



**RECEIVED**

By Alameda County Environmental Health at 2:48 pm, Feb 25, 2014

**Jillian Holloway**  
Project Manager  
Marketing Business Unit

**Chevron Environmental  
Management Company**  
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5338B  
San Ramon, CA 94583  
Tel (925) 790-3513  
[JillianHolloway@chevron.com](mailto:JillianHolloway@chevron.com)

February 20, 2014

Alameda County Health Care Services Agency  
Environmental Health Services  
Environmental Protection  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**Re: RO352, Unocal No. 5484 (351812)  
18950 Lake Chabot Road, Castro Valley, California**

I have reviewed the attached report dated February 20, 2014.

I agree with the conclusions and recommendations presented in the referenced Site Conceptual Model. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by AECOM, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13257(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

A handwritten signature in cursive script that reads "Jillian Holloway".

Jillian Holloway  
Project Manager

Attachment: *Site Conceptual Model* by AECOM

February 20, 2014

Keith Nowell  
Alameda County Health Care Services Agency  
Environmental Health Services  
Environmental Protection  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**Subject: Site Conceptual Model  
Unocal No. 5484 (351812)  
18950 Lake Chabot Road, Castro Valley, California  
Fuel Leak Case No. RO000352  
Geotracker Global ID # T0600101453**

Dear Mr. Nowell,

On behalf of Chevron Environmental Management Company's (EMC's) affiliate, Union Oil Company of California ("Union Oil"), AECOM has prepared a Site Conceptual Model for the Unocal No. 5484 site located at 18950 Lake Chabot Road in Castro Valley, California .

### Remarks/Signatures

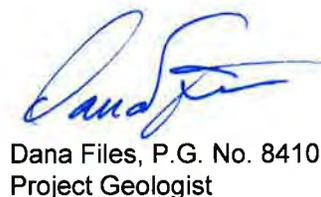
The interpretations in the attached documents represent AECOM's professional opinions which are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions regarding this project, please contact James Harms at (916) 361-6412.

Sincerely,



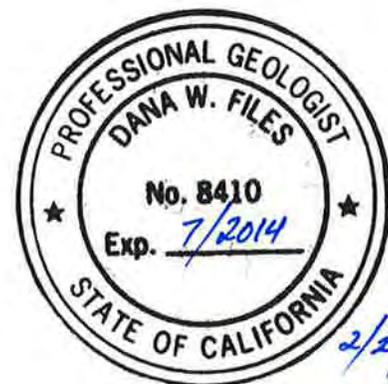
James Harms  
Project Manager



Dana Files, P.G. No. 8410  
Project Geologist

cc: Jillian Holloway EMC (via electronic copy)  
Abdi Fugfugosh and Shukri Noor, property owners (via paper copy)

**Attachments**  
Attachment A Site Conceptual Model



Attachment A  
Site Conceptual Model  
Unocal No. 5484 (351812), RO352  
18950 Lake Chabot Road  
Castro Valley, California

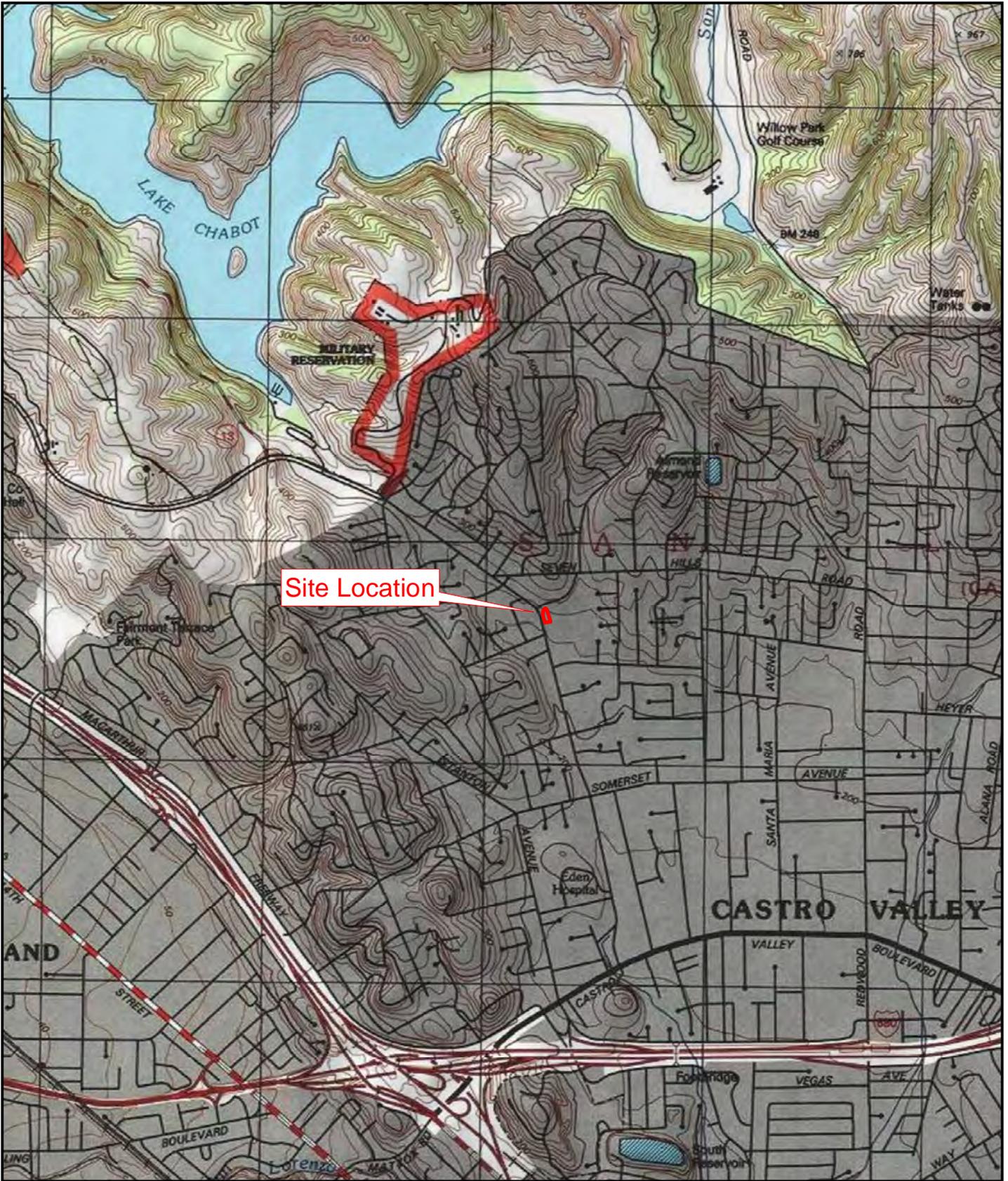
SCM Element	SCM Sub-Element	Description	Reference	Data Tables/Graphics	Data Gaps	Work to Address Data Gap
Site Description and Current Site Use		The site is an active service station (Sunny's 76) located on the southeastern corner of the intersection of Lake Chabot Road and Quail Road in Castro Valley, California (Figure 1). The current site configuration includes two 12,000-gallon, fiberglass, double-walled, gasoline USTs, a 520-gallon waste-oil UST, four dispensers, and a station building (Figure 2). The station building consists of a service center for car smog testing and general auto care. The site is located in a primarily residential area. To the north of the site are single-family residences, to the east and south of the site is the Castro Valley Community Park and Community Center, and to the west of the site are multiple adjoined single-family residences. The entire site, with the exception of limited planter areas along the perimeter, is paved with concrete and asphalt.		Figure 1: Site Location Map Figure 2: Groundwater Gradient Map	None	NA
Geology/Hydrogeology	Regional	The site is located in the San Francisco Bay area in Township 2 south, Range 2 west, in Section 33 (Mount Diablo Meridian) at approximately 346 feet above mean sea level (AMSL) (Figure 1).  Geology: The site is located in the Coast Range Geomorphic Province, which is characterized by northwest-trending mountain ranges and valleys that are sub-parallel to the San Andreas Fault, but are locally depressed in the San Francisco Bay. The area consists of Pleistocene alluvial fan and fluvial deposits, and underlain by the Late Cretaceous Joaquin Miller Formation. The Joaquin Miller Formation is characterized by thinly-bedded shale with minor fine-grained sandstone near the top of the formation (Graymer 2000). Approximately 2,300 feet to the west is a concealed westward-dipping normal fault of the Quaternary Mission Fault. The active right-lateral Hayward Fault is located approximately 1.1 miles southwest of the Site (CGS 2002, 2010).  Hydrogeology: The site is located in the Castro Valley Groundwater Basin and the East Bay Plain Subbasin; groundwater is designated as potential future beneficial use throughout the subbasin. Drinking water is supplied to the area by the East Bay Municipal Utility District (EBMUD). EBMUD states that "EBMUD's water supply begins at the Mokelumne River watershed in the Sierra Nevada and extends 90 miles to the East Bay." Almost all drinking water in the area comes from surface water via Hetch Hetchy Reservoir, and shallow groundwater near the site is not used for domestic or municipal consumption currently nor is it planned to be used in the future.	California Geological Survey (CGS), 2002, California Geomorphic Provinces – Note 36.  California Geological Survey (CGS), 2010, Geologic Map of California at <a href="http://www.quake.ca.gov/gmaps/GMC/stategeologicmap.html">http://www.quake.ca.gov/gmaps/GMC/stategeologicmap.html</a>	Figure 1: Site Location Map	None	NA
	Site	The site is located within a gently plunging broad valley trending southward. The surrounding local topography includes a slight incline south of the site, with coastal uplift of 3,300 feet to the northwest, and the San Francisco Bay is located 4.8 miles to the southwest (Graymer 2000).  The geology underlying the site is described as silty clay and sandy clays with gravel from the ground surface to between 10 and 20 feet bgs, which is underlain by weathered mudstone and fractured siltstone (Attachments B and C).  The most recent groundwater monitoring event was conducted on March 8, 2013, and depth to groundwater was measured at four on-site monitoring wells (MW-2, MW-5, MW-6, and MW-7). The depth to groundwater ranged from 5.53 to 7.85 feet below top of well casing (220.05 to 226.13 feet AMSL) (Figure 2). Depth to water is frequently observed above the top of the well screens, and the wells are screened in fine-grained materials (clays and weathered siltstone); therefore, the wells are a path of lower resistance leading to the increase in groundwater level. All site wells have historically gone dry during purging, and groundwater was observed during well installation at 8 to 15 feet bgs. The topographic relief of the site combined with the fine-grained lithology and weathered bedrock indicate that the site well screens are effectively intercepting the same shallow water bearing zone at the site.  Groundwater flow direction has been predominately to the southeast with some variation towards the south.	Graymer, R.W., 2000, Geologic Map and Map Database of the Oakland Metropolitan Area, Alameda, Contra Costa, and San Francisco Counties.  AGS, 1990, Report on Soil Excavation, Aeration, and Sampling, March 30.  Delta, 2008, Annual Summary Report, May 20, 2008.  AECOM, 2013, First Annual 2013 Groundwater Monitoring Report, April 22, 2013	Figure 2: Groundwater Elevation Contour Map Attachment B: Boring Logs Attachment C: Cross Sections	None	NA
Surface Water Bodies		The nearest surface water bodies are Almond Reservoir, located approximately 3,080 feet northeast of the site and Lake Chabot located approximately 5,050 feet northwest of the site. Regional surface drainage is to the south and west toward San Francisco Bay, which is located approximately 4.8 miles southwest of the site.	37° 49' 30.32"N, 122° 43' 43.23"W, Google Earth. Accessed: August 28, 2012. September 4, 2013.  Delta, 2006. Sensitive Receptor Survey Report, August 22.		None	NA
Nearby Wells		The total depths of domestic wells within the subbasin reportedly range from 56 to 305 feet below ground surface (bgs) with an average of 163 feet bgs. Total depth of municipal and irrigation wells range from 82 to 260 feet bgs, with an average of 161 feet bgs (DWR 2004). The most recent groundwater monitoring event was conducted on March 8, 2013. Depth to groundwater was measured at four on-site monitoring wells (MW-2, MW-5, MW-6, and MW-7), and the depth to groundwater ranged from 5.53 to 7.85 feet below top of well casing (220.05 to 226.13 feet AMSL) (Figure 2).  A DWR well search was performed in 2006 within a one-mile radius of the site, and two wells were identified within the search radius. One test well (State Well No. 3S/2W 4F 1) was located approximately one half mile south of the site, and is approximately 52 feet bgs (Delta 2006). A domestic well (State Well No. 3S/2W 4H 2) was reported to be approximately a half mile south/southeast of the site, and has a total depth of 220 feet bgs. Four residential properties were identified as potentially having wells in the 2006 Sensitive Receptor Survey; questionnaires about well status and use were sent to the properties, but were never returned. Two of the wells are approximately one-half mile from the site to the south and northeast; the locations of all the nearby wells are shown on Figure 3.	Department of Water Resources, 2004, California's Groundwater Bulletin 118 – Castro Valley Groundwater Basin, East Bay Plain Subbasin.  Delta, 2006. Sensitive Receptor Survey Report, August 22.	Figure 2: Groundwater Elevation Contour Map Figure 3: Receptor Map	None	NA
Nearby Release Sites		No specific off-site sources have been identified in historical investigations. Based on the GeoTracker database, one potential off-site source was identified within ¼-mile of the Site. The Hertleien Electric site was located approximately 450 feet south/southwest (downgradient) and was considered closed on December 3, 1996. GeoTracker identified one active UST permit located at the site.  Review of historical aerial photography (1939-2006) indicated no records of past utilization on adjacent properties that would adversely affect the site (Attachment A).	California Geotracker Database, site Global ID # T0600101453, accessed December 30, 2013.	Attachment A: EDR Report	None	NA
Potential Receptors		According to the EDR report, 2006 sensitive receptor survey, and April 18, 2013 site survey there is one school, one community center, and two churches located within a quarter-mile radius of the site.  • Castro Valley Community Center is located approximately 100 feet south from the site at 18988 Lake Chabot Road. • Chabot Elementary School is located approximately 400 feet south of the site at 19104 Lake Chabot Road. • Castro Valley Church of the Nazarene and East Bay Chinese Church are located approximately 700 feet south of the site at 19320 and 19230 and Lake Chabot Road, respectively.  The receptors above were verified on April 18, 2013, and there were no significant changes from the 2006 sensitive receptor survey.	Delta, 2006. Sensitive Receptor Survey Report, August 22.	Attachment A: EDR Report Figure 3: Receptor Map	None	NA

Attachment A  
Site Conceptual Model  
Unocal No. 5484 (351812), RO352  
18950 Lake Chabot Road  
Castro Valley, California

SCM Element	SCM Sub-Element	Description	Reference	Data Tables/Graphics	Data Gaps	Work to Address Data Gap
Site History and Ownership		<p>Based on historical Sanborn maps in <b>Attachment A</b>, the site development history is documented below:</p> <p>Prior to 1965, the property appears undeveloped in historic aerial photographs (<b>Attachment A</b>).</p> <ul style="list-style-type: none"> <li>- 1965: One unleaded gasoline 10,000-gallon UST and one premium gasoline 10,000-gallon were installed at the site.</li> <li>- June 1988: a leak was detected in the unleaded product system during an annual tank precision test.</li> <li>- June 12 through June 16, 1989: the two 10,000-gallon gasoline USTs, 280-gallon waste-oil UST, and product lines were removed and replaced.</li> <li>- July 12 and 13, 1988: Initial site assessment activities were conducted following a detection of a leak from the unleaded product system during an annual tank precision test. Three monitoring wells (MW-1 through MW-3) were installed on-site and positioned upgradient and downgradient of the existing USTs.</li> <li>- On June 19, 1989, two new 12,000-gallon fiberglass fuel tanks and a new 520-gallon double-walled, fiberglass waste-oil tank were installed at the northern side of the station building.</li> <li>- June through August 1989: UST removal and replacement activities and excavation activities were conducted. Following final overexcavation activities, the depth of the gasoline UST pit was extended to approximately 15 feet bgs, and the depth of the waste-oil UST pit was extended to 11 feet bgs (<b>Figures 4a, 4b, and 4c</b>).</li> <li>- July 1989: Installation of monitoring wells MW-2 through MW-4.</li> <li>- November 17 and 18, 1989: Five additional soil borings were advanced by AGS to further characterize the vertical and lateral extents of petroleum hydrocarbons in soil at the southwestern and southern portions of the site.</li> <li>- September 20, 1999: Product piping and dispenser upgrades from existing single-walled to double-walled fiberglass piping were completed by TOSCO. Inspection of the existing piping and trench liners indicated no evidence of holes or cracks.</li> <li>- 1991 through 2013: Routine groundwater monitoring commenced in 1991 and continued on a quarterly, semi-annual, and annual basis until the first quarter of 2013.</li> <li>- May 1991: Kaprealian Engineering, Inc. (KEI) drilled one additional monitoring well, MW-7, and one exploratory soil boring, EB1.</li> <li>- January 1995: An additional investigation was conducted by Delta Consultants (Delta) with the advancement of four soil borings on-site using direct-push technology.</li> <li>- February 2009: Delta replaced former off-site and downgradient monitoring well MW-4 with two monitoring wells, MW-4A and MW-4B. Both replacement wells were located west of the site across Lake Chabot Road. Monitoring well MW-4 was destroyed during the construction of an apartment complex in 2002.</li> <li>- April 2010: Monitoring wells MW-4A and MW-4B were properly abandoned in place.</li> </ul>	<p>AGS, 1989, Report of Subsurface Environmental Investigation, September 11.</p> <p>AGS, 1990, Report on Soil Excavation, Aeration, and Sampling, March 30.</p> <p>KEI, Results of Soil and Groundwater Investigation, June 27, 1991.</p> <p>Delta, 2008, Annual Summary Report, May 20, 2008.</p> <p>Delta, 2009, Well Replacement Report, April 2, 2009.</p> <p>Delta, 2010, Monitoring Well Abandonment Report, May 12.</p>	<p>Attachment A: EDR Report</p> <p>Figures 4a, 4b, and 4c: Excavation Figures</p> <p>Attachment B: Boring Logs</p>	None	NA
Utilities and Preferential Pathways		AECOM conducted a underground utility survey on April 18, 2013 at the site. Sewer, electric, and water ranging in depths of a half inch to 19 inches bgs were identified. The depth of the utilities locates them above any remaining soil impacts at the site, site groundwater, and the existing USTs. Shallow residual soil impacts remain at the site at depths of approximately 5 feet bgs and 6 feet bgs.		Figure 5: Utilities Plan	None	NA
Distribution of Petroleum Hydrocarbons	Soil	<p>The distribution of the maximum concentrations of petroleum hydrocarbons detected in soil is shown on <b>Figure 6</b>. <b>Table 1</b> provides a summary of all historical soil laboratory analyses. Following completion of overexcavation activities in 1989, petroleum hydrocarbons were observed from the sidewalk adjacent to the city sidewalk along Lake Chabot Road. Additionally, PID measurements of 250 and 290 ppm were recorded from two locations, one along the sidewalk and western wall and the other on the southern edge of the gasoline UST excavation near the station building, respectively. The depths of the PID measurements were not recorded; however, concentrations of TPHg and BTEX were reported from 6 feet bgs in the western sidewalk adjacent to the city sidewalk. Concentrations of TPHg, TOG, toluene, xylenes, and ethylbenzene were collected at 8 feet bgs within the waste-oil UST pit were reported at 480 mg/kg, 1,800 mg/kg, 12 mg/kg, 74 mg/kg, and 15 mg/kg, respectively. The bottom of the final waste-oil UST excavation was 10 to 11 feet bgs. The AGS report indicates that impacted soil remained within the excavation at 8 feet bgs. Soil samples from EB-1, B-1, and MW-7 located adjacent and downgradient to the waste-oil tank pit indicated that petroleum hydrocarbons in soil did not extend beyond the limits of the excavation (<b>Figures 4a, 4b, and 4c</b>).</p> <p>The horizontal extent of hydrocarbons in soil in 1995 was defined by soil boring B-2, located at the southern edge of the site, at 6.5 feet bgs. TPHg, ethylbenzene, and xylenes were detected at concentrations of 29 mg/kg, 0.96 mg/kg, and 1.7 mg/kg, respectively (<b>Figure 6</b>).</p>	<p>AGS, 1990, Report on Soil Excavation, Aeration, and Sampling, March 30.</p> <p>Delta, 2009, Well Replacement Report, April 2, 2009.</p>	<p>Figures 4a, 4b, and 4c: Excavation Figures</p> <p>Figure 6: Historical Soil Concentration Map</p> <p>Table 1: Soil Analytical Data</p> <p>Attachment C: Cross Sections</p>		
	Groundwater	<p>Benzene concentrations were detected at concentrations of 6 µg/L, 72 µg/L, and 385 µg/L at wells MW-1, MW-2, and MW-3, respectively, in 1989. During a monitoring event by AGS personnel in October 1988, LNAPL was observed and measured at 9 inches in MW-3, which is located immediately downgradient of the USTs. The LNAPL observed in MW-3 was reduced to non-detectable levels by May 1989 as a result of bi-weekly LNAPL bailing. MTBE was detected at monitoring wells MW-2 and MW-7. The analytical data for MW-7 continue to exhibit decreasing trends of dissolved-phase constituents of concern. Dissolved-phase MTBE concentrations have reduced from a high of 1,600 µg/L in 2003 to 25 µg/L in 2013. Benzene was reduced from 980 µg/L in 1992 to 5.8 µg/L in 2013. MTBE was first detected at MW-2 on February 25, 2009, with the highest reported concentration of 350 µg/L on January 13, 2010. Currently, dissolved-phase MTBE at MW-2 is below the May 2013 revision to the California Regional Water Quality Control Board, San Francisco Bay Region Environmental Screening Levels (<b>Table 2 and Charts 1 and 2</b>).</p> <p>Current maximum groundwater concentrations detected at on-site well MW-7 include TPHg, benzene, MTBE, TBA, and naphthalene at 1,900 µg/L, 5.8 µg/L, 25 µg/L, 480 µg/L, and 41 µg/L, respectively (<b>Figure 7</b>). MW-5 provides a downgradient delineation for MW-7, and groundwater concentrations are below the residential ESLs for vapor intrusion at the downgradient end of the dissolved plume, and do not pose a risk to the downgradient sensitive receptors.</p>	<p>AGS, 1990, Report on Soil Excavation, Aeration, and Sampling, March 30.</p> <p>AECOM, 2013, First Annual 2013 Groundwater Monitoring Report, April 22, 2013</p>	<p>Table 2: Groundwater Analytical Results:</p> <p>Charts 1 and 2: Trend Plots for MW-2 and MW-7</p> <p>Figure 7: Groundwater Concentration Map</p>		
	Soil Vapor	<p>The LTC Policy defines a bioattenuation zone for sites without oxygen data as 5 feet or more of clean soil (less than 100 mg/kg of TPH) between the bottom of existing or future building's foundation and the shallowest impacted groundwater with a benzene concentration of less than 100 µg/L. The lateral extent of the bioattenuation zone is intended to extend 30 feet beyond the future building foundation.</p> <p>The site is an active service station, and qualifies for the vapor intrusion to indoor air exemption. However, the soil data clearly define a bioattenuation zone as shown in Scenario 3A of the LTC Policy. The highest TPHg detection in soil at 5 feet or shallower remaining after overexcavation is 1.8 mg/kg, which was detected on May 7, 1991, at soil boring EB1. Benzene was detected in groundwater at 5.8 µg/L, and is below the threshold concentration of 100 µg/L, which creates a sufficient bioattenuation zone. Additionally, the majority of impacted soil was removed and backfilled during UST removal and replacement activities.</p>				
Remedial Actions	Excavation	In June 1988, a leak was detected in the unleaded product system during an annual tank precision test. From June 12 through 16, 1989, the two 10,000-gallon gasoline USTs, 280-gallon waste-oil UST, and product lines were removed and replaced. An area measuring approximately 60 feet by 70 feet was excavated to depths from 10 feet to 15 feet bgs. The former waste-oil UST was overexcavated to depths of approximately 10 to 11 feet bgs in an area measuring approximately 8 feet by 15 feet. A small amount of groundwater was encountered in the bottom of the gasoline tank excavation. Between June 21, 1989, and August 1, 1989, further excavation of soil commenced around the former gasoline UST pit and dispenser islands. Additional removal of soil was hindered in the western extent of the excavation adjacent to the city sidewalk and southern extent adjacent to the station building. MW-1 and MW-3 were destroyed during the excavation, as was the source of the free product observed in MW-3. The bottom of the final waste-oil tank excavation was completed at 10 to 11 feet bgs; however, AGS does not indicate if the location of the samples collected at 7 and 8 feet bgs was included in the additional excavation. AGS collected samples from soil borings positioned adjacent to the former waste-oil UST pit; the results indicated that impacted soil was confined to the waste-oil UST pit. A total of 1,800 cubic yards of soil was overexcavated and disposed of off-site ( <b>Figures 4a, 4b, and 4c</b> ).	<p>Applied GeoSystems, 1990, Report on Soil Excavation, Aeration, and Sampling, March 30, 1990.</p> <p>Gettler-Ryan, Inc, Product Piping and Dispenser Replacement, November 2, 1999.</p>	Figures 4a, 4b, 4c: Excavation Figures		

## Figures

Path: \\ussor1fs001\prod\Projects\ENVI\01231-Chevron\76\Products\_transfer\_sites\351812\_5484\_Castro Valley\7.0 Deliverables\7.2\_CADD\GIS\Figure 1\_351812\_Site\_Location.mxd



Map Source: ESRI Data Resource Center 2013.



AECOM  
10461 Old Placerville Rd, Suite 170  
Sacramento, CA 95827  
916.361.6400



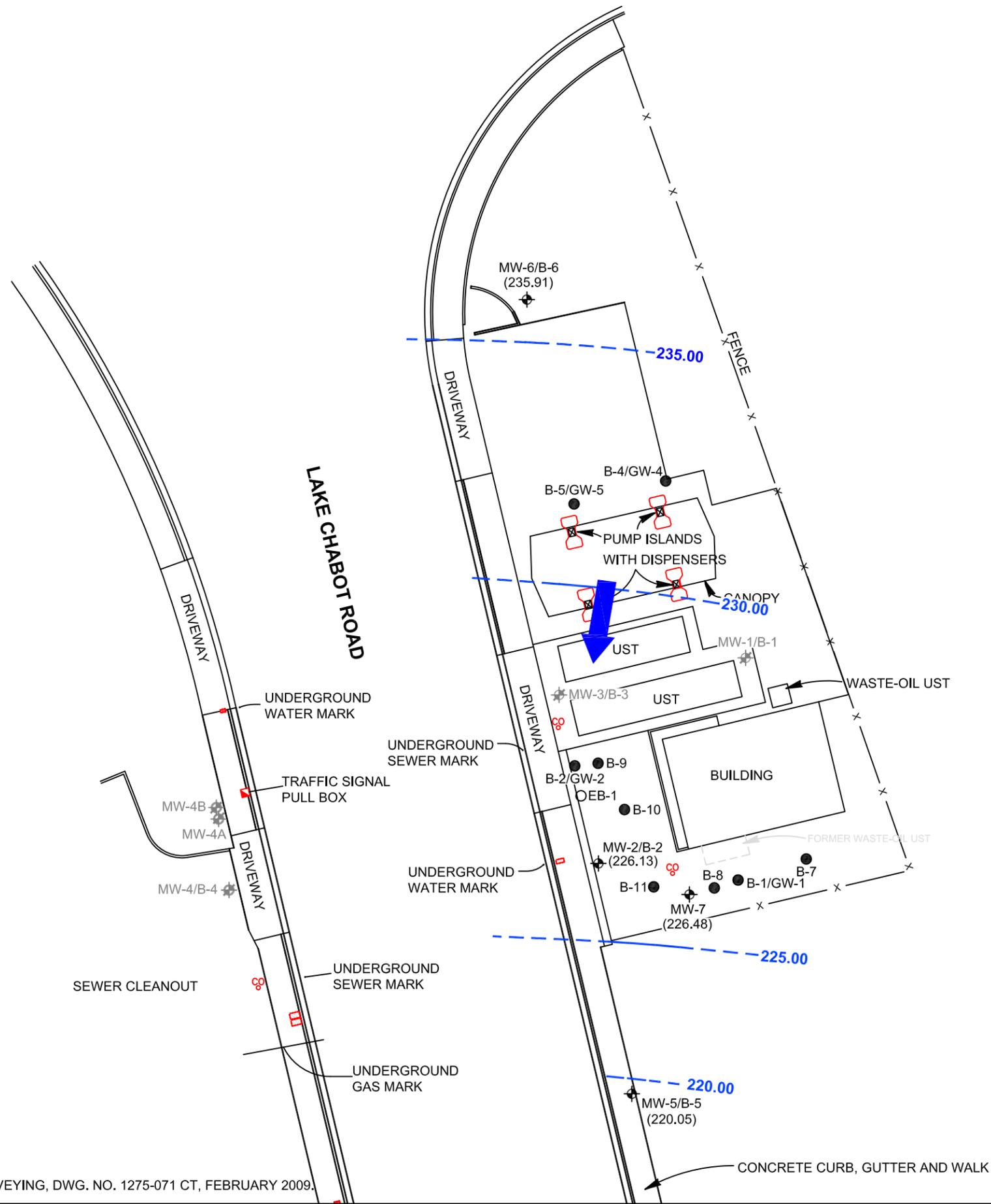
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Figure 1: Site Location Map

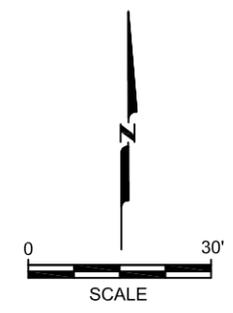
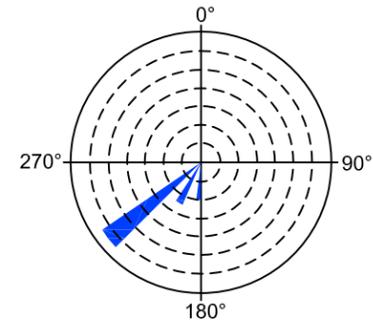
RO352, Unocal No. 5484 (351812)  
18950 Lake Chabot Road  
Castro Valley, California

P:\ENVI\01231-Chevron\76Products\_Transfer\_sites\351812\_5484\_Castro Valley\7.0 Deliverables\7.2 CADD\CSM\Fig 2 - GW Elevation.dwg Feb 13, 2014 - 6:58pm Harms.J

SOURCE: MORROW SURVEYING, DWG. NO. 1275-071 CT, FEBRUARY 2009.



