

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

COLLEEN CHAWA, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
LOCAL OVERSIGHT PROGRAM (LOP)
For Hazardous Materials Releases
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6700
FAX (510) 337-9335

June 22, 2018

James Kiernan
Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583
(jkiernan@chevron.com)

Clover Trust 1997-1
c/o Tosco Corp
P.O. Box 52085
Phoenix, AZ 85072

Son T. Nguyen
5022 Crystal Ridge Court
Oakland, CA 94605-3873

Son T. Nguyen & Le Pham Family Trust
5022 Crystal Ridge Court
Oakland, CA 94605-3873

Terry Grayson
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Unocal
M, E, & E Department
P.O. Box 2390
Brea, CA 92622-2390

Redwood and 35th Avenue Gas Station Inc.
5022 Crystal Ridge Court
Oakland, CA 94605
(amylepham@yahoo.com)

Son T. Nguyen et al
5022 Crystal Ridge Court
Oakland, CA 94605-3873

Keith Marks
Suncor Holdings COP II
11601 Wilshire Blvd., Suite 700
Los Angeles, CA 90025

Tosco
2000 Crow Canyon Place, #400
San Ramon, CA 94583

Subject: Case Closure for Leaking Underground Storage Tank Cleanup Site Case No RO000058 and GeoTracker Global ID #T0600101465, Unocal #6129, 3420 35th Avenue, Oakland, CA 94619

Dear Responsible Parties:

This letter transmits the enclosed Remedial Action Completion Certificate and Case Closure Summary Form for the subject Leaking Underground Storage Tank Cleanup Site (LUST) case. These documents confirm the completion of the investigation and cleanup of the unauthorized release at the subject site.

ACDEH has evaluated this case for closure in accordance with the State Water Resources Control Board's Low-Threat Underground Storage Tank Closure Policy (LTCP) for petroleum related contaminants and has determined that the site qualifies for closure as a low risk site. ACDEH's closure determination was based on an analysis of risk to human health and the environment under the current land use scenario and was limited to:

- Exposure to releases of petroleum related contamination from underground storage system, and

- Identified receptors at and in the vicinity of the site under the land use scenarios and site development configurations at the time of case closure.

Risk to receptors under different land use scenarios or site configurations, or from other potential contaminants of concern associated with historic land use at and/or in the vicinity of the site were not considered in the closure determination of this LUST site.

Due to residual subsurface contamination on the property associated with historic land use and operations, the property owner is responsible for complying with the following requirements:

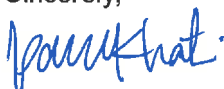
1. Notifying contractors and utility workers of residual subsurface contamination at the site prior to implementing any work that could result in exposure to subsurface contamination. Each contractor shall be responsible for the safety of its employees and site visitors and must adhere to a site-specific health and safety plan prepared for the work in accordance with California Occupational Safety and Health Administration requirements and use properly trained personnel in accordance with California Code of Regulations, Title 29, Part 1910.120 Hazardous Waste Operations and Emergency Response (HAZWOPER) standards; and
2. Notifying ACDEH (as required by Government Code Section 65850.2.2) prior to permitting and implementation of site redevelopment activities that modify the existing site configuration or land use at the time of this case closure. Upon notification, ACDEH will re-evaluate the risk to human health related to the proposed modifications to existing site improvements or proposed redevelopment project. ACDEH recommends that notification be provided in the initial stages of the planning and permitting process to facilitate interagency coordination and an efficient permitting process.

ACDEH recommends that during property transactions or bank refinancing for the site or properties in the vicinity of the site that environmental due diligence activities include an evaluation of potential contaminants of concern from all historic land uses at and in the vicinity of the site and associated risk to human health and the environment. Online case files for environmental cases associated with contamination related to historic land use and operations at and in the vicinity of the site can be viewed over the Internet at:

- ACDEH website (<http://www.acgov.org/aceh/index.htm>)
- State Water Resources Control Boards GeoTracker database: <https://geotracker.waterboards.ca.gov/>
- California Department of Toxic Substances Control Board's Envirostor database: http://www.dtsc.ca.gov/sitecleanup/cleanup_sites_index.cfm;
- United States Environmental Protection Agency's (EPA) Site Specific National Cleanup database: <https://www.epa.gov/cleanups/site-specific-national-cleanup-databases>

If you have any questions, please contact ACDEH caseworker Keith Nowell at (510) 567-6764 or keith.nowell@acgov.org

Sincerely,



Paresh C. Khatri
Supervising Hazardous Materials Specialist
Local Oversight & Site Cleanup Programs



Dilan Roe, P.E.
Chief, Land & Water Division

Enclosures: 1. Remedial Action Completion Certification
2. Case Closure Summary Form

cc: Mark Arniola, City of Oakland Environmental Services Division 250 Frank H. Ogawa Plaza, Ste. 5301, Oakland, CA 94612 (Sent via electronic mail to: MArniola@oaklandnet.com)
City of Oakland Planning and Building Dept., 50 Frank H. Ogawa Plaza, Ste. 2114, Oakland, CA 94612
City of Oakland Public Works Dept., 50 Frank H. Ogawa Plaza, Ste. 4314, Oakland, CA 94612
Katherine Szymanowski, Arcadis U.S., Inc., 100 Montgomery Street, Suite 300, San Francisco, CA 94104
(Sent via electronic mail to: katherine.szymanowski@arcadis.com)
Dilan Roe, ACDEH, (Sent via electronic mail to: dilan.roe@acgov.org)
Paresh Khatri, ACDEH; (Sent via electronic mail to: paresh.khatri@acgov.org)
Keith Nowell, ACDEH, (Sent via electronic mail to: keith.nowell@acgov.org)
Electronic File; GeoTracker

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

COLLEEN CHAWLA, Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
OFFICE OF THE DIRECTOR
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6777
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REMEDIAL ACTION COMPLETION CERTIFICATION

June 22, 2018

James Kiernan
Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583
(jkiernan@chevron.com)

Clover Trust 1997-1
c/o Tosco Corp
P.O. Box 52085
Phoenix, AZ 85072

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2000 Crow Canyon Place, #400
San Ramon, CA 94583

Subject: Case Closure for Leaking Underground Storage Tank Cleanup Site Case No RO000058 and GeoTracker Global ID #T0600101465, Unocal #6129, 3420 35th Avenue, Oakland, CA 94619

Dear Responsible Parties:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

Please be aware that claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

June 22, 2018
RO0000058
Page 2 of 2

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

A handwritten signature in black ink that reads "Ronald Browder". The signature is written in a cursive style with a horizontal line at the end.

Ronald Browder
Director

**ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH
LEAKING UNDERGROUND STORAGE TANK CLEANUP SITE
CASE CLOSURE SUMMARY FORM**

**Unocal #6129, 3420 35th Ave, Oakland, CA,
Case No. RO0000058, Geotracker ID T0600101465**

JUNE 22, 2018

This Case Closure Summary Form was prepared by Alameda County Department of Environmental Health (ACDEH) for the case identified above. This form provides a summary of information on the case and the basis for case closure. ACDEH's closure determination was based upon information in the case file and a case closure evaluation conducted in accordance with the State Water Resources Control Board's Low-Threat Underground Storage Tank Closure Policy (LTCP) for petroleum related contaminants. Based on this evaluation, and with the provision that the information provided to this agency is accurate and representative of site conditions, ACDEH has determined that there is a low threat to human health and safety and the environment at and in the vicinity of the site from residual subsurface contamination associated with the unauthorized release of petroleum related constituents from underground storage tank systems at the site.

Information in this Case Closure Summary Form is organized as follows:

- **Section 1 – Case Information:** Facility/site address, case identification numbers, lead regulatory oversight agency information, and responsible party information;
- **Section 2 – Property Information:** Assessor parcel numbers, historic land use and operations, environmental cases associated with the property, and land use at time of case closure;
- **Section 3 – Case Summary:** Reason the case was opened, investigation and cleanup activities, and the basis for the case closure determination;
- **Section 4 – Residual Contamination:** Constituents evaluated during site investigation activities and residual contamination remaining at closure;
- **Section 5 – Engineering and Institutional Controls:** Engineering and institutional controls established for the property; and
- **Section 6 – Completion of Closure Activities:** Status of monitoring and remediation wells and probes and disposal of investigation and remediation derived waste, and stakeholder notification of the proposed case closure.

Supporting documentation is provided in the following attachments:

- **Attachment A – LTCP Evaluation:** Geotracker LTCP checklist, site conceptual model summary, and LTCP media specific evaluation for groundwater, vapor intrusion and direct contact/outdoor air exposure;
- **Attachment B – Site Investigation Data:** Preferential pathways and sensitive receptor survey data, boring logs and media specific data;
- **Attachment C – Responsible Party & Property Information:** Responsible party identification, assessor's office property information, site configuration at time of case closure, and institutional controls (if applicable);
- **Attachment D – Case Closure Public Notification Information:** Public notification fact sheet and distribution list;
- **Attachment E:** List of attachment subcategories, and acronyms and symbols used in the Closure Summary Form.

Additional information on this case can be viewed in the online case file over the Internet on the ACDEH website (<http://www.acgov.org/aceh/lop/ust.htm>) or the State of California Water Resources Control Board GeoTracker website (<http://geotracker.waterboards.ca.gov>). Both databases should be reviewed to obtain a complete history.

CASE CLOSURE SUMMARY FORM

SECTION 1 - CASE INFORMATION

A. Facility/Site Address (Case Name & Address)

Project Name	Address
Unocal #6129	3420 35 th Ave. Oakland, CA 94619

B. Case Identification Numbers

Cleanup Oversight Agencies	Case/ID No
Alameda County Local Oversight Program (LOP) - Lead Agency	RO0000058
San Francisco Bay Regional Water Quality Control Board (Region 2)	01-1590
State Water Resources Control Board GeoTracker Global ID	T0600101465

C. Lead Agency Information

Agency Name:	Agency Address:	Agency Phone:
Alameda County Department of Environmental Health (ACDEH)	1131 Harbor Bay Parkway, Alameda, CA 94502-6577	(510) 567-6700
Case Worker:	LOP Supervisor:	Land Water Division Chief:
Keith Nowell, PG 8145, CHG 899	Paresh Khatri	Dilan Roe, PE C73703

D. Responsible Party Information

Responsible Parties:	Address:
Chevron Corporation, dba Chevron Environmental Management Company; Attn.: James Kiernan	6001 Bollinger Canyon Road, San Ramon, CA 94583
Redwood and 35 th Avenue Gas Station Inc., c/o Le Pham	5022 Crystal Ridge Court, Oakland, CA 94605-3873
Clover Trust 1997-1, c/o Tosco Corp.	PO Box 52085, Phoenix, AZ 85072
Son T. Nguyen	5022 Crystal Ridge Court, Oakland, CA 94605-3873
Son T. Nguyen Et Al	5022 Crystal Ridge Court, Oakland, CA 94605-3873
Son T. Nguyen & Le Pham Family Trust	5022 Crystal Ridge Court, Oakland, CA 94605-3873
Suncor Holdings COP II, Attn: Keith Marks	11601 Wilshire Blvd., Suite 700, Los Angeles, CA 90025
ConocoPhillips, Attn.: Terry Grayson	76 Broadway, Sacramento, CA 95818
Unocal, M, E, & C Department	PO Box 2390, Brea, CA 92622-2390
Tosco	2000 Crow Canyon Place, # 400, San Ramon, CA 94583

CASE CLOSURE SUMMARY FORM

SECTION 2 - PROPERTY INFORMATION

A. Assessor Parcel Numbers (APNs) & Associated Addresses

	APN(s)	Addresses
Current	30-1980-1	3432 35 th Avenue, Oakland, CA
Historic	None Identified	Non Identified

B. Identified Historic Land Use & Operations

Type	Description
Commercial Fueling Station	The site was used as commercial fueling station since at least 1969 and was still an active service station in 2018 at the time of case closure.
Commercial Automotive Repair	A service station facility has been located at the site since at least 1989 as documented on the Unauthorized Release Form filed in 1989 listing the facility as Unocal Service Station #6129. Known service station infrastructure includes waste oil USTs, hydraulic lifts, floor drains, and an oil-water separator beneath the central hydraulic lift. No information on other historic or current infrastructure associated with hazardous materials storage typically associated with service stations is in the case file.
Fill Placement	During investigation of the unauthorized releases of petroleum hydrocarbons from the UST systems fill material was identified in the subsurface at various locations at the site at depths of up to six feet below ground surface (bgs). No information about the origin and placement of the fill is contained in the case file.
Other Site Uses	Unknown

C. Environmental Cases Associated with Property

Case Type	Lead Agency	LOP Case No; Geotracker ID	Case Name	Associated Historic Land Use	Primary PCOCs	Year Case Opened/Closed
<i>Case Associated with this Case Closure Summary Form</i>						
LUST	ACDEH	RO0000058; T0600101465	Unocal #6129	Fueling Station	Fuel USTs: TPH (g, d, mo), BTEX, MTBE/TBA,	1989/2018
<i>Other Cases Associated with the Property</i>						
None Identified	----	----	----	----	----	----

CASE CLOSURE SUMMARY FORM

SECTION 3 – CASE SUMMARY

A. Known UST Systems & Service Station Infrastructure

UST System Component	Size/Quantity	Material Stored	Status	URF Filing Date
UST	9,800-gallon	Unleaded Gasoline	Removed	9/25/1989
UST	9,800-gallon	Unleaded Gasoline	Removed	9/25/1989
UST	550-gallon	Waste oil	Removed	9/25/1989
Piping	---	---	Removed	9/25/1989
UST	11,000-gallon	Unleaded Gasoline	Active	---
UST	11,000-gallon	Unleaded Gasoline	Active	---
UST	500-gallon	Waste oil	Active	---
Piping	---	---	Active	---

B. Unauthorized Release Description & Reason Case Opened

LUST Cleanup Site Case No. RO0000058/T0600101465 – Unocal #6129 was opened in 1989 by ACDEH to evaluate potential impacts to human health and the environment from unauthorized releases from the two 9,800 gallon gasoline USTs, one 550 gallon waste oil UST, and related fuel dispensing system components removed in 1989 during UST system upgrades.

