferous deposits and are in areas where there is likely to be extensive grading, therefore, there is a high potential for impacts in these units.

The recent alluvial deposits are assigned a LOW potential, only because of the possibility for the discovery of older deposits buried beneath them. Regardless of the amount of development in these deposits the potential for significant impacts is low.

TABLE 1

Geologic Unit	Paleontologic Potential	Potential for Impacts
Modelo Formation	HIGH	LOW*
Towsley Formation	HIGH	LOW*
Pico Formation	HIGH	HIGH
Saugus Formation	HIGH	HIGH
Terrace Deposits	MODERATE	HIGH
Older Alluvium	MODERATE	HIGH
Young Alluvium	LOW	LOW

* exposed only in future open space, if development occurs in these areas potential for impacts is high

Based on the presence of numerous fossils in the study area and potential for the discovery of fossils in the rock units to be excavated during development, it is likely that significant fossils will be exposed during development. Unless proper mitigation measures are implemented these fossils will be destroyed by grading operations. The destruction of paleontological resources by development is a significant adverse impact on the region's paleontological resources, because fossil remains are a non-renewable resource. Development of a project of this size, with the rocks units of moderate to high potential for the discovery of fossil remains, could have significant impacts on the region's paleontological resources. The following mitigation measures are suggested to reduce adverse impacts of development on paleontological resources to a less than significant level.

MITIGATION MEASURES

The following mitigation measures are derived from the Los Angeles County guidelines for paleontological resources and CEQA guidelines for the protection of scientific resources. Both documents require that reasonable efforts be made to reduce significant impacts on paleontological resources to levels that are less than significant. These documents provide generalized mitigation measures to meet this goal and serve as the framework for the following measures. More specific measures are based on professional standards established by the Society of Vertebrate Paleontology and are accepted as adequate to meet the

requirements of Los Angeles County and CEQA. These measures have been used successfully elsewhere in southern California to help protect paleontological resources for future scientific study and public education, while allowing the timely completion of projects.

The County of Los Angeles mitigation measures include, notification of appropriate scientific/museum personnel that grading is to begin, presence of an on-site monitor at all times of original cutting of undisturbed fossil bearing rock units, diversion of grading activities to allow for salvage, collection of appropriate materials, and donation to a public non-profit educational institution.

The following measures are designed to meet these requirements and to address the specific conditions within Newhall Ranch.

1. A qualified paleontologist shall be retained to monitor, and if necessary, salvage scientifically significant fossil remains. The duration of these inspections depends on the potential for the discovery of fossils (Table 1), the rate of excavation, and the abundance of fossils.

   a) Geologic formations (like the Saugus Formation) with a HIGH potential will initially require full time monitoring during grading activities.
   b) Geologic formations (like the Quaternary terrace deposits) with a MODERATE potential will initially require half time monitoring.

   Because of the large size and long duration of this project, it is necessary to periodically review the paleontological potential assigned to each rock unit. This should be done at the end of each phase of grading. This reassessment of potential will be used to develop mitigation plans for future phases of development. If fossil production is lower than expected the duration of monitoring efforts should be reduced.

2. The paleontologist in consultation with the grading contractor, developer, and Los Angeles County inspector shall have the power to temporarily divert or direct grading efforts in the area of an exposed fossil to allow evaluation and, any necessary, salvage of exposed fossils.

3. Because of the known presence of microvertebrates in the Saugus Formation, within the study area, and the likelihood that they are present in other rock units it is necessary to periodically sample these rock units. Appropriate materials for this type of collection are samples of at least 2000 pounds of rock from likely horizons. These samples can be stockpiled to allow processing later to avoid delays in grading activities. The frequency of these samples will be determined based on field conditions.

4. Pre-grading salvage is necessary at localities 13, 13A, 14, and 23, because these occurrences appear to represent significant fossil discoveries. At least, 2000 pounds of rock should be collected at each site, stockpiled, and screen washed before grading begins at these localities.

5. Scientific specimens are to become the property of a public, non-profit educational institution, such as the Los Angeles County Museum of Natural History or similar institution. Most institutions are now requiring, as conditions for accepting the materials, that significant fossils be prepared, identified to a reasonable level, and cataloged before donation. Therefore, to meet these requirements it is recommended that prior to development an agreement should be reached with a suitable scientific repository regarding acceptance of the fossil collection.

6. Locations of recorded fossil deposits shall remain confidential and shall be disclosed only on a "need to know" basis.

7. To assure compliance with the Los Angeles County guidelines and CEQA, a final report summarizing the results the mitigation efforts is necessary. To adequately report the results of the mitigation efforts the report shall include; an itemized inventory of the fossils, pertinent geologic and stratigraphic data, field notes of the collectors, and indication of the repository. Because Newhall Ranch will be developed in phases, a final report should be prepared at the end of each phase of grading. This report should provide the information necessary to reassess the paleontological potential of each rock unit graded and should include recommendations for future monitoring efforts in those rock units.

If you have any questions or if we can be of further assistance, please contact us at the above address.

Respectfully,

Rodney Raschke
Certified Paleontologist

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