- Legend**
- Monitoring Well
  - Destroyed Monitoring Well
  - Soil Boring
  - UST Underground Storage Tank
  - (#) Groundwater Elevation in Feet Above Mean Sea Level
  - Groundwater Contour Line in Feet Above Mean Sea Level (Dashed Where Inferred)
  - Groundwater Flow Direction
- Hydraulic Gradient = 0.15 Feet per Foot



DESIGNED BY:	NO.:	DESCRIPTION:	DATE:	BY:
TQ				
DRAWN BY:				
TQ				
CHECKED BY:				
JH				
APPROVED BY:				
JH				

**AECOM**

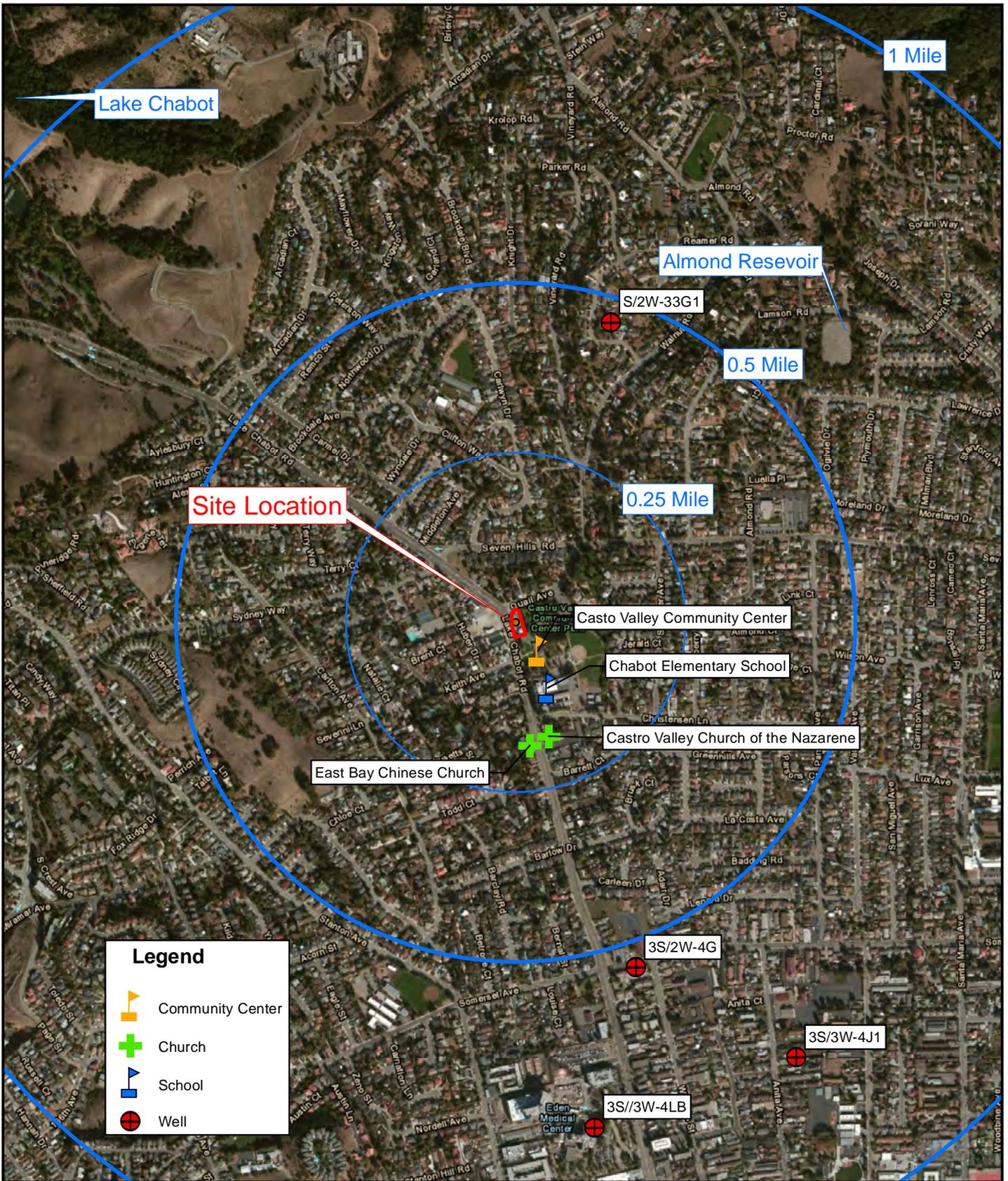
**AECOM TECHNICAL SERVICES**  
10461 OLD PLACERVILLE ROAD, SUITE 170  
SACRAMENTO, CALIFORNIA 95827  
PHONE: (916) 361-6400  
FAX: (916) 361-6401  
WEB: HTTP://WWW.AECOM.COM

**Groundwater Elevation Contour Map**  
Unocal Service Station #5484 (351812), RO352  
18950 Lake Chabot Road  
Castro Valley, California

SCALE: 1" = 30'  
DATE: 2/12/2013  
PROJECT NUMBER: 60284081

FIGURE NUMBER:  
**2**

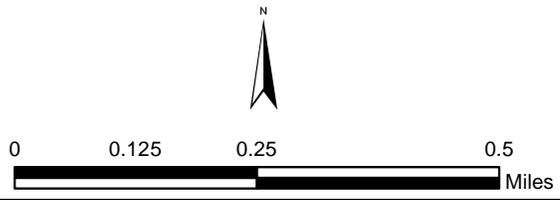
SHEET NUMBER:  
1 of 1



Map Source: ESRI Data Resource Center 2013.



AECOM  
 2020 L Street, Suite 400  
 Sacramento, CA 958211  
 916.414.5800



**Figure 3:Receptor Map**

**Unocal No. 5484 (351812), RO352**  
**18950 Lake Chabot Road**  
**Castro Valley, California**

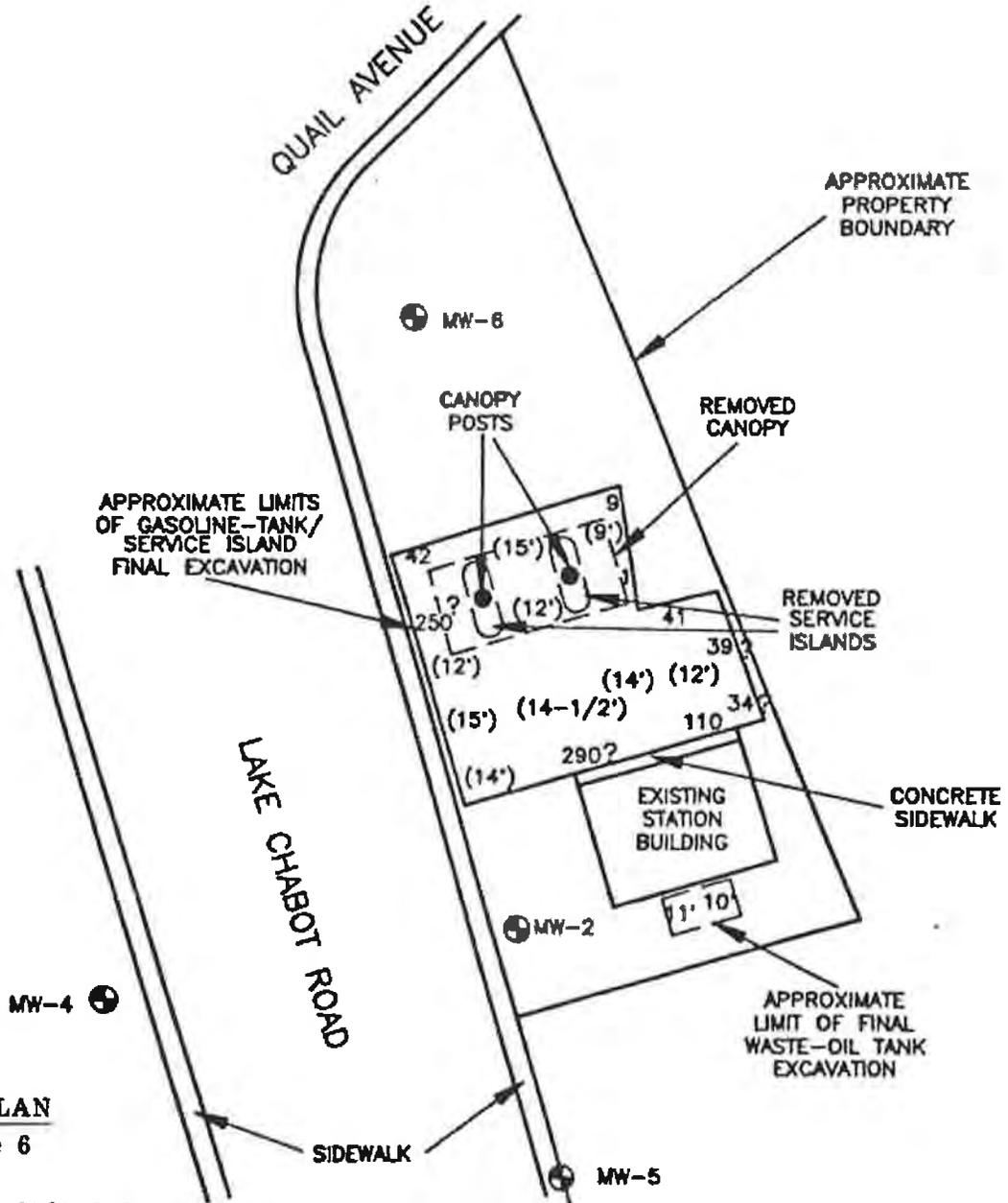
Path: P:\ENV\01231-Chevron\76Products\_transfer\_sites\351812\_5484\_Castro Valley\7.0 Deliverables\7.2 CADD\GIS\Figure 3\_Receptor\_Map\_351812.mxd

Figure 4a



**KAPREALIAN ENGINEERING, INC.**  
Consulting Engineers

PO BOX 996 • BENICIA, CA 94510  
(707) 746-6915 • (707) 746-6916 • FAX: (707) 746-5581



**SITE PLAN**  
Figure 6

\*Base modified from  
AGS report 18061-4,  
Plate P-7

(15') = Approximate depth of excavation  
in feet

290 = OVM reading in sidewall  
of excavation in ppm

MW-6 = Monitoring well

Approximate Scale



Unocal S/S #5484  
18950 Lake Chabot Road  
Castro Valley, CA

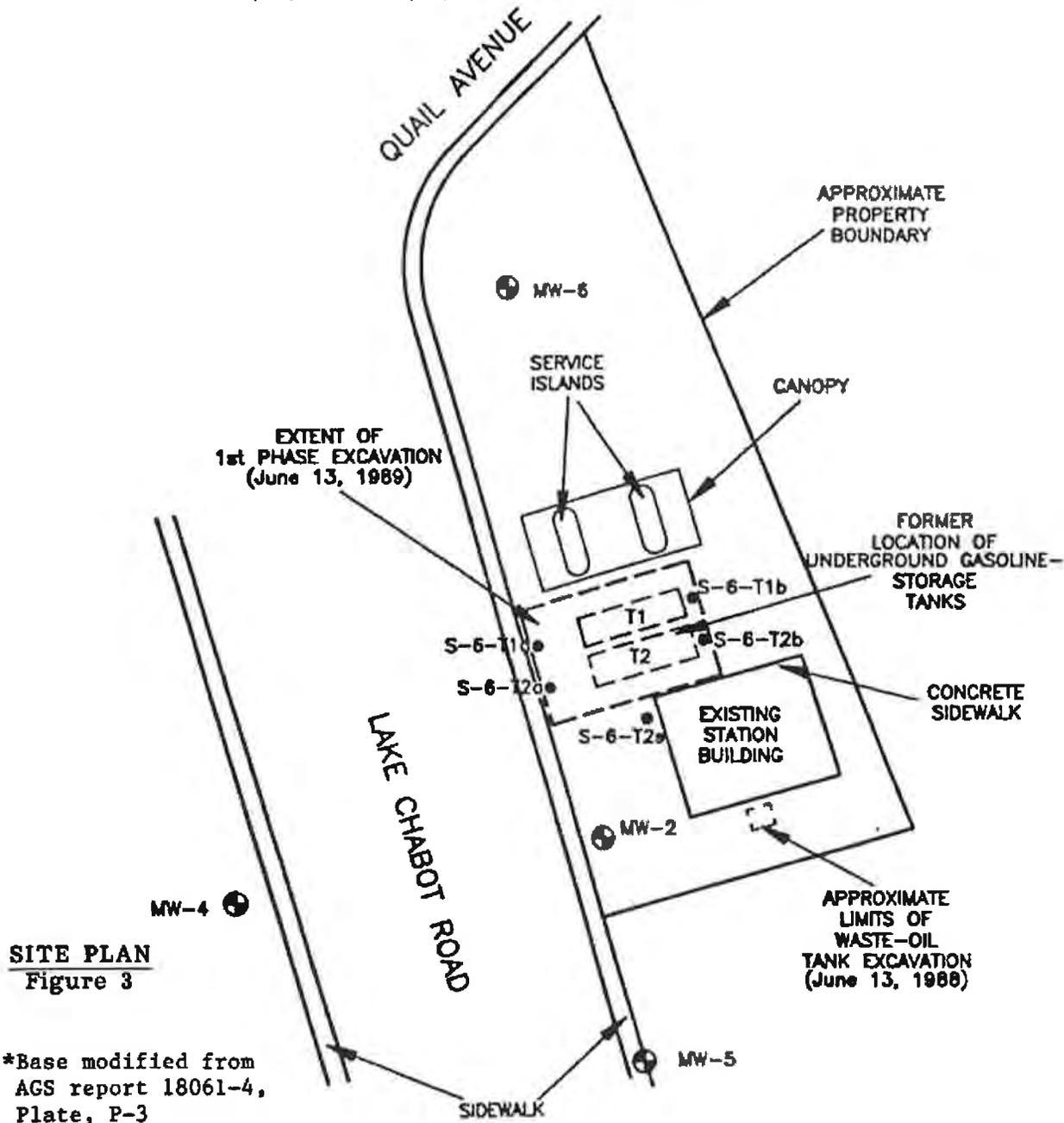
Figure 4b



### KAPREALIAN ENGINEERING, INC.

Consulting Engineers

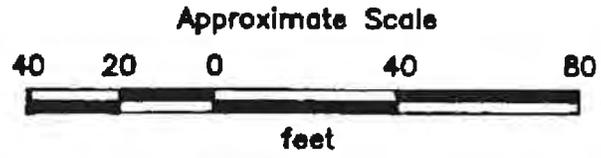
P.O. BOX 996 • BENICIA, CA 94510  
(707) 746-6915 • (707) 746-6916 • FAX: (707) 746-5581



**SITE PLAN**  
Figure 3

\*Base modified from  
AGS report 18061-4,  
Plate, P-3

- = Sidewalls of excavation
- S-6-T2a ● = Soil sample point
- └─▶ = Sample depth
- MW-6 ⊕ = Monitoring well



Unocal S/S #5484  
18950 Lake Chabot Road  
Castro Valley, CA

Figure 4c

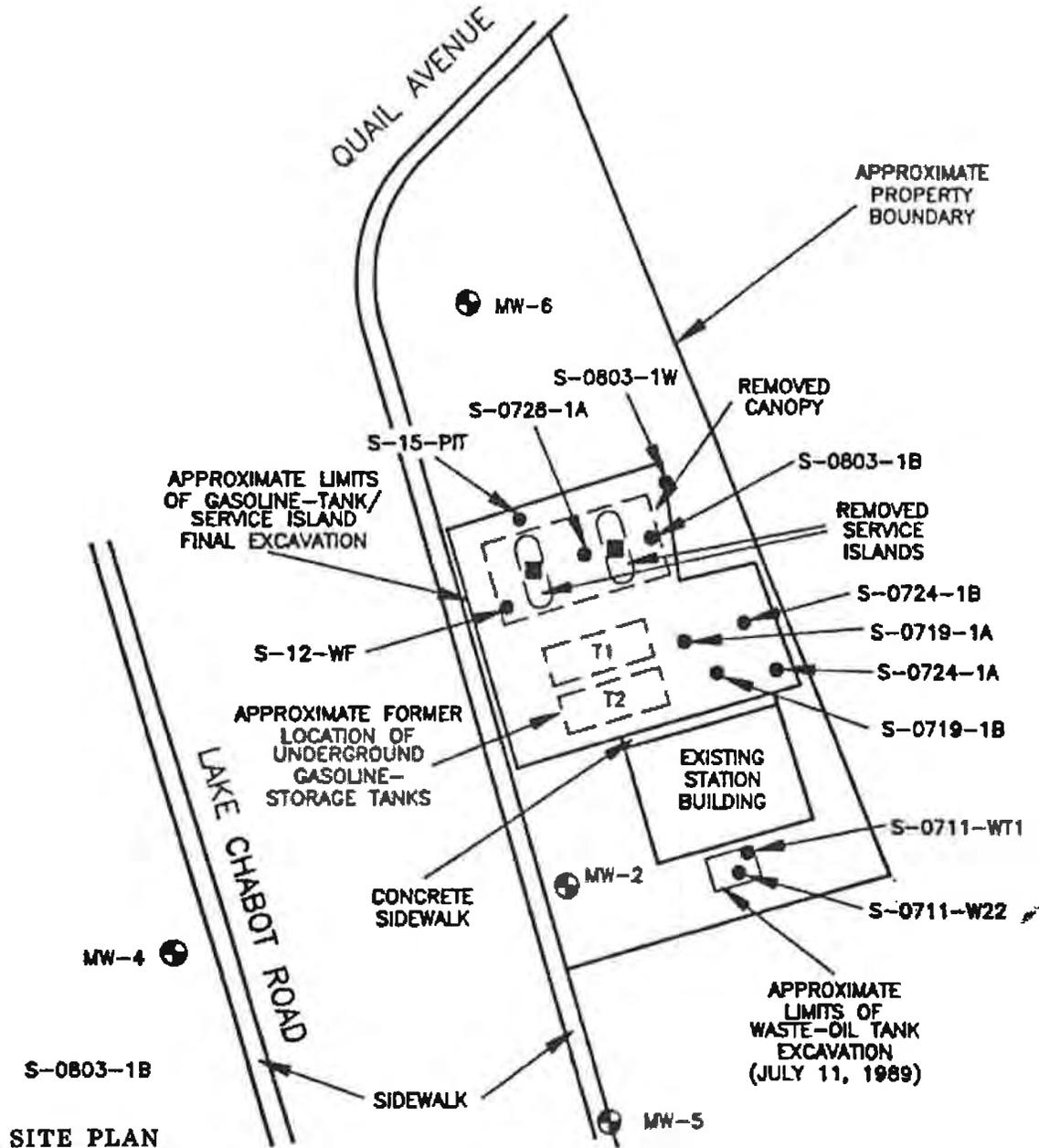


# KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P.O. BOX 996 • BENICIA, CA 94510

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## SITE PLAN

Figure 5

\*Base modified from AGS report 18061-4, Plate P-6

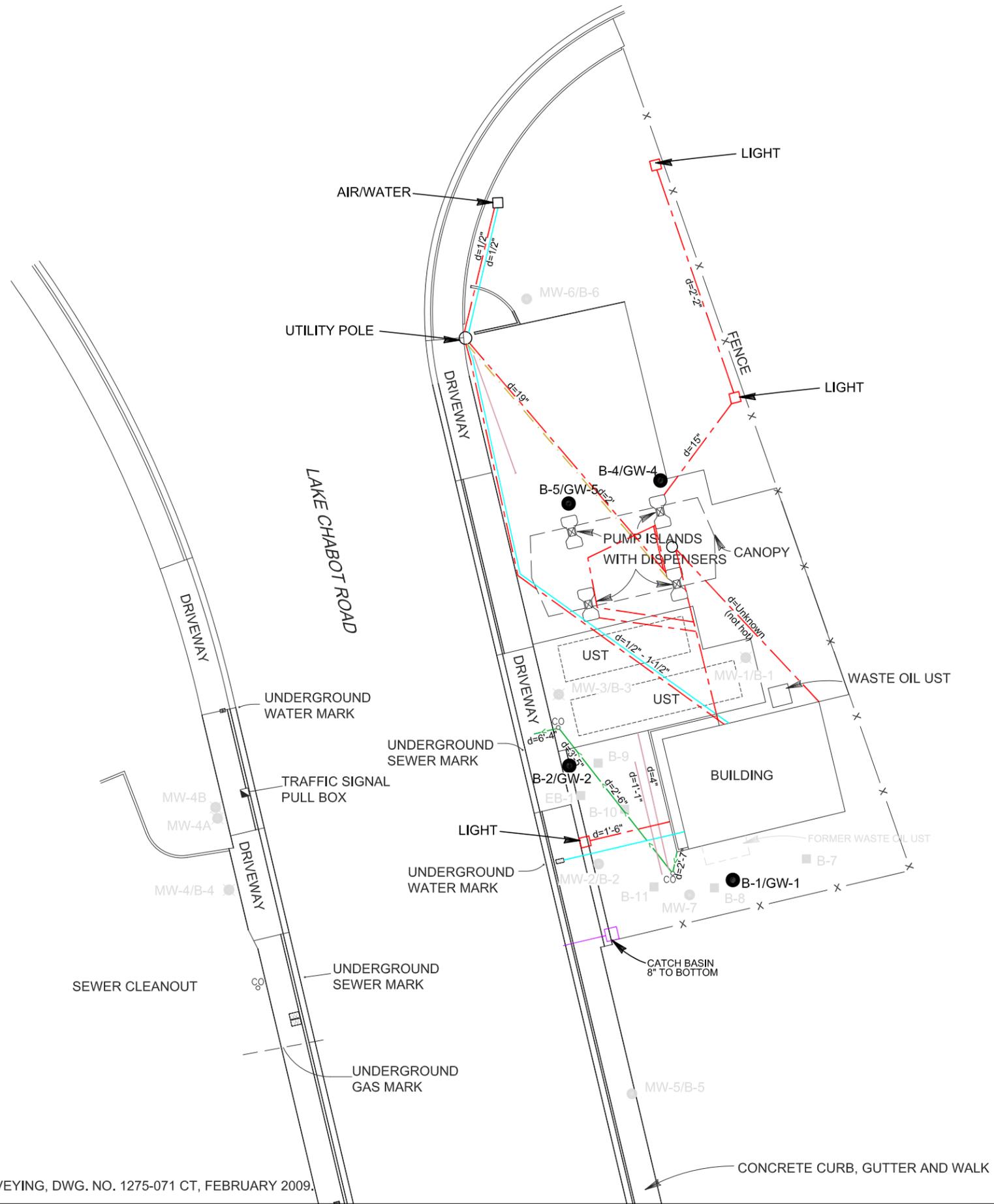
- S-0803-1B ● = Soil sample point
- = Canopy posts
- MW-6 ⊕ = Monitoring well

Approximate Scale

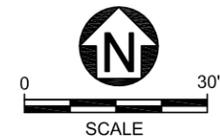
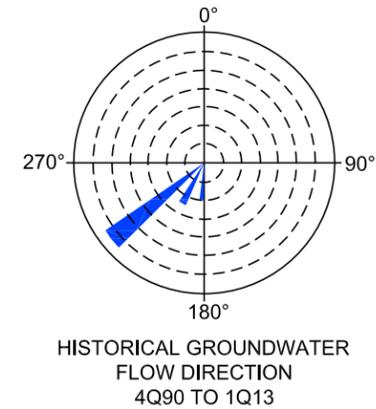


Unocal S/S #5484  
18950 Lake Chabot Road  
Castro Valley, CA

P:\ENV\01231-Chevron\76Products\_transfer\_sites\351812\_5484\_Castro Valley\7.0 Deliverables\7.2 CADD\CSM\Figure 5\_Site\_Plan\_Uilities\_351812.dwg Feb 13, 2014 - 6:43pm HamsJ



- LEGEND**
- MONITORING WELL LOCATION
  - DESTROYED MONITORING WELL LOCATION
  - SOIL BORING LOCATION
  - d DEPTH
  - ELECTRIC
  - WATER
  - SEWER 4" OR LARGER
  - PHONE
  - UNKNOWN
  - STORM



SOURCE: MORROW SURVEYING, DWG. NO. 1275-071 CT, FEBRUARY 2009.

DESIGNED BY:	NO.:	DESCRIPTION:	DATE:	BY:
RPR				
RPR				
JH				

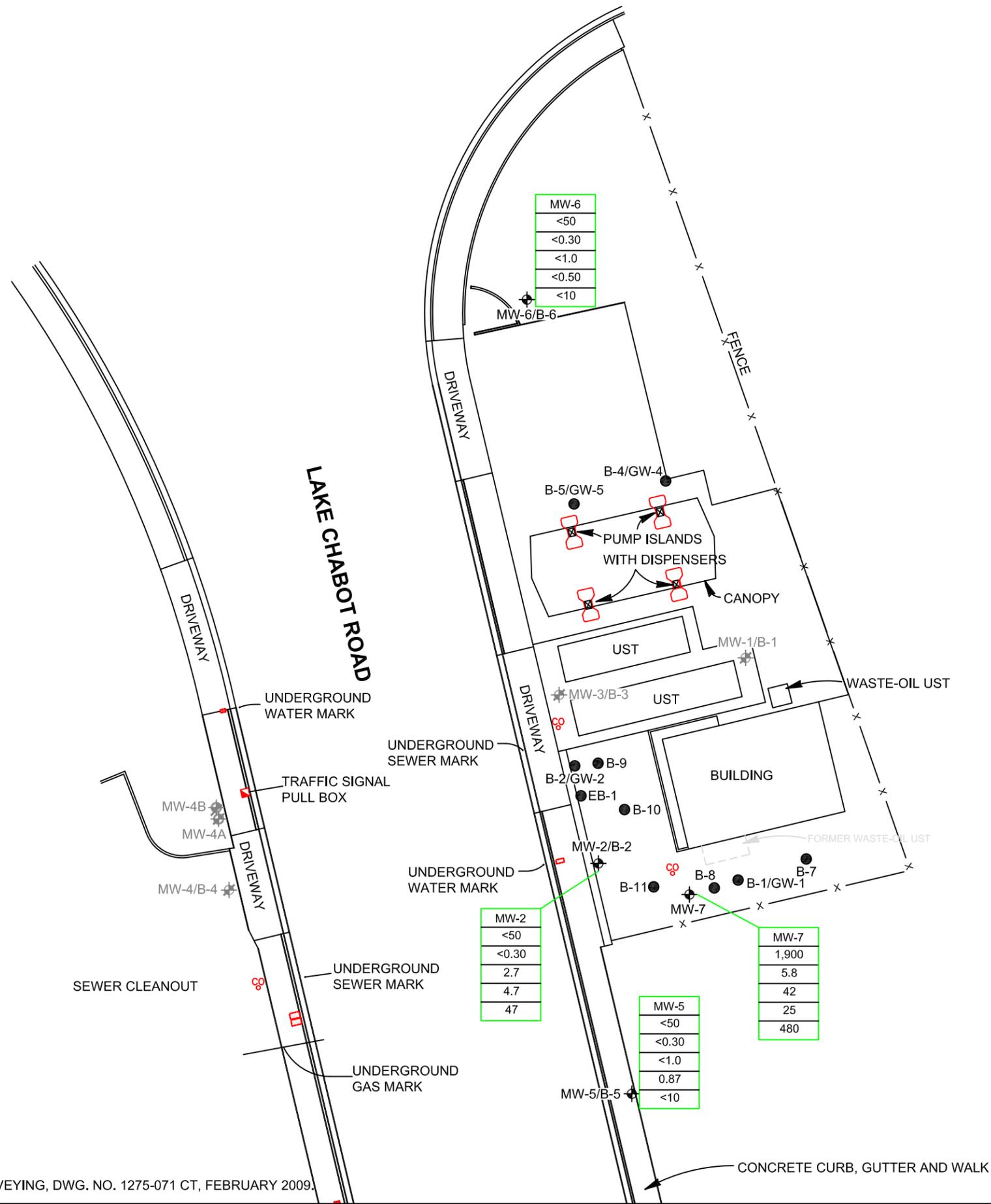
**AECOM**  
**AECOM TECHNICAL SERVICES**  
 10461 OLD PLACERVILLE ROAD, SUITE 170  
 SACRAMENTO, CALIFORNIA 95827  
 PHONE: (916) 361-6400  
 FAX: (916) 361-6401  
 WEB: HTTP://WWW.AECOM.COM

**UTILITIES PLAN**  
 Unocal No. 5484 (351812), RO352  
 18950 Lake Chabot Road  
 Castro Valley, California  
 SCALE: 1" = 30'  
 DATE: 5/07/2013  
 PROJECT NUMBER: 60267030

FIGURE NUMBER:  
**5**  
 SHEET NUMBER:  
 1 of 1



P:\ENVI\01231-Chevron\76Products\_Transfer\_sites\351812\_5484\_Castro Valley\7.0 Deliverables\7.2 CADD\CSM\Fig 7 - GW Analytical Data.dwg Feb 13, 2014 - 6:41pm Hams.J



**Legend**

- Monitoring Well
- Destroyed Monitoring Well
- Soil Boring
- UST Underground Storage Tank

**WELL ID.**  
 TPH-g  
 Benzene  
 MTBE 8021  
 MTBE 8260  
 TBA

TPH-g = Total Petroleum Hydrocarbons as Gasoline  
 MTBE = Methyl Tertiary-Butyl Ether  
 TBA = Tertiary-Butyl Alcohol  
 <# = Analyte Not Detected At or Above Indicated Laboratory Reporting Limit  
 Analyte Concentrations Expressed in Micrograms per Liter

DESIGNED BY:	NO.:	DESCRIPTION:	DATE:	BY:
TQ				
TQ				
JH				
JH				

**AECOM**

**AECOM TECHNICAL SERVICES**  
 10461 OLD PLACERVILLE ROAD, SUITE 170  
 SACRAMENTO, CALIFORNIA 95827  
 PHONE: (916) 361-6400  
 FAX: (916) 361-6401  
 WEB: HTTP://WWW.AECOM.COM

**Groundwater Concentration Map**  
 Unocal No. 5484 (351812), RO352  
 18950 Lake Chabot Road  
 Castro Valley, California

SCALE: 1" = 30'  
 DATE: 03/30/2013  
 PROJECT NUMBER: 60284081

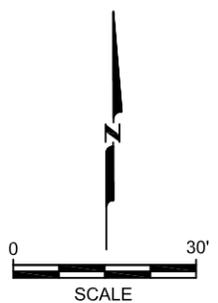


FIGURE NUMBER:  
**7**

SHEET NUMBER:  
1 of 1

SOURCE: MORROW SURVEYING, DWG. NO. 1275-071 CT, FEBRUARY 2009.