Soil samples were collected from the base of the fuel UST tank pit excavation at a depth of 14 feet bgs (A1, A2, B1, B2), the dispenser/piping excavations at depths of 3 to 7.5 feet bgs (P1 through P4), and the waste oil UST excavation pit at a depth of 9.5 feet bgs (WO1). All samples were analyzed for TPHg, BTEX and organic lead. In addition the sample collected from the waste oil UST excavation was analyzed for TPHd, total oil & grease, and halogenated volatile organic compounds. Analytical results of the soil samples collected from the fuel UST excavations had maximum concentrations of 10 mg/kg TPHg, less than 0.05 mg/kg benzene, less than 0.1 mg/kg ethylbenzene and toluene, 0.11 mg/kg xylenes, and 0.058 mg/kg organic lead. Analytical results of the soil samples collected from the dispenser piping excavation had maximum concentrations of 690 mg/kg TPHg, 3.2 mg/kg benzene, 0.36 mg/kg toluene, less than 0.1 mg/kg ethylbenzene, and 19 mg/kg xylenes. The analytical results of the sample collected from the waste oil UST excavation had maximum concentrations of 3.3 mg/kg TPHd, 58 mg/kg oil & grease and non-detectable concentrations at good reporting limits for all other constituents. This data indicated unauthorized release(s) from the fuel UST system and waste oil UST had occurred at the site.

C. Site Investigations

Site investigation activities were conducted from 1989 to 2017 to evaluate the extent of subsurface impacts to soil and groundwater from releases(s) from the fuel UST and dispensing system and the waste oil UST. Site investigation activities included collection of (1) soil samples from borings advanced during installation of monitoring wells (MW1 through MW3), the remedial soil excavation surrounding well MW3 (SW-1 through SW-4 and BT-1 and BT-2), and exploratory bores (EB1 through EB4, SB-1, SB-3 through SB-5, B-2, B-7 through B-10, B-12, and B-14 through B-21); (2) grab groundwater samples from boreholes (B-2, B-7 through B-10, B-12, and B-14 through 16); and (3) groundwater samples from monitoring wells (MW-1 through MW-3). Subsurface lithology was logged using cone penetration testing methodology (CPT-B2, CPT-B4, CPT-B7, CPT- B8, CPT-B10, CPT-B14 and CPT-B-17 through CPT-B-21) adjacent to bores B-2, B-7 through B-10, B-12, B-14, and B-17 through B-21. Analytical data from soil and groundwater samples indicated that the subsurface beneath the site had been impacted by petroleum hydrocarbons, primarily TPHg, BTEX and MTBE/TBA.

CASE CLOSURE SUMMARY FORM

SECTION 3 – CASE SUMMARY (CONTINUED)

D. Remediation

In 1989, following removal of the USTs, approximately 1,700 cubic yards of contaminated soil was off-hauled to an appropriate receiving landfill. In 1991, an additional 230 cubic yards of soil was excavated to depths of approximately 6 feet bgs from an area between the dispenser islands and around monitoring well MW-3. No other remediation was conducted at the site.

E. Closure Evaluation

ACDEH evaluated this UST case for closure consistent with the State Water Resource Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP) and determined that the site qualified for closure as a low risk site to human health and the environment from residual contamination of petroleum hydrocarbons and related fuel constituents in the subsurface. ACDEH's evaluation determined that the site met all the LTCP General Criteria and the Media Specific Criteria for Groundwater & Vapor Intrusion to Indoor Air; however did not meet the Media Specific Criteria for Direct Contact and Outdoor Air Exposure for commercial use due to the lack of analysis of naphthalene and PAHs. The majority of the shallow soil impacts in the 0 to 10 foot interval from the UST system release at the site were excavated during removal of the fuel UST system (UST, dispenser and product piping) and waste oil UST in 1989 and the additional remedial soil excavation conducted in 1991 in the vicinity of the fuel dispensers. Analytical results for 33 samples collected within the 0 to 10 foot interval after remedial excavation was conducted document non-detectable or low concentrations of petroleum hydrocarbons in soil with the exception of the area in the vicinity of boring B-7 where TPHg, ethylbenzene and xylenes were detected in soil at 6 feet bgs at concentrations of 220 mg/kg, 0.46 mg/kg, and 0.51 mg/kg in 2006. Therefore, naphthalene and PAHs are not likely to exceed the LTCP media-specific criteria in shallow soil across the majority of the site. Additionally, at the time of case closure evaluation the site was an active fueling station, and therefore any repair or maintenance activity of existing site improvements in areas of residual contamination requires planning and implementation of appropriate health and safety procedures prior to and during excavation activities. ACDEH's low risk site determination was based on receptors and environmental conditions identified at and in the vicinity of the site at the time of closure and reasonably anticipated near-term future scenarios, and with the provision that the information provided to ACDEH is accurate and representative of site conditions.

CASE CLOSURE SUMMARY FORM

SECTION 4 – RESIDUAL CONTAMINATION

A. Constituents Evaluated & Residual Contamination Remaining at Closure

Material Stored/Dispensed in UST System	Analytes	Sampled, Residual	Media						
			S	GW	SW	SV	SS	IA	OA
Engine Fuels	TPH-g ¹	Sampled	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Gasoline Fuel (1, 2, 9, 10, 11, 12, 13, 14)	TPH-d ²	Sampled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Diesel Fuel (2, 9, 10)	TPH-mo ³ (soil only)	Sampled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Jet Fuel (1, 2, 4, 9, 10)	TPH-jf ⁴	Sampled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unknown Fuel (1, 2, 4, 9, 10, 11, 12, 13, 14)	TPH-k ⁵	Sampled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heating Oils	TPH-ss ⁶	Sampled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Kerosene (2, 5, 9, 10)	TPH-bo ⁷	Sampled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Residential Heating Oils (2, 3, 9, 10)	TPH- ho ⁸	Sampled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Commercial & Industrial Heating Oils (1, 2, 3, 7, 9, 10, 15, 16)	BTEX ⁹	Sampled	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Oils	Naphthalene ¹⁰	Sampled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Waste (Used) Oil (1, 2, 3, 9, 10, 15, 16, 17, 18)	MTBE/TBA ¹¹	Sampled	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hydraulic Oil (8, 16, 17)	EDB/EDC ¹²	Sampled	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Dielectric Oil (2, 3, 10, 16, 17)	Organic Lead ¹³ (TML, TEL)	Sampled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unknown Oil (1, 2, 3, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18)	Fuel Oxygenates ¹⁴ (DIPE, TAME, EtOH, ETBE)	Sampled	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Solvents	Halogenated VOCs ¹⁵ (full scan)	Sampled	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hydrocarbon Solvents (2, 3, 6, 9, 10)	SVOCs ¹⁶	Sampled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Chlorinated Solvents (15)	PCBs ¹⁷	Sampled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Metals ¹⁸ <input type="checkbox"/> (Cd, Cr, Pb, Ni, Zn) <input type="checkbox"/> (CAM 17)	Sampled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Residual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

S = Soil, GW = Groundwater, SW = Surface Water, SV = Soil Vapor, SS = Sub-Slab Vapor, IA = Indoor Air, OA = Outdoor Air

CASE CLOSURE SUMMARY FORM

SECTION 5 – ENGINEERING AND INSTITUTIONAL CONTROLS

A. Land Use & Operations at Time of LUST Case Closure

At the time of closure the site was located at the southern corner of the intersection of 35th Avenue and Quigley Street and was an active commercial service station with two 11,000 gallon gasoline USTs, one 500 gallon waste oil UST, four fuel dispensers and three service bays. There were no known plans to redevelop the site.

B. Engineering and Institutional Controls

Engineering Controls
Not Applicable
Institutional Controls
Not Applicable

CASE CLOSURE SUMMARY FORM

SECTION 6 - COMPLETION OF CLOSURE ACTIVITIES

As a condition of case closure all monitoring and remediation wells and probes must be properly destroyed (unless the owner of the property on which the monitoring point is located certifies that the monitoring point will be maintained); all remediation systems must be decommissioned; all investigation and remediation derived waste must be properly disposed of; and all stakeholders notified of the proposed case closure.

A. Well Status (Groundwater)

No. of Wells Installed: 3 (MW-1 through MW-3)	No. of Wells Lost: 0
No. of Wells Destroyed: 3	No. of Wells Retained: 0

B. Vapor Probe Status

No. of Soil Vapor Probes (VP) Installed: 0	No. of VPs Lost: 0
No. of Sub-Slab Probes Installed: 0	No. of VPs Retained: 0
No. of VPs Destroyed: 0	No. of VPs Retained: 0

C. Remediation System Decommissioning

Type of System	Not Applicable
Remediation System Components Removed	Not Applicable

D. Investigation and Remediation Derived Waste Removal Status

All investigation derived waste associated with site investigations of the fuel UST system and the waste oil UST release was removed from the site.

E. Public Comment

A 60 day public notification period was completed on April 20, 2018. No comments were received.

ATTACHMENT A-1

Geotracker LTCP Evaluation Checklist

UNOCAL #6129 (T0600101465) - [MAP THIS SITE](#)

PUBLIC PAI

3420 35TH AVE. - [VIEW ALTERNATE ADDRESSES](#)
OAKLAND, CA 94619
ALAMEDA COUNTY
LUST CLEANUP SITE ([INFO](#))
STATUS: COMPLETED - CASE CLOSED

PERTINENT INFORMATION:
CUF Claim #: 6755 CUF Priority Assigned: D CUF Amount Paid: \$0

CLEANUP OVERSIGHT AGENCIES
ALAMEDA COUNTY LOP ([LEAD](#)) - CASE #: R00000058 - [KEITH NOWELL](#)
SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-1590 - [Regional Water Board](#)

Activities Report

Documents / Data

Environmental Conditions

Admin

Funding

Case Reviews

THIS PROJECT WAS LAST MODIFIED BY [DILAN ROE](#) ON 6/29/2018 10:45:57 AM - [HISTORY](#)

CLOSURE POLICY

THIS VERSION IS FINAL AS OF 6/29/2018

CHECKLIST INITIATED ON 8/9/2013

[CLOSURE POLICY HISTORY](#)

General Criteria - The site satisfies the policy general criteria - [CLEAR SECTION ANSWERS](#) YES

a. Is the unauthorized release located within the service area of a public water system?
 Name of Water System : YES NO

b. The unauthorized release consists only of petroleum ([info](#)). YES NO

c. The unauthorized ("primary") release from the UST system has been stopped. YES NO

d. Free product has been removed to the maximum extent practicable ([info](#)). FP Not Encountered YES NO

e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed ([info](#)). YES NO

f. Secondary source has been removed to the extent practicable ([info](#)). YES NO

g. Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15. Not Required YES NO

h. Does a nuisance exist, as defined by [Water Code section 13050](#). YES NO

1. Media-Specific Criteria: Groundwater - The contaminant plume that exceeds water quality objectives is stable or decreasing in areal extent, and meets all of the additional characteristics of one of the five classes of sites listed below. - [CLEAR SECTION ANSWERS](#) YES

EXEMPTION - Soil Only Case (Release has not Affected Groundwater - [info](#)) YES NO

Does the site meet any of the Groundwater specific criteria scenarios?
 1.5 - The regulatory agency determines, based on an analysis of site specific conditions, that the site under current and reasonably anticipated near-term future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame. YES NO

2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - The site is considered low-threat for the vapor-intrusion-to-air pathway if site-specific conditions satisfy items 2a, 2b, or 2c - [CLEAR SECTION ANSWERS](#) YES

EXEMPTION - Active Commercial Petroleum Fueling Facility YES NO

3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure - The site is considered low-threat for direct contact and outdoor air exposure if it meets 1, 2, or 3 below. - [CLEAR SECTION ANSWERS](#) NO

EXEMPTION - The upper 10 feet of soil is free of petroleum contamination YES NO

Does the site meet any of the Direct Contact and Outdoor Air Exposure criteria scenarios? YES NO

ADDITIONAL QUESTIONS - Please indicate only those conditions that do not meet the policy criteria:

Exposure Type:
 Residential Commercial Utility Worker

Petroleum Constituents in Soil:
 ≤ 5 Feet bgs >5 Feet bgs and ≤10 Feet bgs Unknown

Soil Concentrations of Benzene:
 > 1.9 mg/kg and ≤ 2.8 mg/kg > 2.8 mg/kg and ≤ 8.2 mg/kg > 8.2 mg/kg and ≤ 12 mg/kg > 12 mg/kg and ≤ 14 mg/kg > 14 mg/kg Unknown

Soil Concentrations of EthylBenzene:
 > 21 mg/kg and ≤ 32 mg/kg > 32 mg/kg and ≤ 89 mg/kg > 89 mg/kg and ≤ 134 mg/kg > 134 mg/kg and ≤ 314 mg/kg > 314 mg/kg Unknown

Soil Concentrations of Naphthalene:
 > 9.7 mg/kg and ≤ 45 mg/kg > 45 mg/kg and ≤ 219 mg/kg > 219 mg/kg Unknown

Soil Concentrations of PAH:
 > 0.063 mg/kg and ≤ 0.68 mg/kg > 0.68 mg/kg and ≤ 4.5 mg/kg > 4.5 mg/kg Unknown

Area of Impacted Soil:
 Area of Impacted Soil > 82 by 82 Feet Unknown

Additional Information

Should this case be closed in spite of NOT meeting policy criteria?
 Explain:
 The site does not meet the Media Specific Criteria for Direct Contact and Outdoor Air Exposure for commercial use due to the lack of analysis of naphthalene and PAHs. However, the majority of the shallow soil impacts in the 0 to 10 foot interval from the UST system and dispenser/piping releases at the site were excavated during removal of the fuel UST system (UST, dispenser and product piping) and waste oil UST in 1989 and the additional remedial soil excavation conducted in 1991 in the vicinity of the fuel dispensers. Analytical results for 33 samples collected within the 0 to 10 foot interval after remedial excavation was conducted document non-detectable or low concentrations of petroleum hydrocarbons in soil with the exception of the area in the vicinity of boring B-7 where TPHs, ethylbenzene and xylenes were detected in soil at 6 feet bgs at concentrations of 220 mg/kg, 0.46 mg/kg, and 0.51 mg/kg in 2006. Therefore, naphthalene and PAHs are not likely to exceed the LTCP media-specific criteria in shallow soil across the majority of the site. Additionally, at the time of case closure evaluation the site was an active fueling station, and therefore any repair or maintenance activity of existing site improvements in areas of residual contamination requires planning and implementation of appropriate health and safety procedures prior to and during excavation activities. YES NO

Has this LTCP Checklist been updated for FY 17/18? YES NO

ATTACHMENT A-2

Site Conceptual Model Summary

ATTACHMENT A-2

SITE CONCEPTUAL MODEL SUMMARY

A. Site Geology & Hydrogeology

The geologic and hydrogeologic characteristics of the site were evaluated using data from boring logs and CPT data from site investigations. Soil beneath the site generally consists of lean clay with varying amounts of silty sand and silty gravel to the maximum explored depths of 55 feet bgs. The subsurface stratigraphy is composed of predominantly fine-grained sediments of varying thickness with alternating laterally discontinuous lenses of medium and coarse-grained sediments. Cobbly fill material was observed in boring logs at various locations at the site at depths of up to 6 feet bgs. A groundwater monitoring well network consisting of three onsite wells screened from 22 to 44 feet bgs was installed and monitored at the site from 1990 to 2017. Wells MW-1 and MW-2 were located at the upgradient edge of the site, while well MW-3 was located at the downgradient edge of the site. Historical water level measurements indicate that the depth to water ranges from approximately 24 to 34 feet bgs. Historical data also indicate that the predominant direction of groundwater flow beneath the site is to the southwest. Shallow groundwater flow in the region is generally controlled by topography, and is consistently directed to the southwest at the site. The site is separated from downgradient properties by a sunken section of Interstate-580. Based on a hydrogeologic study, groundwater flow in the region is likely strongly influenced by the I-580 de-watering system. Historical groundwater elevations are consistent with this interpretation. The strongest line of supporting evidence is the seasonal fluctuations of groundwater gradients. At all three locations, periods of high water are marked by strong increases in gradient and in the case of the down-gradient property, a moderate shift in gradient in the direction of the freeway. This is most likely caused by increased capture from the de-watering system as pumping is increased at the lift state

B. Dissolved Phase Contaminant Plume

The dissolved phase contaminant plume appears to be commingled with the dissolved phase contaminant plume present on the adjacent upgradient former LUST Cleanup Site Case No. RO0002515/ T06019757161 (Valero #3832) located at 3450 35th Ave. The commingled plume was not defined to water quality objectives by the combined groundwater monitoring well network of the two sites, however at the time of closure of the Valero #3832 and Unocal #6129 sites in 2018, no reported potential upgradient groundwater contamination influence had been observed in the groundwater monitoring well network associated with LUST Cleanup Site Case No. RO0000014/T0600100213 (BP #11132) located at 3201 35th Avenue, downgradient of the I-580 freeway and the Valero #3832 and Unocal #6129 sites.

A hydraulic study was conducted in association with the Unocal #6129 site to evaluate potential effects on groundwater from a dewatering system associated with a sunken section of Interstate Highway I-580 that separates the BP #11132 site from the Unocal and Valero sites. Historical groundwater monitoring data for these sites indicated that groundwater flow directions for the sites located northeast of I-580 (Unocal and Valero) were consistently to the southwest while the groundwater flow direction for BP site located to the southwest of I-580 varied seasonally in direction and magnitude.

A review of Caltrans as-built stormwater drainage system plans for I-580 indicated that stormwater runoff on the sunken section of I-580 is collected at a series of inlets located in the center median and shoulders of the highway and directed to a stormwater lift station that pumps stormwater up from the highway into the city stormwater drainage system. To support case closure of the Unocal #6129 site, the I-580 drainage system was incorporated into cross-sections and groundwater elevation maps and modeled as a gaining stream. Groundwater elevations were taken from historical data selected to represent summer (low-water) and winter (high-water) conditions. The cross-sections showed that during low-water periods, the northern end of the I-580 dewatering system is above the water table, while the southern end remains submerged. A flow net was calculated for the cross section under high-water conditions to model capture of the de-watering system below the water table. The flow net predicts strong groundwater capture effects for the Unocal and Valero sites and weak effects for the downgradient BP site. Based on this analysis, groundwater flow in the region appears to be strongly influenced by the I-580 de-watering system. Historical groundwater elevations observed at the three sites are consistent with this interpretation. The strongest line of supporting evidence is the seasonal fluctuations of groundwater gradients. At all three LUST sites, periods of high water are marked by strong increases in gradient, and in the case of the downgradient BP site, a moderate shift in gradient in the direction of the freeway. This is most likely caused by increased capture from the de-watering system as pumping is increased at the lift station. The analysis predicts that the commingled Unocal and Valero plume will be captured by the I-580 de-watering system and will not reach downgradient properties.

ATTACHMENT A-2

SITE CONCEPTUAL MODEL SUMMARY (CONTINUED)

C. Non Aqueous Phase Liquid (NAPL)

No direct or indirect evidence of non-aqueous phase liquid (NAPL) has been observed in soil borings or groundwater or monitoring wells.

D. Soil Impacts

Soil analytical data indicate the former gasoline USTs and dispenser island located in the eastern portion of the site were the primary sources of petroleum hydrocarbon related fuel constituents detected in the subsurface. The primary source of TPH as diesel and motor oil in soil was identified as the waste oil UST located near the southeastern site boundary. Residual TPHg has been detected in unsaturated soil at the site at a maximum concentration of 220 mg/kg at boring B-7 at 6 feet bgs and in unsaturated soil at a maximum concentration of 92 mg/kg at boring B-2 at a depth of 26 feet bgs. Residual TPHd and TPH mo were detected at maximum concentrations of 3.3 mg/kg and 58 mg/kg in the sample collected from the waste oil excavation pit at a depth of 9.5 feet bgs. Residual MTBE has been detected in unsaturated soil at the site at a maximum concentration of 0.13 mg/kg and in saturated soil at a maximum concentration of 0.53 mg/kg. Residual concentrations of all other petroleum related fuel constituents have been reported as non-detect or at low concentrations in unsaturated soil and non-detect in saturated soil.

E. Preferential Pathways

A preferential pathway survey was conducted to evaluate the potential for contaminant migration via preferential utility lines, utility vaults, and trenches within the site vicinity. The conduit study identified several subsurface utilities at or near the site.

F. Sensitive Receptors

A sensitive receptor survey was conducted that included a search for domestic and municipal wells within 2,000 feet of the site and identification of the nearest surface water bodies and land usage near the site. The purpose of the sensitive receptor survey was to help determine if site contamination poses risks to human health and the environment. At time of case closure, residential properties were identified on the southeastern side of the site and northwest of the site across 35th Avenue. A vacant former commercial service station was located northeast of the site across Quigley Street. The closest surface water body identified was Peralta Creek located approximately 600 feet northwest and cross gradient from the site which flows southwest towards the San Francisco Bay. An irrigation well was identified on Arkansas Street, approximately 600 feet west-southwest, downgradient and cross-gradient of the site.

ATTACHMENT A-3

LTCP Media Specific Evaluation for Groundwater

ATTACHMENT A-3

LTCP Media Specific Evaluation - Groundwater					
Closure Scenario					
<input type="checkbox"/> Exemption - Site has not affected groundwater; <input type="checkbox"/> Scenario 1 – Short stabilized contaminant plume; <input type="checkbox"/> Scenario 2, <input type="checkbox"/> Scenario 3 – Moderate stabilized contaminant plumes; <input type="checkbox"/> Scenario 4 – Long stabilized contaminant plumes; <input checked="" type="checkbox"/> Scenario 5 – Site specific conditions demonstrate that the contaminant plume poses a low threat to the human health and the environment					
Evaluation Criteria					
Key: Shading = site specific data; <input checked="" type="checkbox"/> = type of data or criteria met; hatched box indicates no criteria					
Element Evaluated	Site Specific Data	Short Plume Scenario 1	Moderate Plume Scenarios 2, 3		Long Plume Scenario 4
Plume Length (feet)	<input type="checkbox"/> <100 <input checked="" type="checkbox"/> <250 <input type="checkbox"/> <1,000 <input type="checkbox"/> ≥1,000	<input type="checkbox"/> <100	<input checked="" type="checkbox"/> <250	<input checked="" type="checkbox"/> <250	<input checked="" type="checkbox"/> <1,000
Free Product	<input checked="" type="checkbox"/> No FP <input type="checkbox"/> FP Onsite <input type="checkbox"/> FP Offsite <input type="checkbox"/> Removed to Max Extent	<input checked="" type="checkbox"/> No FP	<input checked="" type="checkbox"/> No FP	<input type="checkbox"/> Removed to max extent onsite; <input type="checkbox"/> Does not extend offsite	<input checked="" type="checkbox"/> No FP
Plume Stability	<input type="checkbox"/> Extent Undefined <input checked="" type="checkbox"/> Stable <input checked="" type="checkbox"/> Decreasing <input checked="" type="checkbox"/> ≥5 Years	<input checked="" type="checkbox"/> Stable or decreasing	<input checked="" type="checkbox"/> Stable or decreasing	<input checked="" type="checkbox"/> Stable or decreasing for ≥ 5 years	<input checked="" type="checkbox"/> Stable or decreasing
Distance to Nearest Water Supply Well from Plume Boundary (feet)	Downgradient: 600 Upgradient: >1,000 Crossgradient: 600	<input type="checkbox"/> >250	<input checked="" type="checkbox"/> >1,000	<input checked="" type="checkbox"/> >1,000	<input checked="" type="checkbox"/> >1,000
Distance to Nearest Surface Water Body from Plume Boundary (feet)	Downgradient: >1,000 Upgradient: >1,000 Crossgradient: 600	<input checked="" type="checkbox"/> >250	<input type="checkbox"/> >1,000	<input type="checkbox"/> >1,000	<input type="checkbox"/> >1,000
Maximum Benzene Concentrations @ Closure (µg/l)	<20		<input checked="" type="checkbox"/> <3,000		<input checked="" type="checkbox"/> <1,000
Maximum MTBE Concentrations @ Closure (µg/l)	Upgradient Wells: <0.5 to 1300 (MW-1) 48 to 570 (MW-2)		<input checked="" type="checkbox"/> <1,000		<input checked="" type="checkbox"/> <1,000
Last 5 Years of Monitoring	Downgradient well: <0.5 to 600 (MW-3)				
Land Use Restriction	<input checked="" type="checkbox"/> Not Required <input type="checkbox"/> Recorded			<input type="checkbox"/> Recorded	

ATTACHMENT A-3

LTCP Media Specific Evaluation - Groundwater	
Element	Analysis
Plume Length	The commingled groundwater plume that extends off-site in the southwesterly direction not been defined to water quality objectives. However, the hydraulic analysis of groundwater flow prepared for the site has determined the contaminant plume is intercepted by the adjacent Highway 580 dewatering system located immediately downgradient of the site, and thus the contaminant plume length is estimated to be approximately 150 feet.
Free Product	Free product has not been observed at the site.
Plume Stability	Although the leading edge of the plume has not been defined, the hydraulic analysis of groundwater flow prepared for the site has determined the contaminant plume is intercepted by the submerged Highway 580 and thus is contained in areal extent. Additionally, based on contaminant concentrations in onsite monitoring wells, water quality objectives will be achieved within a reasonable time frame as evident in the decreasing contaminant concentration trends in well MW-3. Monitoring well MW-3, the most downgradient well at the site, has exhibited stable concentrations over the last five years with fluctuations in concentrations ranging from 98 µg/L to 550 µg/L. MTBE concentrations in well MW-3 have also exhibited stable concentrations over the same time period with fluctuations ranging from 100 µg/L to 570 µg/L.
Benzene Concentrations	Benzene was reported in one groundwater sample collected from upgradient monitoring well MW-1 at a concentrations of 0.32 µg/L in 1991. Benzene concentrations in all other groundwater samples collected at the site were non-detect with reporting limits ranging from 0.5 to 10 µg/L.
MTBE Concentrations	MTBE has been detected in all three monitoring wells at the site. The maximum historic MTBE concentration was detected in well MW-3 at a concentration of 3,700 µg/L in 2003. MTBE concentrations in well MW-3 decreased significantly over the period that it was monitored (2003 to 2017) with the last measured concentration of 600 µg/L in 2017. Concentrations of MTBE in upgradient monitoring well MW-1 have exhibited increasing trends over the period that it was monitored (2003 through 2017) with fluctuations ranging from <0.5 µg/L to 600 µg/L. Upgradient well MW-2, exhibited a stable trend in MTBE concentrations since 2008 with fluctuations ranging from <0.5ug/L to 1,500 µg/L. The data in wells MW-1 and MW-2 indicates an upgradient source of MTBE.
Water Supply Wells	A search of the Department of Water Resources, Alameda County Public Works Agency and State Water Resources Control Board GeoTracker Groundwater Ambient Monitoring Assessment databases indicates that the closest permitted water supply well is an irrigation well located at 3397 Arkansas Street at a distance of approximately 600 feet west-southwest, downgradient and cross-gradient of the site. To confirm the status of this well, questionnaires with delivery confirmation were sent to the property owner on May 15, 2014, June 5, 2014, and August 6, 2014. As of the date of this case closure, the property owner had not responded to any of the requests. It is unknown whether or not the well is in use. However, the I-580 dewatering analysis did not indicate any significant draw-down associated with an irrigation well located on Arkansas Street and predicted any potential chemicals of concern originating from the commingled Unocal and Valero plume would be captured by the I-580 de-watering system and would not reach downgradient properties.
Surface Water Bodies	The closest surface water body is Peralta Creek located approximately 500 feet in the down gradient direction across Highway 580 and 600 feet in the cross gradient direction. Historic groundwater flow direction is to the southwest and the contaminant plume is relatively narrow as defined by the site groundwater monitoring wells. As Highway 580 creates a hydraulic barrier to groundwater flow, and based on the cross-gradient direction to the contaminant plume, Peralta Creek would not be expected to be significantly impacted by release(s) at the site. Courtland Creek is located approximately 1,900 feet to the northeast in the up gradient direction. Based on the distance and reported groundwater flow direction, Courtland Creek would not be expected to be significantly impacted by release(s) at the site.