## **Tables**

**TABLE 1**  
**CUMULATIVE SOIL DATA**  
UNOCAL NO. 5484 (351812), RO352  
18950 LAKE CHABOT ROAD  
CASTRO VALLEY, CALIFORNIA

Sample Location	Date	Sample Area	Sample Depth (fbg)	TOG (ppm)	TPHd (mg/kg)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Total Xylenes (ppm)	MTBE (mg/kg)	HVOC (ppm)	Lead (mg/kg)
<b>Applied GeoSystems, 1988, Report of Subsurface Environmental Investigation, April 30.</b>													
S-15-B1 (MW-1)	7/12-13/1988	MW-1	15	--	--	3	0.06	0.56	0.24	1.21	--	--	--
S-5-B2 (MW-2)	7/12-13/1988	MW-2	5	--	--	12	0.16	0.92	0.66	3.58	--	--	--
S-5-B3 (MW-3)	7/12-13/1988	MW-3	5	--	--	79	0.83	6.63	3.81	26.12	--	--	--
<b>Applied GeoSystems 1990, Report on Soil Excavation, Aeration, and Sampling, March 30.</b>													
S-8.5-B4 (MW-4)	5/23-24/1989	MW-4	8.5	--	--	<2.0	<0.050	<0.050	<0.050	<0.050	--	--	--
S-13.5-B4 (MW-4)	5/23-24/1989	MW-4	13.5	--	--	<2.0	<0.050	<0.050	<0.050	<0.050	--	--	--
S-8.5-B5 (MW-5)	5/23-24/1989	MW-5	8.5	--	--	<2.0	<0.050	<0.050	<0.050	<0.050	--	--	--
S-13.5-B5 (MW-5)	5/23-24/1989	MW-5	13.5	--	--	2.4	<0.050	<0.050	<0.050	<0.050	--	--	--
S-8.5-B6 (MW-6)	5/23-24/1989	MW-6	8	--	--	<2.0	<0.050	<0.050	<0.050	<0.050	--	--	--
S-13.5-B6 (MW-6)	5/23-24/1989	MW-7	13.5	--	--	<2.0	<0.050	<0.050	<0.050	<0.050	--	--	--
<b>Applied GeoSystems 1990, Report on Soil Excavation, Aeration, and Sampling, March 30.</b>													
S-6-T1a	6/13/1989	Gasoline UST initial	6	--	--	2,100	13.00	110	37	230	--	--	--
S-6-T1b	6/13/1989		6	--	--	1,800	5.60	89	35	210	--	--	--
S-6-T2a	6/13/1989		6	--	--	4,300	12.00	160	57	350	--	--	--
S-6-T2b	6/13/1989		6	--	--	1,400	9.70	100	47	270	--	--	--
S-6-T2S	6/13/1989		6	--	--	1,800	4.20	48	39	240	--	--	--
S-15-Tb1	6/16/1989		15	--	--	<2.0	<0.050	0.056	<0.050	0.15	--	--	--
S-14-Tb2	6/16/1989		14	--	--	<2.0	<0.050	<0.050	<0.050	<0.050	--	--	--
S-14-Tb3	6/16/1989		14	--	--	<2.0	<0.050	<0.050	<0.050	<0.050	--	--	--
S-15-Tb4	6/16/1989	Gasoline UST	15	--	--	8.90	<0.050	0.27	0.13	0.88	--	--	--
S-12-WF	7/25/1989	Excavation	12 (?)	--	--	<2.0	<0.050	<0.050	<0.050	<0.050	--	--	--
S-0728-1A	7/28/1989		+	--	--	<2.0	<0.050	<0.050	<0.050	<0.050	--	--	--
S-15-PIT	8/1/1989		15	--	--	3.4	<0.050	<0.050	<0.050	<0.050	--	--	--
S-0803-1B	8/3/1989		+	--	--	<2.0	<0.050	<0.050	<0.050	<0.050	--	--	--
S-0803-1W	8/3/1989		++	--	--	<2.0	<0.050	<0.050	<0.050	<0.050	--	--	--
S-0719-1A/1B	5/30/1990	Gasoline UST	11.5	--	--	<2.0	<0.050	<0.050	<0.050	<0.050	--	--	--
S-0724-1A/1B	5/30/1990	Excavation	12	--	--	<2.0	<0.050	<0.050	<0.050	<0.050	--	--	--
S-0628-WT1,2	6/28/1989	Waste Oil UST	7	--	--	650	<2.0	8	3	26	--	--	--
S-0705-4A-4B	7/5/1989	Initial	7	1,200	--	110	0.026	0.110	0.065	0.480	--	--	--
S-0711-WT1	7/11/1989	Waste Oil UST	8	1300	--	480	<1.0	12	15	74	--	--	--
S-0711-WT2	7/11/1989	Excavation	8	1800	--	87	<0.5	1.3	2.1	9.1	--	--	--
<b>Applied GeoSystems 1990, Report on Soil Excavation, Aeration, and Sampling, March 30.</b>													
S-5.0-B7	11/17-18/1989		5	--	--	<2.0	<0.050	<0.050	<0.050	0.090	--	--	--
S-10.0-B7	11/17-18/1989	Southeast of	10	--	--	6.1	0.062	0.54	160	0.91	--	--	--
S-15.0-B7	11/17-18/1989	Waste Oil UST	15	--	--	--	--	--	--	--	--	ND	--
S-20.0-B7	11/17-18/1989		20	--	--	--	--	--	--	--	--	ND	--
S-5.0-B8	11/17-18/1989		5	--	--	--	--	--	--	--	--	ND	--
S-9.5-B8	11/17-18/1989	South of Waste	9.5	--	--	200	0.34	0.91	4.1	23	--	--	--
S-10.0-B8	11/17-18/1989	Oil UST	10	--	--	--	--	--	--	--	--	ND	--
S-15.0-B8	11/17-18/1989		15	--	--	66	0.12	0.430	1.1	5.9	--	--	--
S-10.0-B9	11/17-18/1989	South of	10	--	--	86	1.1	0.670	2	3.7	--	--	--
S-17.0-B9	11/17-18/1989	Gasoline USTs	17	--	--	3.7	<0.050	0.092	0.076	0.13	--	--	--

**TABLE 1**  
**CUMULATIVE SOIL DATA**  
UNOCAL NO. 5484 (351812), R0352  
18950 LAKE CHABOT ROAD  
CASTRO VALLEY, CALIFORNIA

Sample Location	Date	Sample Area	Sample Depth (fbg)	TOG (ppm)	TPHd (mg/kg)	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	MTBE (mg/kg)	HVOC (ppm)	Lead (mg/kg)
S-10.0-B10	11/17-18/1989	South of B-9	10	--	--	220	0.27	<0.050	5.6	16	--	--	--
S-19.5-B10	11/17-18/1989		19.5	--	--	16	0.081	0.120	0.62	1.8	--	--	--
S-10.0-B11	11/17-18/1989	West of Waste Oil UST	10	<50	--	45	0.074	0.330	1.2	3.1	--	--	--
S-14.5-B11	11/17-18/1989		14.5	--	--	--	--	--	--	--	--	ND	--
S-15.0-B11	11/17-18/1989		15	<50	--	--	3.4	<0.050	0.061	0.086	2.5	--	--
<b>Kaprealian Engineering, Inc. (KEI), Results of Soil and Groundwater Investigation, June 27, 1991</b>													
EB1 (3)	5/7/1991	East Along Sidewalk	3	--	--	1.8	ND	0.0066	0.05	0.12	--	--	--
EB1 (6.5)	5/7/1991		6.5	--	--	33	0.16	0.13	0.73	3.6	--	--	--
MW7 (4.5)*	5/7/1991	MW-7	4.5	--	ND	ND	ND	0.013	ND	0.013	--	--	--
MW7 (10)*	5/7/1991	MW-7	10	--	3.1	19	0.048	0.0086	0.5	1.6	--	--	--
MW7 (13)*	5/7/1991	MW-7	13	--	9.1	130	0.51	0.25	1.9	2.5	--	--	--
<b>Delta Consultants, Inc., 2005, Baseline Assessment Report, March 3, 2005.</b>													
B-1	1/13/2005	South of Waste Oil UST	1.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	21
B-2	1/13/2005	Southeast of Gasoline USTs	6.5	--	--	29	<0.024	<0.024	0.95	1.7	<0.024	--	--
B-2	1/13/2005		19.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--
B-4	1/13/2005	North of	7	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--
B-5	1/13/2005	Gasoline USTs	21.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--
<b>Delta Consultants, Inc., 2009, Well Replacement Report, April 2, 2009.</b>													
MW-4A@9	2/18/2009	MW-4A	9	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	7.2
MW-4B@10	2/18/2009	MW-4B	10	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	13
MW-4B@14	2/18/2009	MW-4B	14	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	13

**Abbreviations and Notes:**

TOG = Total oil and grease by Method SM 503  
TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015  
TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015  
Benzene, toluene ethylbenzene and total xylenes by EPA Method 8020  
MTBE = Methyl tert butyl ether by EPA Method 8020  
HVOC = Halogenated Volatile Organic Compounds by EPA Method 8010  
fbg = Feet below grade  
mg/kg = Milligrams per kilogram  
ppm = Parts per million  
ND = Not detected at or above laboratory detection limits  
<x.xx = Not detected at or above laboratory detection limit indicated  
\* = TOG and all EPA Method 8010 constituents were nondetectable.  
? = Approximate depth  
1234 = Sample point overexcavated  
+ = Floor excavation  
++ = Sidewall of excavation

**Table 2**  
**Groundwater Analytical Results**  
 Unocal No. 5484 (351812), RO352  
 18950 Lake Chabot Road  
 Castro Valley, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL (ft)	TPH-d (µg/L)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8021 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	Naphthalene (µg/L)	1,2-DCA (µg/L)	
MW-1 Screened From 10 to 30 feet bgs		7/88	5.16	--	0	--	540	6.1	82.7	35.6	180.3	--	--	--	--	--	
		10/88	7.10	--	0	--	1420	13.2	4.1	163.8	58.1	--	--	--	--	--	
		11/02/88	6.08	--	0			not sampled,gauging only				--	--	--	--	--	
		11/09/88	6.14	--	0			not sampled,gauging only				--	--	--	--	--	
		12/15/88	6.51	--	<0.01			not sampled,gauging only				--	--	--	--	--	
		01/03/89	5.10	--	0	--	410	6.5	10.4	11.8	44.2	--	--	--	--	--	
		01/16/89	4.75	--	0			not sampled,gauging only				--	--	--	--	--	
		02/15/89	5.13	--	0			not sampled,gauging only				--	--	--	--	--	
		03/17/89	3.68	--	0			not sampled,gauging only				--	--	--	--	--	
		04/14/89	3.12	--	0			not sampled,gauging only				--	--	--	--	--	
		05/19/89	3.46	--	0			not sampled,gauging only				--	--	--	--	--	
		6/89						Well Destroyed during tank excavation									
	MW-2 Screened From 4 to 19 feet bgs	--	7/88	6.85	--	0	--	1080	72	139	33	157	--	--	--	--	--
--		10/88	7.81	--	0	--	1140	80	10	25	26	--	--	--	--	--	
--		11/02/88	7.83	--	0			not sampled,gauging only				--	--	--	--	--	
--		11/09/88	7.98	--	0			not sampled,gauging only				--	--	--	--	--	
--		12/15/88	7.89	--	0			not sampled,gauging only				--	--	--	--	--	
--		01/03/89	6.50	--	0	--	4040	80	10	26	25	--	--	--	--	--	
--		01/16/89	6.02	--	0			not sampled,gauging only				--	--	--	--	--	
--		02/15/89	5.22	--	0			not sampled,gauging only				--	--	--	--	--	
--		03/17/89	3.98	--	0			not sampled,gauging only				--	--	--	--	--	
--		04/14/89	3.83	--	0			not sampled,gauging only				--	--	--	--	--	
--		05/19/89	4.85	--	0			not sampled,gauging only				--	--	--	--	--	
--		06/29/89	7.24	--	0	--	550	2.7	1.9	10	34	--	--	--	--	--	
--		11/17/89	7.73	--	0	--	720	1.4	1.4	5.9	34	--	--	--	--	--	
--		02/28/90	4.53	--	0	--	420	5.0	<0.50	3	17	--	--	--	--	--	
--		05/08/90	5.50	--	0	--	1100	9.7	0.95	14	48	--	--	--	--	--	
--		08/24/90	6.04	--	0	--	630	13	1.0	7.2	10	--	--	--	--	--	
--		11/29/90	7.48	--	0	--	190	1.6	<0.50	0.7	0.8	--	--	--	--	--	
--		02/01/91	--	--	--	--	280	2.6	<0.50	0.7	0.9	--	--	--	--	--	
229.47		05/23/91	6.58	--	0	--	ND	ND	ND	ND	ND	--	--	--	--	--	
229.47		07/20/91	7.24	--	0			not sampled,gauging only				--	--	--	--	--	
229.47	08/21/91	7.42	--	0			not sampled,gauging only				--	--	--	--	--		
229.47	09/20/91	7.85	--	0	--	ND	ND	ND	ND	ND	--	--	--	--	--		
229.47	12/19/91	--	--	--	--	140	0.66	ND	0.64	1.2	--	--	--	--	--		
229.47	03/20/92	--	--	--	--	120	ND	ND	ND	ND	--	--	--	--	--		
229.47	06/18/92	--	--	--	--	140	ND	ND	ND	ND	--	--	--	--	--		
229.47	09/10/92	7.44	222.03	0	--	61	ND	ND	ND	ND	110	--	--	--	--		
229.47	12/10/92	7.55	221.92	0	--	100	ND	ND	ND	ND	170	--	--	--	--		
229.47	03/10/93	4.69	224.78	0	--	110	ND	ND	ND	ND	350	--	--	--	--		

**Table 2**  
**Groundwater Analytical Results**  
 Unocal No. 5484 (351812), RO352  
 18950 Lake Chabot Road  
 Castro Valley, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL (ft)	TPH-d (µg/L)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8021 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	Naphthalene (µg/L)	1,2-DCA (µg/L)	
<b>MW-2 cont.</b>	229.47	06/09/93	5.85	223.62	0	--	120	ND	ND	ND	ND	300	--	--	--	--	
	228.88	09/09/93	6.59	222.29	0	--	210	ND	ND	ND	ND	--	--	--	--	--	
	228.88	12/09/93	6.94	221.94	0	--	96	ND	ND	ND	ND	--	--	--	--	--	
	228.88	03/03/94	4.91	223.97	0	--	240	ND	ND	ND	ND	--	--	--	--	--	
	228.88	06/03/94	5.71	223.17	0	--	190	ND	ND	ND	ND	--	--	--	--	--	
	228.88	09/02/94	7.05	221.83	0	--	720	ND	ND	ND	4.6	--	--	--	--	--	
	228.88	12/01/94	6.98	221.90	0	--	200	0.7	ND	0.58	ND	--	--	--	--	--	
	228.88	03/01/95	4.60	224.28	0	--	ND	ND	ND	ND	ND	--	--	--	--	--	
	228.88	06/01/95	4.65	224.23	0	--	420	ND	ND	ND	ND	--	--	--	--	--	
	228.88	09/05/95	5.66	223.22	0	--	ND	ND	0.8	ND	0.74	--	--	--	--	--	
	228.88	12/05/95	6.32	222.56	0	--	ND	ND	ND	ND	ND	390	--	--	--	--	
	228.88	04/11/96	4.22	224.66	0	--	--	--	--	--	--	--	--	--	--	--	
	228.88	03/13/97	6.58	222.30	0	--	--	--	--	--	--	--	--	--	--	--	
	228.88	03/02/98	5.18	223.70	0	--	--	--	--	--	--	--	--	--	--	--	
	228.88	03/25/99	4.84	224.04	0	--	--	--	--	--	--	--	--	--	--	--	
	228.88	03/07/00	4.92	223.96	0	--	--	--	--	--	--	--	--	--	--	--	
	228.88	03/28/01	4.37	224.51	0	--	--	--	--	--	--	--	--	--	--	--	
	228.88	03/09/02	4.29	224.59	0	--	--	--	--	--	--	--	--	--	--	--	
	228.88	03/24/03	4.24	224.64	0	--	--	--	--	--	--	--	--	--	--	--	
	228.88	03/26/04	4.66	224.22	0	--	--	--	--	--	--	--	--	--	--	--	
	228.88	01/13/05	--	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.0	--	110	18	--	<0.50
	228.88	03/17/05	4.08	224.80	0	--	--	--	--	--	--	--	--	--	--	--	--
	228.88	03/31/06	4.06	224.82	0	--	--	--	--	--	--	--	--	--	--	--	--
	228.88	02/16/07	4.87	224.01	0	--	--	--	--	--	--	--	--	--	--	--	--
	228.88	01/21/08	4.83	224.05	0	--	--	--	--	--	--	--	--	--	--	--	--
	231.66	02/25/09	4.32	227.34	0	--	--	260	0.64	<0.30	6.9	<0.60	220	270	--	<2.0	<0.50
	231.66	06/12/09	5.00	226.66	0	--	--	--	--	--	--	--	--	--	--	--	--
	231.66	11/06/09	5.62	226.04	0	--	--	--	--	--	--	--	--	--	--	--	--
	231.66	01/13/10	5.02	226.64	0	--	--	470	0.65	0.67	4.1	3.3	260	350	--	<2.0	--
	231.66	03/30/11	4.80	226.86	0	--	--	<50	0.37	<0.30	6.4	<0.60	46	47	--	--	--
231.66	03/30/12	5.17	226.49	0	--	--	<50	<0.30	<0.30	<0.30	<0.60	17	19	150	--	<0.50	
<b>231.66</b>	<b>03/08/13</b>	<b>5.53</b>	<b>226.13</b>	<b>0</b>	<b>--</b>	<b>--</b>	<b>&lt;50</b>	<b>&lt;0.30</b>	<b>&lt;0.30</b>	<b>&lt;0.30</b>	<b>&lt;0.60</b>	<b>2.7</b>	<b>4.7</b>	<b>47</b>	<b>&lt;2.0</b>	<b>&lt;0.50</b>	
<b>MW-3 Screened From 5 to 20 feet bgs</b>	7/88	7.49	--	0.00	--	--	7800	385	640	369	2258	--	--	--	--	--	
	10/88	9.06	--	0.75	--	--	not sampled, due to floating product			--	--	--	--	--	--		
	11/02/88	9.12	--	0.96	--	--	not sampled,gauging only			--	--	--	--	--			
	11/09/88	7.60	--	0.06	--	--	not sampled,gauging only			--	--	--	--	--			
	12/15/88	7.97	--	0.56	--	--	not sampled,gauging only			--	--	--	--	--			
	01/03/89	7.20	--	0.09	--	--	not sampled, due to floating product			--	--	--	--	--			
01/16/89	6.36	--	0.22	--	--	not sampled, due to floating product			--	--	--	--	--				

**Table 2**  
**Groundwater Analytical Results**  
 Unocal No. 5484 (351812), RO352  
 18950 Lake Chabot Road  
 Castro Valley, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL (ft)	TPH-d (µg/L)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8021 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	Naphthalene (µg/L)	1,2-DCA (µg/L)
MW-3 cont.		02/15/89	5.16	--	0.01			not sampled, due to floating product				--	--	--	--	--
		03/17/89	5.01	--	0.04			not sampled, due to floating product				--	--	--	--	--
		04/14/89	4.71	--	<0.01			not sampled, due to floating product				--	--	--	--	--
		05/19/89	5.49	--	0.00			not sampled,gauging only				--	--	--	--	--
		6/89	Well Destroyed during tank excavation													
MW-4	--	06/29/89	9.95	--	0		<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
Screened	--	11/17/89	10.56	--	0		<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
From	--	02/28/90	9.40	--	0		<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
7 to 27	--	05/08/90	9.70	--	0		<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
feet bgs	--	08/24/90	10.10	--	0		<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
	--	11/29/90	10.90	--	0		<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
	228.08	05/23/91	9.20	218.88	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	228.08	07/20/91	9.95	218.13	0			not sampled,gauging only				--	--	--	--	--
	228.08	08/21/91	10.05	218.03	0			not sampled,gauging only				--	--	--	--	--
	228.08	09/20/91	10.50	217.58	0	--	--	--	--	--	--	--	--	--	--	--
	228.08	12/19/91	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--
	228.08	06/18/92	--	--	--	--	ND	0.41	0.84	ND	0.55	--	--	--	--	--
	228.08	09/10/92	10.54	217.54	0	--	--	--	--	--	--	--	--	--	--	--
	228.08	12/10/92	9.74	218.34	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	228.08	03/10/93	7.24	220.84	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	228.08	06/09/93	8.79	219.29	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	227.77	09/09/93	9.91	217.86	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	227.77	03/03/94	6.98	220.79	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	227.77	06/03/94	8.26	219.51	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	227.77	09/02/94	10.08	217.69	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	227.77	12/01/94	10.01	217.76	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	227.77	03/01/95	7.29	220.48	0	--	ND	ND	1.1	ND	0.75	--	--	--	--	--
	227.77	06/01/95	7.65	220.12	0	--	ND	ND	0.78	ND	1.7	--	--	--	--	--
	227.77	09/05/95	9.27	218.50	0	--	ND	ND	0.7	ND	0.71	--	--	--	--	--
	227.77	12/05/95	9.92	217.85	0	--	ND	ND	ND	ND	ND	0.68	--	--	--	--
	227.77	04/11/96	7.55	220.22	0	--	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	227.77	03/13/97	9.84	217.93	0	--	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	227.77	03/02/98	8.84	218.93	0	--	ND	ND	ND	ND	ND	ND	--	--	--	ND
	227.77	03/25/99	7.46	220.31	0	--	ND	ND	ND	ND	ND	7.6	--	--	ND	ND
	227.77	03/07/00	7.58	220.19	0	--	ND	ND	1.11	ND	ND	ND	--	--	ND	ND
	227.77	03/28/01	7.62	220.15	0	--	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	227.77	03/09/02	6.64	221.13	0	--	270	3.1	<1.0	5	<1.0	1,200	--	--	<5.0	<2.5
	227.77	03/24/03	Inaccessible									--	--	--	--	--
	227.77	03/26/04	Unable to Locate									--	--	--	--	--

**Table 2**  
**Groundwater Analytical Results**  
 Unocal No. 5484 (351812), RO352  
 18950 Lake Chabot Road  
 Castro Valley, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL (ft)	TPH-d (µg/L)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8021 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	Naphthalene (µg/L)	1,2-DCA (µg/L)
<b>MW-4 cont.</b>	227.77	03/17/05	Unable to Locate									--	--	--	--	--
	227.77	03/31/06	Unable to Locate									--	--	--	--	--
	227.77	02/16/07	Unable to Locate									--	--	--	--	--
	227.77	01/21/08	Inaccessible									--	--	--	--	--
	Well Destroyed															
<b>MW-4A Screened From 6 to 10 feet bgs</b>	232.55	02/25/09	7.45	225.10	0	--	<50	<0.30	<0.30	<0.30	<0.60	<1.0	<0.50	--	<2.0	<0.50
	232.55	06/12/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	232.55	08/19/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	232.55	11/06/09	6.02	226.53	0	--	<50	<0.30	<0.30	<0.30	<0.60	<1.0	<0.50	<10	<2.0	<0.50
	232.55	01/13/10	6.45	226.10	0	--	<50	<0.30	<0.30	<0.30	<0.60	<1.0	<0.50	<10	<2.0	<0.50
Well Destroyed																
<b>MW-4B Screened From 10 to 14 feet bgs</b>	232.91	02/25/09	8.65	224.26	0	--	<50	<0.30	<0.30	<0.30	<0.60	<1.0	<0.50	--	<2.0	<0.50
	232.91	06/12/09	10.04	222.87	0	--	<50	<0.30	<0.30	<0.30	<0.60	<1.0	<0.50	<10	<2.0	<0.50
	232.91	08/19/09	10.25	222.66	0	--	<50	<0.30	<0.30	<0.30	<0.60	<1.0	<0.50	<10	<2.0	<0.50
	232.91	11/06/09	9.40	223.51	0	--	<50	<0.30	<0.30	<0.30	<0.60	<1.0	<0.50	<10	<2.0	<0.50
	232.91	01/13/10	8.84	224.07	0	--	<50	<0.30	<0.30	<0.30	<0.60	<1.0	<0.50	<10	<2.0	<0.50
Well Destroyed																
<b>MW-5 Screened From 9 to 24 feet bgs</b>	--	06/29/89	9.03	--	0	--	<20	0.83	<0.50	0.57	0.94	--	--	--	--	--
	--	11/17/89	9.56	--	0	--	<20	<0.50	<0.50	<0.50	0.63	--	--	--	--	--
	--	02/28/90	8.26	--	0	--	<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
	--	05/08/90	8.89	--	0	--	<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
	--	08/24/90	9.93	--	0	--	<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
	--	11/29/90	10.53	--	0	--	<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
	225.42	05/23/91	9.47	215.95	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	225.42	07/20/91	10.22	215.20	0	--	not sampled,gauging only					--	--	--	--	--
	225.42	08/21/91	10.31	215.11	0	--	not sampled,gauging only					--	--	--	--	--
	225.42	09/20/91	10.80	214.62	0	450	ND	ND	ND	ND	ND	--	--	--	--	--
	225.42	10/10/91	10.98	214.44	0	ND	--	--	--	--	--	--	--	--	--	--
	225.42	12/19/91	--	--	--	--	ND	ND	ND	ND	ND	--	--	--	--	--
	225.42	03/20/92	--	--	--	170	ND	ND	ND	ND	ND	--	--	--	--	--
	225.42	06/18/92	--	--	--	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	225.42	09/10/92	9.96	215.46	0	110	ND	ND	ND	ND	ND	--	--	--	--	--
	225.42	12/10/92	10.12	215.30	0	83	ND	ND	ND	ND	ND	--	--	--	--	--
	225.42	03/10/93	7.67	217.75	0	69	ND	ND	ND	ND	ND	--	--	--	ND	ND
225.42	06/09/93	8.57	216.85	0	64	ND	ND	ND	ND	ND	--	--	--	--	ND	
225.11	09/09/93	9.12	215.99	0	58	ND	ND	ND	ND	ND	--	--	--	--	ND	

**Table 2**  
**Groundwater Analytical Results**  
Unocal No. 5484 (351812), RO352  
18950 Lake Chabot Road  
Castro Valley, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL (ft)	TPH-d (µg/L)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8021 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	Naphthalene (µg/L)	1,2-DCA (µg/L)
<b>MW-5 cont.</b>	225.11	12/09/93	9.97	215.14	0	87	ND	ND	ND	ND	ND	--	--	--	--	ND
	225.11	03/03/94	7.87	217.24	0	ND	ND	ND	ND	0.71	1.7	ND	--	--	--	ND
	225.11	06/03/94	9.01	216.10	0	80	ND	ND	ND	ND	ND	--	--	--	--	ND
	225.11	09/02/94	9.23	215.88	0	130	ND	ND	ND	ND	ND	--	--	--	--	ND
	225.11	12/01/94	9.18	215.93	0	79	ND	ND	ND	ND	ND	--	--	--	--	ND
	225.11	03/01/95	7.98	217.13	0	ND	ND	ND	ND	ND	ND	--	--	--	--	ND
	225.11	06/01/95	8.21	216.90	0	57	ND	ND	ND	ND	ND	--	--	--	--	ND
	225.11	09/05/95	9.57	215.54	0	210	ND	ND	0.95	ND	0.87	--	--	--	--	ND
	225.11	12/05/95	9.60	215.51	0	170	ND	ND	ND	ND	ND	27	--	--	--	ND
	225.11	04/11/96	7.48	217.63	0	--	ND	ND	ND	ND	ND	56	--	--	ND	ND
	225.11	03/13/97	9.56	215.55	0	--	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	225.11	03/02/98	8.96	216.15	0	--	ND	ND	ND	ND	ND	ND	--	--	--	ND
	225.11	03/25/99	7.53	217.58	0	--	ND	ND	ND	ND	ND	3.9	--	--	ND	ND
	225.11	03/07/00	7.49	217.62	0	--	ND	ND	1.13	ND	ND	ND	--	--	ND	ND
	225.11	03/28/01	6.83	218.28	0	--	ND	ND	ND	ND	ND	ND	--	--	ND	ND
	225.11	03/09/02	5.85	219.26	0	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	<5.0	<0.50
	225.11	03/24/03	5.90	219.21	0	--	561	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	<2.0	<0.50
	225.11	03/26/04	6.93	218.18	0	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	<2.0	<0.50
	225.11	03/17/05	6.08	219.03	0	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	--	<0.50
	225.11	03/31/06	5.51	219.60	0	--	<50	<0.50	<0.50	1.7	<1.0	--	2.9	--	<2.1	<0.50
	225.11	02/16/07	6.05	219.06	0	--	<50	<0.30	<0.30	<0.30	<0.60	1.5	2.6	--	<2.0	<0.50
	225.11	01/21/08	7.43	217.68	0	--	<50	<0.30	<0.30	<0.30	<0.60	<1.0	1.3	--	<2.0	<0.50
	227.90	02/25/09	6.31	221.59	0	--	<50	<0.30	<0.30	<0.30	<0.60	1.5	2.1	--	<2.0	<0.50
	227.90	06/12/09	7.88	220.02	0	--	--	--	--	--	--	--	--	--	--	--
	227.90	08/19/09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	227.90	11/06/09	8.42	219.48	0	--	--	--	--	--	--	--	--	--	--	--
	227.90	01/13/10	7.43	220.47	0	--	<50	<0.30	0.48	<0.30	1.7	1.3	1.9	<10	<2.0	<0.50
	227.90	03/30/11	5.47	222.43	0	--	<50	<0.30	<0.30	<0.30	<0.60	1.1	1.9	<10	<2.0	8.4
	227.90	03/30/12	5.54	222.36	0	--	<50	<0.30	<0.30	<0.30	<0.60	1.2	2.4	<10	<2.0	<0.50
	<b>227.90</b>	<b>03/08/13</b>	<b>7.85</b>	<b>220.05</b>	<b>0</b>	<b>--</b>	<b>&lt;50</b>	<b>&lt;0.30</b>	<b>&lt;0.30</b>	<b>&lt;0.30</b>	<b>&lt;0.60</b>	<b>&lt;1.0</b>	<b>0.87</b>	<b>&lt;10</b>	<b>&lt;2.0</b>	<b>&lt;0.50</b>
<b>MW-6</b>	--	08/01/89	7.34	--	0	--	26	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
<b>Screened</b>	--	11/17/89	8.36	--	0	--	<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
<b>From</b>	--	02/28/90	7.05	--	0	--	<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
<b>7 to 27</b>	--	05/08/90	7.35	--	0	--	<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
<b>feet bgs</b>	--	08/24/90	8.15	--	0	--	<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
	--	11/29/90	9.40	--	0	--	<20	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
	--	05/23/91	7.38	--	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	--	07/20/91	8.01	--	0	--	not sampled,gauging only					--	--	--	--	--

**Table 2**  
**Groundwater Analytical Results**  
 Unocal No. 5484 (351812), RO352  
 18950 Lake Chabot Road  
 Castro Valley, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL (ft)	TPH-d (µg/L)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8021 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	Naphthalene (µg/L)	1,2-DCA (µg/L)
MW-6 cont.	--	08/21/91	8.36	--	0			not sampled, gauging only				--	--	--	--	--
	--	09/20/91	8.61	--	0	--	--	--	--	--	--	--	--	--	--	--
	--	12/19/91	--	--	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	--	06/18/92	--	--	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	239.38	12/10/92	8.07	231.31	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	239.38	03/10/93	5.32	234.06	0	--	--	--	--	--	--	--	--	--	--	--
	239.38	06/09/93	5.94	233.44	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	239.04	09/09/93	6.82	232.22	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	12/09/93	7.43	231.61	0	--	150	ND	ND	ND	1.7	--	--	--	--	--
	239.04	03/03/94	6.45	232.59	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	06/03/94	5.81	233.23	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	239.04	09/02/94	6.98	232.06	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	12/01/94	6.92	232.12	0	--	ND	ND	ND	ND	ND	--	--	--	--	--
	239.04	01/13/05	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<5.0	--	<0.50
	239.04	03/01/95	5.17	233.87	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	06/01/95	4.76	234.28	0	--	ND	ND	0.7	ND	1.7	--	--	--	--	--
	239.04	09/05/95	5.69	233.35	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	12/05/95	6.75	232.29	0	--	ND	ND	ND	ND	ND	1.4	--	--	--	--
	239.04	04/11/96	4.28	234.76	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	03/13/97	7.05	231.99	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	03/02/98	5.14	233.90	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	03/25/99	5.05	233.99	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	03/07/00	5.15	233.89	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	03/28/01	5.17	233.87	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	03/09/02	5.13	233.91	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	03/24/03	5.13	233.91	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	03/26/04	5.10	233.94	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	03/17/05	4.09	234.95	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	03/31/06	2.99	236.05	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	02/16/07	4.07	234.97	0	--	--	--	--	--	--	--	--	--	--	--
	239.04	01/21/08	4.47	234.57	0	--	--	--	--	--	--	--	--	--	--	--
	241.74	02/25/09	3.73	238.01	0	--	<50	<0.30	<0.30	<0.30	<0.60	<1.0	<0.50	--	<2.0	--
	241.74	06/12/09	5.25	236.49	0	--	--	--	--	--	--	--	--	--	--	--
	241.74	11/06/09	5.64	236.10	0	--	--	--	--	--	--	--	--	--	--	<0.50
	241.74	01/13/10	5.34	236.40	0	--	54	<0.30	0.83	<0.30	3.7	<1.0	<0.50	<10	<2.0	<0.50
	241.74	03/30/11	4.72	237.02	0	--	<50	<0.30	<0.30	<0.30	<0.60	<1.0	<0.50	<10	<2.0	<0.50
	241.74	03/30/12	4.99	236.75	0	--	<50	<0.30	<0.30	<0.30	<0.60	<1.0	<0.50	<10	<2.0	<0.50
	<b>241.74</b>	<b>03/08/13</b>	<b>5.83</b>	<b>235.91</b>	<b>0</b>	--	<b>&lt;50</b>	<b>&lt;0.30</b>	<b>&lt;0.30</b>	<b>&lt;0.30</b>	<b>&lt;0.60</b>	<b>&lt;1.0</b>	<b>&lt;0.50</b>	<b>&lt;10</b>	<b>&lt;2.0</b>	<b>&lt;0.50</b>