ATTACHMENT A-4

LTCP Media Specific Evaluation for Vapor Intrusion

ATTACHMENT A-4

LTCP Media Specific Evaluation – Vapor Intrusion

Closure Scenario

- Exemption - Active fueling station exempt from vapor specific criteria (onsite);
 Scenario 1 – Unweathered free phase LNAPL on groundwater; Scenario 2 – Unweathered residual LNAPL in soil;
 Scenario 3a, Scenario 3b, Scenario 3c – Dissolved phase benzene concentrations in groundwater;
 Scenario 4a - Soil vapor concentrations without bioattenuation zone;
 Scenario 4b - Soil vapor concentrations with bioattenuation zone;
 Site specific risk assessment demonstrates human health is protected;
 Exposure controlled through use of mitigation measures or institutional or engineering controls

Evaluation Criteria.

Key: Shading = site specific data; = type of data or criteria met; hatched box indicates no criteria

Element Evaluated	Site Specific Data	High Concentration Source Scenarios 1, 2	Low Concentration Source Scenarios 3a, 3b, 3c			Soil Vapor Scenarios 4a, 4b	
		Unweathered NAPL	Dissolved Phase Benzene in Groundwater			Without Bio. Zone	With Bio. Zone
Groundwater <input checked="" type="checkbox"/> WT <input type="checkbox"/> SC <input type="checkbox"/> C	Benzene Concentration: (µg/L): <20	<input type="checkbox"/> ≥1,000	<input checked="" type="checkbox"/> <100	<input type="checkbox"/> ≥100 & <1,000	<input type="checkbox"/> <1,000		
NAPL <input type="checkbox"/> No NAPL <input checked="" type="checkbox"/> NAPL in Soil <input type="checkbox"/> NAPL on GW	<input type="checkbox"/> Direct Evidence <input type="checkbox"/> Indirect Evidence <input checked="" type="checkbox"/> W; <input type="checkbox"/> UW	<input type="checkbox"/> UW in Soil or <input type="checkbox"/> UW on GW	<input checked="" type="checkbox"/> No UW in Soil or GW				
Foundations <input type="checkbox"/> None <input checked="" type="checkbox"/> Existing <input type="checkbox"/> Proposed	<input checked="" type="checkbox"/> Slab on Grade <input type="checkbox"/> Crawl Space <input type="checkbox"/> Subterranean Features						
Bioattenuation Zone	Highest Historic Water Level (ft bgs): ≥ 24.53	<input type="checkbox"/> ≥30	<input checked="" type="checkbox"/> ≥5	<input checked="" type="checkbox"/> ≥10	<input checked="" type="checkbox"/> ≥5	<input type="checkbox"/> <5 or <input checked="" type="checkbox"/> ≥ 5	<input checked="" type="checkbox"/> ≥ 5
	TPH(g+d) Concentration (mg/kg): 58 (EB-3)	<input checked="" type="checkbox"/> <100	<input checked="" type="checkbox"/> <100	<input checked="" type="checkbox"/> <100	<input checked="" type="checkbox"/> <100	<input type="checkbox"/> ≥100 or <input checked="" type="checkbox"/> <100	<input type="checkbox"/> <100 (at 2 depths)
	Thickness (ft): <input type="checkbox"/> <5; <input checked="" type="checkbox"/> ≥5; <input type="checkbox"/> ≥10; <input type="checkbox"/> ≥30	<input type="checkbox"/> ≥30	<input checked="" type="checkbox"/> ≥5	<input type="checkbox"/> ≥10	<input checked="" type="checkbox"/> ≥5	<input type="checkbox"/> <5 or <input checked="" type="checkbox"/> ≥ 5	<input checked="" type="checkbox"/> ≥ 5
	Oxygen Conc (%): <input type="checkbox"/> <4; <input type="checkbox"/> ≥4; <input checked="" type="checkbox"/> No data				<input type="checkbox"/> ≥4	<input type="checkbox"/> < 4 or <input type="checkbox"/> ≥4	<input type="checkbox"/> ≥4 (at bottom)
Soil Vapor (Current Conditions)	Sample Depth (ft bgs) <input type="checkbox"/> Subslab = Not Applicable <input type="checkbox"/> Soil Gas =					<input type="checkbox"/> <5 or <input type="checkbox"/> ≥5	<input type="checkbox"/> ≥5
	Benzene Concentration (µg/m³):					<input type="checkbox"/> R< 85 <input type="checkbox"/> C<280	<input type="checkbox"/> C<85,000 <input type="checkbox"/> C<280,000
	Ethylbenzene Concentration (µg/m³):					<input type="checkbox"/> R<1,100 <input type="checkbox"/> C<3,600	<input type="checkbox"/> R<1,100,000 <input type="checkbox"/> C<3,600,000
	Naphthalene Concentration (µg/m³):					<input type="checkbox"/> R<93 <input type="checkbox"/> C<310	<input type="checkbox"/> R<93,000 <input type="checkbox"/> C<310,000
	<input checked="" type="checkbox"/> No Samples Collected						

GW = Groundwater WT = Water Table SC = Semi-Confined C = Confined W= Weathered UW = Unweathered

ATTACHMENT A-4

LTCP Media Specific Evaluation – Vapor Intrusion	
Location	Analysis
Onsite	At the time of case closure the site was an active commercial service station and thus qualifies for the LTCP criteria exemption for onsite vapor intrusion risk.
Offsite	Vapor intrusion risk to offsite properties was evaluated based on known conditions at the time of site closure. There are no detectable concentrations of petroleum-related volatile organic compounds in groundwater reported at the site that would pose a vapor intrusion risk. Based on this evaluation the site meets the criteria Scenario 3a criteria for low concentration source scenarios.

ATTACHMENT A-5

LTCP Media Specific Evaluation for Direct Contact & Outdoor Air Exposure

ATTACHMENT A-5

LTCP Media Specific Evaluation – Direct Contact & Outdoor Air

Closure Scenario

- Exemption (no petroleum hydrocarbons in upper 10 feet);
- Maximum concentrations of petroleum hydrocarbons are less than or equal to those in Table 1 below;
- Maximum concentrations of petroleum constituents are less than levels that a site specific risk assessment demonstrates will have no significant risk of adversely affecting human health;
- Concentrations of petroleum in soil will have no significant risk of adversely affecting human health as a result of controlling exposure through the use of mitigation measures or through the use of institutional or engineering controls;
- This case should be closed in spite of not meeting the direct contact and outdoor air specific media criteria

Evaluation Criteria

Key: Shading = site specific data; = type of data or criteria met; hatched box indicates no criteria

Constituent (LTCP Criteria & Site Maximum)		Residential		Commercial/Industrial		All Scenarios
		Direct Contact	Volatilization to Outdoor Air	Direct Contact	Volatilization to Outdoor Air	Construction or Utility Worker
		0 to 5 ft bgs (mg/kg)	5 to 10 ft bgs (mg/kg)	0 to 5 ft bgs (mg/kg)	5 to 10 ft bgs (mg/kg)	0 to 10 ft bgs (mg/kg)
Analysis Required For All Tanks						
Benzene	Current Site Max	4.5	0.12	4.5	< 0.12	4.5
	LTCP Criteria	<input type="checkbox"/> ≤1.9	<input checked="" type="checkbox"/> ≤2.8	<input checked="" type="checkbox"/> ≤8.2	<input checked="" type="checkbox"/> ≤12	<input checked="" type="checkbox"/> ≤14
Ethylbenzene	Current Site Max	21	0.12	21	0.12	21
	LTCP Criteria	<input checked="" type="checkbox"/> ≤21	<input checked="" type="checkbox"/> ≤32	<input checked="" type="checkbox"/> ≤89	<input checked="" type="checkbox"/> ≤134	<input checked="" type="checkbox"/> ≤314
Naphthalene	Current Site Max	NA	NA	NA	NA	NA
	LTCP Criteria	<input type="checkbox"/> ≤9.7	<input type="checkbox"/> ≤9.7	<input type="checkbox"/> ≤45	<input type="checkbox"/> ≤45	<input type="checkbox"/> ≤219
Analysis Required For Tanks with Waste Oil, Bunker C Fuel or Unknown Contents						
PAHs¹	Current Site Max	NA	NA	NA	NA	NA
	LTCP Criteria	<input type="checkbox"/> ≤0.063		<input type="checkbox"/> ≤0.68		<input type="checkbox"/> ≤4.5

NR = Not Required NA = Not Analyzed

Notes:

1. Based on the seven carcinogenic poly-aromatic hydrocarbons (PAHs) as benzo(a)pyrene toxicity equivalent (BaPe).
2. The area of impacted soil where a particular exposure occurs is ≤ 82 by 82 feet

ATTACHMENT A-5

LTCP Media Specific Evaluation – Direct Contact & Outdoor Air	
Location	Analysis
Onsite	<p>The site does not meet the Media Specific Criteria for Direct Contact and Outdoor Air Exposure for commercial use due to the lack of analysis of naphthalene and PAHs. However, the majority of the shallow soil impacts in the 0 to 10 foot interval from the UST system and dispenser/piping releases at the site were excavated during removal of the fuel UST system (UST, dispenser and product piping) and waste oil UST in 1989 and the additional remedial soil excavation conducted in 1991 in the vicinity of the fuel dispensers. Analytical results for 33 samples collected within the 0 to 10 foot interval after remedial excavation was conducted document non-detectable or low concentrations of petroleum hydrocarbons in soil with the exception of the area in the vicinity of boring B-7 where TPHg, ethylbenzene and xylenes were detected in soil at 6 feet bgs at concentrations of 220 mg/kg, 0.46 mg/kg, and 0.51 mg/kg in 2006. Therefore, naphthalene and PAHs are not likely to exceed the LTCP media-specific criteria in shallow soil across the majority of the site. Additionally, at the time of case closure evaluation the site was an active fueling station, and therefore any repair or maintenance activity of existing site improvements in areas of residual contamination requires planning and implementation of appropriate health and safety procedures prior to and during excavation activities.</p>
Offsite	<p>Due to the nature of the release, offsite contamination is only associated with the dissolved phase petroleum hydrocarbons in groundwater. As groundwater levels have not been reported above 24 feet bgs, offsite direct contact exposure is not considered a complete pathway for commercial/industrial or utility worker exposure.</p>

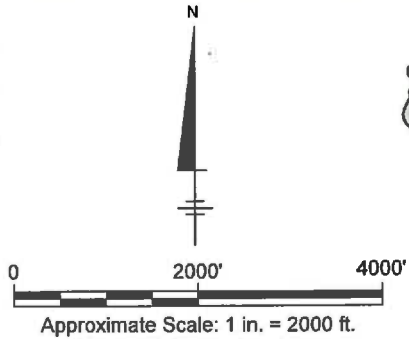
ATTACHMENT B-1


Site Vicinity & Site Maps with Sampling Locations

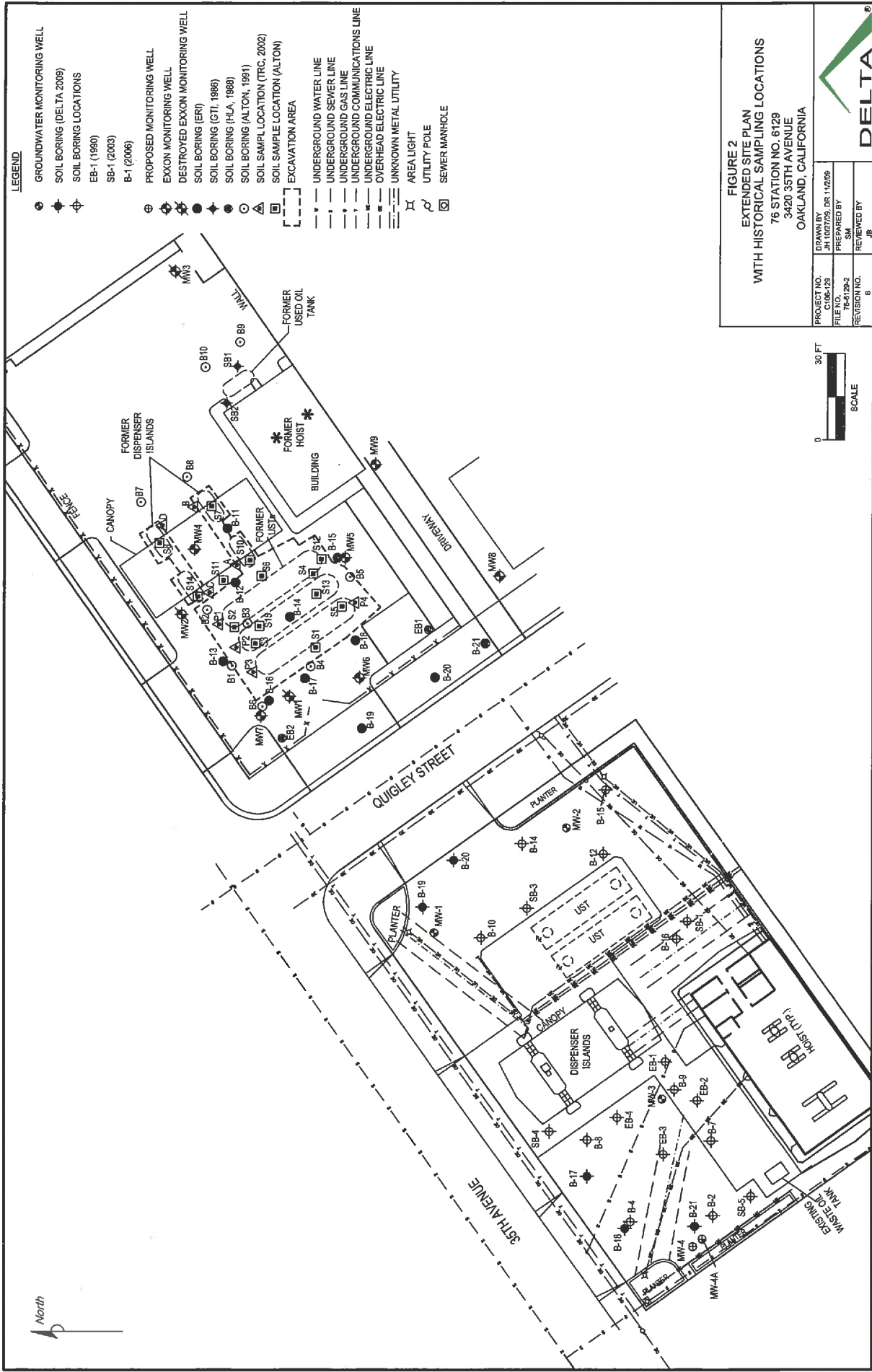
CITY: CONCORD, CA DIV/GRUP: ENV/CAD DR: A REYES
 G:\ENV\CAD\CONCORD\ACT\102351351\849000CSMD\G\102351351\1645 Site Loc.dwg LAYOUT: 1 SAVED: 10/17/2017 11:59 AM ACADVER: 20.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 10/17/2017 12:03 PM BY: REYES, ALEC
 XREFS: IMAGES: PROJECTNAME: X-USGS TOPO CA_Oakland_East_2015.jpg



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., OAKLAND, CALIFORNIA, 2015



UNOCAL No. 6129 (351639) 3420 35TH AVENUE OAKLAND, CALIFORNIA CONCEPTUAL SITE MODEL UPDATE 2017	
SITE LOCATION MAP	
 ARCADIS	Design & Consultancy for natural and built assets
FIGURE 1	



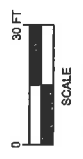
LEGEND

- ⊕ GROUNDWATER MONITORING WELL
- ⊕ SOIL BORING (DELTA, 2009)
- ⊕ SOIL BORING LOCATIONS
- ⊕ EB-1 (1990)
- ⊕ SB-1 (2003)
- ⊕ B-1 (2006)
- ⊕ PROPOSED MONITORING WELL
- ⊕ EXXON MONITORING WELL
- ⊕ DESTROYED EXXON MONITORING WELL
- ⊕ SOIL BORING (GTI, 1986)
- ⊕ SOIL BORING (H.A., 1988)
- ⊕ SOIL BORING (ALTON, 1981)
- ⊕ SOIL SAMPLE LOCATION (TRC, 2002)
- ⊕ SOIL SAMPLE LOCATION (ALTON)
- ⊕ EXCAVATION AREA
- UNDERGROUND WATER LINE
- UNDERGROUND SEWER LINE
- UNDERGROUND GAS LINE
- UNDERGROUND COMMUNICATIONS LINE
- UNDERGROUND ELECTRIC LINE
- OVERHEAD ELECTRIC LINE
- UNKNOWN METAL UTILITY
- ⊕ AREA LIGHT
- ⊕ UTILITY POLE
- ⊕ SEWER MANHOLE

FIGURE 2
EXTENDED SITE PLAN
WITH HISTORICAL SAMPLING LOCATIONS

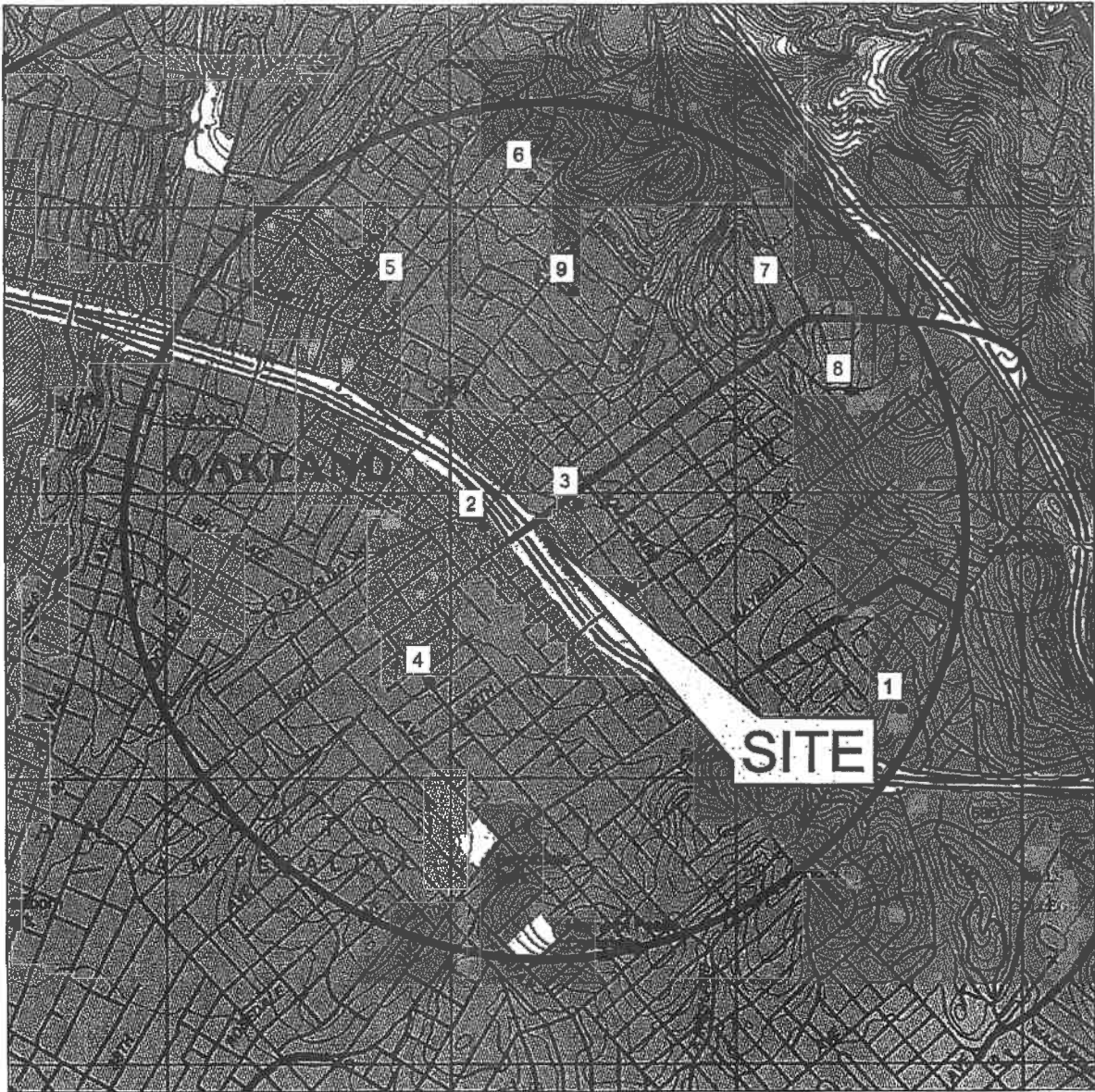
76 STATION NO. 6129
 3420 35TH AVENUE
 OAKLAND, CALIFORNIA

PROJECT NO.	DRWING BY
FILE NO. 75-6129-2	DATE: 08/11/2009
REVISION NO. 6	PREPARED BY SM
	REVIEWED BY JR



ATTACHMENT B-2

Preferential Pathways & Sensitive Receptor Survey Data



0 1000 FT 2000 FT
SCALE: 1 : 24,000



FIGURE 2
WATER SUPPLY WELL LOCATION MAP

76 STATION NO. 6129
3420 35th AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. C106-129	DRAWN BY JH 03/05/09
FILE NO. Site Locator 6129	PREPARED BY EW
REVISION NO. 3	REVIEWED BY DD



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, OAKLAND EAST QUADRANGLE, 1987

Table 1

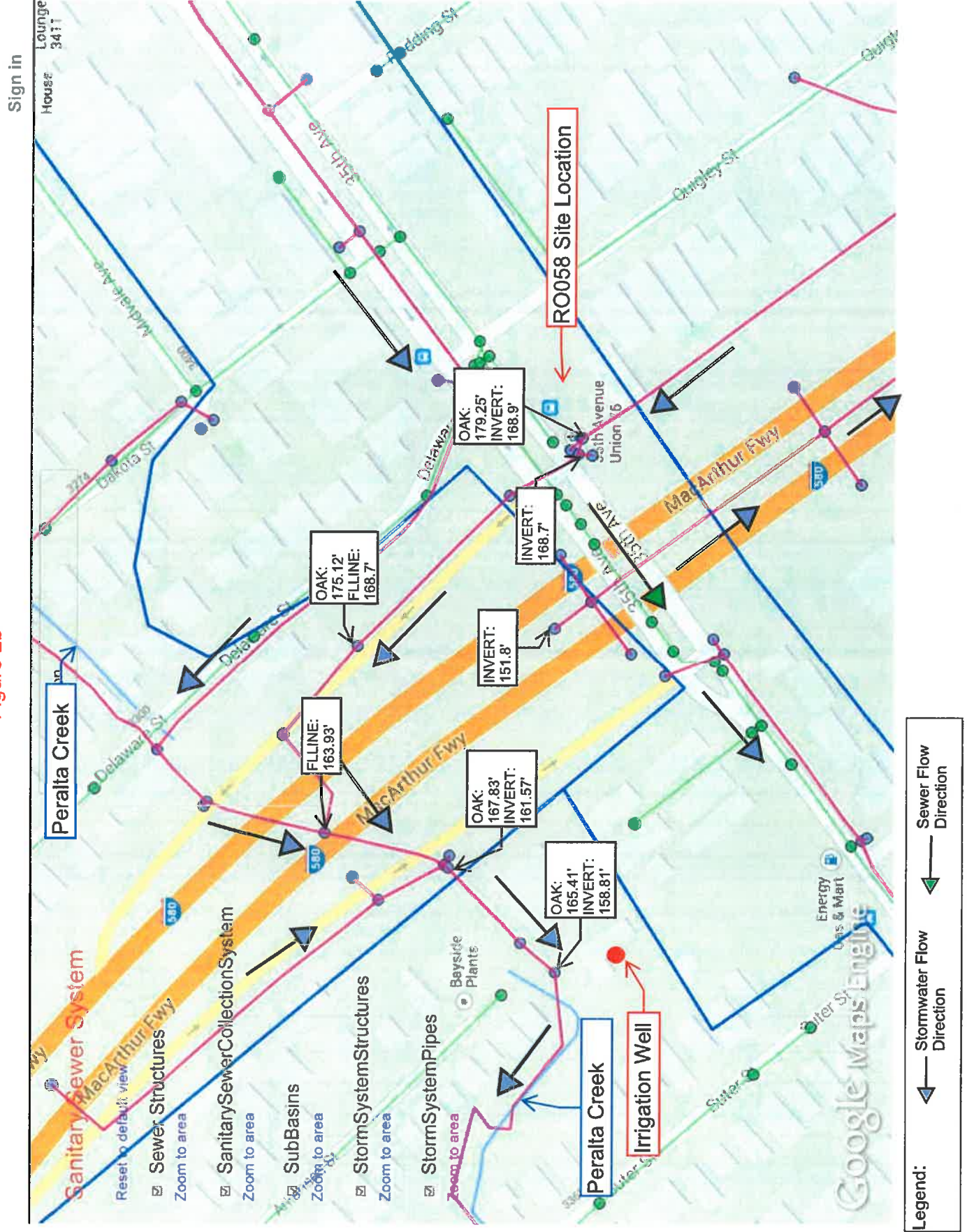
One-Mile Agency Receptor Survey
 ConocoPhillips Station No. 6129
 3420 35th Avenue, Oakland, CA

DWR ¹ Well No.	Address	City	State	Zip	Owner	Well Type	Distance from Site (miles)	Direction Relative to Site
1 2S 3W-3E1	Steele St. East of Enos Ave.	Oakland	CA	94619	PG&E	Cathodic Protection	0.9	SE
2 2S/3W 4D3	3397 Arkansas St.	Oakland	CA	94619	Arthur Smith	Irrigation	0.1	W
3 2S/3W 4C	Redding St. 35' East of 35th	Oakland	CA	94619	PG&E	Cathodic Protection	0.1	E
4 2S 3W 4E1	Allendale and Viola	Oakland	CA	94619	PG&E	Cathodic Protection	0.4	SW
5 2S/3W 5N1	Scenic Ave West of Laguna Ave	Oakland	CA	94619	PG&E	Cathodic Protection	0.7	NW
6 1S/3W-33E2	4010 Coolidge Ave	Oakland	CA	94619	Herman Volz	Irrigation	0.8	N
7 1S 3W 33G1	4324 Norton Ave	Oakland	CA	94619	Zeber Zel	Domestic/Irrigation	0.8	NE
8 1S3W 33R1	Monterey Blvd, west of Dunsmuir	Oakland	CA	94619	PG&E	Cathodic Protection	0.7	E
9 1S/3W 33L1	3062 Arizona St	Oakland	CA	94619	Steven Olson	Irrigation	0.5	N

DWR: Department of Water Resources

¹ Well Locations shown on Figure 2.