**Table 2**  
**Groundwater Analytical Results**  
Unocal No. 5484 (351812), RO352  
18950 Lake Chabot Road  
Castro Valley, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL (ft)	TPH-d (µg/L)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8021 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	Naphthalene (µg/L)	1,2-DCA (µg/L)
MW-7	231.66	05/23/91	9.63	222.03	0	540	3,000	160	1.2	25	120	--	--	--	--	3.4
Screened	231.66	07/20/91	10.70	220.96	0			not sampled,gauging only				--	--	--	--	--
From	231.66	08/21/91	11.04	220.62	0			not sampled,gauging only				--	--	--	--	--
4.8 to 19.8	231.66	09/20/91	11.46	220.20	0	580	1,400	160	0.75	89	130	--	--	--	--	ND
feet bgs	231.66	12/19/91	--	--	--	770	3,900	240	2.4	280	270	--	--	--	--	3.1
	231.66	03/20/92	--	--	--	3,200	11,000	980	ND	990	1,600	--	--	--	--	ND
	231.66	06/18/92	--	--	--	990	5,500	340	4.2	380	410	--	--	--	--	ND
	231.66	09/10/92	7.44	224.22	0	290	2,100	160	1.9	140	150	--	--	--	--	2.3
	231.66	12/10/92	11.01	220.65	0	200	1,200	28	ND	37	13	--	--	--	--	2
	231.66	03/10/93	7.69	223.97	0	1,100	4,400	310	ND	300	330	--	--	--	83	1.3
	231.66	06/09/93	8.59	223.07	0	830	4,600	430	ND	510	430	--	--	--	83	1.3
	231.39	09/09/93	10.11	221.28	0	550	2,600	160	19	250	120	--	--	--	48	1.5
	231.39	12/09/93	10.65	220.74	0	250	980	54	4.6	71	5.6	--	--	--	15	1.5
	231.39	03/03/94	8.17	223.22	0	1,400	9,300	290	ND	590	400	1.7	--	--	130	1.7
	231.39	06/03/94	8.73	222.66	0	2,000	9,400	380	5	820	240	--	--	--	61	1.4
	231.39	09/02/94	11.00	220.39	0	490	3,800	77	ND	180	42	--	--	--	ND	1.1
	231.39	12/01/94	10.95	220.44	0	260	3,100	80	ND	250	190	--	--	--	2.5	1
	231.39	03/01/95	8.03	223.36	0	1,900	3,300	200	3.9	300	350	--	--	--	120	1.6
	231.39	06/01/95	7.92	223.47	0	1,600	3,900	170	ND	400	430	--	--	--	83	1.4
	231.39	09/05/95	8.61	222.78	0	ND	710	32	ND	85	33	--	--	--	7	1.8
	231.39	12/05/95	9.69	221.70	0	110	400	23	ND	34	16	1,600	--	--	--	ND
	231.39	12/08/95	9.59	221.80	0	--	--	--	--	--	--	--	--	--	14	--
	231.39	04/11/96	7.31	224.08	0	--	1,500	52	ND	160	130	1,500	--	--	42	0.75
	231.39	03/13/97	9.48	221.91	0	--	460	13	ND	31	4	430	--	--	9	ND
	231.39	03/02/98	7.93	223.46	0	--	1,800	63	ND	240	60	790	--	--	--	0.92
	231.39	03/25/99	7.25	224.14	0	--	380	6.4	ND	10	4.9	1,200	--	--	ND	ND
	231.39	03/07/00	7.12	224.27	0	--	199	3.51	ND	3.3	0.697	1,250	--	--	ND	ND
	231.39	03/28/01	6.92	224.47	0	--	734	19.6	0.514	23.3	6.13	1,070	1,260	ND	7.7	ND
	231.39	03/09/02	6.48	224.91	0	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	<5.0	<0.50
	231.39	03/24/03	6.42	224.97	0	--	--	<10	<10	<10	<20	--	1,600	--	--	0.98
	231.39	03/26/04	7.25	224.14	0	--	2,800	34	<25	120	33	1,200	--	--	17	<10
	231.39	01/13/05	--	--	--	--	1,200	4.9	<0.5	20	<1.0	1,100	--	240	--	<5.0
	231.39	03/17/05	7.02	224.37	0	--	2,700	<5.0	<5.0	160	15	940	--	--	--	<10
	231.39	03/31/06	6.74	224.65	0	--	450	8.7	<2.5	33	<5.0	--	260	--	6.2	<2.5
	231.39	02/16/07	6.95	224.44	0	--	1,600	11	<0.30	61	4.2	350	410	--	37	0.66
	231.39	01/21/08	7.21	224.18	0	--	1,300	11	<0.60	45	<1.2	250	240	--	40	0.77
	234.13	02/25/09	6.61	227.52	0	--	1,000	15	0.7	70	<0.60	130	170	--	27	<0.50
	234.13	06/12/09	7.51	226.62	0	--	--	--	--	--	--	--	--	740	--	<0.50
	234.13	08/19/09	--	--	--	--	--	--	--	--	--	--	--	790	--	<5.0

**Table 2**  
**Groundwater Analytical Results**  
 Unocal No. 5484 (351812), RO352  
 18950 Lake Chabot Road  
 Castro Valley, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL (ft)	TPH-d (µg/L)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8021 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	Naphthalene (µg/L)	1,2-DCA (µg/L)
<b>MW-7 cont.</b>	234.13	11/06/09	8.18	225.95	0	--	--	--	--	--	--	--	--	160	--	<0.50
	234.13	01/13/10	7.50	226.63	0	--	1,800	10	2.4	60	6.4	240	230	<10	150	<0.50
	234.13	03/30/11	6.27	227.86	0	--	680	4.9	0.41	7.2	0.77	44	58	74	8.4	<0.50
	234.13	03/30/12	7.13	227.00	0	--	1,900	13	0.87	16	1.9	79	<1.0	370	32	<1.0
	<b>234.13</b>	<b>03/08/13</b>	<b>7.65</b>	<b>226.48</b>	<b>0</b>	--	<b>1,900</b>	<b>5.8</b>	<b>&lt;1.5</b>	<b>3.9</b>	<b>&lt;3.0</b>	<b>42</b>	<b>25</b>	<b>480</b>	<b>41</b>	<b>&lt;0.50</b>
<b>GW-1</b>	--	<b>1/13/2005</b>	<b>2.0</b>	--	<b>0</b>	--	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;1.0</b>	--	<b>&lt;0.5</b>	<b>&lt;5.0</b>	--	<b>&lt;0.50</b>
<b>GW-2</b>	--	<b>1/13/2005</b>	<b>17.2</b>	--	<b>0</b>	--	<b>&lt;250</b>	<b>1.4</b>	<b>&lt;0.5</b>	<b>2.3</b>	<b>2.7</b>	--	<b>1600</b>	<b>590</b>	--	<b>&lt;0.50</b>
<b>GW-4</b>	--	<b>1/13/2005</b>	<b>4.5</b>	--	<b>0</b>	--	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;1.0</b>	--	<b>&lt;0.5</b>	<b>&lt;5.0</b>	--	<b>&lt;0.50</b>
<b>GW-5</b>	--	<b>1/13/2005</b>	<b>22.4</b>	--	<b>0</b>	--	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;1.0</b>	--	<b>&lt;0.5</b>	<b>&lt;5.0</b>	--	<b>&lt;0.50</b>

**NOTES:**

\* TOC and GWE are in feet above mean sea level.

<# = Analyte not detected at or above indicated laboratory reporting limit

**Notes:**

TOC = Top of casing

LNAPL = Light Non-Aqueous Phase Liquid

ft = Feet

fbg = feet below grade

DTW = Depth to water below TOC

GWE = Groundwater elevation

-- = Not available

µg/L = Micrograms per liter

ID = Identification

TPH-d = Total Petroleum Hydrocarbons as Diesel

TPH-g = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary-butyl ether

## Charts

Chart 1: Point Attenuation for MW-2

Unocal No. 5484 (351812), RO352

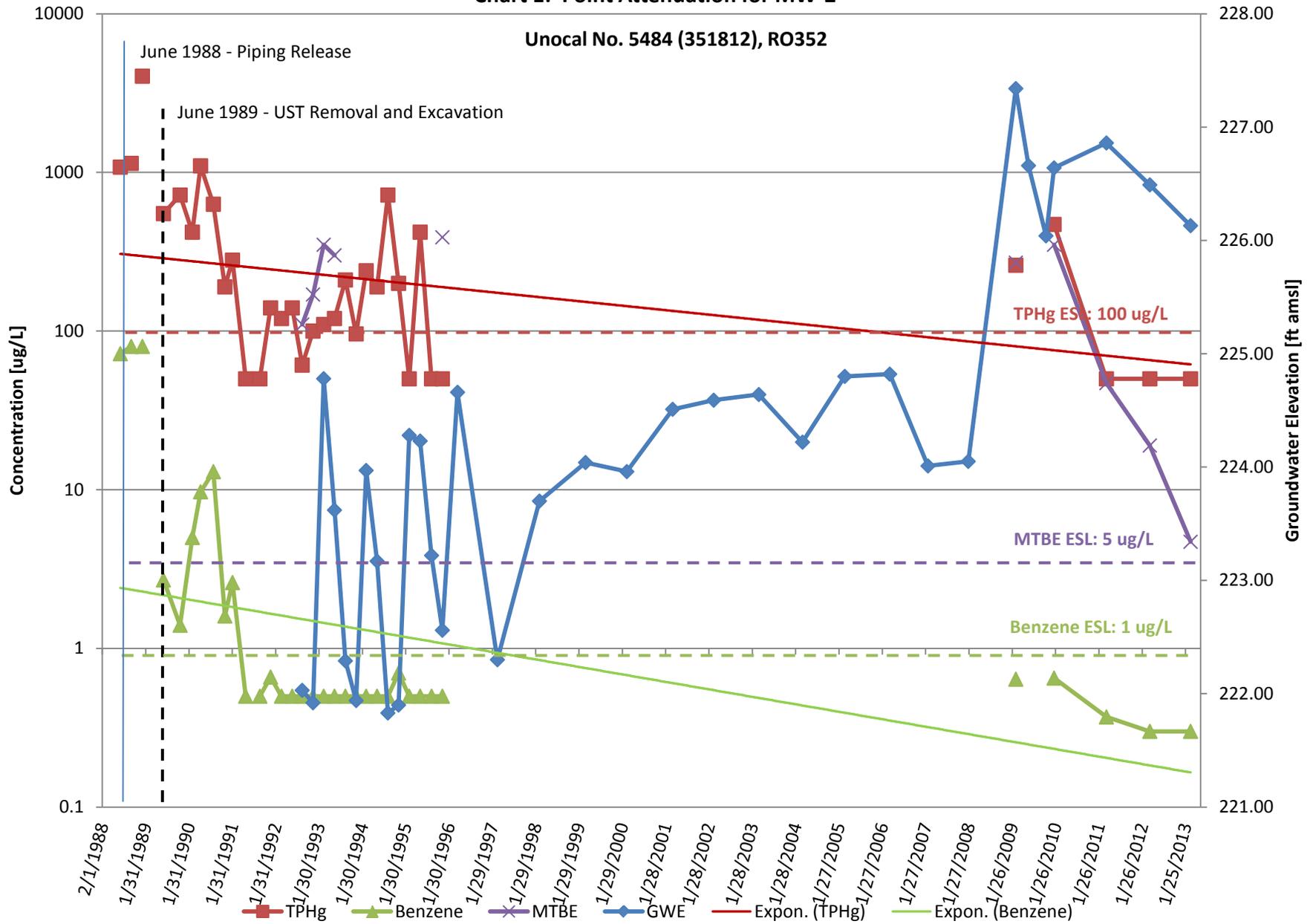
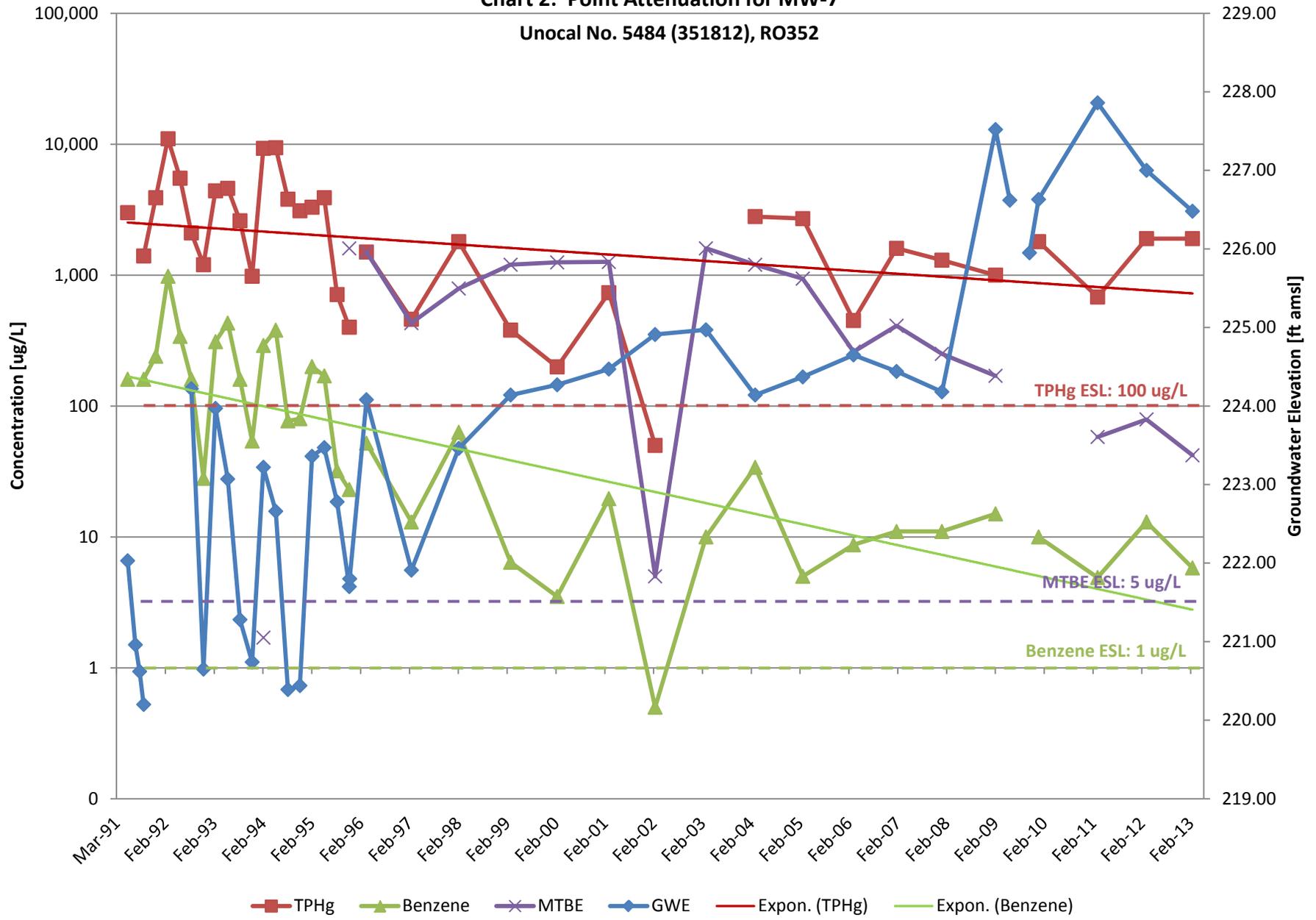


Chart 2: Point Attenuation for MW-7

Unocal No. 5484 (351812), RO352



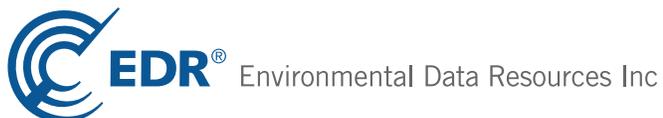
**Attachment A**  
**EDR Report**

**Chevron Station #351812, Former Unocal #5484**

18950 Lake Chabot Road  
Castro Valley, CA 94546

Inquiry Number: 3429659.2s  
October 10, 2012

# The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road  
Milford, CT 06461  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

18950 LAKE CHABOT ROAD  
CASTRO VALLEY, CA 94546

#### COORDINATES

Latitude (North): 37.7085000 - 37° 42' 30.60"  
Longitude (West): 122.0904000 - 122° 5' 25.44"  
Universal Transverse Mercator: Zone 10  
UTM X (Meters): 580178.4  
UTM Y (Meters): 4173657.5  
Elevation: 236 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 37122-F1 HAYWARD, CA  
Most Recent Revision: 1980

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2009, 2010  
Source: USDA

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
UNION OIL SS# 5484 18950 LAKE CHABOT RD CASTRO VALLEY, CA 94546	HIST UST HAZNET	N/A
SUNNY'S 76 UNOCAL #255484 18950 LAKE CHABOT RD CASTRO VALLEY, CA	UST	N/A
LANDLINK ENTERPRISES 18950 LAKE CHABOT RD CASTRO VALLEY, CA 94546	HAZNET	N/A
GORDON K. MCHUGH 18950 LAKE CHABOT RD CASTRO VALLEY, CA 94546	HIST UST	N/A

## EXECUTIVE SUMMARY

TOSCO CORPORATION STATION #30901 18950 LAKE CHABOT RD CASTRO VALLEY, CA 94546	HAZNET	N/A
UNOCAL #5484 18950 LAKE CHABOT RD. CASTRO VALLEY, CA 94546	HIST CORTESE LUST Status: Open - Site Assessment  Alameda County CS SWEEPS UST HAZNET	N/A
CONOCO PHILLIPS # 255484 18950 LAKE CHABOT RD CASTRO VALLEY, CA 94546	HAZNET	N/A
LAKE CHABOT UNOCAL 76 18950 LAKE CHABOT RD CASTRO VALLEY, CA 94546	HAZNET	N/A

### DATABASES WITH NO MAPPED SITES

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

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal NPL site list***

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

#### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

#### ***Federal CERCLIS list***

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System  
FEDERAL FACILITY..... Federal Facility Site Information listing

#### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

#### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

# EXECUTIVE SUMMARY

## ***Federal RCRA non-CORRACTS TSD facilities list***

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

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

RCRA-LQG..... RCRA - Large Quantity Generators

RCRA-SQG..... RCRA - Small Quantity Generators

RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

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

US ENG CONTROLS..... Engineering Controls Sites List

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

LUCIS..... Land Use Control Information System

## ***Federal ERNS list***

ERNS..... Emergency Response Notification System

## ***State- and tribal - equivalent NPL***

RESPONSE..... State Response Sites

## ***State- and tribal - equivalent CERCLIS***

ENVIROSTOR..... EnviroStor Database

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

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

WDS..... Waste Discharge System

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

SLIC..... Statewide SLIC Cases

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

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

AST..... Aboveground Petroleum Storage Tank Facilities

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

FEMA UST..... Underground Storage Tank Listing

## ***State and tribal voluntary cleanup sites***

VCP..... Voluntary Cleanup Program Properties

INDIAN VCP..... Voluntary Cleanup Priority Listing

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

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

## EXECUTIVE SUMMARY

### **Local Lists of Landfill / Solid Waste Disposal Sites**

DEBRIS REGION 9.....	Torres Martinez Reservation Illegal Dump Site Locations
ODI.....	Open Dump Inventory
WMUDS/SWAT.....	Waste Management Unit Database
SWRCY.....	Recycler Database
HAULERS.....	Registered Waste Tire Haulers Listing
INDIAN ODI.....	Report on the Status of Open Dumps on Indian Lands

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

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

### **Local Land Records**

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

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

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

### **Other Ascertainable Records**

RCRA-NonGen.....	RCRA - Non Generators
DOT OPS.....	Incident and Accident Data
DOD.....	Department of Defense Sites
CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
MINES.....	Mines Master Index File
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
CA BOND EXP. PLAN.....	Bond Expenditure Plan
UIC.....	UIC Listing

## EXECUTIVE SUMMARY

NPDES.....	NPDES Permits Listing
Cortese.....	"Cortese" Hazardous Waste & Substances Sites List
DRYCLEANERS.....	Cleaner Facilities
WIP.....	Well Investigation Program Case List
ENF.....	Enforcement Action Listing
HAZNET.....	Facility and Manifest Data
EML.....	Emissions Inventory Data
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
PCB TRANSFORMER.....	PCB Transformer Registration Database
PROC.....	Certified Processors Database
MWMP.....	Medical Waste Management Program Listing
COAL ASH DOE.....	Steam-Electric Plant Operation Data
EPA WATCH LIST.....	EPA WATCH LIST
PRP.....	Potentially Responsible Parties
2020 COR ACTION.....	2020 Corrective Action Program List
FINANCIAL ASSURANCE.....	Financial Assurance Information Listing
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
HWT.....	Registered Hazardous Waste Transporter Database
HWP.....	EnviroStor Permitted Facilities Listing

### EDR PROPRIETARY RECORDS

#### ***EDR Proprietary Records***

Manufactured Gas Plants.....	EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations.....	EDR Proprietary Historic Gas Stations
EDR Historical Cleaners.....	EDR Proprietary Historic Dry Cleaners

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

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

### STANDARD ENVIRONMENTAL RECORDS

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

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 09/18/2012 has revealed that there is 1 LUST

## EXECUTIVE SUMMARY

site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>HERTLEIN ELECTRIC</b> Status: Completed - Case Closed	<b>19051 CASTRO VALLEY</b>	<b>S 0 - 1/8 (0.059 mi.)</b>	<b>B10</b>	<b>18</b>

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

A review of the Alameda County CS list, as provided by EDR, and dated 04/03/2012 has revealed that there is 1 Alameda County CS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>HERTLEIN ELECTRIC</b>	<b>19051 CASTRO VALLEY</b>	<b>S 0 - 1/8 (0.059 mi.)</b>	<b>B10</b>	<b>18</b>

### ADDITIONAL ENVIRONMENTAL RECORDS

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

CA FID UST: 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, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>HERLEIN ELECTRIC INC</b>	<b>19101 LAKE CHABOT RD</b>	<b>S 0 - 1/8 (0.084 mi.)</b>	<b>B11</b>	<b>20</b>

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>HERLEIN ELECTRIC INC</b>	<b>19101 LAKE CHABOT RD</b>	<b>S 0 - 1/8 (0.084 mi.)</b>	<b>B12</b>	<b>20</b>

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

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>HERLEIN ELECTRIC INC</b>	<b>19101 LAKE CHABOT RD</b>	<b>S 0 - 1/8 (0.084 mi.)</b>	<b>B11</b>	<b>20</b>

## EXECUTIVE SUMMARY

### ***Other Ascertainable Records***

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 12/31/2009 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SAN FRANCISCO NIKE BATTERY 31		NNW 1/2 - 1 (0.850 mi.)	13	21

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

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>HERTLEIN ELECTRIC</b>	<b>19051 CASTRO VALLEY</b>	<b>S 0 - 1/8 (0.059 mi.)</b>	<b>B10</b>	<b>18</b>

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

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 2 Notify 65 sites within approximately 1 mile of the target property.

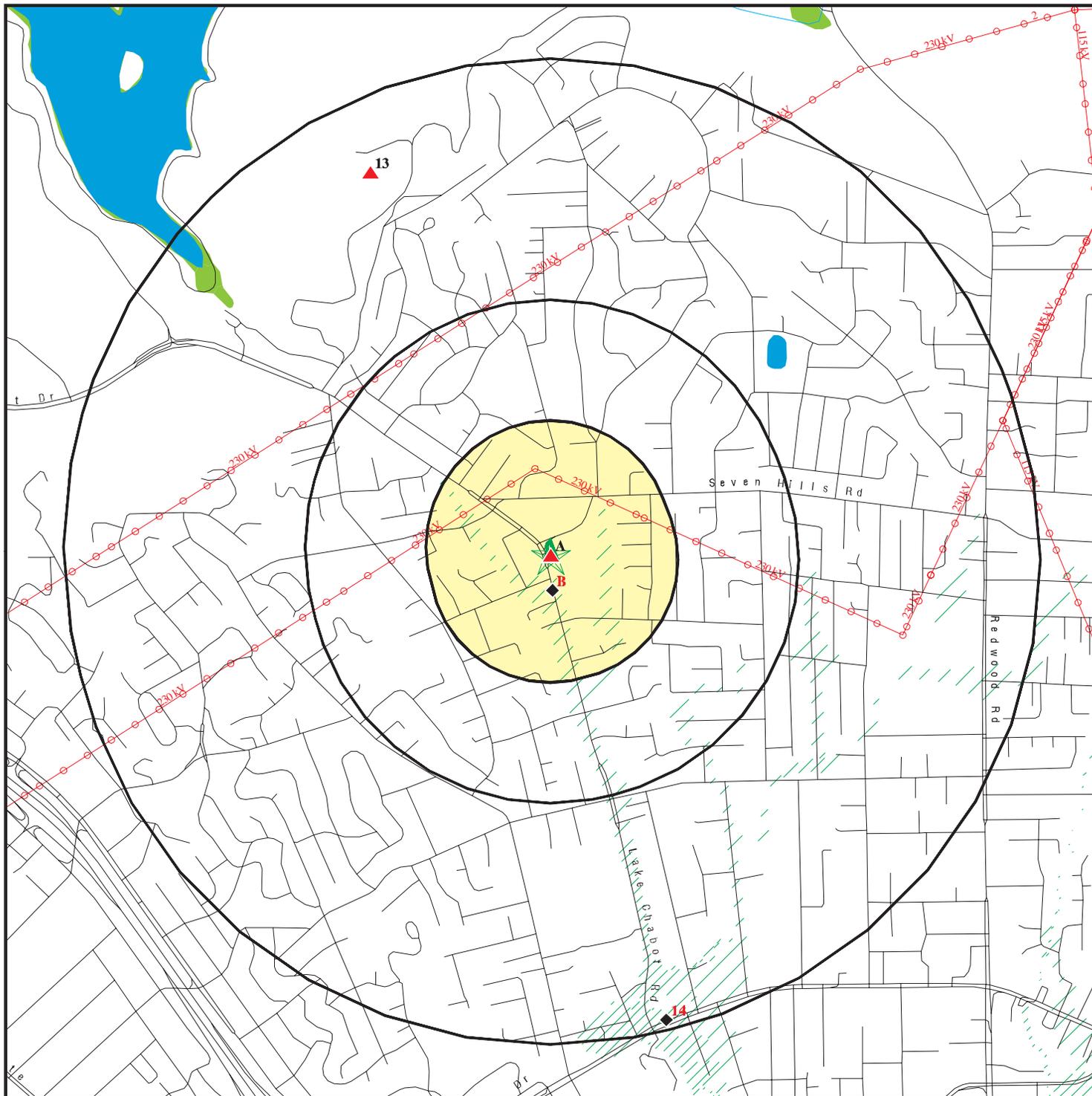
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NONE	19051 LAKE CHABOT ROAD	S 0 - 1/8 (0.059 mi.)	B9	18
<b>SHELL OIL CO</b>	<b>2724 CASTRO VALLEY/LAKE</b>	<b>SSE 1/2 - 1 (0.979 mi.)</b>	<b>14</b>	<b>22</b>

## EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
US ARMY CORP OF ENGINEERS	HIST CORTESE
BROWNING FERRIS INDUSTRIE	HIST CORTESE
US ARMY CORPS OF ENGINEERS NIKE BA	LUST, Alameda County CS
PG&E	SLIC, Notify 65, HAZNET, EMI
BRANN STREET MERCURY	CERCLIS
PG&E GAS PLANT SAN LEANDRO	CERC-NFRAP

# OVERVIEW MAP - 3429659.2s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

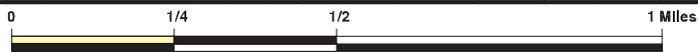
Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

Areas of Concern

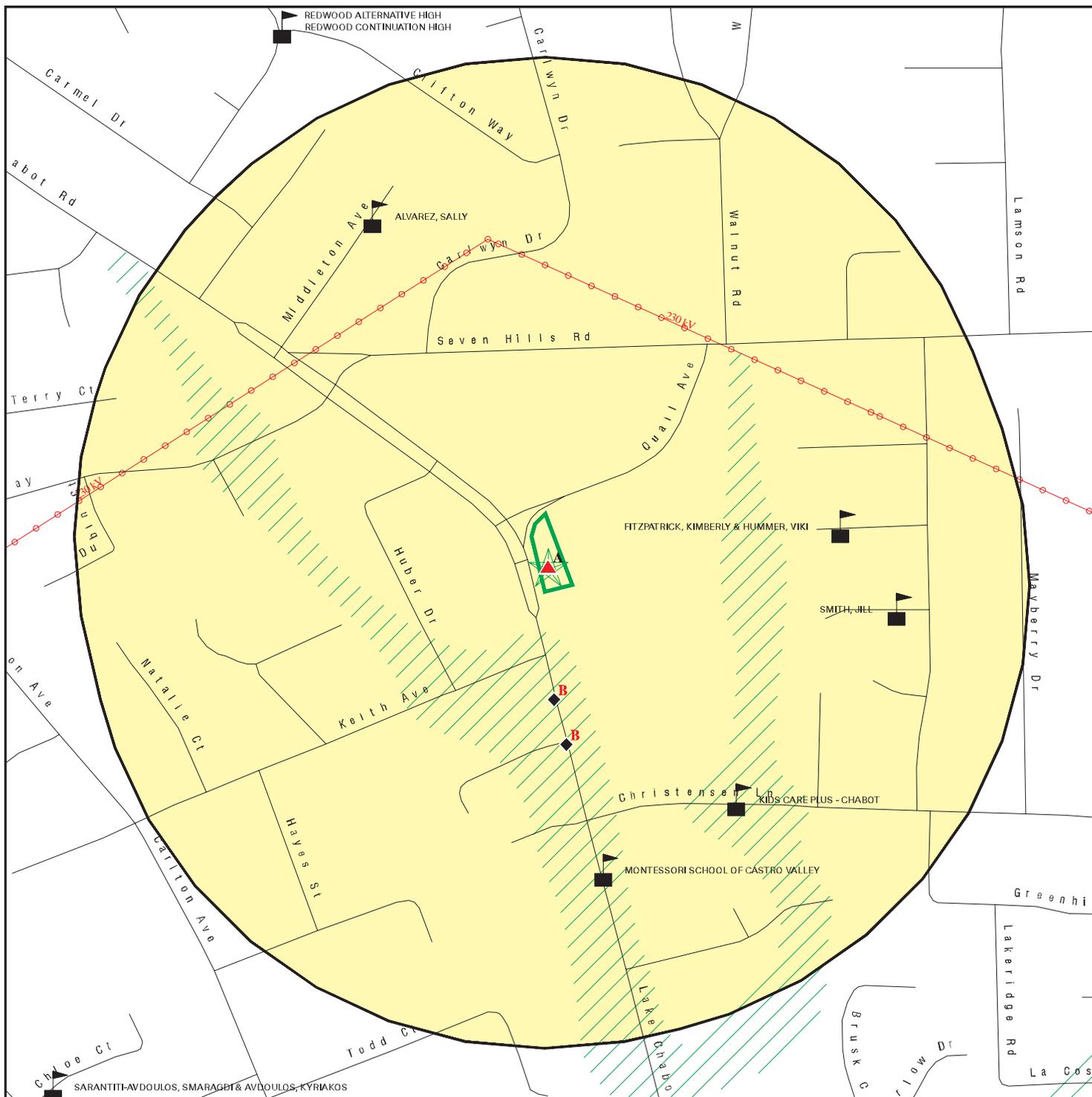


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Chevron Station #351812, Former Unocal #5484  
 ADDRESS: 18950 Lake Chabot Road  
 Castro Valley CA 94546  
 LAT/LONG: 37.7085 / 122.0904

CLIENT: AECOM  
 CONTACT: Chris Drabandt  
 INQUIRY #: 3429659.2s  
 DATE: October 10, 2012 5:47 pm

# DETAIL MAP - 3429659.2s



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

-  Indian Reservations BIA
-  Power transmission lines
-  Oil & Gas pipelines from USGS
-  100-year flood zone
-  500-year flood zone

-  Areas of Concern

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

SITE NAME: Chevron Station #351812, Former Unocal #5484  
 ADDRESS: 18950 Lake Chabot Road  
 Castro Valley CA 94546  
 LAT/LONG: 37.7085 / 122.0904

CLIENT: AECOM  
 CONTACT: Chris Drabandt  
 INQUIRY #: 3429659.2s  
 DATE: October 10, 2012 5:48 pm