Figure 2b



ATTACHMENT B-3

Boring Logs

BORING LOG

Project No. KEI-P89-0902		Boring & Casing Diameter 9" 2"		Logged By D.L. <i>Dr R Brown</i>	
Project Name Unocal Oakland - 35th Ave.		Well Head Elevation N/A		Date Drilled 3-14-90	
Boring No. EB1		Drilling Method Hollow-stem Auger		Drilling Company EGI	
Penetration blows/6"	G. W. level	Depth (ft) Samples	Strati- graphy USCS	Description	
		0		Concrete Pavement Clay, sand and gravel: imported fill and disturbed native material, gravel to 4" diameter, dark yellowish brown, dark olive gray below 2 feet.	
8/14/10		5	CL/ CH	Clay, with sand, trace silt, stiff, moist, olive brown.	
		10	GC	Clayey gravel with sand, gravel to >2" diameter, very dense, moist, dark yellowish brown.	
8/27/28		15			
		20			
				TOTAL DEPTH DRILLED: 9' TOTAL DEPTH SAMPLED: 10.5'	

B O R I N G L O G

Project No. KEI-P89-0902		Boring & Casing Diameter 9" 2"		Logged By D.L. <i>Carl Brown</i>
Project Name Unocal Oakland - 35th Ave.		Well Head Elevation N/A		Date Drilled 3-14-90
Boring No. EB2		Drilling Method	Hollow-stem Auger	Drilling Company EGI
Penetration blows/6"	G. W. level	Depth (ft) Samples	Stratigraphy USCS	Description
		0		Concrete Pavement Sand: fill.
14/12/7		5		Clay, sand and gravel: imported fill and disturbed native material, olive brown and olive gray. Very poor recovery Fill: clay, sand and gravel, olive, wet (perched water?).
7/20/26			GC	Clayey gravel with sand, gravel to 1" diameter, dense, moist, dark yellowish brown.
16/19/25		10		
		15		
		20		
				TOTAL DEPTH DRILLED: 9.5' TOTAL DEPTH SAMPLED: 11'

B O R I N G L O G

Project No. KEI-P89-0902	Boring & Casing Diameter 9" 2"	Logged By D.L. <i>Don R. Braun</i>
Project Name Unocal Oakland - 35th Ave.	Well Head Elevation N/A	Date Drilled 3-14-90
Boring No. EB3	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (ft) Samples	Strati- graphy USCS	Description
		0		A. C. Pavement
7/10/19		5		Clay, sand, and gravel: imported fill and disturbed native material, dark yellowish brown grading to olive brown. Poor sample recovery at 5 feet. Perched water, discoloration. Approximate base of fill.
		10	GC	Clayey gravel with sand, gravel to 1" diameter, very dense, moist, dark yellowish brown.
17/26/23		15		
		20		
				TOTAL DEPTH DRILLED: 9' TOTAL DEPTH SAMPLED: 10.5'




B O R I N G L O G


Project No. KEI-P89-0902		Boring & Casing Diameter 9" 2"		Logged By D.L. <i>[Signature]</i>
Project Name Unocal Oakland - 35th Ave.		Well Head Elevation N/A		Date Drilled 3-14-90
Boring No. EB4		Drilling Method	Hollow-stem Auger	Drilling Company EGI
Penetration blows/6"	G. W. level	Depth (ft) Samples	Stratigraphy USCS	Description
		0		A. C. Pavement
				Clay, sand and gravel: fill and disturbed native material, dark yellowish brown.
9/14/22		5	GC	Clayey gravel with sand, gravel to >2" diameter, very dense, moist, dark yellowish brown.
12/28/30		10		
		15		
		20		
				TOTAL DEPTH DRILLED: 9' TOTAL DEPTH SAMPLED: 10.5'

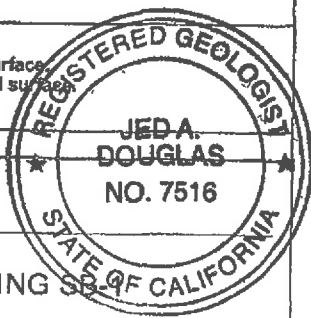
PROJECT NAME CONOCO PHILLIPS #5129		SITE LOCATION: 3420 35TH AVENUE, OAKLAND, CALIFORNIA		
DRILLING COMPANY: CASCADE	DRILL RIG: CME-74	DRILL CREW: KIKI, JASON, JUSTIN	DATE DRILLED: NOVEMBER 12, 2003	
DRILLING METHOD: HOLLOW-STEM AUGER		BORING DIAMETER (IN): 8	TOTAL DEPTH OF BORING (FT): 38.5	LOGGED BY: J. SMITH
SAMPLING METHOD: SPLIT-SPOON	HAMMER WEIGHT (LBS): 140	HAMMER DROP (IN): 30	REVIEWED BY: S. DEFIBAUGH, R.G. 5626	

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							Asphalt surface; hand-augered to 5 feet below ground surface. FILL: cobble.
5			7/8/8	0.0		CL	LEAN CLAY: dark yellowish brown (10YR 4/6); low plasticity; high dry strength; no dilatancy; high toughness; few coarse-grained sand; few fine gravel; moist; firm.
10			7/7/8	0.0			LEAN CLAY with GRAVEL: little fine gravel.
15			3/8/8	0.0		ML	SILT with SAND: strong brown (7.5YR 4/6); no plasticity; high dry strength; no dilatancy; medium toughness; little fine gravel; moist; firm.
20			8/8/9	0.0		SM	SILTY SAND: strong brown (7.5YR 4/6); few fine gravel; moist; medium dense.
25			7/8/9	0.0		GM	SILTY GRAVEL with SAND: strong brown (7.5YR 4/6); fine gravel, subrounded; little silt; moist; medium dense.
30			7/8/9	0.0		CL	LEAN CLAY: strong brown (7.5YR 4/6); medium plasticity; high dry strength; no dilatancy; high toughness; few coarse-grained sand; moist; firm.
35		SB-1-31	10/11/11	0.0			Some fine-grained sand; few fine gravel; wet.
40							Boring terminated at 38.5 feet below ground surface. Groundwater observed at 35 feet below ground surface.

LOG OF BORING BY: BOREBL.GPJ MBE.GDT 11/25/03

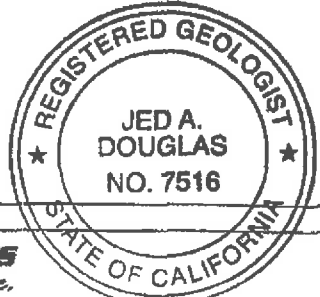
NOTES:
 = sample interval
 = laboratory sample
 = groundwater observed
 PID = photoionization detector
 NM = not measured
 NA = not applicable
 ppm = parts per million


 JED A. DOUGLAS, R.G. 7516



PROJECT NAME: CONOCO PHILLIPS #6129		SITE LOCATION: 3420 35TH AVENUE, OAKLAND, CALIFORNIA			
DRILLING COMPANY: CASCADE	DRILL RIG: CME-75	DRILL CREW: KIKI, JASON, JUSTIN		DATE DRILLED: NOVEMBER 12, 2003	
DRILLING METHOD: HOLLOW-STEM AUGER		BORING DIAMETER (IN): 8	TOTAL DEPTH OF BORING (FT): 31.5	LOGGED BY: J. SMITH	
SAMPLING METHOD: SPLIT-SPOON		HAMMER WEIGHT (LBS): 140	HAMMER DROP (IN): 30	REVIEWED BY: S. DEFIBAUGH, R.G. 5626	

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							Asphalt surface; hand-augered to 5 feet below ground surface. FILL: cobble.
5			8/8/9	0.0		CL	GRAVELLY LEAN CLAY: dark yellowish brown (10YR 4/4); medium plasticity; high dry strength; no dilatancy; medium toughness; few medium-grained sand; moist; firm.
10			7/8/8	0.0			High toughness.
15			6/7/8	0.0		SC	CLAYEY SAND with GRAVEL: yellowish brown (10YR 5/8); little fine gravel; moist; medium dense.
20			7/8/8	0.0			Brown (7.5YR 4/4); few fine gravel.
25		SB-3-26	8/8/9	0.0			Some fine gravel, subrounded.
30			7/7/7	0.0			Moist to very moist.
35							Boring terminated at 31.5 feet below ground surface. Groundwater not observed.
40							



NOTES:
 ☐ = sample interval
 ■ = laboratory sample
 ▼ = groundwater observed
 PID = photolization detector
 NM = not measured
 NA = not applicable
 ppm = parts per million



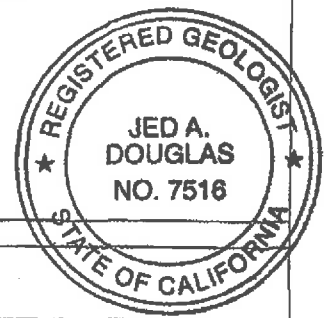
[Signature]
 JED A. DOUGLAS, R.G. 7516

LOG OF BORING SB-3
 PROJECT NUMBER 06-459-6129-01 PAGE 1 OF 1

LOG OF BORING LBY_BORELBY.GPJ_MBE.GDT_11/25/03

PROJECT NAME: GONOCO PHILLIPS #6129		SITE LOCATION: 3420 35TH AVENUE, OAKLAND, CALIFORNIA	
DRILLING COMPANY: CASCADE	DRILL RIG: CME-75	DRILL CREW: KIKI, JASON, JUSTIN	DATE DRILLED: NOVEMBER 13, 2003
DRILLING METHOD: HOLLOW-STEM AUGER		BORING DIAMETER (IN): 8	TOTAL DEPTH OF BORING (FT): 31.0
SAMPLING METHOD: SPLIT-SPOON		HAMMER WEIGHT (LBS): 140	HAMMER DROP (IN): 30
		LOGGED BY: J. SMITH	
		REVIEWED BY: S. DEFIBAUGH, R.G. 5626	

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							Concrete surface; hand-augered to 5 feet below ground surface. FILL: cobble.
5			8/8/8	0.0		SC	CLAYEY SAND with GRAVEL: dark yellowish brown (10YR 4/4); little fine gravel, subrounded; moist; medium dense.
10			7/7/8	0.0		CL	SANDY LEAN CLAY: dark yellowish brown (10YR 4/4); low plasticity; high dry strength; no dilatancy; high toughness; few fine gravel; moist; firm.
15			7/8/9	0.0		GC	CLAYEY GRAVEL with SAND: yellowish brown (10YR 5/6); some gravel, subrounded; moist; medium dense.
20			8/8/8	0.0			Strong brown (7.5YR 4/6).
25						CL	
26		SB-4-26	7/9/9	0.0			GRAVELLY LEAN CLAY with SAND: strong brown (7.5YR 4/6); low plasticity; high dry strength; no dilatancy; high toughness; moist; firm.
30			9/9/9	0.0		SC	CLAYEY SAND with GRAVEL: strong brown (7.5YR 4/6); few fine gravel; moist to very moist; medium dense.
31							Boring terminated at 31 feet below ground surface. Groundwater not observed.