## MAP FINDINGS SUMMARY

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

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SLIC	0.500		0	0	0	NR	NR	0
Alameda County CS	0.500	1	1	0	0	NR	NR	2
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b>State and tribal registered storage tank lists</b>								
UST	0.250	1	0	0	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
CA FID UST	0.250		1	0	NR	NR	NR	1
HIST UST	0.250	2	1	0	NR	NR	NR	3
SWEEPS UST	0.250	1	1	0	NR	NR	NR	2
<b>Local Land Records</b>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA-NonGen	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	1	NR	1
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
HIST CORTESE	0.500	1	1	0	0	NR	NR	2
Notify 65	1.000		1	0	0	1	NR	2
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	6	NR	NR	NR	NR	NR	6
EMI	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
FINANCIAL ASSURANCE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0

### EDR PROPRIETARY RECORDS

#### **EDR Proprietary Records**

Manufactured Gas Plants	1.000		0	0	0	0	NR	0
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## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
EDR Historical Auto Stations	0.250		0	0	NR	NR	NR	0
EDR Historical Cleaners	0.250		0	0	NR	NR	NR	0

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**A1**      **UNION OIL SS# 5484**  
**Target**    **18950 LAKE CHABOT RD**  
**Property**   **CASTRO VALLEY, CA 94546**

**HIST UST**    **U001597219**  
**HAZNET**      **N/A**

**Site 1 of 8 in cluster A**

**Actual:**  
**236 ft.**

HIST UST:  
Region:            STATE  
Facility ID:        00000054270  
Facility Type:     Not reported  
Other Type:        Not reported  
Total Tanks:       0004  
Contact Name:     GORDON K. MCHUGH  
Telephone:         4155812442  
Owner Name:        UNION OIL CO.  
Owner Address:    1 CALIFORNIA ST., SUITE 2700  
Owner City,St,Zip: SAN FRANCISCO, CA 94111

Tank Num:         001  
Container Num:     1  
Year Installed:    1965  
Tank Capacity:     00010000  
Tank Used for:     PRODUCT  
Type of Fuel:       UNLEADED  
Tank Construction: Not reported  
Leak Detection:    Not reported

Tank Num:         002  
Container Num:     2  
Year Installed:    1965  
Tank Capacity:     00010000  
Tank Used for:     PRODUCT  
Type of Fuel:       PREMIUM  
Tank Construction: Not reported  
Leak Detection:    Not reported

Tank Num:         003  
Container Num:     3  
Year Installed:    1965  
Tank Capacity:     00000280  
Tank Used for:     WASTE  
Type of Fuel:       WASTE OIL  
Tank Construction: Not reported  
Leak Detection:    Stock Inventor

Tank Num:         004  
Container Num:     4  
Year Installed:    1965  
Tank Capacity:     00000000  
Tank Used for:     WASTE  
Type of Fuel:       Not reported  
Tank Construction: 6 inches  
Leak Detection:    Visual

Tank Num:         005  
Container Num:     5484-10-1  
Year Installed:    Not reported  
Tank Capacity:     00000000  
Tank Used for:     WASTE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNION OIL SS# 5484 (Continued)**

**U001597219**

Type of Fuel: Not reported  
Tank Construction: 6 inches  
Leak Detection: Visual

**HAZNET:**

Year: 2001  
Gepaid: CAL000216396  
Contact: FRANK NADERZAD - OWNER  
Telephone: 4082215572  
Mailing Name: Not reported  
Mailing Address: 18950 LAKE CHABOT RD  
Mailing City,St,Zip: CASTRO VALLEY, CA 945460000  
Gen County: Alameda  
TSD EPA ID: Not reported  
TSD County: Alameda  
Waste Category: Waste oil and mixed oil  
Disposal Method: Recycler  
Tons: 0.62  
Facility County: Not reported

**A2  
Target  
Property**

**SUNNY'S 76 UNOCAL #255484  
18950 LAKE CHABOT RD  
CASTRO VALLEY, CA**

**UST U003973625  
N/A**

**Site 2 of 8 in cluster A**

**Actual:  
236 ft.**

**UST:**  
Facility ID: 01-000-054270  
Latitude: 37.70812  
Longitude: -122.09049

**ALAMEDA CO. UST:**

Facility ID: FA0300352  
Program Element: 4103  
Facility Status: Active  
Description: UST - 3  
Inspection Date: 03/29/2013  
Closed: Not reported  
Owner Name: ABDI H FUGFUGOSH

**A3  
Target  
Property**

**LANDLINK ENTERPRISES  
18950 LAKE CHABOT RD  
CASTRO VALLEY, CA 94546**

**HAZNET S108211767  
N/A**

**Site 3 of 8 in cluster A**

**Actual:  
236 ft.**

**HAZNET:**  
Year: 2004  
Gepaid: CAL000183503  
Contact: ABDI FUGFUGOSH  
Telephone: 5108889746  
Mailing Name: Not reported  
Mailing Address: 18950 LAKE CHABOT RD  
Mailing City,St,Zip: CASTRO VALLEY, CA 945460000  
Gen County: Alameda

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LANDLINK ENTERPRISES (Continued)**

**S108211767**

TSD EPA ID: CAD980887418  
TSD County: Alameda  
Waste Category: Waste oil and mixed oil  
Disposal Method: Recycler  
Tons: 0.54  
Facility County: Not reported

**A4**  
**Target**  
**Property**

**GORDON K. MCHUGH**  
**18950 LAKE CHABOT RD**  
**CASTRO VALLEY, CA 94546**

**HIST UST** **U001597203**  
**N/A**

**Site 4 of 8 in cluster A**

**Actual:**  
**236 ft.**

HIST UST:  
Region: STATE  
Facility ID: 00000057964  
Facility Type: Gas Station  
Other Type: Not reported  
Total Tanks: 0001  
Contact Name: Not reported  
Telephone: 4155812442  
Owner Name: MCHUGH UNION SERVICE  
Owner Address: 18950 LAKE CHABOT RD.  
Owner City,St,Zip: CASTRO VALLEY, CA 94546  
  
Tank Num: 001  
Container Num: 1  
Year Installed: 1965  
Tank Capacity: 00000350  
Tank Used for: WASTE  
Type of Fuel: WASTE OIL  
Tank Construction: Not reported  
Leak Detection: None

**A5**  
**Target**  
**Property**

**TOSCO CORPORATION STATION #30901**  
**18950 LAKE CHABOT RD**  
**CASTRO VALLEY, CA 94546**

**HAZNET** **S103992055**  
**N/A**

**Site 5 of 8 in cluster A**

**Actual:**  
**236 ft.**

HAZNET:  
Year: 2002  
Gepaid: CAL000176058  
Contact: HAZMAT SPECIALIST  
Telephone: 6027284180  
Mailing Name: Not reported  
Mailing Address: PO BOX 52085  
Mailing City,St,Zip: PHOENIX, AZ 850722085  
Gen County: Alameda  
TSD EPA ID: Not reported  
TSD County: Los Angeles  
Waste Category: Aqueous solution with total organic residues less than 10 percent  
Disposal Method: Treatment, Tank  
Tons: 0.01  
Facility County: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TOSCO CORPORATION STATION #30901 (Continued)**

**S103992055**

Year: 2002  
Gepaid: CAL000176058  
Contact: HAZMAT SPECIALIST  
Telephone: 6027284180  
Mailing Name: Not reported  
Mailing Address: PO BOX 52085  
Mailing City,St,Zip: PHOENIX, AZ 850722085  
Gen County: Alameda  
TSD EPA ID: Not reported  
TSD County: Los Angeles  
Waste Category: Unspecified organic liquid mixture  
Disposal Method: Transfer Station  
Tons: 0.35  
Facility County: Not reported

Year: 2001  
Gepaid: CAL000176058  
Contact: HAZMAT SPECIALIST  
Telephone: 6027284180  
Mailing Name: Not reported  
Mailing Address: PO BOX 52085  
Mailing City,St,Zip: PHOENIX, AZ 850722085  
Gen County: Alameda  
TSD EPA ID: Not reported  
TSD County: San Mateo  
Waste Category: Aqueous solution with total organic residues less than 10 percent  
Disposal Method: Recycler  
Tons: 0.14  
Facility County: Not reported

Year: 2000  
Gepaid: CAL000176058  
Contact: TOSCO MARKETING  
Telephone: 6027284180  
Mailing Name: Not reported  
Mailing Address: P O BOX 52085  
Mailing City,St,Zip: PHOENIX, AZ 850722085  
Gen County: 1  
TSD EPA ID: CAD009452657  
TSD County: San Mateo  
Waste Category: Aqueous solution with total organic residues 10 percent or more  
Disposal Method: Recycler  
Tons: .3418  
Facility County: 1

Year: 1999  
Gepaid: CAL000176058  
Contact: TOSCO MARKETING  
Telephone: 6027284180  
Mailing Name: Not reported  
Mailing Address: P O BOX 52085  
Mailing City,St,Zip: PHOENIX, AZ 850722085  
Gen County: 1  
TSD EPA ID: CAD009452657  
TSD County: San Mateo  
Waste Category: Aqueous solution with total organic residues 10 percent or more  
Disposal Method: Recycler

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TOSCO CORPORATION STATION #30901 (Continued)**

**S103992055**

Tons: 0.2543  
Facility County: 1

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

**A6  
Target  
Property**

**UNOCAL #5484  
18950 LAKE CHABOT RD.  
CASTRO VALLEY, CA 94546**

**HIST CORTESE  
LUST  
Alameda County CS  
SWEEPS UST  
HAZNET**

**S104162126  
N/A**

**Site 6 of 8 in cluster A**

**Actual:  
236 ft.**

**CORTESE:**  
Region: CORTESE  
Facility County Code: 1  
Reg By: LTNKA  
Reg Id: 01-1578

**LUST:**  
Region: STATE  
Global Id: T0600101453  
Latitude: 37.708605928  
Longitude: -122.090353  
Case Type: LUST Cleanup Site  
Status: Open - Site Assessment  
Status Date: 06/15/1989  
Lead Agency: ALAMEDA COUNTY LOP  
Case Worker: KEN  
Local Agency: ALAMEDA COUNTY LOP  
RB Case Number: 01-1578  
LOC Case Number: RO0000352  
File Location: Stored electronically as an E-file  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: MTBE / TBA / Other Fuel Oxygenates, Gasoline  
Site History: Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the Alameda County Environmental Health website at <https://ehgis.acgov.org/dehpublic/dehpublic.jsp>. In June 1988 a leak was detected during a tank tightness test. Subsequently three monitoring wells were installed at the site. TPHg and benzene were detected in groundwater and up to one foot of free product was observed in MW-3. Additional downgradient wells were installed. In June 1989, two 10,000 gallon gasoline USTs and one 280 gallon waste-oil UST were removed from the site and the UST pit over-excavated. Wells MW-1 and MW-3 were destroyed as part of the over-excavation activities. Continued groundwater monitoring occurred through 2008. An off-site well that had been paved over was replaced in 2009 and has been added to the monitoring schedule. The replacement well was not installed in the same location as the paved-over well.

Click here to access the California GeoTracker records for this facility:

**LUST:**  
Global Id: T0600101453  
Contact Type: Local Agency Caseworker  
Contact Name: KEITH NOWELL  
Organization Name: ALAMEDA COUNTY LOP

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNOCAL #5484 (Continued)**

**S104162126**

Address: 1131 Harbor Bay Parkway  
City: ALAMEDA  
Email: keith.nowell@acgov.org  
Phone Number: 5105676764

Global Id: T0600101453  
Contact Type: Regional Board Caseworker  
Contact Name: Cherie McCaulou  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY STREET, SUITE 1400  
City: OAKLAND  
Email: cmccaulou@waterboards.ca.gov  
Phone Number: Not reported

**LUST:**

Global Id: T0600101453  
Action Type: ENFORCEMENT  
Date: 07/24/2009  
Action: Staff Letter - #20090724

Global Id: T0600101453  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Stopped

Global Id: T0600101453  
Action Type: ENFORCEMENT  
Date: 07/08/2008  
Action: Staff Letter - #20080708

Global Id: T0600101453  
Action Type: ENFORCEMENT  
Date: 06/08/2012  
Action: File review

Global Id: T0600101453  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

Global Id: T0600101453  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Discovery

Global Id: T0600101453  
Action Type: ENFORCEMENT  
Date: 06/06/2008  
Action: Notice of Responsibility - #2008/06/06

Global Id: T0600101453  
Action Type: REMEDIATION  
Date: 01/01/1950  
Action: Excavation

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNOCAL #5484 (Continued)**

**S104162126**

LUST REG 2:

Region: 2  
Facility Id: 01-1578  
Facility Status: Pollution Characterization  
Case Number: 1713  
How Discovered: Tank Closure  
Leak Cause: Structure Failure  
Leak Source: Tank  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: 3/22/1989  
Pollution Characterization Began: 9/11/1989  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

Alameda County CS:

Status: Pollution Characterization  
Record Id: RO0000352  
Site Contact: JAKUB, BARBARA  
PE: 5602

SWEEPS UST:

Status: A  
Comp Number: 54270  
Number: 2  
Board Of Equalization: 44-000051  
Ref Date: 11-17-92  
Act Date: 12-13-93  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 5484-RU-1  
Swrcb Tank Id: 01-000-054270-000001  
Actv Date: 11-17-92  
Capacity: 12000  
Tank Use: M.V. FUEL  
Stg: P  
Content: REG UNLEADED  
Number Of Tanks: 4

Status: A  
Comp Number: 54270  
Number: 2  
Board Of Equalization: 44-000051  
Ref Date: 11-17-92  
Act Date: 12-13-93  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 5484-SU-1  
Swrcb Tank Id: 01-000-054270-000002  
Actv Date: 11-17-92  
Capacity: 12000  
Tank Use: M.V. FUEL  
Stg: P  
Content: PRM UNLEADED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNOCAL #5484 (Continued)**

**S104162126**

Number Of Tanks: Not reported  
  
Status: A  
Comp Number: 54270  
Number: 2  
Board Of Equalization: 44-000051  
Ref Date: 11-17-92  
Act Date: 12-13-93  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 5484-WO-1  
Swrcb Tank Id: 01-000-054270-000003  
Actv Date: 11-17-92  
Capacity: 500  
Tank Use: OIL  
Stg: W  
Content: WASTE OIL  
Number Of Tanks: Not reported

Status: A  
Comp Number: 54270  
Number: 2  
Board Of Equalization: 44-000051  
Ref Date: 11-17-92  
Act Date: 12-13-93  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 1  
Swrcb Tank Id: 01-000-054270-000004  
Actv Date: 07-01-85  
Capacity: 350  
Tank Use: OIL  
Stg: W  
Content: WASTE OIL  
Number Of Tanks: Not reported

**HAZNET:**

Year: 2003  
Gepaid: CAL000176058  
Contact: HAZMAT SPECIALIST  
Telephone: 6027284180  
Mailing Name: Not reported  
Mailing Address: PO BOX 52085  
Mailing City,St,Zip: PHOENIX, AZ 850722085  
Gen County: Alameda  
TSD EPA ID: CAD028409019  
TSD County: Alameda  
Waste Category: Aqueous solution with total organic residues less than 10 percent  
Disposal Method: Treatment, Tank  
Tons: 0.06  
Facility County: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A7**  
**Target**  
**Property**

**CONOCO PHILLIPS # 255484**  
**18950 LAKE CHABOT RD**  
**CASTRO VALLEY, CA 94546**

**HAZNET** **S108203098**  
**N/A**

**Site 7 of 8 in cluster A**

**Actual:**  
**236 ft.**

**HAZNET:**

Year: 2005  
Gepaid: CAL000277051  
Contact: DANELLE EICHHORST  
Telephone: 2812933723  
Mailing Name: Not reported  
Mailing Address: 600 N DAIRY ASHFORD-PO 3014A  
Mailing City,St,Zip: HOUSTON, TX 77079  
Gen County: Alameda  
TSD EPA ID: CAD982444481  
TSD County: San Bernardino  
Waste Category: Aqueous solution with total organic residues less than 10 percent  
Disposal Method: Transfer Station  
Tons: 0.18  
Facility County: Not reported

Year: 2004  
Gepaid: CAL000277051  
Contact: DANELLE EICHHORST  
Telephone: 2812933723  
Mailing Name: Not reported  
Mailing Address: 600 N DAIRY ASHFORD-PO 3014A  
Mailing City,St,Zip: HOUSTON, TX 77079  
Gen County: Alameda  
TSD EPA ID: CAD982444481  
TSD County: San Bernardino  
Waste Category: Aqueous solution with total organic residues less than 10 percent  
Disposal Method: Transfer Station  
Tons: 0.18  
Facility County: Not reported

**A8**  
**Target**  
**Property**

**LAKE CHABOT UNOCAL 76**  
**18950 LAKE CHABOT RD**  
**CASTRO VALLEY, CA 94546**

**HAZNET** **S103638181**  
**N/A**

**Site 8 of 8 in cluster A**

**Actual:**  
**236 ft.**

**HAZNET:**

Year: 2000  
Gepaid: CAL000093467  
Contact: RAY MAMENTA  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 18950 LAKE CHABOT RD  
Mailing City,St,Zip: CASTRO VALLEY, CA 945462932  
Gen County: 1  
TSD EPA ID: CAD982446874  
TSD County: Yolo  
Waste Category: Aqueous solution with total organic residues less than 10 percent  
Disposal Method: Recycler  
Tons: .3336  
Facility County: 1

Year: 1999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LAKE CHABOT UNOCAL 76 (Continued)**

**S103638181**

Gepaid: CAL000093467  
Contact: RAY MAMENTA  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 18950 LAKE CHABOT RD  
Mailing City,St,Zip: CASTRO VALLEY, CA 945462932  
Gen County: 1  
TSD EPA ID: CAD982446874  
TSD County: Yolo  
Waste Category: Aqueous solution with total organic residues less than 10 percent  
Disposal Method: Transfer Station  
Tons: 0.4587  
Facility County: 1

Year: 1998  
Gepaid: CAL000093467  
Contact: RAY MAMENTA  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 18950 LAKE CHABOT RD  
Mailing City,St,Zip: CASTRO VALLEY, CA 945462932  
Gen County: 1  
TSD EPA ID: CAD980887418  
TSD County: 1  
Waste Category: Aqueous solution with total organic residues less than 10 percent  
Disposal Method: Transfer Station  
Tons: .4586  
Facility County: 1

Year: 1997  
Gepaid: CAL000093467  
Contact: RAY MAMENTA  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 18950 LAKE CHABOT RD  
Mailing City,St,Zip: CASTRO VALLEY, CA 945462932  
Gen County: 1  
TSD EPA ID: CAD980887418  
TSD County: 1  
Waste Category: Aqueous solution with total organic residues less than 10 percent  
Disposal Method: Transfer Station  
Tons: .5420  
Facility County: 1

Year: 1996  
Gepaid: CAL000093467  
Contact: RAY MAMENTA  
Telephone: 0000000000  
Mailing Name: Not reported  
Mailing Address: 18950 LAKE CHABOT RD  
Mailing City,St,Zip: CASTRO VALLEY, CA 945462932  
Gen County: 1  
TSD EPA ID: CAD980887418  
TSD County: 1  
Waste Category: Aqueous solution with total organic residues less than 10 percent  
Disposal Method: Transfer Station  
Tons: .4586

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LAKE CHABOT UNOCAL 76 (Continued)**

**S103638181**

Facility County: 1

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

**B9**  
South  
< 1/8  
0.059 mi.  
313 ft.

**NONE**  
**19051 LAKE CHABOT ROAD**  
**CASTRO VALLEY, CA 94546**

**Notify 65** **S100179781**  
**N/A**

**Site 1 of 4 in cluster B**

**Relative:**  
**Lower**

Notify 65:  
Date Reported: Not reported  
Staff Initials: Not reported  
Board File Number: Not reported  
Facility Type: Not reported  
Discharge Date: Not reported  
Incident Description: 94546

**Actual:**  
**221 ft.**

**B10**  
South  
< 1/8  
0.059 mi.  
313 ft.

**HERTLEIN ELECTRIC**  
**19051 CASTRO VALLEY**  
**CASTRO VALLEY, CA 94546**

**HIST CORTESE** **S105023130**  
**LUST** **N/A**  
**Alameda County CS**

**Site 2 of 4 in cluster B**

**Relative:**  
**Lower**

CORTESE:  
Region: CORTESE  
Facility County Code: 1  
Reg By: LTNKA  
Reg Id: 01-0759

**Actual:**  
**221 ft.**

**LUST:**

Region: STATE  
Global Id: T0600100700  
Latitude: 37.7072069  
Longitude: -122.090602  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 12/03/1996  
Lead Agency: ALAMEDA COUNTY LOP  
Case Worker: AL  
Local Agency: ALAMEDA COUNTY LOP  
RB Case Number: 01-0759  
LOC Case Number: RO0000854  
File Location: Stored electronically as an E-file  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

**LUST:**

Global Id: T0600100700  
Contact Type: Local Agency Caseworker  
Contact Name: AMY LEECH  
Organization Name: ALAMEDA COUNTY LOP

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HERTLEIN ELECTRIC (Continued)**

**S105023130**

Address: 1131 HARBOR BAY PARKWAY  
City: ALAMEDA  
Email: Not reported  
Phone Number: Not reported

Global Id: T0600100700  
Contact Type: Regional Board Caseworker  
Contact Name: Cherie McCaulou  
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)  
Address: 1515 CLAY STREET, SUITE 1400  
City: OAKLAND  
Email: cmccaulou@waterboards.ca.gov  
Phone Number: Not reported

**LUST:**

Global Id: T0600100700  
Action Type: Other  
Date: 01/01/1950  
Action: Leak Reported

Global Id: T0600100700  
Action Type: REMEDIATION  
Date: 01/01/1950  
Action: Excavation

**LUST REG 2:**

Region: 2  
Facility Id: 01-0759  
Facility Status: Case Closed  
Case Number: 4263  
How Discovered: Tank Closure  
Leak Cause: Structure Failure  
Leak Source: Tank  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: 6/10/1991  
Pollution Characterization Began: Not reported  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**Alameda County CS:**

Status: Case Closed  
Record Id: RO0000854  
Site Contact: LEECH, AMY  
PE: 5602

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**B11**  
**South**  
**< 1/8**  
**0.084 mi.**  
**446 ft.**

**HERLEIN ELECTRIC INC**  
**19101 LAKE CHABOT RD**  
**CASTRO VALLEY, CA 94546**

**CA FID UST**    **S101623747**  
**SWEEPS UST**   **N/A**

**Site 3 of 4 in cluster B**

**Relative:**  
**Lower**

CA FID UST:  
 Facility ID: 01002144  
 Regulated By: UTKNI  
 Regulated ID: 00020243  
 Cortese Code: Not reported  
 SIC Code: Not reported  
 Facility Phone: 4155383456  
 Mail To: Not reported  
 Mailing Address: P O BOX  
 Mailing Address 2: Not reported  
 Mailing City,St,Zip: CASTRO VALLEY 94546  
 Contact: Not reported  
 Contact Phone: Not reported  
 DUNS Number: Not reported  
 NPDES Number: Not reported  
 EPA ID: Not reported  
 Comments: Not reported  
 Status: Inactive

**Actual:**  
**218 ft.**

**SWEEPS UST:**

Status: Not reported  
 Comp Number: 20243  
 Number: Not reported  
 Board Of Equalization: Not reported  
 Ref Date: Not reported  
 Act Date: Not reported  
 Created Date: Not reported  
 Tank Status: Not reported  
 Owner Tank Id: Not reported  
 Swrcb Tank Id: 01-000-020243-000001  
 Actv Date: Not reported  
 Capacity: 500  
 Tank Use: M.V. FUEL  
 Stg: PRODUCT  
 Content: REG UNLEADED  
 Number Of Tanks: 1

**B12**  
**South**  
**< 1/8**  
**0.084 mi.**  
**446 ft.**

**HERLEIN ELECTRIC INC**  
**19101 LAKE CHABOT RD**  
**CASTRO VALLEY, CA 94546**

**HIST UST**    **U001597205**  
**N/A**

**Site 4 of 4 in cluster B**

**Relative:**  
**Lower**

HIST UST:  
 Region: STATE  
 Facility ID: 00000020243  
 Facility Type: Other  
 Other Type: ELECTRICAL CONTRACTO  
 Total Tanks: 0001  
 Contact Name: Not reported  
 Telephone: 4155383456  
 Owner Name: HENRY R HERTLEIN  
 Owner Address: 19051 LAKE CHABOT RD

**Actual:**  
**218 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HERLEIN ELECTRIC INC (Continued)**

**U001597205**

Owner City,St,Zip: CASTRO VALLEY, CA 94546

Tank Num: 001  
Container Num: 1  
Year Installed: Not reported  
Tank Capacity: 00000500  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: None

13  
NNW  
1/2-1  
0.850 mi.  
4487 ft.

**SAN FRANCISCO NIKE BATTERY 31  
CASTRO VALLEY, CA**

**FUDS 1010309833  
N/A**

**Relative:  
Higher**

FUDS:  
Federal Facility ID: CA9799F5991  
FUDS #: J09CA1103  
INST ID: 57872  
Facility Name: San Francisco Nike Battery 31  
City: CASTRO VALLEY  
State: CA  
EPA Region: 9  
County: ALAMEDA  
Congressional District: 09  
US Army District: Sacramento District (SPK)  
Fiscal Year: 2009  
Telephone: 916-557-7461  
NPL Status: Not Listed  
RAB: Not reported  
CTC: Not reported  
Current Owner: CITY; COUNTY; PRIVATE

**Actual:  
525 ft.**

**FUDS Description Details:**

The 85.78 acre-site is located on the ridges above Lake Chabot in San Leandro, CA. It is five miles north of Hayward and 8 miles southeast of Oakland in the county of Alameda.

**FUDS History Details:**

Site which consisted of 85.78 ac lease and easement, was utilized by the Army as a missile-launch site for Nike Missiles. AC was acquired from the Alameda Co in Jun 1954; San Leandro Rock in Feb 19 63; & the E Bay Municp Util Dist , Lutheran Church-M Missouri Synod & S Co Joint Jr College Dist of Alameda in Jun 1970. Property was excessed to the GSA in Mar 1974.

**FUDS Current Program Details:**

**FUDS Future Program Details:**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

14  
SSE  
1/2-1  
0.979 mi.  
5169 ft.

**SHELL OIL CO**  
**2724 CASTRO VALLEY/LAKE CHABOT**  
**CASTRO VALLEY, CA 94546**

**RCRA-SQG 1000288638**  
**Notify 65 CAD981402092**  
**WIP**

**Relative:**  
**Lower**

RCRA-SQG:

**Actual:**  
**165 ft.**

Date form received by agency: 04/08/1998  
Facility name: SHELL OIL CO  
Facility address: 2724 CASTRO VALLEY/LAKE CHABOT  
CASTRO VALLEY, CA 94546  
EPA ID: CAD981402092  
Mailing address: P O BOX 4453  
HOUSTON, TX 772104453  
Contact: SONDR A BIENVENU  
Contact address: P O BOX 4453  
HOUSTON, TX 772104453  
Contact country: US  
Contact telephone: (713) 241-2258  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: (415) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported  
Owner/operator name: EQUILON ENTERPRISES LLC  
Owner/operator address: P O BOX 4453  
HOUSTON, TX 77210  
Owner/operator country: Not reported  
Owner/operator telephone: (713) 241-2258  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHELL OIL CO (Continued)**

**1000288638**

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

Historical Generators:

Date form received by agency: 09/01/1996  
Facility name: SHELL OIL CO  
Classification: Small Quantity Generator

Date form received by agency: 03/09/1994  
Facility name: SHELL OIL CO  
Classification: Large Quantity Generator

Date form received by agency: 04/13/1990  
Facility name: SHELL OIL CO  
Site name: SHELL OIL CO 204-1381-0407  
Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018  
Waste name: BENZENE

Violation Status: No violations found

Notify 65:

Date Reported: Not reported  
Staff Initials: Not reported  
Board File Number: Not reported  
Facility Type: Not reported  
Discharge Date: Not reported  
Incident Description: 92509

WIP:

Region: 4  
File Number: 110.0268  
**File Status: Historical**  
Staff: KLEE  
Facility Suite: Not reported

Count: 6 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ALAMEDA COUNTY	1014915220	BRANN STREET MERCURY	6408 BRANN STREET		CERCLIS
CASTRO VALLEY	S100178960	PG&E	3160 GROVE WAY	94546	SLIC, Notify 65, HAZNET, EMI
CASTRO VALLEY	S105023134	US ARMY CORP OF ENGINEERS	LAKE CHABOT RD	94546	HIST CORTESE
CASTRO VALLEY	S106163759	US ARMY CORPS OF ENGINEERS NIKE BA	0 LAKE CHABOT	94546	LUST, Alameda County CS
HAYWARD	S105024043	BROWNING FERRIS INDUSTRIE	20736 LAKE CHABOT CAST	94546	HIST CORTESE
SAN LEANDRO	1003878920	PG&E GAS PLANT SAN LEANDRO	ALVARDO & ST JOHNS STS	94578	CERC-NFRAP

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### **NPL: National Priority List**

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

Date of Government Version: 06/07/2012	Source: EPA
Date Data Arrived at EDR: 07/05/2012	Telephone: N/A
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 07/05/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/22/2012
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

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

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

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

Date of Government Version: 06/07/2012	Source: EPA
Date Data Arrived at EDR: 07/05/2012	Telephone: N/A
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 07/05/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/22/2012
	Data Release Frequency: Quarterly

#### **NPL LIENS: Federal Superfund Liens**

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

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

### DELISTED NPL: National Priority List Deletions

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

Date of Government Version: 06/07/2012	Source: EPA
Date Data Arrived at EDR: 07/05/2012	Telephone: N/A
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 07/05/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/22/2012
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

### CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/27/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 08/28/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 12/10/2012
	Data Release Frequency: Quarterly

### FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 10/09/2012
Number of Days to Update: 36	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Varies

## ***Federal CERCLIS NFRAP site List***

### CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/28/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 08/28/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 12/10/2012
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

### CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/19/2011  
Date Data Arrived at EDR: 08/31/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 132

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 08/07/2012  
Next Scheduled EDR Contact: 11/26/2012  
Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

### **RCRA-TSDF: RCRA - Treatment, Storage and Disposal**

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

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Quarterly

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

### **RCRA-LQG: RCRA - Large Quantity Generators**

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

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Quarterly

### **RCRA-SQG: RCRA - Small Quantity Generators**

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

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Quarterly

### **RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators**

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

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

### **US ENG CONTROLS: Engineering Controls Sites List**

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

Date of Government Version: 12/30/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/30/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 09/05/2012
Number of Days to Update: 11	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Varies

### **US INST CONTROL: Sites with Institutional Controls**

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

Date of Government Version: 12/30/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/30/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 09/05/2012
Number of Days to Update: 11	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Varies

### **LUCIS: Land Use Control Information System**

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

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 05/21/2012
Number of Days to Update: 31	Next Scheduled EDR Contact: 09/03/2012
	Data Release Frequency: Varies

## ***Federal ERNS list***

### **ERNS: Emergency Response Notification System**

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

Date of Government Version: 04/02/2012	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 04/03/2012	Telephone: 202-267-2180
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 10/02/2012
Number of Days to Update: 72	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Annually

## ***State- and tribal - equivalent NPL***

### **RESPONSE: State Response Sites**

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

Date of Government Version: 08/06/2012	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/07/2012	Telephone: 916-323-3400
Date Made Active in Reports: 09/06/2012	Last EDR Contact: 09/21/2012
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/19/2012
	Data Release Frequency: Quarterly

## ***State- and tribal - equivalent CERCLIS***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ENVIROSTOR: EnviroStor Database

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

Date of Government Version: 08/06/2012	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/07/2012	Telephone: 916-323-3400
Date Made Active in Reports: 09/06/2012	Last EDR Contact: 09/21/2012
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/19/2012
	Data Release Frequency: Quarterly