NOTES:
 □ = sample interval
 ■ = laboratory sample
 ▽ = groundwater observed
 PID = photorization detector
 NM = not measured
 NA = not applicable
 ppm = parts per million

Jed A. Douglas
 JED A. DOUGLAS, R.G. 7516

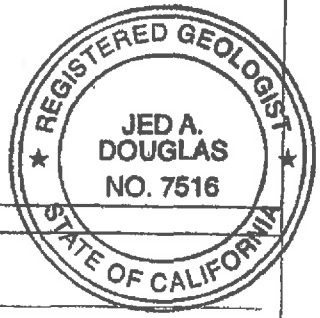


LOG OF BORING SB-4
 PROJECT NUMBER 06-459-6129-01
 PAGE 1 OF 1

LOG OF BORING LBY BORELBLE GPJ MBE GDT 11/25/03

PROJECT NAME: CONOCO PHILLIPS #6129		SITE LOCATION: 3420 35TH AVENUE, OAKLAND, CALIFORNIA			
DRILLING COMPANY: CASCADE	DRILL RIG: CME-75	DRILL CREW: KIKI, JASON, JUSTIN		DATE DRILLED: NOVEMBER 13, 2003	
DRILLING METHOD: HOLLOW-STEM AUGER		BORING DIAMETER (IN): 8	TOTAL DEPTH OF BORING (FT): 31.5	LOGGED BY: J. SMITH	
SAMPLING METHOD: SPLIT-SPOON		HAMMER WEIGHT (LBS): 140	HAMMER DROP (IN): 30	REVIEWED BY: S. DEFIBAUGH, R.G. 5626	

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							Asphalt surface; hand-augered to 5 feet below ground surface. FILL: cobble.
5		7/7/8	0.0			CL	GRAVELLY LEAN CLAY: dark yellowish brown (10YR 4/4); high plasticity; high dry strength; no dilatancy; medium toughness; moist; firm.
10		6/6/7	0.0				Medium plasticity; high toughness.
15		7/7/9	0.0			SC	CLAYEY SAND with GRAVEL: dark yellowish brown (10YR 4/6); few fine gravel; moist; medium dense.
20		9/11/11	0.0				
25		10/10/10	0.0			CL	GRAVELLY LEAN CLAY: dark yellowish brown (10YR 4/4); low plasticity; high dry strength; no dilatancy; high toughness; few fine- to coarse-grained sand; moist; firm.
30	SB-5-31	9/10/10	0.0				Boring terminated at 31 feet below ground surface. Groundwater not observed.
35							
40							



NOTES:
 = sample interval
 = groundwater observed
 = laboratory sample
 PID = photoionization detector
 NM = not measured
 NA = not applicable
 ppm = parts per million

[Signature]
 JED A. DOUGLAS, R.G. 7516



LOG OF BORING SB-5

PROJECT NUMBER 06-459-6129-01 PAGE 1 OF 1

LOG OF BORING BY BORELAB GPJ, MBE, GDT 11/25/03

Delta Consultants

Project No: **C106129051**

Client: **ConocoPhillips**

Boring/Well No: **B-2**

Logged By: **Ben Wright**

Location: **3420 35th Avenue**

Date Drilled: **11/7/06**

Driller: **Gregg Drilling & Testing**

Oakland, CA

Page 1 of 2

Drilling Method: **HSA/Rhino**

Hole Diameter: **6.25" O.D.**

Sampling Method: **Auto Hammer**

Hole Depth: **40'**

Casing Type: **Temporary 3/4" PVC**

Well Diameter: **NA**

Slot Size: **0.02"**

Well Depth: **NA**

Gravel Pack: **NA**

Static Groundwater Depth: **36.5'**

▼ = Static Groundwater

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
					1			Asphalt - 3" Road Base - 4"
				Air-Knife	2			GC Clayey gravel with sand reddish brown; well graded; angular; fine to coarse sand; gravel composed of metasediments; some cobbles and boulders (70,15,15)
					3			
					4			
					5			
		Moist /Wet	19.2		6			ML Silt greenish blackish brown; low plasticity; soft; moist to wet; odor (0,10,90)
					7			
					8			
					9			
		Moist	1.3		10			
					11			CL Clay with sand orangish brown; medium plasticity; very stiff; medium to coarse sand; moist; no odor (0,20,80)
					12			
					13			
					14			
		Moist	4.8		15			
					16			CL Same as above; less sand; medium soft (0,15,85)
					17			
					18			
					19			
		Moist	22.3		20			
					21			CL Clay brown; medium plasticity; very stiff; moist; odor (0,0,100)
					22			

Delta Consultants

Project No: **C106129051** Client: **ConocoPhillips**
 Logged By: **Ben Wright** Location: **3420 35th Avenue**
 Driller: **Gregg Drilling & Testing** **Oakland, CA**
 Drilling Method: **HSA/Rhino** Hole Diameter: **6.25" O.D.**
 Sampling Method: **Auto Hammer** Hole Depth: **40'**
 Casing Type: **Temporary 3/4" PVC** Well Diameter: **NA**
 Slot Size: **0.02"** Well Depth: **NA**
 Gravel Pack: **NA** Static Groundwater Depth: **36.5'**

Boring/Well No: **B-2**
 Date Drilled: **11/7/06**
 Page 2 of 2

▼ = Static Groundwater

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Neat Cement									
			Moist	888		23			
						24			
						25			
						26			ML Silt with sand orangish brown; low plasticity; medium stiff, medium to coarse sand; moist; strong odor (0,20,80)
						27			
						28			
						29			
			Moist	19.2		30			
						31			CL Clay orangish brown; medium plasticity; soft; moist; odor (0,0,100)
						32			
						33			
						34			
						35			
			Wet	5.6		36			CL Clay with sand orangish brown; medium plasticity; medium soft to soft; wet; no odor (0,15,85)
						37			
						38			
			Wet	3.5		39			CL Same as above
						40			
						41			Total Depth = 40 feet bgs
						42			
						43			
						44			

Delta Consultants

Project No: **C106129051**
 Logged By: **Ben Wright**
 Driller: **Gregg Drilling & Testing**
 Drilling Method: **HSA/Rhino**
 Sampling Method: **Auto Hammer**
 Casing Type: **Temporary 3/4" PVC**
 Slot Size: **0.02"**
 Gravel Pack: **NA**

Client: **ConocoPhillips**
 Location: **3420 35th Avenue**
Oakland, CA
 Hole Diameter: **5.5" O.D.**
 Hole Depth: **31.5'**
 Well Diameter: **NA**
 Well Depth: **NA**
 Static Groundwater Depth: **31'**

Boring/Well No: **B-7**
 Date Drilled: **11/8/06**
 Page 1 of 2

▼ = Static Groundwater

Well Completion		Elevation		Northing		Easting		LITHOLOGY / DESCRIPTION			
Backfill	Casing	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type				
Neat Cement	[Scale]	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	Concrete = 5"		
									1	GC Clayey gravel with sand reddish brown; well graded; fine to coarse sand; moist; no odor (70,15,15)	
									2		
									3		
									4		
									5		
									6	Wet 1.0	CL Clay greenish grayish brown; medium plasticity; medium soft; some sand and silt; wet; no odor (0,10,90)
									7		
									8		
									9		
									10	Moist 5.5	CL Clay orangish brown; medium plasticity; stiff; moist; no odor (0,0,100)
									11		
									12		
									13		
									14		
									15	Damp 19.7	CL Same as above; damp
									16		
									17		
									18		
									19		
									20	Damp 23.7	CL Same as above
									21		
22											

Delta Consultants

Project No: **C106129051**

Logged By: **Ben Wright**

Driller: **Gregg Drilling & Testing**

Drilling Method: **HSA/Rhino**

Sampling Method: **Auto Hammer**

Casing Type: **Temporary 3/4" PVC**

Slot Size: **0.02"**

Gravel Pack: **NA**

Client: **ConocoPhillips**

Location: **3420 35th Avenue**

Oakland, CA

Hole Diameter: **5.5" O.D.**

Hole Depth: **31.5'**

Well Diameter: **NA**

Well Depth: **NA**

Static Groundwater Depth: **31'**

Boring/Well No: **B-7**

Date Drilled: **11/8/06**

Page 2 of 2

▼ = Static Groundwater

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
Neat Cement		▼	Moist	13.1		23				
							24			
						25	■			
						26	■		CL	Clay with sand orangish brown; medium plasticity; medium soft; medium to coarse sand; moist, no odor (0,15,85)
						27				
						28				
						29				
			Sat	1.8		30	■			
						31	■		CL	Clay orangish brown, medium plasticity; medium soft; saturated; no odor (0,0,100)
						32				Total Depth = 31.5 feet bgs
						33				
						34				
						35				
						36				
						37				
						38				
						39				
						40				
						41				
						42				
						43				
						44				

Delta Consultants

Project No: **C106129051**

Logged By: **Ben Wright**

Driller: **Gregg Drilling & Testing**

Drilling Method: **HSA/Rhino**

Sampling Method: **Auto Hammer**

Casing Type: **Temporary 3/4" PVC**

Slot Size: **0.02"**

Gravel Pack: **NA**

Client: **Conocophillips**

Location: **3420 35th Avenue**

Oakland, CA

Hole Diameter: **5.5" O.D.**

Hole Depth: **40'**

Well Diameter: **NA**

Well Depth: **NA**

Static Groundwater Depth: **37'**

Boring/Well No: **B-8**

Date Drilled: **11/7/06**

Page 1 of 2

▽ = First Water

▼ = Static Groundwater

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
					1			Asphalt - 3"
					2			GC Clayey gravel with sand reddish brown; well graded; angular; fine to coarse sand; gravel composed of metasediments; some cobbles and boulders (70,15,15)
					3			
					4			
					5			
		Moist	1.8		6			CL Clay with sand orangish brown; medium plasticity; stiff; moist; no odor (0,15,85)
					7			
					8			
					9			
					10			
		Moist	0.5		11			CL Clay orangish brown; medium plasticity; very stiff; moist; no odor (0,0,100)
					12			
					13			
					14			
					15			
		Moist	0.7		16			CL Same as above; some sand (0,10,90)
					17			
					18			
					19			
					20			
		Moist	0.7		21			CL Same as above
					22			

Delta Consultants

Project No: **C106129051** Client: **Conocophillips**
 Logged By: **Ben Wright** Location: **3420 35th Avenue**
 Driller: **Gregg Drilling & Testing** **Oakland, CA**
 Drilling Method: **HSA/Rhino** Hole Diameter: **5.5" O.D.**
 Sampling Method: **Auto Hammer** Hole Depth: **40'**
 Casing Type: **Temporary 3/4" PVC** Well Diameter: **NA**
 Slot Size: **0.02"** Well Depth: **NA**
 Gravel Pack: **NA** Static Groundwater Depth: **37'**

Boring/Well No: **B-8**
 Date Drilled: **11/7/06**
 Page 2 of 2

▽ = First Water

▼ = Static Groundwater

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					
Neat Cement		Moist	0.9		23								
					24								
					25								
					26			CL Same as above; stiff					
					27								
					28								
					29								
					30								
					31			CL Same as above; some silt; medium soft (0,10,90)					
					32								
					33								
					34								
					35								
					36			ML Silt orangish yellowish brown; low plasticity; medium soft; to soft; saturated; no odor (0,0,100)					
					37								
					38								
					39			CL Clay orangish yellowish brown; medium plasticity; medium soft; some gravel; saturated; no odor (10,10,80)					
					40								
					Total Depth = 40 feet bgs								
										41			
										42			
										43			
										44			

Delta Consultants

Project No: **C106129051**

Logged By: **Ben Wright**

Driller: **Gregg Drilling & Testing**

Drilling Method: **HSA/Rhino**

Sampling Method: **Auto Hammer**

Casing Type: **Temporary 3/4" PVC**

Slot Size: **0.02"**

Gravel Pack: **NA**

Client: **Conocophillips**

Location: **3420 35th Avenue**

Oakland, CA

Hole Diameter: **5.5" O.D.**

Hole Depth: **21.5'**

Well Diameter: **NA**

Well Depth: **NA**

Static Groundwater Depth: **16'**

Boring/Well No: **B-9**

Date Drilled: **11/8/06**

Page 1 of 1

▼ = Static Groundwater

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Neat Cement									Concrete = 5"
			Moist		Air-Knife	1			
						2			
						3			CL Clay orangish brown, medium plasticity; medium stiff; some silt, moist; no odor (0,0,100)
						4			
			Wet	0.2		5			
						6			GC Clayey gravel grayish brown; poorly graded; one-inch gravel; subangular; some sand, silt, and clay; possible fill material; wet; no odor (70,10,20)
						7			
						8			
						9			
			Sat	0.4		10			ML Silt with sand greenish grayish brown; low to medium plasticity; some clay; stiff to medium stiff; saturated; no odor (10,10,80)
						11			
						12			
						13			
						14			
		▼	Sat	0.4		15			
						16			CL Clay orangish brown, medium plasticity; stiff; saturated; no odor (0,0,100)
						17			
						18			
						19			
						20			
			Sat	0.2		21			CL Same as above; medium soft
						22			Total Depth = 21.5 feet bgs

Delta

Consultants

Project No: **C106129051**
 Logged By: **Ben Wright**
 Driller: **Gregg Drilling & Testing**
 Drilling Method: **HSA/Rhino**
 Sampling Method: **SSS**
 Casing Type: **NA**
 Slot Size: **NA**
 Gravel Pack: **NA**

Client: **ConocoPhillips**
 Location: **3420 35th Avenue**
Oakland, CA
 Hole Diameter: **5.25"**
 Hole Depth: **36.5'**
 Well Diameter: **NA**
 Well Depth: **NA**
 First Water Depth: **35.0'**

Boring/Well No: **B-10**
 Date Drilled: **12/27/06**
 Page 1 of 2

▽ = First Water

Well Completion		Static Water Level	Elevation			Northing		Easting		LITHOLOGY / DESCRIPTION			
Backfill	Casing		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Interval	Soil Type				
Neat Cement			Moist		Air-Knife	1				Asphalt - 3"			
						2				GC Clayey gravel with sand reddish brown; well graded; fine to coarse sand; moist; no odor (70,15,15)			
						3							
						4							
						5							
						6		0.4	B-10 @5.5' 9:45			CL Clay orangish brown; medium to low plasticity; soft; moist; no odor (10,0,90)	
						7							
						8							
						9							
						10							
						11		0.2	B-10 @10.5' 9:50			GC Clayey gravel yellowish brown; well graded; fine to coarse gravel; subangular; moist; no odor (60,10,30)	
						12							
						13							
						14							
						15							
						16		1.0	B-10 @15.5' 9:55			CL Clay with sand orangish brown; medium plasticity; some gravel; stiff; moist; no odor (10,20,70)	
						17							
						18							
						19							
						20							
						21		0.5	B-10 @20.5' 10:00			CL Same as above	
						22							