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

### SWF/LF (SWIS): Solid Waste Information System

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

Date of Government Version: 08/20/2012	Source: Department of Resources Recycling and Recovery
Date Data Arrived at EDR: 08/20/2012	Telephone: 916-341-6320
Date Made Active in Reports: 10/03/2012	Last EDR Contact: 08/20/2012
Number of Days to Update: 44	Next Scheduled EDR Contact: 12/03/2012
	Data Release Frequency: Quarterly

### WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 08/28/2012
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/10/2012
	Data Release Frequency: Quarterly

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

### LUST REG 9: Leaking Underground Storage Tank Report

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

Date of Government Version: 03/01/2001	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001	Telephone: 858-637-5595
Date Made Active in Reports: 05/21/2001	Last EDR Contact: 09/26/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: No Update Planned

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

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

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/01/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

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

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

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

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

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

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

## LUST REG 5: Leaking Underground Storage Tank Database

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

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

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

## LUST REG 4: Underground Storage Tank Leak List

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

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

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

## LUST REG 3: Leaking Underground Storage Tank Database

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

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

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

## LUST REG 2: Fuel Leak List

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

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

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

## LUST REG 1: Active Toxic Site Investigation

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

## LUST: Geotracker's Leaking Underground Fuel Tank Report

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

Date of Government Version: 09/18/2012  
Date Data Arrived at EDR: 09/18/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 15

Source: State Water Resources Control Board  
Telephone: see region list  
Last EDR Contact: 09/18/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Quarterly

## LUST REG 8: Leaking Underground Storage Tanks

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

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

Source: California Regional Water Quality Control Board Santa Ana Region (8)  
Telephone: 909-782-4496  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: Varies

## SLIC: Statewide SLIC Cases

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

Date of Government Version: 09/18/2012  
Date Data Arrived at EDR: 09/18/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 15

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 09/18/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Varies

## SLIC REG 1: Active Toxic Site Investigations

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

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

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

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

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

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

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

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

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## SLIC REG 6L: SLIC Sites

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

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

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

## SLIC REG 7: SLIC List

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

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

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

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

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

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

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

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

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

## INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/25/2012  
Date Data Arrived at EDR: 05/25/2012  
Date Made Active in Reports: 07/16/2012  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 415-972-3372  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 11/12/2012  
Data Release Frequency: Quarterly

## INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/07/2012  
Date Data Arrived at EDR: 05/08/2012  
Date Made Active in Reports: 07/10/2012  
Number of Days to Update: 63

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 11/12/2012  
Data Release Frequency: Quarterly

## INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/12/2012  
Date Data Arrived at EDR: 05/09/2012  
Date Made Active in Reports: 07/10/2012  
Number of Days to Update: 62

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 08/03/2012  
Next Scheduled EDR Contact: 11/12/2012  
Data Release Frequency: Varies

## INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 12/14/2011  
Date Data Arrived at EDR: 12/15/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 26

Source: EPA Region 4  
Telephone: 404-562-8677  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 11/12/2012  
Data Release Frequency: Semi-Annually

## INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011  
Date Data Arrived at EDR: 09/13/2011  
Date Made Active in Reports: 11/11/2011  
Number of Days to Update: 59

Source: EPA Region 6  
Telephone: 214-665-6597  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 11/12/2012  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

Date of Government Version: 08/18/2011	Source: EPA Region 8
Date Data Arrived at EDR: 08/19/2011	Telephone: 303-312-6271
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 07/26/2012
Number of Days to Update: 25	Next Scheduled EDR Contact: 11/26/2012
	Data Release Frequency: Quarterly

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

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/07/2012	Source: EPA Region 7
Date Data Arrived at EDR: 02/17/2012	Telephone: 913-551-7003
Date Made Active in Reports: 05/15/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Varies

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

#### UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/18/2012	Source: SWRCB
Date Data Arrived at EDR: 09/18/2012	Telephone: 916-341-5851
Date Made Active in Reports: 10/04/2012	Last EDR Contact: 09/18/2012
Number of Days to Update: 16	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Semi-Annually

#### AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 08/01/2009	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/10/2009	Telephone: 916-327-5092
Date Made Active in Reports: 10/01/2009	Last EDR Contact: 10/04/2012
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Quarterly

## INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/07/2012	Source: EPA Region 10
Date Data Arrived at EDR: 05/08/2012	Telephone: 206-553-2857
Date Made Active in Reports: 07/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 69	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Quarterly

## INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/28/2011	Source: EPA Region 9
Date Data Arrived at EDR: 11/29/2011	Telephone: 415-972-3368
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Quarterly

## INDIAN UST R8: Underground Storage Tanks on Indian Land

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/18/2011	Source: EPA Region 8
Date Data Arrived at EDR: 08/19/2011	Telephone: 303-312-6137
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 07/26/2012
Number of Days to Update: 25	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Quarterly

## INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/07/2012	Source: EPA Region 7
Date Data Arrived at EDR: 02/17/2012	Telephone: 913-551-7003
Date Made Active in Reports: 05/15/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Varies

## INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/10/2011	Source: EPA Region 6
Date Data Arrived at EDR: 05/11/2011	Telephone: 214-665-7591
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 07/26/2012
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Semi-Annually

## INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/28/2012	Source: EPA Region 5
Date Data Arrived at EDR: 02/29/2012	Telephone: 312-886-6136
Date Made Active in Reports: 05/15/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 76	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Varies

## INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 12/14/2011	Source: EPA Region 4
Date Data Arrived at EDR: 12/15/2011	Telephone: 404-562-9424
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 26	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Semi-Annually

## INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/12/2012	Source: EPA, Region 1
Date Data Arrived at EDR: 05/02/2012	Telephone: 617-918-1313
Date Made Active in Reports: 07/16/2012	Last EDR Contact: 08/03/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Varies

## FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 07/12/2012  
Next Scheduled EDR Contact: 10/29/2012  
Data Release Frequency: Varies

## ***State and tribal voluntary cleanup sites***

### **INDIAN VCP R7: Voluntary Cleanup Priority Listing**

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

Date of Government Version: 03/20/2008  
Date Data Arrived at EDR: 04/22/2008  
Date Made Active in Reports: 05/19/2008  
Number of Days to Update: 27

Source: EPA, Region 7  
Telephone: 913-551-7365  
Last EDR Contact: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

### **VCP: Voluntary Cleanup Program Properties**

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

Date of Government Version: 08/06/2012  
Date Data Arrived at EDR: 08/07/2012  
Date Made Active in Reports: 09/06/2012  
Number of Days to Update: 30

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 09/21/2012  
Next Scheduled EDR Contact: 11/19/2012  
Data Release Frequency: Quarterly

### **INDIAN VCP R1: Voluntary Cleanup Priority Listing**

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

Date of Government Version: 02/17/2012  
Date Data Arrived at EDR: 04/03/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 42

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 10/02/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Varies

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

#### **US BROWNFIELDS: A Listing of Brownfields Sites**

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

Date of Government Version: 06/25/2012  
Date Data Arrived at EDR: 06/25/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 85

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 09/24/2012  
Next Scheduled EDR Contact: 01/07/2013  
Data Release Frequency: Semi-Annually

### ***Local Lists of Landfill / Solid Waste Disposal Sites***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ODI: Open Dump Inventory

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

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 07/03/2012
Number of Days to Update: 137	Next Scheduled EDR Contact: 10/08/2012
	Data Release Frequency: No Update Planned

## WMUDS/SWAT: Waste Management Unit Database

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

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 08/07/2012
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/26/2012
	Data Release Frequency: No Update Planned

## SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/11/2012	Source: Department of Conservation
Date Data Arrived at EDR: 06/14/2012	Telephone: 916-323-3836
Date Made Active in Reports: 07/06/2012	Last EDR Contact: 09/19/2012
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Quarterly

## HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 07/09/2012	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 07/12/2012	Telephone: 916-341-6422
Date Made Active in Reports: 09/06/2012	Last EDR Contact: 10/01/2012
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/03/2012
	Data Release Frequency: Varies

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

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 08/03/2012
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/19/2012
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

### **US CDL: Clandestine Drug Labs**

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

Date of Government Version: 03/16/2012	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 06/12/2012	Telephone: 202-307-1000
Date Made Active in Reports: 07/16/2012	Last EDR Contact: 09/05/2012
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/17/2012
	Data Release Frequency: Quarterly

### **HIST CAL-SITES: Calsites Database**

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

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: No Update Planned

### **SCH: School Property Evaluation Program**

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

Date of Government Version: 08/06/2012	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/07/2012	Telephone: 916-323-3400
Date Made Active in Reports: 09/06/2012	Last EDR Contact: 09/21/2012
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/19/2012
	Data Release Frequency: Quarterly

### **TOXIC PITS: Toxic Pits Cleanup Act Sites**

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

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 01/26/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/27/2009
	Data Release Frequency: No Update Planned

### **CDL: Clandestine Drug Labs**

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

Date of Government Version: 06/30/2012	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 09/12/2012	Telephone: 916-255-6504
Date Made Active in Reports: 10/03/2012	Last EDR Contact: 10/01/2012
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## US HIST CDL: National Clandestine Laboratory Register

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

Date of Government Version: 09/01/2007	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 11/19/2008	Telephone: 202-307-1000
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 03/23/2009
Number of Days to Update: 131	Next Scheduled EDR Contact: 06/22/2009
	Data Release Frequency: No Update Planned

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

### CA FID UST: Facility Inventory Database

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

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009	Source: Department of Public Health
Date Data Arrived at EDR: 09/23/2009	Telephone: 707-463-4466
Date Made Active in Reports: 10/01/2009	Last EDR Contact: 08/29/2012
Number of Days to Update: 8	Next Scheduled EDR Contact: 12/17/2012
	Data Release Frequency: Annually

### HIST UST: Hazardous Substance Storage Container Database

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

Date of Government Version: 10/15/1990	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991	Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991	Last EDR Contact: 07/26/2001
Number of Days to Update: 18	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### SWEEPS UST: SWEEPS UST Listing

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

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## **Local Land Records**

### LIENS 2: CERCLA Lien Information

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/16/2012  
Date Data Arrived at EDR: 03/26/2012  
Date Made Active in Reports: 06/14/2012  
Number of Days to Update: 80

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 07/27/2012  
Next Scheduled EDR Contact: 11/12/2012  
Data Release Frequency: Varies

## LIENS: Environmental Liens Listing

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

Date of Government Version: 09/18/2012  
Date Data Arrived at EDR: 09/19/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 14

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 09/05/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Varies

## DEED: Deed Restriction Listing

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

Date of Government Version: 09/10/2012  
Date Data Arrived at EDR: 09/11/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 22

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 09/11/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Semi-Annually

## **Records of Emergency Release Reports**

### HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 04/01/2012  
Date Data Arrived at EDR: 04/03/2012  
Date Made Active in Reports: 06/14/2012  
Number of Days to Update: 72

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 10/02/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Annually

### CHMIRS: California Hazardous Material Incident Report System

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

Date of Government Version: 03/28/2012  
Date Data Arrived at EDR: 05/01/2012  
Date Made Active in Reports: 05/25/2012  
Number of Days to Update: 24

Source: Office of Emergency Services  
Telephone: 916-845-8400  
Last EDR Contact: 08/03/2012  
Next Scheduled EDR Contact: 11/12/2012  
Data Release Frequency: Varies

### LDS: Land Disposal Sites Listing

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

Date of Government Version: 09/18/2012  
Date Data Arrived at EDR: 09/18/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 15

Source: State Water Quality Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 09/18/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MCS: Military Cleanup Sites Listing

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

Date of Government Version: 09/18/2012	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/18/2012	Telephone: 866-480-1028
Date Made Active in Reports: 10/03/2012	Last EDR Contact: 09/18/2012
Number of Days to Update: 15	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Quarterly

## Other Ascertainable Records

### RCRA-NonGen: RCRA - Non Generators

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

Date of Government Version: 03/15/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/04/2012	Telephone: (415) 495-8895
Date Made Active in Reports: 05/15/2012	Last EDR Contact: 10/04/2012
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Varies

### DOT OPS: Incident and Accident Data

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

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 08/07/2012
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/19/2012
	Data Release Frequency: Varies

### DOD: Department of Defense Sites

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

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/19/2012
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/29/2012
	Data Release Frequency: Semi-Annually

### FUDS: Formerly Used Defense Sites

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

Date of Government Version: 12/31/2009	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 08/12/2010	Telephone: 202-528-4285
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 09/10/2012
Number of Days to Update: 112	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Varies

### CONSENT: Superfund (CERCLA) Consent Decrees

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2012  
Date Data Arrived at EDR: 07/24/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 56

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 10/01/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Varies

## ROD: Records Of Decision

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

Date of Government Version: 02/27/2012  
Date Data Arrived at EDR: 03/14/2012  
Date Made Active in Reports: 06/14/2012  
Number of Days to Update: 92

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 09/12/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Annually

## UMTRA: Uranium Mill Tailings Sites

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

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

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 08/28/2012  
Next Scheduled EDR Contact: 12/10/2012  
Data Release Frequency: Varies

## MINES: Mines Master Index File

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

Date of Government Version: 08/18/2011  
Date Data Arrived at EDR: 09/08/2011  
Date Made Active in Reports: 09/29/2011  
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 09/04/2012  
Next Scheduled EDR Contact: 12/17/2012  
Data Release Frequency: Semi-Annually

## TRIS: Toxic Chemical Release Inventory System

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

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 09/01/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 131

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 09/20/2012  
Next Scheduled EDR Contact: 12/10/2012  
Data Release Frequency: Annually

## TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2006  
Date Data Arrived at EDR: 09/29/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 64

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 06/29/2012  
Next Scheduled EDR Contact: 01/07/2013  
Data Release Frequency: Every 4 Years

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/22/2012
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/10/2012
	Data Release Frequency: Quarterly

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

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

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/22/2012
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/10/2012
	Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

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

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

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

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

## SSTS: Section 7 Tracking Systems

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

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 07/27/2012
Number of Days to Update: 77	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ICIS: Integrated Compliance Information System

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

Date of Government Version: 07/20/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/10/2011	Telephone: 202-564-5088
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 06/21/2012
Number of Days to Update: 61	Next Scheduled EDR Contact: 10/08/2012
	Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

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

Date of Government Version: 11/01/2010	Source: EPA
Date Data Arrived at EDR: 11/10/2010	Telephone: 202-566-0500
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 07/19/2012
Number of Days to Update: 98	Next Scheduled EDR Contact: 10/29/2012
	Data Release Frequency: Annually

## MLTS: Material Licensing Tracking System

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

Date of Government Version: 06/21/2011	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/15/2011	Telephone: 301-415-7169
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 09/05/2012
Number of Days to Update: 60	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Quarterly

## RADINFO: Radiation Information Database

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

Date of Government Version: 01/10/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/12/2012	Telephone: 202-343-9775
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 10/02/2012
Number of Days to Update: 49	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Quarterly

## FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 10/23/2011	Source: EPA
Date Data Arrived at EDR: 12/13/2011	Telephone: (415) 947-8000
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 09/11/2012
Number of Days to Update: 79	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Quarterly

## RAATS: RCRA Administrative Action Tracking System

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

## BRS: Biennial Reporting System

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

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 03/01/2011  
Date Made Active in Reports: 05/02/2011  
Number of Days to Update: 62

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 08/31/2012  
Next Scheduled EDR Contact: 12/10/2012  
Data Release Frequency: Biennially

## CA BOND EXP. PLAN: Bond Expenditure Plan

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

Date of Government Version: 01/01/1989  
Date Data Arrived at EDR: 07/27/1994  
Date Made Active in Reports: 08/02/1994  
Number of Days to Update: 6

Source: Department of Health Services  
Telephone: 916-255-2118  
Last EDR Contact: 05/31/1994  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 08/20/2012  
Date Data Arrived at EDR: 08/20/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 44

Source: State Water Resources Control Board  
Telephone: 916-445-9379  
Last EDR Contact: 08/20/2012  
Next Scheduled EDR Contact: 12/03/2012  
Data Release Frequency: Quarterly

## UIC: UIC Listing

A listing of underground control injection wells.

Date of Government Version: 08/14/2012  
Date Data Arrived at EDR: 09/19/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 14

Source: Department of Conservation  
Telephone: 916-445-2408  
Last EDR Contact: 09/19/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Varies

## CORTESE: "Cortese" Hazardous Waste & Substances Sites List

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

Date of Government Version: 04/02/2012  
Date Data Arrived at EDR: 04/03/2012  
Date Made Active in Reports: 06/11/2012  
Number of Days to Update: 69

Source: CAL EPA/Office of Emergency Information  
Telephone: 916-323-3400  
Last EDR Contact: 10/02/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Quarterly

## HIST CORTESE: Hazardous Waste & Substance Site List

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

## NOTIFY 65: Proposition 65 Records

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

Date of Government Version: 10/21/1993  
Date Data Arrived at EDR: 11/01/1993  
Date Made Active in Reports: 11/19/1993  
Number of Days to Update: 18

Source: State Water Resources Control Board  
Telephone: 916-445-3846  
Last EDR Contact: 09/24/2012  
Next Scheduled EDR Contact: 01/07/2013  
Data Release Frequency: No Update Planned

## DRYCLEANERS: Cleaner Facilities

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

Date of Government Version: 01/19/2012  
Date Data Arrived at EDR: 01/19/2012  
Date Made Active in Reports: 02/21/2012  
Number of Days to Update: 33

Source: Department of Toxic Substance Control  
Telephone: 916-327-4498  
Last EDR Contact: 09/24/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Annually

## WIP: Well Investigation Program Case List

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

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

Source: Los Angeles Water Quality Control Board  
Telephone: 213-576-6726  
Last EDR Contact: 10/01/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Varies

## ENF: Enforcement Action Listing

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

Date of Government Version: 08/15/2011  
Date Data Arrived at EDR: 08/23/2011  
Date Made Active in Reports: 10/03/2011  
Number of Days to Update: 41

Source: State Water Resources Control Board  
Telephone: 916-445-9379  
Last EDR Contact: 09/05/2012  
Next Scheduled EDR Contact: 11/12/2012  
Data Release Frequency: Varies

## HAZNET: Facility and Manifest Data

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

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 06/22/2012  
Date Made Active in Reports: 07/06/2012  
Number of Days to Update: 14

Source: California Environmental Protection Agency  
Telephone: 916-255-1136  
Last EDR Contact: 07/16/2012  
Next Scheduled EDR Contact: 10/29/2012  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EMI: Emissions Inventory Data

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

Date of Government Version: 12/31/2008	Source: California Air Resources Board
Date Data Arrived at EDR: 09/29/2010	Telephone: 916-322-2990
Date Made Active in Reports: 10/18/2010	Last EDR Contact: 09/28/2012
Number of Days to Update: 19	Next Scheduled EDR Contact: 01/07/2013
	Data Release Frequency: Varies

## INDIAN RESERV: Indian Reservations

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

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/19/2012
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/29/2012
	Data Release Frequency: Semi-Annually

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 07/19/2012
Number of Days to Update: 54	Next Scheduled EDR Contact: 11/05/2012
	Data Release Frequency: Varies

## US FIN ASSUR: Financial Assurance Information

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

Date of Government Version: 05/24/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/05/2012	Telephone: 202-566-1917
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 08/14/2012
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/03/2012
	Data Release Frequency: Quarterly

## EPA WATCH LIST: EPA WATCH LIST

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

Date of Government Version: 07/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/13/2012	Telephone: 617-520-3000
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 08/07/2012
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/26/2012
	Data Release Frequency: Quarterly

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/27/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: EPA  
Telephone: 202-564-6023  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Quarterly

## FEDLAND: Federal and Indian Lands

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

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

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 07/19/2012  
Next Scheduled EDR Contact: 10/29/2012  
Data Release Frequency: N/A

## 2020 COR ACTION: 2020 Corrective Action Program List

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

Date of Government Version: 11/11/2011  
Date Data Arrived at EDR: 05/18/2012  
Date Made Active in Reports: 05/25/2012  
Number of Days to Update: 7

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 08/16/2012  
Next Scheduled EDR Contact: 11/26/2012  
Data Release Frequency: Varies

## FINANCIAL ASSURANCE 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 03/01/2007  
Date Data Arrived at EDR: 06/01/2007  
Date Made Active in Reports: 06/29/2007  
Number of Days to Update: 28

Source: Department of Toxic Substances Control  
Telephone: 916-255-3628  
Last EDR Contact: 08/03/2012  
Next Scheduled EDR Contact: 11/12/2012  
Data Release Frequency: Varies

## FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

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

Date of Government Version: 08/14/2012  
Date Data Arrived at EDR: 08/20/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 44

Source: California Integrated Waste Management Board  
Telephone: 916-341-6066  
Last EDR Contact: 08/14/2012  
Next Scheduled EDR Contact: 12/03/2012  
Data Release Frequency: Varies

## HWP: EnviroStor Permitted Facilities Listing

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

Date of Government Version: 08/28/2012  
Date Data Arrived at EDR: 08/28/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 36

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 08/28/2012  
Next Scheduled EDR Contact: 12/10/2012  
Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### HWT: Registered Hazardous Waste Transporter Database

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

Date of Government Version: 07/16/2012	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 07/17/2012	Telephone: 916-440-7145
Date Made Active in Reports: 09/06/2012	Last EDR Contact: 07/17/2012
Number of Days to Update: 51	Next Scheduled EDR Contact: 10/29/2012
	Data Release Frequency: Quarterly

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

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

Date of Government Version: 08/17/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/03/2011	Telephone: N/A
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 09/14/2012
Number of Days to Update: 77	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Varies

### COAL ASH DOE: Sleam-Electric Plan Operation Data

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

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 07/16/2012
Number of Days to Update: 76	Next Scheduled EDR Contact: 10/29/2012
	Data Release Frequency: Varies

### MWMP: Medical Waste Management Program Listing

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

Date of Government Version: 09/06/2012	Source: Department of Public Health
Date Data Arrived at EDR: 09/12/2012	Telephone: 916-558-1784
Date Made Active in Reports: 10/03/2012	Last EDR Contact: 09/10/2012
Number of Days to Update: 21	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Varies

### PCB TRANSFORMER: PCB Transformer Registration Database

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

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 08/03/2012
Number of Days to Update: 83	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Varies

### PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 09/17/2012	Source: Department of Conservation
Date Data Arrived at EDR: 09/19/2012	Telephone: 916-323-3836
Date Made Active in Reports: 10/03/2012	Last EDR Contact: 09/19/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EDR PROPRIETARY RECORDS

### *EDR Proprietary Records*

#### Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

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

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

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

#### EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

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

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

#### EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

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

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

## COUNTY RECORDS

### ALAMEDA COUNTY:

#### Contaminated Sites

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

Date of Government Version: 04/03/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/08/2012  
Number of Days to Update: 34

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 06/27/2012  
Next Scheduled EDR Contact: 10/15/2012  
Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/03/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/08/2012  
Number of Days to Update: 34

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 06/27/2012  
Next Scheduled EDR Contact: 10/15/2012  
Data Release Frequency: Semi-Annually

## CONTRA COSTA COUNTY:

### Site List

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

Date of Government Version: 06/13/2012  
Date Data Arrived at EDR: 06/14/2012  
Date Made Active in Reports: 07/06/2012  
Number of Days to Update: 22

Source: Contra Costa Health Services Department  
Telephone: 925-646-2286  
Last EDR Contact: 08/06/2012  
Next Scheduled EDR Contact: 11/19/2012  
Data Release Frequency: Semi-Annually

## KERN COUNTY:

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

Date of Government Version: 08/31/2010  
Date Data Arrived at EDR: 09/01/2010  
Date Made Active in Reports: 09/30/2010  
Number of Days to Update: 29

Source: Kern County Environment Health Services Department  
Telephone: 661-862-8700  
Last EDR Contact: 08/16/2012  
Next Scheduled EDR Contact: 11/26/2012  
Data Release Frequency: Quarterly

## LOS ANGELES COUNTY:

### San Gabriel Valley Areas of Concern

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

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

Source: EPA Region 9  
Telephone: 415-972-3178  
Last EDR Contact: 09/24/2012  
Next Scheduled EDR Contact: 01/07/2013  
Data Release Frequency: No Update Planned

### HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/29/2012  
Date Data Arrived at EDR: 05/29/2012  
Date Made Active in Reports: 06/21/2012  
Number of Days to Update: 23

Source: Department of Public Works  
Telephone: 626-458-3517  
Last EDR Contact: 07/16/2012  
Next Scheduled EDR Contact: 10/26/2012  
Data Release Frequency: Semi-Annually

### List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/23/2012  
Date Data Arrived at EDR: 07/26/2012  
Date Made Active in Reports: 09/06/2012  
Number of Days to Update: 42

Source: La County Department of Public Works  
Telephone: 818-458-5185  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 11/05/2012  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009	Source: Engineering & Construction Division
Date Data Arrived at EDR: 03/10/2009	Telephone: 213-473-7869
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 09/13/2012
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/03/2012
	Data Release Frequency: Varies

## Site Mitigation List

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

Date of Government Version: 12/29/2011	Source: Community Health Services
Date Data Arrived at EDR: 02/02/2012	Telephone: 323-890-7806
Date Made Active in Reports: 02/21/2012	Last EDR Contact: 07/17/2012
Number of Days to Update: 19	Next Scheduled EDR Contact: 11/05/2012
	Data Release Frequency: Annually

## City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 07/24/2012	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 07/27/2012	Telephone: 310-524-2236
Date Made Active in Reports: 09/14/2012	Last EDR Contact: 07/17/2012
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/05/2012
	Data Release Frequency: Semi-Annually

## City of Long Beach Underground Storage Tank

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

Date of Government Version: 03/28/2003	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 10/23/2003	Telephone: 562-570-2563
Date Made Active in Reports: 11/26/2003	Last EDR Contact: 07/26/2012
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Annually

## City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 07/12/2012	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 07/23/2012	Telephone: 310-618-2973
Date Made Active in Reports: 08/02/2012	Last EDR Contact: 07/12/2012
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/29/2012
	Data Release Frequency: Semi-Annually

## MARIN COUNTY:

### Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 07/24/2012	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 07/31/2012	Telephone: 415-499-6647
Date Made Active in Reports: 09/14/2012	Last EDR Contact: 10/09/2012
Number of Days to Update: 45	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Semi-Annually

## NAPA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Sites With Reported Contamination

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

Date of Government Version: 12/05/2011	Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 12/06/2011	Telephone: 707-253-4269
Date Made Active in Reports: 02/07/2012	Last EDR Contact: 08/29/2012
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/17/2012
	Data Release Frequency: No Update Planned

## Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008	Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 01/16/2008	Telephone: 707-253-4269
Date Made Active in Reports: 02/08/2008	Last EDR Contact: 12/05/2012
Number of Days to Update: 23	Next Scheduled EDR Contact: 12/17/2012
	Data Release Frequency: No Update Planned

## ORANGE COUNTY:

### List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 08/02/2012	Source: Health Care Agency
Date Data Arrived at EDR: 08/13/2012	Telephone: 714-834-3446
Date Made Active in Reports: 09/06/2012	Last EDR Contact: 08/07/2012
Number of Days to Update: 24	Next Scheduled EDR Contact: 11/26/2012
	Data Release Frequency: Annually

### List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 08/02/2012	Source: Health Care Agency
Date Data Arrived at EDR: 08/13/2012	Telephone: 714-834-3446
Date Made Active in Reports: 09/06/2012	Last EDR Contact: 08/07/2012
Number of Days to Update: 24	Next Scheduled EDR Contact: 11/26/2012
	Data Release Frequency: Quarterly

### List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/02/2012	Source: Health Care Agency
Date Data Arrived at EDR: 08/13/2012	Telephone: 714-834-3446
Date Made Active in Reports: 09/14/2012	Last EDR Contact: 08/07/2012
Number of Days to Update: 32	Next Scheduled EDR Contact: 11/26/2012
	Data Release Frequency: Quarterly

## PLACER COUNTY:

### Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/05/2012	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 09/11/2012	Telephone: 530-889-7312
Date Made Active in Reports: 10/03/2012	Last EDR Contact: 09/05/2012
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Semi-Annually

## RIVERSIDE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/18/2012	Source: Department of Environmental Health
Date Data Arrived at EDR: 07/19/2012	Telephone: 951-358-5055
Date Made Active in Reports: 09/06/2012	Last EDR Contact: 09/24/2012
Number of Days to Update: 49	Next Scheduled EDR Contact: 01/07/2013
	Data Release Frequency: Quarterly

## Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 07/18/2012	Source: Department of Environmental Health
Date Data Arrived at EDR: 07/19/2012	Telephone: 951-358-5055
Date Made Active in Reports: 08/06/2012	Last EDR Contact: 09/24/2012
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/07/2013
	Data Release Frequency: Quarterly

## SACRAMENTO COUNTY:

### Toxic Site Clean-Up List

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

Date of Government Version: 02/07/2012	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 04/16/2012	Telephone: 916-875-8406
Date Made Active in Reports: 05/08/2012	Last EDR Contact: 10/09/2012
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Quarterly

### Master Hazardous Materials Facility List

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

Date of Government Version: 02/02/2012	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 04/17/2012	Telephone: 916-875-8406
Date Made Active in Reports: 05/08/2012	Last EDR Contact: 10/09/2012
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Quarterly

## SAN BERNARDINO COUNTY:

### Hazardous Material Permits

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

Date of Government Version: 08/29/2012	Source: San Bernardino County Fire Department Hazardous Materials Division
Date Data Arrived at EDR: 08/30/2012	Telephone: 909-387-3041
Date Made Active in Reports: 10/03/2012	Last EDR Contact: 08/13/2012
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/26/2012
	Data Release Frequency: Quarterly

## SAN DIEGO COUNTY:

### Hazardous Materials Management Division Database

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/17/2012  
Date Data Arrived at EDR: 08/20/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 44

Source: Hazardous Materials Management Division  
Telephone: 619-338-2268  
Last EDR Contact: 09/05/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Quarterly

## Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2011  
Date Data Arrived at EDR: 11/04/2011  
Date Made Active in Reports: 12/13/2011  
Number of Days to Update: 39

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 11/12/2012  
Data Release Frequency: Varies

## Environmental Case Listing

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

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

Source: San Diego County Department of Environmental Health  
Telephone: 619-338-2371  
Last EDR Contact: 09/05/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: No Update Planned

## SAN FRANCISCO COUNTY:

### Local Oversight Facilities

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

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

Source: Department Of Public Health San Francisco County  
Telephone: 415-252-3920  
Last EDR Contact: 08/07/2012  
Next Scheduled EDR Contact: 11/26/2012  
Data Release Frequency: Quarterly

### Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

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

Source: Department of Public Health  
Telephone: 415-252-3920  
Last EDR Contact: 08/07/2012  
Next Scheduled EDR Contact: 11/26/2012  
Data Release Frequency: Quarterly

## SAN JOAQUIN COUNTY:

### San Joaquin Co. UST

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

Date of Government Version: 06/25/2012  
Date Data Arrived at EDR: 06/27/2012  
Date Made Active in Reports: 07/31/2012  
Number of Days to Update: 34

Source: Environmental Health Department  
Telephone: N/A  
Last EDR Contact: 09/24/2012  
Next Scheduled EDR Contact: 01/07/2013  
Data Release Frequency: Semi-Annually

## SAN MATEO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Business Inventory

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

Date of Government Version: 07/09/2012  
Date Data Arrived at EDR: 07/16/2012  
Date Made Active in Reports: 09/06/2012  
Number of Days to Update: 52

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 09/18/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Annually

## Fuel Leak List

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

Date of Government Version: 09/13/2012  
Date Data Arrived at EDR: 09/18/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 15

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 09/13/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Semi-Annually

## SANTA CLARA COUNTY:

### HIST LUST - Fuel Leak Site Activity Report

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

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

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

### LOP Listing

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

Date of Government Version: 09/04/2012  
Date Data Arrived at EDR: 09/06/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 27

Source: Department of Environmental Health  
Telephone: 408-918-3417  
Last EDR Contact: 09/04/2012  
Next Scheduled EDR Contact: 12/17/2012  
Data Release Frequency: Annually

### Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/08/2012  
Date Data Arrived at EDR: 08/16/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 48

Source: City of San Jose Fire Department  
Telephone: 408-535-7694  
Last EDR Contact: 08/07/2012  
Next Scheduled EDR Contact: 11/26/2012  
Data Release Frequency: Annually

## SOLANO COUNTY:

### Leaking Underground Storage Tanks

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

Date of Government Version: 06/18/2012  
Date Data Arrived at EDR: 06/21/2012  
Date Made Active in Reports: 07/06/2012  
Number of Days to Update: 15

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 09/13/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 06/18/2012  
Date Data Arrived at EDR: 06/22/2012  
Date Made Active in Reports: 07/06/2012  
Number of Days to Update: 14

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 09/13/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Quarterly

## SONOMA COUNTY:

### Leaking Underground Storage Tank Sites

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

Date of Government Version: 03/31/2012  
Date Data Arrived at EDR: 06/29/2012  
Date Made Active in Reports: 08/09/2012  
Number of Days to Update: 41

Source: Department of Health Services  
Telephone: 707-565-6565  
Last EDR Contact: 10/01/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Quarterly

## SUTTER COUNTY:

### Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 09/06/2012  
Date Data Arrived at EDR: 09/11/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 22

Source: Sutter County Department of Agriculture  
Telephone: 530-822-7500  
Last EDR Contact: 09/05/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Semi-Annually

## VENTURA COUNTY:

### Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

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

Date of Government Version: 03/30/2012  
Date Data Arrived at EDR: 05/25/2012  
Date Made Active in Reports: 07/06/2012  
Number of Days to Update: 42

Source: Ventura County Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 08/24/2012  
Next Scheduled EDR Contact: 12/03/2012  
Data Release Frequency: Quarterly

### Inventory of Illegal Abandoned and Inactive Sites

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

Date of Government Version: 12/01/2011  
Date Data Arrived at EDR: 12/01/2011  
Date Made Active in Reports: 01/19/2012  
Number of Days to Update: 49

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/21/2013  
Data Release Frequency: Annually

### Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008  
Date Data Arrived at EDR: 06/24/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 37

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 08/14/2012  
Next Scheduled EDR Contact: 12/03/2012  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Medical Waste Program List

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

Date of Government Version: 06/28/2012	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 08/02/2012	Telephone: 805-654-2813
Date Made Active in Reports: 09/06/2012	Last EDR Contact: 07/30/2012
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Quarterly

## Underground Tank Closed Sites List

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

Date of Government Version: 06/27/2012	Source: Environmental Health Division
Date Data Arrived at EDR: 06/29/2012	Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2012	Last EDR Contact: 09/18/2012
Number of Days to Update: 32	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Quarterly

## YOLO COUNTY:

### Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 06/29/2012	Source: Yolo County Department of Health
Date Data Arrived at EDR: 07/09/2012	Telephone: 530-666-8646
Date Made Active in Reports: 08/02/2012	Last EDR Contact: 09/24/2012
Number of Days to Update: 24	Next Scheduled EDR Contact: 01/07/2013
	Data Release Frequency: Annually

## OTHER DATABASE(S)

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

### CT MANIFEST: Hazardous Waste Manifest Data

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

Date of Government Version: 08/20/2012	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/20/2012	Telephone: 860-424-3375
Date Made Active in Reports: 09/20/2012	Last EDR Contact: 08/20/2012
Number of Days to Update: 31	Next Scheduled EDR Contact: 12/03/2012
	Data Release Frequency: Annually

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/19/2012	Telephone: N/A
Date Made Active in Reports: 08/28/2012	Last EDR Contact: 07/19/2012
Number of Days to Update: 40	Next Scheduled EDR Contact: 10/29/2012
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## NY MANIFEST: Facility and Manifest Data

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

Date of Government Version: 08/01/2012  
Date Data Arrived at EDR: 08/09/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 55

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 08/09/2012  
Next Scheduled EDR Contact: 11/19/2012  
Data Release Frequency: Annually

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/23/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 57

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 07/19/2012  
Next Scheduled EDR Contact: 11/05/2012  
Data Release Frequency: Annually

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 06/22/2012  
Date Made Active in Reports: 07/31/2012  
Number of Days to Update: 39

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 08/23/2012  
Next Scheduled EDR Contact: 12/10/2012  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/19/2012  
Date Made Active in Reports: 09/27/2012  
Number of Days to Update: 70

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 09/18/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

## Electric Power Transmission Line Data

Source: Rextag Strategies Corp.  
Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

## Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

## Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

## Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## STREET AND ADDRESS INFORMATION

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

CHEVRON STATION #351812, FORMER UNOCAL #5484  
18950 LAKE CHABOT ROAD  
CASTRO VALLEY, CA 94546

### TARGET PROPERTY COORDINATES

Latitude (North):	37.7085 - 37° 42' 30.60"
Longitude (West):	122.0904 - 122° 5' 25.44"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	580178.4
UTM Y (Meters):	4173657.5
Elevation:	236 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	37122-F1 HAYWARD, CA
Most Recent Revision:	1980

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

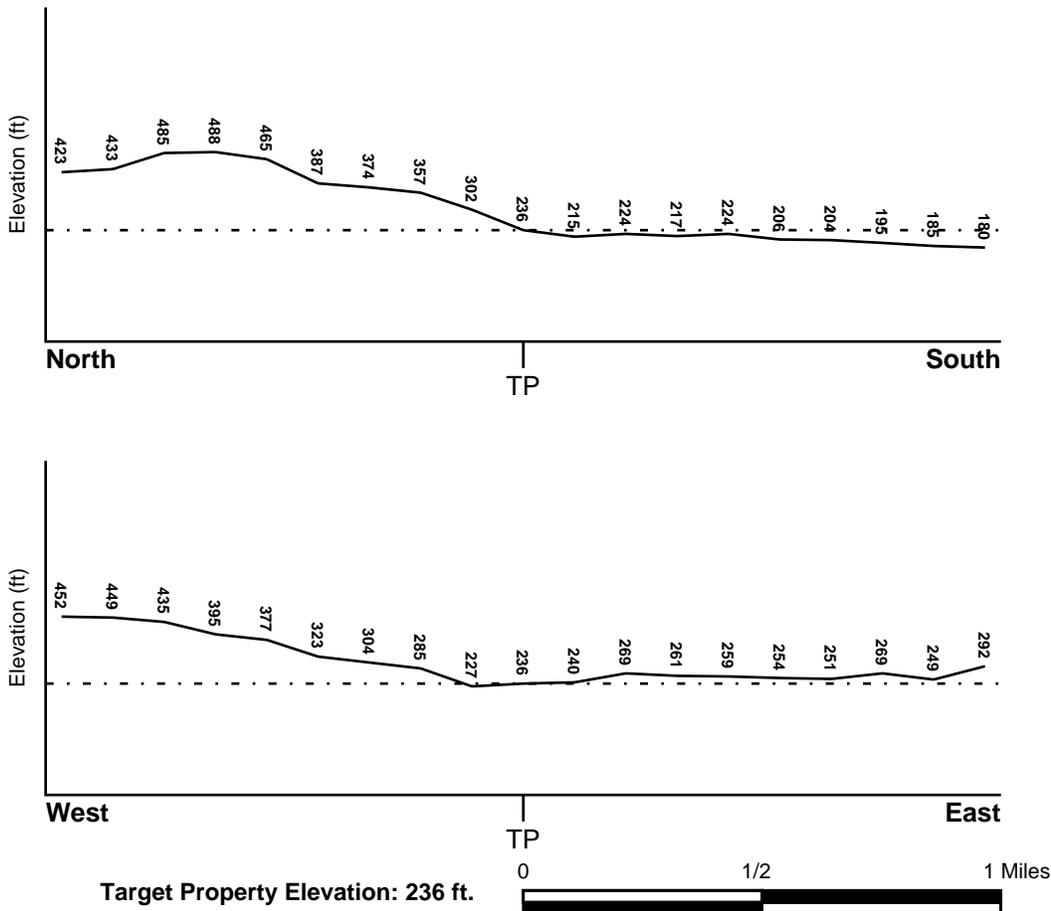
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## FEMA FLOOD ZONE

<u>Target Property County</u> ALAMEDA, CA	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
--	--

Flood Plain Panel at Target Property: 06001C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

## NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> HAYWARD	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
---	--

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### *Site-Specific Hydrogeological Data\*:*

Search Radius:	1.25 miles
Status:	Not found

## AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
A1	0 - 1/8 Mile South	SSE
A2	0 - 1/8 Mile South	SSE
A3	0 - 1/8 Mile South	NE, SE
B4	1/2 - 1 Mile SSE	Varies
B5	1/2 - 1 Mile SSE	Varies
6	1/2 - 1 Mile South	Not Reported

For additional site information, refer to Physical Setting Source Map Findings.

## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

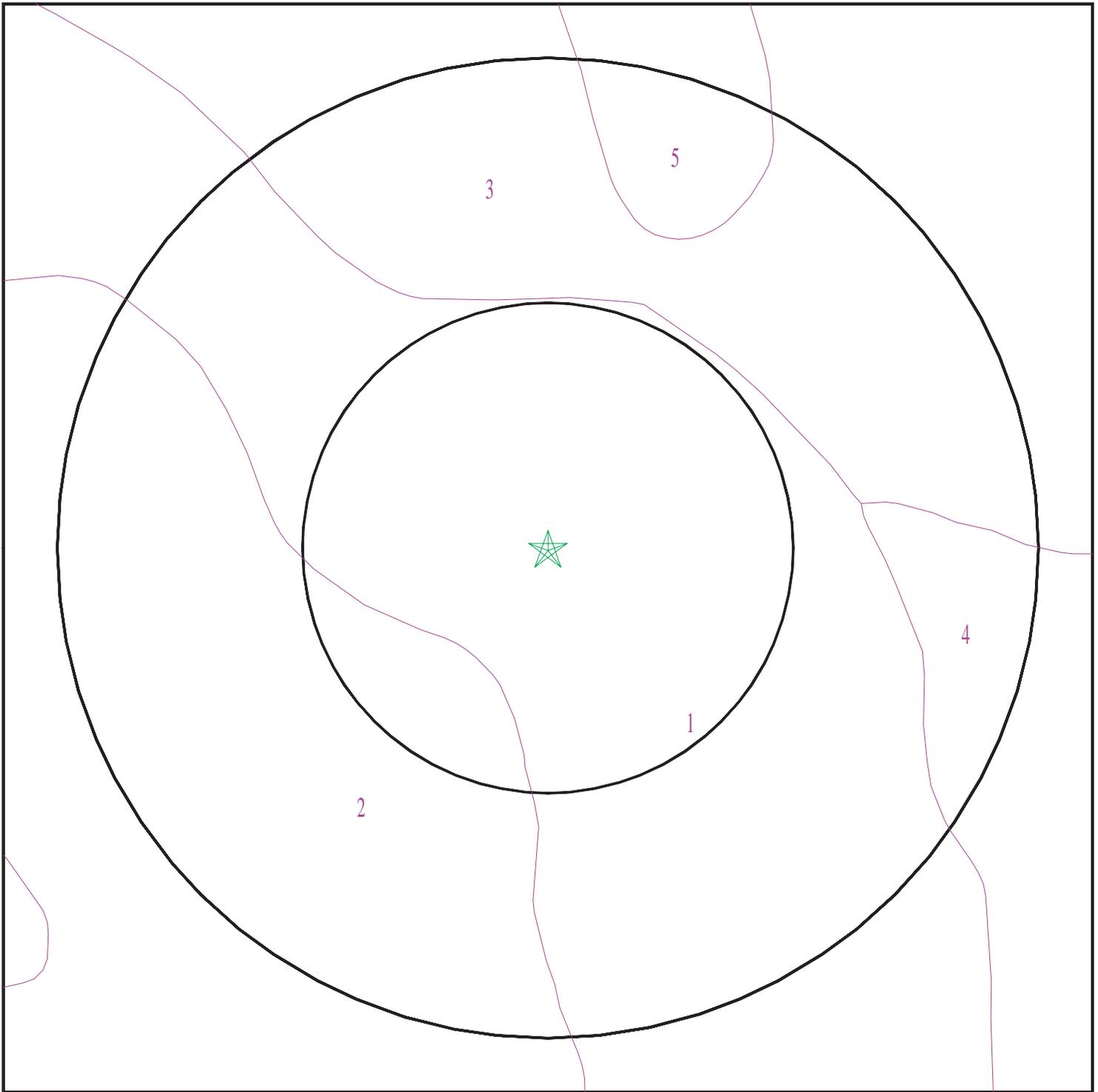
Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK <i>(decoded above as Era, System &amp; Series)</i>

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 3429659.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Chevron Station #351812, Former Unocal #5484  
ADDRESS: 18950 Lake Chabot Road  
Castro Valley CA 94546  
LAT/LONG: 37.7085 / 122.0904

CLIENT: AECOM  
CONTACT: Chris Drabandt  
INQUIRY #: 3429659.2s  
DATE: October 10, 2012 5:48 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

### Soil Map ID: 1

Soil Component Name: Azule

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
2	5 inches	25 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
3	25 inches	29 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 2

Soil Component Name: Xerorthents

Soil Surface Texture: clay

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:  
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	24 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.1

### Soil Map ID: 3

Soil Component Name: Los Osos

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 51 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
2	7 inches	29 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
3	29 inches	33 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:

**Soil Map ID: 4**

Soil Component Name: Clear Lake

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:  
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	25 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4
2	25 inches	59 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4

**Soil Map ID: 5**

Soil Component Name: Los Osos

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 51 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	7 inches	29 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:
3	29 inches	33 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0 Min: 0	Max: Min:

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

## **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE DATABASE WELL INFORMATION

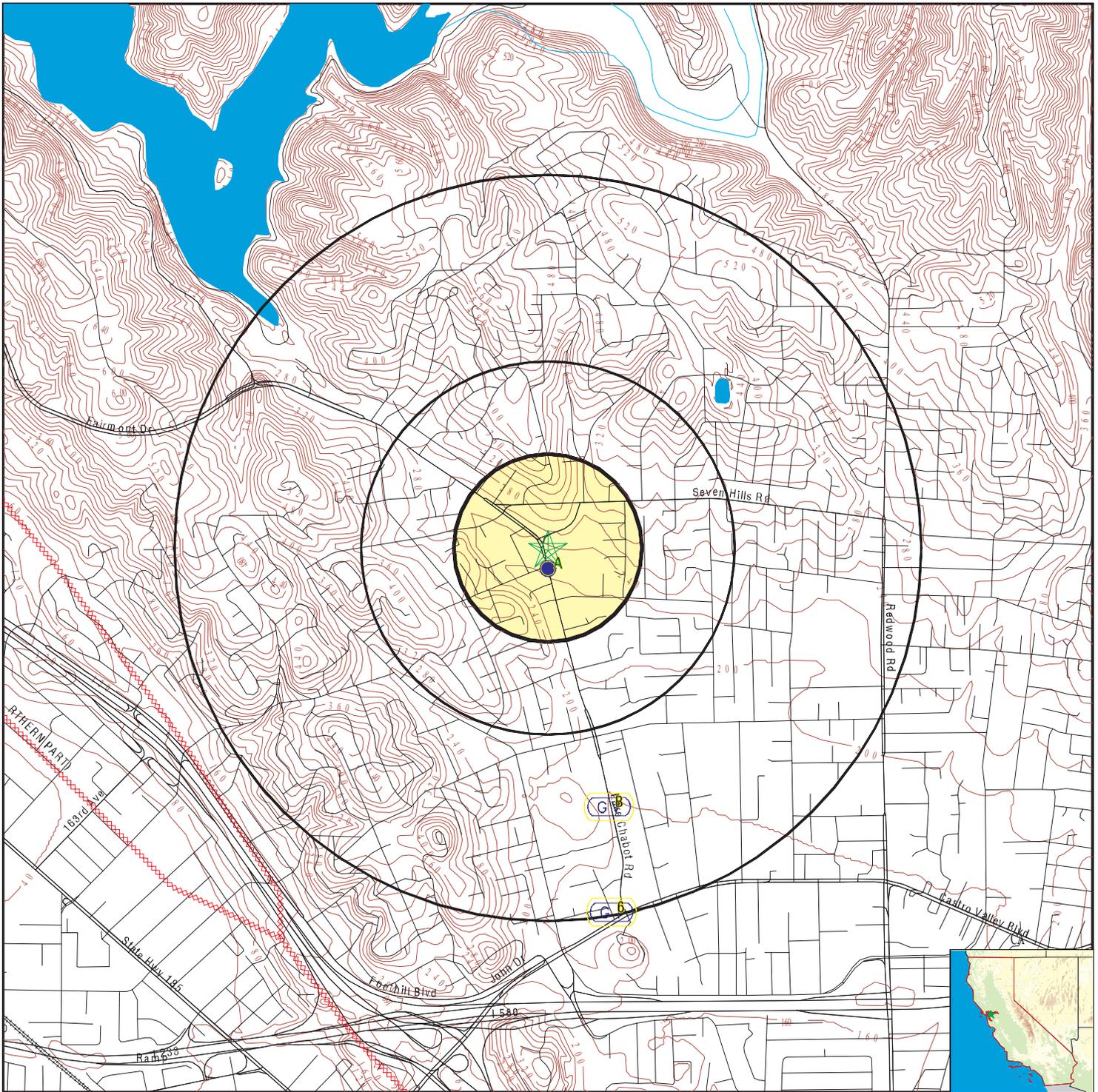
MAP ID

WELL ID

LOCATION  
FROM TP

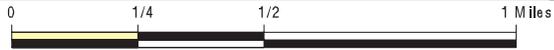
No Wells Found

# PHYSICAL SETTING SOURCE MAP - 3429659.2s



-  County Boundary
-  Major Roads
-  Contour Lines
-  Earthquake Fault Lines
-  Earthquake epicenter, Richter 5 or greater
-  Water Wells
-  Public Water Supply Wells
-  Cluster of Multiple Icons

-  Groundwater Flow Direction
-  Indeterminate Groundwater Flow at Location
-  Groundwater Flow Varies at Location
-  Closest Hydrogeological Data
-  Oil, gas or related wells



SITE NAME: Chevron Station #351812, Former Unocal #5484  
 ADDRESS: 18950 Lake Chabot Road  
 Castro Valley CA 94546  
 LAT/LONG: 37.7085 / 122.0904

CLIENT: AECOM  
 CONTACT: Chris Drabandt  
 INQUIRY #: 3429659.2s  
 DATE: October 10, 2012 5:48 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
<b>A1</b> <b>South</b> <b>0 - 1/8 Mile</b> <b>Lower</b>	Site ID:	01-1578	<b>AQUIFLOW</b>	<b>53604</b>
	Groundwater Flow:	SSE		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	8.20		
Date:	08/30/1988			
<b>A2</b> <b>South</b> <b>0 - 1/8 Mile</b> <b>Lower</b>	Site ID:	01-1578	<b>AQUIFLOW</b>	<b>53605</b>
	Groundwater Flow:	SSE		
	Shallow Water Depth:	4.22		
	Deep Water Depth:	11.0		
	Average Water Depth:	Not Reported		
Date:	05/18/1999			
<b>A3</b> <b>South</b> <b>0 - 1/8 Mile</b> <b>Lower</b>	Site ID:	01-0759	<b>AQUIFLOW</b>	<b>69275</b>
	Groundwater Flow:	NE, SE		
	Shallow Water Depth:	13.84		
	Deep Water Depth:	14.53		
	Average Water Depth:	Not Reported		
Date:	04/05/1996			
<b>B4</b> <b>SSE</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID:	01-0548	<b>AQUIFLOW</b>	<b>50306</b>
	Groundwater Flow:	Varies		
	Shallow Water Depth:	7.71		
	Deep Water Depth:	10.85		
	Average Water Depth:	Not Reported		
Date:	04/01/1996			
<b>B5</b> <b>SSE</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID:	01-0548	<b>AQUIFLOW</b>	<b>50307</b>
	Groundwater Flow:	Varies		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	8-15		
Date:	12/05/1991			
<b>6</b> <b>South</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID:	01-0287	<b>AQUIFLOW</b>	<b>49970</b>
	Groundwater Flow:	Not Reported		
	Shallow Water Depth:	7.35		
	Deep Water Depth:	8.11		
	Average Water Depth:	Not Reported		
Date:	10/31/1996			

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CA Radon

### Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94546	28	1

Federal EPA Radon Zone for ALAMEDA County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level  $\geq$  2 pCi/L and  $\leq$  4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for Zip Code: 94546

Number of sites tested: 3

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.667 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 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

#### California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

## OTHER STATE DATABASE INFORMATION

#### California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

Oil and Gas well locations in the state.

### RADON

#### State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### OTHER

Airport Landing Facilities: Private and public use landing facilities  
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater  
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

### STREET AND ADDRESS INFORMATION

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**Chevron Station #351812, Former Unocal #5484**

18950 Lake Chabot Road

Castro Valley, CA 94546

Inquiry Number: 3429659.3

October 10, 2012

## Certified Sanborn® Map Report

# Certified Sanborn® Map Report

10/10/12

**Site Name:**

Chevron Station #351812,  
18950 Lake Chabot Road  
Castro Valley, CA 94546

**Client Name:**

AECOM  
10461 Old Placerville Road  
Sacramento, CA 95827

EDR Inquiry # 3429659.3

Contact: Chris Drabandt



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by AECOM were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

## Certified Sanborn Results:

**Site Name:** Chevron Station #351812, Former Unocal  
**Address:** 18950 Lake Chabot Road  
**City, State, Zip:** Castro Valley, CA 94546  
**Cross Street:**  
**P.O. #** 60267030.A50  
**Project:** Chevron #351812  
**Certification #** 43C4-496D-8083



Sanborn® Library search results  
Certification # 43C4-496D-8083

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

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

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**Chevron Station #351812, Former Unocal #5484**

18950 Lake Chabot Road

Castro Valley, CA 94546

Inquiry Number: 3429659.4

October 15, 2012

## The EDR Aerial Photo Decade Package

# EDR Aerial Photo Decade Package

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Please contact EDR at 1-800-352-0050  
with any questions or comments.

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**Date EDR Searched Historical Sources:**

Aerial Photography October 15, 2012

**Target Property:**

18950 Lake Chabot Road

Castro Valley, CA 94546

<u><i>Year</i></u>	<u><i>Scale</i></u>	<u><i>Details</i></u>	<u><i>Source</i></u>
1939	Aerial Photograph. Scale: 1"=555'	Flight Year: 1939	Fairchild
1946	Aerial Photograph. Scale: 1"=655'	Flight Year: 1946	Jack Ammann
1958	Aerial Photograph. Scale: 1"=555'	Flight Year: 1958	Cartwright
1965	Aerial Photograph. Scale: 1"=333'	Flight Year: 1965	Cartwright
1974	Aerial Photograph. Scale: 1"=601'	Flight Year: 1974	NASA
1982	Aerial Photograph. Scale: 1"=690'	Flight Year: 1982	USGS
1993	Aerial Photograph. Scale: 1"=500'	/Composite DOQQ - acquisition dates: 1993	EDR
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	EDR



**INQUIRY #:** 3429659.4

**YEAR:** 1939

 = 555'





**INQUIRY #:** 3429659.4

**YEAR:** 1946

 = 655'





**INQUIRY #:** 3429659.4

**YEAR:** 1958

| = 555'





**INQUIRY #:** 3429659.4

**YEAR:** 1965

**|** = 333'





**INQUIRY #:** 3429659.4

**YEAR:** 1974

 = 601'





**INQUIRY #:** 3429659.4

**YEAR:** 1982

| = 690'





**INQUIRY #:** 3429659.4

**YEAR:** 1993

| = 500'





INQUIRY #: 3429659.4

YEAR: 1998

| = 666'





**INQUIRY #:** 3429659.4

**YEAR:** 2005

| = 500'





INQUIRY #: 3429659.4

YEAR: 2006

| = 500'



**Attachment B**  
**Boring Logs**

Blows/ Fl.	Sample No.	USCS	DESCRIPTION	WELL CONST.
			Asphalt (4 inches) over base rock (6 inches).	
		ML	Silty clay with gravel up to 3", brown, damp, low plasticity, dense.	
32	S-5		OVM = 700ppm.	
88	S-10		Weathered siltstone and very fine-grained sandstone, very fractured, wet, gray-brown. OVM = 575ppm.	
46	S-15		Highly weathered argillaceous sandstone, brown, wet.	
			OVM = 2ppm.	
78	S-20		Weathered siltstone and very fine-grained sandstone, black, wet.	
			Highly weathered argillaceous sandstone, black, wet. OVM = 2ppm.	
86	S-25		Weathered siltstone and very fine-grained sandstone, black.	
			OVM = 2ppm.	
80	S-30		Total Depth = 30½ feet. Boring terminated at sufficient depth to evaluate contamination above and below water table.	

DEPTH IN FEET



Applied GeoSystems  
8125 Mission Blvd. Suite B, Fremont, CA 94538-4151-1966

## LOG OF BORING B-1/MW-1

UNOCAL Station No. 5484

18950 Lake Chabot Road

Castro Valley, California

PLATE

P - 4

PROJECT NO. 018061-1

DEPTH IN FEET	Blows/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST.
0				Asphalt (4 inches) over road base (6 inches).	
2			ML	Sandy clayey silt, medium- to very coarse-grained, sand, brown, dry, no plasticity, hard.	
4	52	S-5		OVM = 254ppm.	
6				Weathered siltstone, brown-gray, dry.	
8				OVM = 112ppm.	
10	36	S-10		Weathered siltstone, green-gray, moist.	
12					
14	71	S-15		OVM = 1ppm.	
16				Fissile calcareous shale, black, dry.	
18	70	S-19		OVM = 40ppm.	
20				Total Depth = 19½ feet. Boring terminated at sufficient depth to evaluate contamination above and below water table.	



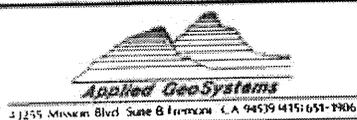
Applied GeoSystems  
41255 Mission Blvd Suite B Fremont, CA 94539 (415) 651-7906

**LOG OF BORING B-2/MW-2**  
**UNOCAL Station No. 5484**  
**18950 Lake Chabot Road**  
**Castro Valley, California**

PLATE  
**P - 5**

PROJECT NO. **018061-1**

Blows/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST.
0			Asphalt (4 inches) over road base (6 inches).	
2		ML	Gravelly silt, brown, dry, no plasticity, hard.	
4	49	S-5	OVM = 100,000ppm.	
6			Siltstone, brown-gray, dry.	
8				
10	46	S-10	Gravelly weathered siltstone, brown, dry, hard. OVM = 275ppm.	
12			Siltstone, green-black, wet.	
14	65	S-15	Weathered sandy siltstone with some gravel, brown, moist, hard, OVM = 152ppm.	
16			Gravelly siltstone, brown, dry, hard.	
18				
20	66	S-20	Very fine-grained sandstone, black, wet, OVM = 2ppm.	
22			Total Depth = 20½ feet. Boring terminated at sufficient depth to evaluate contamination above and below water table.	



**LOG OF BORING B-3/MW-3**  
**UNOCAL Station No. 5484**  
**18950 Lake Chabot Road**  
**Castro Valley, California**

PLATE  
**P - 6**

PROJECT NO. 018061-1

**Total depth of boring:** 29 feet    **Diameter of boring:** 10 inches    **Date drilled:** 5-24-89  
**Casing diameter:** 4 inches    **Length:** 27-1/2 feet    **Slot size:** 0.020-inch  
**Screen diameter:** 4 inches    **Length:** 20 feet    **Material type:** Sch 40 PVC  
**Drilling Company:** Kvilhaug Well Drilling    **Driller:** Rod and Tony  
**Method Used:** Hollow-Stem Auger    **Field Geologist:** Leigh Beem  
**Signature of Registered Professional:** \_\_\_\_\_  
**Registration No.:** \_\_\_\_\_    **State:** CA

DEPTH	SAMPLE NO.	BLOWS	P.I.D.	USCS CODE	DESCRIPTION	WELL CONST.
0				CL	Sandy clay, with minor gravel and fine- to coarse-grained sand, tan-brown, dry, medium plasticity, hard.	
4	S-3.5	30	0.5		Weathered, mottled mudstone, green-brown, damp, very fractured with clay in fractures.	
8	S-8.5	25 50	0.5	▽	Weathered mottled siltstone, green-brown, damp, very fractured.	
14	S-13.5	20 35 40	0.1			
18	S-18.5	20 40 80	0.5	▽	Siltstone with gray clay and some roots.	
20					Weathered mudstone, black, damp, fractured.	

(Section continues downward)

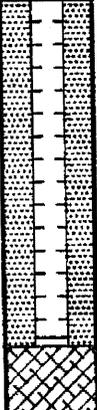


**PROJECT NO. 18061-3**

**LOG OF BORING B-4/MW-4**  
**UNOCAL Station No. 5484**  
**18950 Lake Chabot Road**  
**Castro Valley, California**

**PLATE**

**P - 4**

Depth	Sample No.	BLOWS	P.I.D.	USCS Code	Description	Well Const.
-22					Weathered mudstone, black, damp, fractured.	
-24	S-23.5	80	0.7			
-26					Unweathered mudstone, dry.	
-28	S-28.5	80	0.5			
-30					Total Depth = 29 feet.	
-32						
-34						
-36						
-38						
-40						
-42						
-44						
-46						
-48						
-50						



PROJECT NO. 18061-3

**LOG OF BORING B-4/MW-4**

UNOCAL Station No. 5484  
 18950 Lake Valley Road  
 Castro Valley, California

PLATE

P - 5

**Total depth of boring:** 24 feet    **Diameter of boring:** 10 inches    **Date drilled:** 6-5-89  
**Casing diameter:** 4 inches    **Length:** 24 feet    **Slot size:** 0.020-inch  
**Screen diameter:** 4 inches    **Length:** 15 feet    **Material type:** Sch 40 PVC  
**Drilling Company:** Kvilhaug Well Drilling    **Driller:** Rod and Dan  
**Method Used:** Hollow-Stem Auger    **Field Geologist:** Leigh Beem

**Signature of Registered Professional:** \_\_\_\_\_  
**Registration No.:** G.E. 2023    **State:** CA

DEPTH	SAMPLE NO.	BLOWS	P.I.D.	USCS CODE	DESCRIPTION	WELL CONST.
0					Concrete (3 inches) over baserock (6 inches).	
2				GC	Clayey gravel, with very fine-grained sandstone, brown-black, highly fractured, some rootlets.	
4	S-3.5	24 50	0			
6					Weathered mudstone, gray-black, damp, very fractured, with clay in fractures.	
8	S-8.5	50	0	▼		
12						
14	S-13.5	50	17		Weathered siltstone, brown-black, fractured, slightly wet in fractures.	
16					Moderately weathered siltstone, black-gray, damp.	
18						
20	S-18.5	50	0			

(Section continues downward)



**PROJECT NO. 18061-3**

**LOG OF BORING B-5/MW-5**  
**UNOCAL Station No. 5484**  
**18950 Lake Chabot Road**  
**Castro Valley, California**

**PLATE**  
**P - 6**

Depth	Sample No.	BLOWS	P.L.D.	USCS Code	Description	Well Const.
-22					Moderately weathered siltstone, black-gray, dry to damp, calcite in fractures.	
-24	S-23.5	50	0		Total Depth = 24 feet.	
-26						
-28						
-30						
-32						
-34						
-36						
-38						
-40						
-42						
-44						
-46						
-48						
-50						



PROJECT NO. 18061-3

**LOG OF BORING B-5/MW-5**

UNOCAL Station No. 5484  
 18950 Lake Chabot Road  
 Castro Valley, California

PLATE

P - 7

**Total depth of boring:** 29 feet    **Diameter of boring:** 10 inches    **Date drilled:** 5-24-89  
**Casing diameter:** 4 inches    **Length:** 27-1/2 feet    **Slot size:** 0.020-inch  
**Screen diameter:** 4 inches    **Length:** 20 feet    **Material type:** Sch 40 PVC  
**Drilling Company:** Kvilhaug Well Drilling    **Driller:** Rod and Tony  
**Method Used:** Hollow-Stem Auger    **Field Geologist:** Leigh Beem  
**Signature of Registered Professional:** \_\_\_\_\_  
**Registration No.:** \_\_\_\_\_    **State:** CA

DEPTH	SAMPLE NO.	FEET	P.I.D.	USCS CODE	DESCRIPTION	WELL CONST.
0					Asphalt (2 inches) over baserock (6 inches).	
2				CH	Clay, brown, damp, high plasticity, medium stiff.	
4	S-3.5	20 35	0.5		Very weathered mudstone/siltstone, with green-brown mottling, damp, very fractured with clay in fractures.	
6					----- Very weathered siltstone, green-brown, damp, fractured.	
8	S-8.5	10 18	0.3	▽		
14	S-13.5	6 12 25	0.1	▽		
18	S-18.5	10 30 50	0.1			
20					Sandstone, fine-grained, gray, fractured. (Section continues downward)	



PROJECT NO. 18061-3

**LOG OF BORING B-6/MW-6**  
 UNOCAL Station No. 5484  
 18950 Lake Chabot Road  
 Castro Valley, California

PLATE  
**P - 8**

Depth	Sample No.	BLOWS	P.I.D.	USCS Code	Description	Well Const.
-22					Sandstone, fine-grained, gray, fractured.	[Patterned]
-24	S-23.5	50	0.1			
-26					Unweathered mudstone, black, damp.	[Cross-hatched]
-28	S-28.5	50	0			
-30					Total Depth = 29 feet.	
-32						
-34						
-36						
-38						
-40						
-42						
-44						
-46						
-48						
-50						



PROJECT NO. 18061-3

**LOG OF BORING B-6/MW-6**

UNOCAL Station No. 5484  
 18950 Lake Chabot Road  
 Castro Valley, California

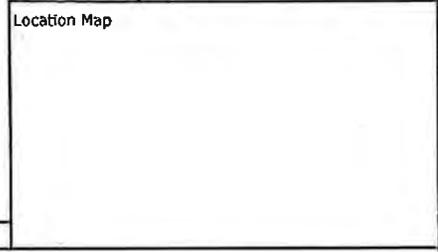
PLATE

P - 9

# Delta

Consultants

Project No: 5484 Client: COP Boring/Well No: 4A  
 Logged By: E. Weyrens Location: Castro Valley Page 1 of 1  
 Driller: Gregg Date Drilled: 2/18/2009  
 Drilling Method: HAS Hole Diameter: 8"  
 Sampling Method: Geoprobe Hole Depth: 10'  
 Casing Type: PVC Well Diameter: 2"  
 Slot Size: 0.02 Well Depth: 10'  
 Gravel Pack: #3 First Water Depth:  
 Static Water Depth:



Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing									
						1			Fill	Grass on top of fill down to 1 foot below grade
			Moist			2			CL	Sandy Lean Clay
						3				Brown in color, moist, fine grained sand
			Wet			4				Moist, no odors
						5				Water coming in at 3 fbg, possibly due to the rain or irrigation for the grass
						6				Increase in Gravel content at 4.5 fbg
						7				subangular to angular gravel, up to .5 of an inch in diameter.
						8	X			
			wet	0	MW-4A@9	9	X	O		Increase in Density at 8 fbg
			dry			10				At 9 fbg hit hard material, possibly a large rock, hard pan or bedrock, judging by the angular pieces of gravel, it is bedrock
						11				
						12				
						13				
						14				
						15				
						16				
						17				
						18				
						19				
						20				
						21				
						22				

# Delta Consultants

Project No: 5484  
 Logged By: E. Weyrens  
 Driller: Gregg  
 Drilling Method: HAS  
 Sampling Method: Geoprobe  
 Casing Type: PVC  
 Slot Size: 0.02  
 Gravel Pack: #3

Client: COP  
 Location: Castro Valley  
 Date Drilled: 2/18/2009  
 Hole Diameter: 8"  
 Hole Depth: 14'  
 Well Diameter: 2"  
 Well Depth: 14'  
 First Water Depth:  
 Static Water Depth:

Boring/Well No: 4B  
 Page 1 of 1

Location Map

Elevation: Northing: Easting:

Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1		Fill	Grass on top of fill down to 1 foot below grade
		Moist			2		CL	Sandy Lean Clay
					3			Brown in color, moist, fine grained sand
		Wet			4			Moist, no odors
					5			Water coming in at 3 fbg, possibly due to the rain or irrigation for the grass
					6			Increase in Gravel content at 4.5 fbg
					7			subangular to angular gravel, up to .5 of an inch in diameter.
					8			Fractured bedrock at 7 fbg (Switch to split spoon)
					9	X		Weathered bedrock
					10	X	O	Yellowish brown 10YR 5/4
		dry	0.6	MW-4B@10	11			Hard, No odor
					12			
					13	X		Same as above
					14	X	O	
		dry	0.8	MW-4B@14	15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			

**B O R I N G   L O G**

<b>Project No.</b> KEI-P90-0806		<b>Boring Diameter</b> 8"		<b>Logged By</b> W.W.		
<b>Project Name</b> Unocal Castr. Val. Lake Chab		<b>Well Cover Elevation</b> N/A		<b>Date Drilled</b> 5/7/91		
<b>Boring No.</b> EB1		<b>Drilling Method</b> Hollow-stem Auger		<b>Drilling Company</b> EGI		
<b>Penetration blows/6"</b>	<b>G. W. level</b>	<b>Depth (feet)</b> <b>Samples</b>	<b>Strati- graphy USCS</b>	<b>Description</b>		
10/30/45		0		Asphalt pavement over sand and gravel.		
			ML		Silt, trace sand and gravel, moist, grayish brown.	
			CH		Clay, trace fine-grained sand, moist, hard, olive gray and strong brown mottled, trace rootlets.	
88		5	N/A		Bedrock - shale, highly sheared, variably weathered, dry, gray to olive gray, with strong brown staining, waxy.	
					Bedrock, as above, less weathered, moist, gray to olive gray with olive brown staining.	
		10				
		15				
		20				
				<b>TOTAL DEPTH: 7'</b>		

**B O R I N G   L O G**

<b>Project No.</b> KEI-P90-0806		<b>Boring &amp; Casing Diameter</b> 9"                      2"		<b>Logged By</b> W.W. <i>ARB</i>
<b>Project Name</b> Unocal Castr. Val. Lake Chab		<b>Well Cover Elevation</b>		<b>Date Drilled</b> 5/7/91
<b>Boring No.</b> MW7		<b>Drilling Method</b>	Hollow-stem Auger	<b>Drilling Company</b> EGI
Penetration blows/6"	G. W. level	Depth (feet) Samples	Strati- graphy USCS	Description
		0		Asphalt pavement over silty gravel.
				Silt, trace sand, trace clay, moist, firm, trace rootlets, dark brown.
45/59-4"			ML	Clayey silt, with clay and sand, moist, stiff, pale brown.
80-3"		5		Bedrock-
				Shale, moderately weathered to highly weathered, highly sheared, slightly moist, gray with dark yellowish brown staining.
70-4"			N/A	
80-5"		10		Shale, highly sheared, variably weathered, slightly moist, gray with dark yellowish brown staining.
35/60-5"				Shale, highly sheared, waxy appearance, slightly moist, dark yellowish brown.
	▽ After 4 hours			
42/50-5"		15		
60-5"				Shale, highly sheared, variably weathered, slight waxy appearance, very moist, gray to olive gray.
		20		
				TOTAL DEPTH: 19.8'

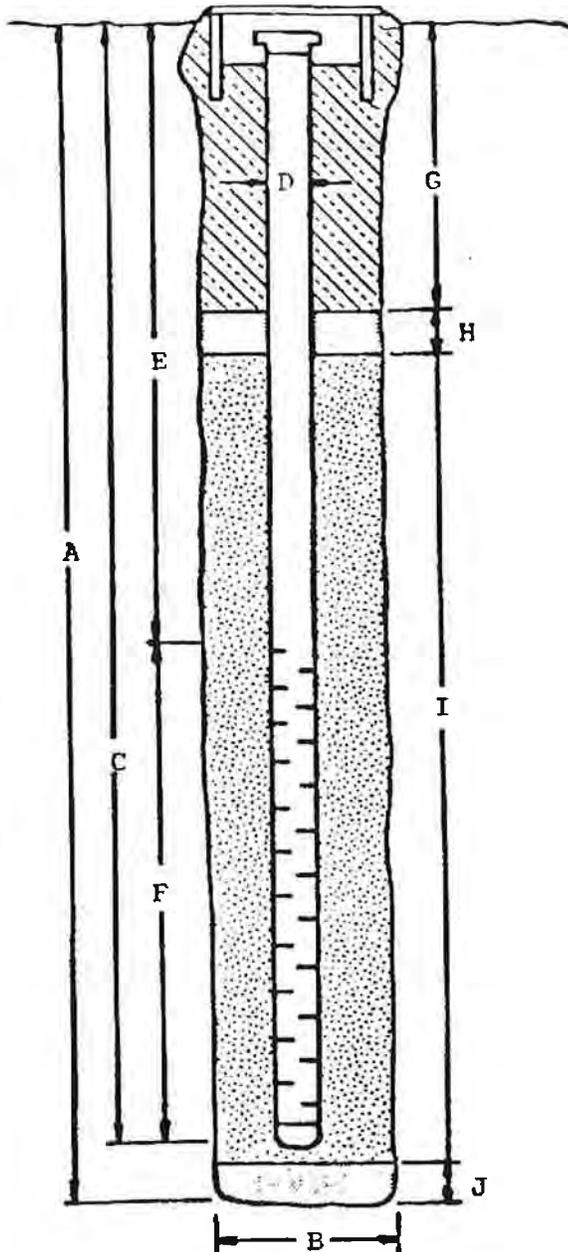
**W E L L   C O M P L E T I O N   D I A G R A M**

PROJECT NAME: Unocal Castro Valley, 18950 Lake Ch BORING/WELL NO. MW7

PROJECT NUMBER: KEI-P90-0806

WELL PERMIT NO.: \_\_\_\_\_

Flush-mounted Well Cover



A. Total Depth: 19.8'

B. Boring Diameter\*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 19.8'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 4.8'

F. Perforated Length: 15'

Perforation Type: Machined Slot

Perforation Size: 0.020"

G. Surface Seal: 1.8'

Seal Material: Concrete

H. Seal: 2'

Seal Material: Bentonite

I. Gravel Pack: 16'

Pack Material: RMC Lonestar Sand

Size: #3

J. Bottom Seal: None

Seal Material: N/A

\*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.



**Total depth of boring:** 15-1/2 feet **Diameter of boring:** 4 inches **Date drilled:** 11-17-89  
**Casing diameter:** N/A **Length:** N/A **Slot size:** N/A  
**Screen diameter:** N/A **Length:** N/A **Material type:** N/A  
**Drilling Company:** Environmental Exploration, Inc. **Driller:** Tom, Tim and Tom  
**Method Used:** Hollow-Stem Auger **Field Geologist:** Mark Armstrong  
**Signature of Registered Professional:** \_\_\_\_\_  
**Registration No.:** \_\_\_\_\_ **State:** CA

Depth	Sample No.	Blows	P.I.D.	USCS Code	Description	Well Const.
0					Asphalt underlain by baserock.	▽▽▽▽
2				CL	Silty clay, with gravel, tan, slightly damp, medium plasticity, hard.	▽▽▽▽
4	S-5.5	30 35 35	1.0		Silty gravelly clay.	▽▽▽▽
6						▽▽▽▽
8						▽▽▽▽
10	S-10	31 35 35	1.74			▽▽▽▽
12					Siltstone, gray-brown to tan, hard, weathered.	▽▽▽▽
14						▽▽▽▽
16	S-14.5	50	18		Shale, black, hard.	▽▽▽▽
16					Total Depth = 15-1/2 feet.	▽▽▽▽
18						▽▽▽▽
20						▽▽▽▽



PROJECT NO. 18061-5

# LOG OF BORING

B-8

Unocal Station No. 5484  
 18950 Lake Chabot Road  
 Castro Valley, California

PLATE

P - 5

**Total depth of boring:** 18 feet    **Diameter of boring:** 4 inches    **Date drilled:** 11-17-89  
**Casing diameter:** N/A    **Length:** N/A    **Slot size:** N/A  
**Screen diameter:** N/A    **Length:** N/A    **Material type:** N/A  
**Drilling Company:** Environmental Exploration, Inc.    **Driller:** Tom, Tim and Tom  
**Method Used:** Hollow-Stem Auger    **Field Geologist:** Mark Armstrong  
**Signature of Registered Professional:** \_\_\_\_\_  
**Registration No.:** \_\_\_\_\_    **State:** CA

Depth	Sample No.	Blows	P.L.D.	USCS Code	Description	Well Const.
0					Asphalt underlain by baserock.	▽▽▽▽
2				CL	Silty sandy clay, with trace gravel, tan, dry, medium plasticity, very stiff.	▽▽▽▽
4	S-4.5	17 28 15	1.1		Green and brown mottled, hard.	▽▽▽▽
6						▽▽▽▽
8						▽▽▽▽
10	S-10	18 33 50	1.1		Siltstone, gray-brown, hard, weathered and fractured, green-gray in fractures.	▽▽▽▽
12						▽▽▽▽
14	S-14.5	23 50	1.1		Clayey, brown, with fragments of gray siltstone/mudstone.	▽▽▽▽
16						▽▽▽▽
18	S-17	32 50	5.1		Shale, black.	▽▽▽▽
18					Total Depth = 18 feet.	
20						



**PROJECT NO. 18061-5**

**LOG OF BORING**

**B-9**

**Unocal Station No. 5484**  
**18950 Lake Chabot Road**  
**Castro Valley, California**

**PLATE**

**P - 6**

**Total depth of boring:** 20 feet    **Diameter of boring:** 4 inches    **Date drilled:** 11-16-89  
**Casing diameter:** N/A    **Length:** N/A    **Slot size:** N/A  
**Screen diameter:** N/A    **Length:** N/A    **Material type:** N/A  
**Drilling Company:** Environmental Exploration, Inc. **Driller:** Tom, Tim and Tom  
**Method Used:** Hollow-Stem Auger    **Field Geologist:** Mark Armstrong

**Signature of Registered Professional:** \_\_\_\_\_  
**Registration No.:** \_\_\_\_\_    **State:** CA

Depth	Sample No.	BLOWS	W.L.D.	USCS Code	Description	Well Const.
0					Asphalt underlain by baserock.	▽▽▽▽
					Gravel fill.	▽▽▽▽
2				CL	Silty sandy clay, with gravel, yellow-brown, damp, medium plasticity, hard, organics.	▽▽▽▽
4	S-4.5	9 18 27	0			▽▽▽▽
6						▽▽▽▽
8					Siltstone, dark gray and green mottled, hard, weathered and fractured.	▽▽▽▽
10	S-9.5	17 20 22	143			▽▽▽▽
12						▽▽▽▽
14						▽▽▽▽
16					Clayey, brown, with fragments of gray and brown siltstone/mudstone.	▽▽▽▽
18	S-17	21 24 28	224		Brown-black.	▽▽▽▽
20	S-19.5	80	8.0		Shale, black, dry.	▽▽▽▽
					Total Depth = 20 feet.	



**PROJECT NO. 18061-5**

**LOG OF BORING**    **B-10**  
**Unocal Station No. 5484**  
**18950 Lake Chabot Road**  
**Castro Valley, California**

**PLATE**  
**P - 7**

**Total depth of boring:** 18 feet    **Diameter of boring:** 4 inches    **Date drilled:** 11-16-89  
**Casing diameter:** N/A    **Length:** N/A    **Slot size:** N/A  
**Screen diameter:** N/A    **Length:** N/A    **Material type:** N/A  
**Drilling Company:** Environmental Exploration, Inc.    **Driller:** Tom, Tim and Tom  
**Method Used:** Hollow-Stem Auger    **Field Geologist:** Mark Armstrong  
**Signature of Registered Professional:** \_\_\_\_\_  
**Registration No.:** \_\_\_\_\_    **State:** CA

Depth	Sample No.	Blows	USCS Code	Description	Well Const.
0				Asphalt underlain by baserock.	
2			CL	Sandy clay, with gravel, gray-green, dry, medium plasticity, hard.	▽▽▽▽▽
4	S-4.5	12 20 44	3.8		
6					
8					
10	S-9.5	50		Siltstone, dark gray, hard, very weathered and fractured. Grades more sandy.	▽▽▽▽▽
12					
14	S-14.5	30 50		Clayey, brown, with fragments of gray-brown siltstone/mudstone.	
16					▽▽▽▽▽
18	S-17	50	2	Shale, black, slightly damp.	
20				Total Depth = 18 feet.	



**PROJECT NO. 18061-5**

**LOG OF BORING**

**B-11**

**Unocal Station No. 5484**  
**18950 Lake Chabot Road**  
**Castro Valley, California**

**PLATE**

**P - 8**

# Delta

**Environmental Consultants, Inc.**

Project No:	C1D54-8401-1	Client:	ConocoPhillips	Well No:	B-1
Logged By:	Lia Holden	Location:	18950 Lake Chabot Rd., Castro Valley	Page 1 of 1	
Driller:	Gregg Drilling	Date Drilled:	1/13/2005	Location Map	
Drilling Method:	Geoprobe	Hole Diameter:	2 inches	Please See Site Map	
Sampling Method:	direct push	Hole Depth:	4.5 feet		
Casing Type:	NA	Well Diameter:	NA		
Slot Size:	NA	Well Depth:	NA		
Gravel Pack:	NA	Casing Stickup:	NA		

Elevation	Northing	Easting
-----------	----------	---------

Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Concrete						AF		Approximately 6 inches of asphalt
Neat cement arout		Moist	0.1	Cleared to 5 feet Adjacent Probe	1	↑	CL	~3-4" of angular mixed gravel fill and clay
		wet	0.9		2			<b>Sandy Lean CLAY</b> ; medium to dark brown; 20-30% fine sand; minor coarse and medium sand; 70-80% fines; medium plasticity.
			0.6		3			Clay is lighter near grade and gradually changes to dark brown at bottom of boring.
					4	↓		<b>Bottom of boring at 4.5 feet</b>
					5			
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			

# Delta

Environmental Consultants, Inc.

Project No: C1D54-8401-1  
 Logged By: Lia Holden  
 Driller: Gregg Drilling  
 Drilling Method: Geoprobe  
 Sampling Method: direct push  
 Casing Type: NA  
 Slot Size: NA  
 Gravel Pack: NA

Client: ConocoPhillips  
 Location: 18950 Lake Chabot Rd., Castro Valley, CA  
 Date Drilled: 1/13/2005  
 Hole Diameter: 2 inches  
 Hole Depth: 20 feet  
 Well Diameter: NA  
 Well Depth: NA  
 Casing Stickup: NA

Well No: B-2

Page 1 of 1

Location Map

Please See Site Map

Elevation

Northing

Easting

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Concrete						AF		Approximately 4 inches of asphalt
		moist	10.2	↑ Cleared to 5 feet ↓	1		CL	
		damp			2			Lean <b>CLAY with sand</b> ; medium to light orange-brown; 15-25% fine to medium sand; minor coarse sand; 75-85% fines; medium to high plasticity; slow dilatancy.
			2195		3			soil becomes green discolored, more friable, and less moist with depth (saprolite).
			>4000		4			
			2583		5			
		damp	2823		6		↑	
					7			<b>Sandy lean CLAY</b> ; medium olive brown to green-brown (silty sandy clay); 20-30% coarse sand 10-20% fine and medium sand; 60-70% fines (friable when dry, plastic when wet).
			3427		8			
					9			Color change to light brown at 9.5 feet.
			1919		10		↓	
		damp	2212		11		↑	As above from 10-14 feet below grade: abundant iron oxide staining and caliche deposits.
			486		12			
			872		13		↓	
					14		↑	As above
		damp	114		15		↓	
			119		16		↑	As above color becomes light brown to tan at 17.5 feet and ash gray at 19.5 feet; caliche deposits still abundant but no iron oxide stains.
			10.5		17			
		damp			18			
					19			
					20		↓	<b>Bottom of boring at 20 feet</b>
				21				
				22				

Neat Cement Grout



# Delta

Environmental Consultants, Inc.

Project No: C1D54-8401-1  
 Logged By: Lia Holden  
 Driller: Gregg Drilling  
 Drilling Method: Geoprobe  
 Sampling Method: direct push  
 Casing Type: NA  
 Slot Size: NA  
 Gravel Pack: NA

Client: ConocoPhillips  
 Location: 18950 Lake Chabot Rd., Castro Valley  
 Date Drilled: 1/13/2005  
 Hole Diameter: 2 inches  
 Hole Depth: 20 feet  
 Well Diameter: NA  
 Well Depth: NA  
 Casing Stickup: NA

Well No: B-4

Page 1 of 1

Location Map

Please See Site Map

Elevation

Northing

Easting

Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Concrete						AF		Approximately 4 inches of asphalt
		damp	0.6	↑ Cleared to 5 feet ↓	1		GC	
					2	x		
			2.4		3			
		damp moist			4	x		
		wet	14.1		5	↑		As above
		moist	47.9		6			Saturated pocket at 6 feet (3" thick)
			77.9		7			gravel layer (4" thick) at 7 feet with clasts up to 4 cm diameter.
		moist	5.3		8	↓		
					9	↑		As above
			4.0		10			At 10 feet below grade: 7" section of well indurated yet fractured mudrock; iron oxide stains along parallel joints.
		moist	0.9		11			
			1.1		12	↓		From 11 to 14 feet:
					13	↑		<b>Gravelly lean CLAY with sand</b> ; light to medium orange-brown; 20-30% angular fine gravel; 15 -25% fine to medium sand; 10-20% coarse sand; 40-50% fines; low plasticity; slow to moderate dilatancy (clasts up to 4 cm diameter).
		moist			14		CL	
			0.8		15			
		wet	8.6		16	↓		As above
					17	↑		Saturated pocket (3-4" thick) at 16 feet.
		moist	1.4		18			Color change to medium ash brown at 18 feet.
		moist-wet	0.7		19			As above
					20	↓		Color change last 6 inches of this interval: dark brown-black with orange mottling.
					21			<b>Bottom of boring at 20 feet</b>
					22			

After reaching 19.5 feet, water level quickly rose to 4.5 feet

Neat Cement Grout

# Delta

Environmental Consultants, Inc.

Project No:	C1D54-8401-1	Client:	ConocoPhillips	Well No:	B-5
Logged By:	Lia Holden	Location:	18950 Lake Chabot Rd., Castro	Page 1 of 2	
Driller:	Gregg Drilling	Date Drilled:	1/13/2005	Location Map  Please See Site Map	
Drilling Method:	direct push	Hole Diameter:	2 inches		
Sampling Method:	continuous core	Hole Depth:	4.5 feet		
Casing Type:	NA	Well Diameter:	NA		
Slot Size:	NA	Well Depth:	NA		
Gravel Pack:	NA	Casing Stickup:	NA		

Elevation	Northing	Easting
-----------	----------	---------

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Concrete				↑	1	CNR		Aproximately 4 inches concrete
			2	↓	2	X	CL	<b>Sandy Lean CLAY with Gravel;</b> medium orange-brown; 10-20% angular gravel up to 1.5 cm diameter; 15-25% coarse to medium sand; 10-20% fine sand.
			2.4		3			
					4			
		damp	3.2		5		CL	<b>Gravelly lean CLAY with sand;</b> medium orange brown; 20-30% angular gravel clasts; 15-25% coarse to medium sand; 10-20% fine sand; 40-50% fines; moderate plasticity; slow dilatancy; hard gravel clasts from 0.5 to 2.5 cm diameter.
			4.1		6			
			0.1		7			
		damp	0.1		8			As above
					9			Color change at 10 feet to medium ash-brown
			2.4		10			
					11			Color change at 11.5 feet to dark brown
			3.1		12			
		damp			13			As above
			2.8		14			
			1.4		15			
			2.2		16		GC	<b>Clayey GRAVEL with Sand;</b> medium ash-brown; 30-40% fine gravel; 15-25% medium to fine sand; 20-30% coarse sand; 20-30% fines;
		damp			17			
			0.1		18			Color change at 18 feet to ash gray
					19			
		damp			20		CL	<b>Gravelly lean CLAY with sand;</b> ash gray; 20-30% angular gravel; 15-25% coarse to medim sand 10-20% fine sand; 40-50% fines; moderate plasticity.
		wet	0.9		21			
		moist	2.1		22			saturated zone from 20.5 feet to 21 feet.
								3 inch thick gravel layer at 22 feet.

Neat cement grout

# Delta

**Environmental Consultants, Inc.**

Project No:	C1D54-8401-1	Client:	ConocoPhillips	Well No:	B-5
Logged By:	Lia Holden	Location:	18950 Lake Chabot Rd., Castro Valley	Page 2 of 2	
Driller:	Gregg Drilling	Date Drilled:	1/13/2005	Location Map	
Drilling Method:	Geoprobe	Hole Diameter:	2 inches	Please See Site Map	
Sampling Method:	direct push	Hole Depth:	4.5 feet		
Casing Type:	NA	Well Diameter:	NA		
Slot Size:	NA	Well Depth:	NA		
Gravel Pack:	NA	Casing Stickup:	NA		

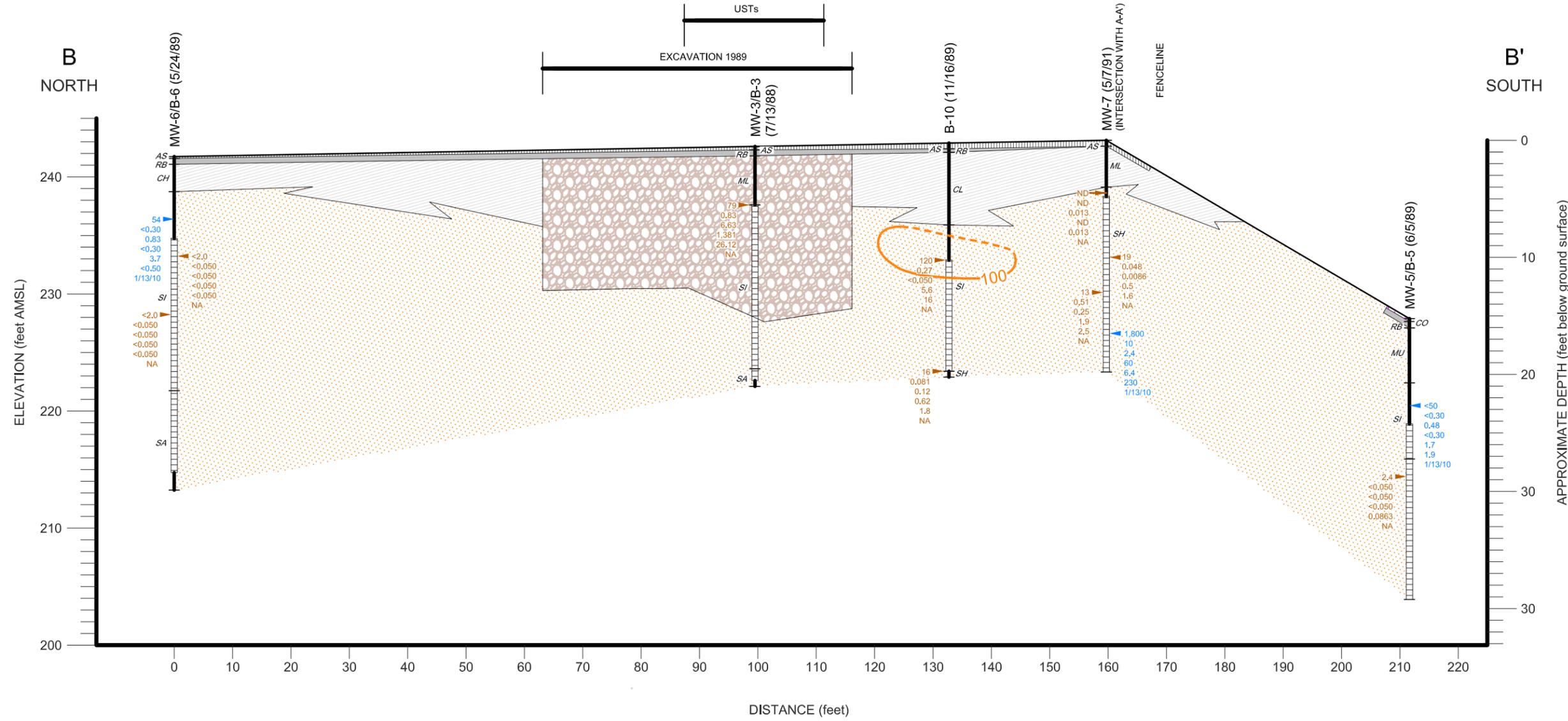
Elevation	Northing	Easting
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Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
	▽ 22.4	damp	3 2.1		23	↓	CL	<b>Gravelly lean CLAY with sand continued</b>  Abundant caliche deposits from 19 feet to bottom of boring. Met refusal at 23 feet <b>Bottom of boring at 23 feet</b>
					24			
					25			
					26			
					27			
					28			
					29			
					30			

**Attachment C**  
**Cross Sections**



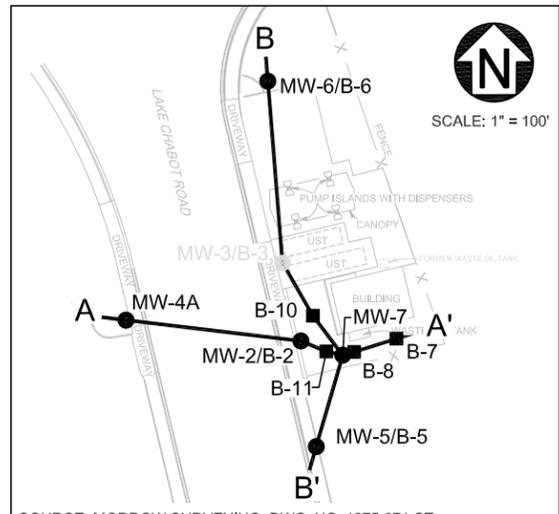
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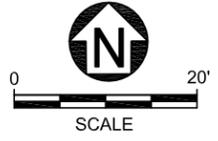
DISTANCE (feet)  
SCALE: HORZ. 1" = 20'  
VERT. 1" = 10'

**LEGEND**

- WELL DESIGNATION
- GROUND SURFACE
- OBSERVATION WELL INSTALLATION
- STRATIGRAPHIC BOUNDARY
- TYPICAL SOIL CLASSIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING
- ▲ APPROXIMATE SOIL SAMPLE LOCATION
- ▲ APPROXIMATE GROUNDWATER SAMPLE LOCATION
- ▲ FILL
- ▲ AS - ASPHALT
- ▲ CO - CONCRETE
- ▲ RB - ROAD BASE
- ▲ SA - SANDSTONE BEDROCK
- ▲ SI - SILTSTONE BEDROCK
- ▲ SH - SHALE BEDROCK
- ▲ MU - MUDSTONE BEDROCK
- ▲ ML - INORGANIC SILTS, VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY
- ▲ CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
- ▲ CH - INORGANIC CLAYS OF HIGH PLASTICITY
- ▲ NA CONSTITUENT NOT ANALYZED
- ▲ ND NON DETECT
- ▲ < LESS THAN DETECTION LIMITS
- 100— TPHg CONTOUR



SOURCE: MORROW SURVEYING, DWG. NO. 1275-071 CT, FEBRUARY 2009.



DESIGNED BY:	NO.:	DESCRIPTION:	DATE:
RPR			
RPR			
JH			

**AECOM TECHNICAL SERVICES**  
10461 OLD PLACERVILLE ROAD, SUITE 170  
SACRAMENTO, CALIFORNIA 95827  
PHONE: (916) 361-6400  
FAX: (916) 361-6401  
WEB: HTTP://WWW.AECOM.COM

**CROSS-SECTION B-B'**  
Unocal No. 5484 (351812), R0352  
18950 Lake Chabot Road  
Castro Valley, California

PROJECT NUMBER: 60267030  
DATE: 2/12/2013  
SCALE: 1" = 20'

FIGURE NUMBER:  
**C-2**  
SHEET NUMBER:  
1 of 1