Delta Consultants

Project No: **C106129051** Client: **ConocoPhillips**
 Logged By: **Ben Wright** Location: **3420 35th Avenue**
 Driller: **Gregg Drilling & Testing** **Oakland, CA**
 Drilling Method: **HSA/Rhino** Hole Diameter: **5.25"**
 Sampling Method: **SSS** Hole Depth: **36.5'**
 Casing Type: **NA** Well Diameter: **NA**
 Slot Size: **NA** Well Depth: **NA**
 Gravel Pack: **NA** First Water Depth: **35.0'**

Boring/Well No: **B-10**
 Date Drilled: **12/27/06**
 Page 2 of 2

▽ = First Water

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Neat Cement									
			Moist	1.3	B-10 @25.5' 10:05	23			
						24			
						25			
						26			CL Sandy Clay orangish brown; medium plasticity; fine to coarse sand; moist; no odor (10,25,65)
						27			
						28			
						29			
			Moist	3.2	B-10 @30.5' 10:10	30			
						31			CL Clay orangish brown; medium plasticity; medium soft; moist; no odor (0,10,90)
						32			
						33			
						34			
		▽	Sat	4.1	B-10 @35.5' 10:15	35			
						36			CL Sandy clay orangish brown; medium plasticity; medium soft; saturated; no odor (0,30,70)

						37			Total Depth = 36.5 feet bgs
						38			
						39			
						40			
						41			
						42			
						43			
						44			

Delta Consultants

Project No: **C106129051**
 Logged By: **Ben Wright**
 Driller: **Gregg Drilling & Testing**
 Drilling Method: **HSA/Rhino**
 Sampling Method: **SSS**
 Casing Type: **NA**
 Slot Size: **NA**
 Gravel Pack: **NA**

Client: **ConocoPhillips**
 Location: **3420 35th Avenue**
Oakland, CA
 Hole Diameter: **5.25"**
 Hole Depth: **36.5'**
 Well Diameter: **NA**
 Well Depth: **NA**
 First Water Depth: **32.0'**

Boring/Well No: **B-12**
 Date Drilled: **12/27/06**
 Page 1 of 2

▽ = First Water

Well Completion		Static Water Level	Elevation			Northing		Easting		LITHOLOGY / DESCRIPTION
Backfill	Casing		Moisture Content	P/D Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery Interval	Soil Type		
Neat Cement			Moist	2.4	Air-Knife	1			Asphalt - 3"	
						2			GC Clayey gravel with sand reddish brown; well graded; fine to coarse sand; angular to subrounded gravel; moist; no odor (70,15,15)	
						3				
						4				
						5				
						6			B-12 @5.5' 1:10	CL Clay orangish brown; medium plasticity; soft; moist; no odor (0,0,100)
						7				
						8				
						9				
						10			B-12 @10.5' 1:15	CL Clay reddish brown; medium plasticity; medium soft to stiff; moist; no odor (10,10,80)
						11				
						12				
						13				
						14				
						15			B-12 @15.5' 1:25	CL Sandy Clay orangish brown; medium plasticity; fine to coarse sand; moist; no odor (0,20,80)
						16				
						17				
						18				
						19				
						20			B-12 @20.5' 1:28	CL Same as above
						21				
						22				

Delta Consultants

Project No: **C106129051** Client: **ConocoPhillips**
 Logged By: **Ben Wright** Location: **3420 35th Avenue**
 Driller: **Gregg Drilling & Testing** **Oakland, CA**
 Drilling Method: **HSA/Rhino** Hole Diameter: **5.25"**
 Sampling Method: **SSS** Hole Depth: **36.5'**
 Casing Type: **NA** Well Diameter: **NA**
 Slot Size: **NA** Well Depth: **NA**
 Gravel Pack: **NA** First Water Depth: **32.0'**

Boring/Well No: **B-12**
 Date Drilled: **12/27/06**
 Page 2 of 2

▽ = First Water

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Neat Cement									
		▽	Moist	1.3	B-12 @25.5' 1:30	23			
						24			
						25			
						26			CL Same as above
						27			
						28			
						29			
			Moist	1.2	B-12 @30.5' 1:35	30			
						31			CL Same as above
						32			
						33			
						34			
			Sat	0.9	B-12 @35.5' 1:40	35			
						36			CL Same as above; saturated
						37			Total Depth = 36.5 feet bgs
						38			
						39			
						40			
						41			
						42			
						43			
						44			

Delta Consultants

Project No: **C106129051**

Logged By: **Ben Wright**

Driller: **Gregg Drilling & Testing**

Drilling Method: **HSA/Rhino**

Sampling Method: **Auto Hammer**

Casing Type: **Temporary 3/4" PVC**

Slot Size: **0.02"**

Gravel Pack: **NA**

Client: **Conocophillips**

Location: **3420 35th Avenue**

Oakland, CA

Hole Diameter: **5.5" O.D.**

Hole Depth: **31.5'**

Well Diameter: **NA**

Well Depth: **NA**

Static Groundwater Depth: **29'**

Boring/Well No: **B-14**

Date Drilled: **11/8/06**

Page 1 of 2

▼ = Static Groundwater

Well Completion		Static Water Level	Elevation			Northing		Easting		LITHOLOGY / DESCRIPTION
Backfill	Casing		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery Interval	Soil Type		
Neat Cement									Asphalt - 3"	
					1				GC Clayey gravel with sand reddish brown; well graded; angular; fine to coarse sand; gravel composed of metasediments; some cobbles and boulders (70,15,15)	
					2					
					3					
					4					
		Moist	0.0	Air-Knife	5				CL Clay orangish brown; medium to low plasticity; soft; moist; no odor (0,0,100)	
					6					
					7					
					8					
		Moist	0.0		9				GC Clayey gravel yellowish orangish brown; well graded; fine to coarse gravel; subangular; moist; no odor (60,10,30)	
					10					
					11					
					12					
		Moist	0.0		13				CL Clay with sand orangish brown; medium plasticity; some gravel; stiff; moist; no odor (10,10,80)	
					14					
					15					
					16					
		Moist	0.0		17				CL Same as above	
					18					
					19					
					20					
					21					
					22					

Delta Consultants

Project No: **C106129051** Client: **Conocophillips**
 Logged By: **Ben Wright** Location: **3420 35th Avenue**
 Driller: **Gregg Drilling & Testing** **Oakland, CA**
 Drilling Method: **HSA/Rhino** Hole Diameter: **5.5" O.D.**
 Sampling Method: **Auto Hammer** Hole Depth: **31.5'**
 Casing Type: **Temporary 3/4" PVC** Well Diameter: **NA**
 Slot Size: **0.02"** Well Depth: **NA**
 Gravel Pack: **NA** Static Groundwater Depth: **29'**

Boring/Well No: **B-14**
 Date Drilled: **11/8/06**
 Page 2 of 2

▼ = Static Groundwater

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Neat Cement						23			
			Moist	0.1		24			
						25			
						26			CL Sandy clay orangish brown; medium plasticity; some gravel; stiff; moist; no odor (10,25,65)
						27			
						28			
		▼				29			
			Sat	0.0		30			
						31			CL Same as above
Total Depth = 31.5 feet bgs									
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			
						41			
						42			
						43			
						44			

Delta Consultants

Project No: **C106129051** Client: **ConocoPhillips**
 Logged By: **Ben Wright** Location: **3420 35th Avenue**
 Driller: **Gregg Drilling & Testing** **Oakland, CA**
 Drilling Method: **HSA/Rhino** Hole Diameter: **5.25"**
 Sampling Method: **SSS** Hole Depth: **36.5'**
 Casing Type: **NA** Well Diameter: **NA**
 Slot Size: **NA** Well Depth: **NA**
 Gravel Pack: **NA** First Water Depth: **32.0'**

Boring/Well No: **B-15**
 Date Drilled: **12/27/06**
 Page 1 of 2

▽ = First Water

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	
Neat Cement		Moist		Air-Knife	1			Asphalt - 3"	
					2			CL Clayey gravel with sand reddish brown; well graded; fine to coarse sand; angular to subrounded gravel; moist; no odor (70,15,15)	
					3				
					4				
					5				
					6			B-15 @5.5' 2:35	CL Clay orangish brown; medium plasticity; stiff; moist; no odor (0,0,100)
					7				
					8				
					9				
					10				
					11			B-15 @10.5' 2:40	CL Clay reddish brown; medium plasticity; medium stiff; moist; no odor (10,10,80)
					12				
					13				
					14				
					15				
					16			B-15 @15.5' 2:45	CL Sandy clay orangish brown; medium plasticity; fine to coares sand; moist; no odor (0,20,80)
					17				
					18				
					19				
					20				
					21			B-15 @20.5' 2:50	CL Same as above
					22				

Delta Consultants

Project No: **C106129051**

Client: **ConocoPhillips**

Boring/Well No: **B-16**

Logged By: **Ben Wright**

Location: **3420 35th Avenue**

Date Drilled: **12/27/06**

Driller: **Gregg Drilling & Testing**

Oakland, CA

Page 1 of 2

Drilling Method: **HSA/Rhino**

Hole Diameter: **5.25"**

Sampling Method: **SSS**

Hole Depth: **36.5'**

Casing Type: **NA**

Well Diameter: **NA**

Slot Size: **NA**

Well Depth: **NA**

Gravel Pack: **NA**

First Water Depth: **30.0'**

▽ = First Water

Elevation

Northing

Easting

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/5")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
Neat Cement			Moist		Air-Knife	1			Asphalt - 3"
			Moist			2		GC Clayey gravel with sand reddish brown; well graded; fine to coarse sand; moist; no odor (70,15,15)	
			Moist	0.0	B-16 @5.5' 11:05	5		CL Clay orangish brown; medium plasticity; medium soft; moist; no odor (10,10,80)	
			Moist	0.6	B-16 @10.5' 11:10	10		CL Clay brown; medium plasticity; moist; no odor (0,0,100)	
			Moist	1.0	B-16 @15.5' 11:15	15		CL Clay with gravel orangish brown; medium plasticity; moist; no odor (20,10,70)	
			Moist	1.4	B-16 @20.5' 11:20	20		CL Sandy clay orangish brown; medium plasticity; fine to coarse sand; moist; no odor (0,30,70)	

Delta Consultants

Project No: **C106129051**

Logged By: **Ben Wright**

Driller: **Gregg Drilling & Testing**

Drilling Method: **HSA/Rhino**

Sampling Method: **SSS**

Casing Type: **NA**

Slot Size: **NA**

Gravel Pack: **NA**

Client: **ConocoPhillips**

Location: **3420 35th Avenue**

Oakland, CA

Hole Diameter: **5.25"**

Hole Depth: **36.5'**

Well Diameter: **NA**

Well Depth: **NA**

First Water Depth: **30.0'**

Boring/Well No: **B-16**

Date Drilled: **12/27/06**

Page 2 of 2

▽ = First Water

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing									
Neat Cement										
			Moist	0.0	B-16 @25.5' 11:25	23				
						24				
						25				
						26				CL Same as above; reddish brown
						27				
						28				
						29				
		▽	Sat	0.4	B-16 @30.5' 11:30	30				CL Clay with sand medium plasticity; medium soft; saturated; no odor (0,15,85)
						31				
						32				
						33				
						34				
			Sat	0.4	B-16 @35.5' 11:35	35				CL Same as above
						36				
						37				Total Depth = 36.5 feet bgs
						38				
						39				
						40				
						41				
						42				
						43				
						44				


B O R I N G L O G

Project No. KEI-P89-0902	Boring & Casing Diameter 9" 2"	Logged By D.L. <i>D.L. Shaw</i> <i>CEG 1310</i>
Project Name Unocal Oakland - 35th Ave.	Well Head Elevation N/A	Date Drilled 12/12/89
Boring No. MW1	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (ft) Samples	Strati- graphy USCS	Description
		0		A.C. Pavement Clay, sand and gravel: fill; large chert boulder at 6", dark yellowish brown.
5/7/11		5	CH	Clay, high plasticity, with gravel, 5% sand, stiff, moist, dark yellowish brown.
11/15/30		10	GC/ CH	Clayey gravel, 5-10% sand, dense, moist, dark yellowish brown, lensed with gravelly clay and clay, high plasticity, very stiff, moist, dark yellowish brown, gravel to 3/4".
18/30/48		15	GC	Clayey gravel with sand, 15-35% clay, very dense, slightly moist to wet, dark yellowish brown, gravel to 1".
18/29		20		Color change at 20 feet to dark brown.

B O R I N G L O G

Project No. KEI-P89-0902	Boring & Casing Diameter 9" 2"	Logged By D.L.
Project Name Unocal Oakland - 35th Ave.	Well Head Elevation N/A	Date Drilled 12/12/89
Boring No. MW1	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (ft) Samples	Strati- graphy USCS	Description
			GC	Clayey gravel with sand, as above.
16/33		25	CH	Gravelly clay, high plasticity, 10 - 15% sand, gravel to 3/4", very stiff, moist, dark yellowish brown and dark brown, mottled.
19/40		30	GC	Clayey gravel with sand, 15-30% coarse sand, very dense, moist, dark brown, gravel to 1".
26/50- 5 1/2		35		Clayey gravel with sand, 15-20% clay, gravel to 1 1/2", very dense, moist to wet, dark brown.
12/22		40		Clayey gravel, as above, strong brown.

B O R I N G L O G

Project No. KEI-P89-0902		Boring & Casing Diameter 9" 2"		Logged By D.L.
Project Name Unocal Oakland - 35th Ave.		Well Head Elevation N/A		Date Drilled 12/12/89
Boring No. MW1		Drilling Method	Hollow-stem Auger	Drilling Company EGI
Penetration blows/6"	G. W. level	Depth (ft) Samples	Strati- graphy USCS	Description
			GC	Clayey gravel, as above.
		45		
		50		
		55		
		60		
				TOTAL DEPTH 44'

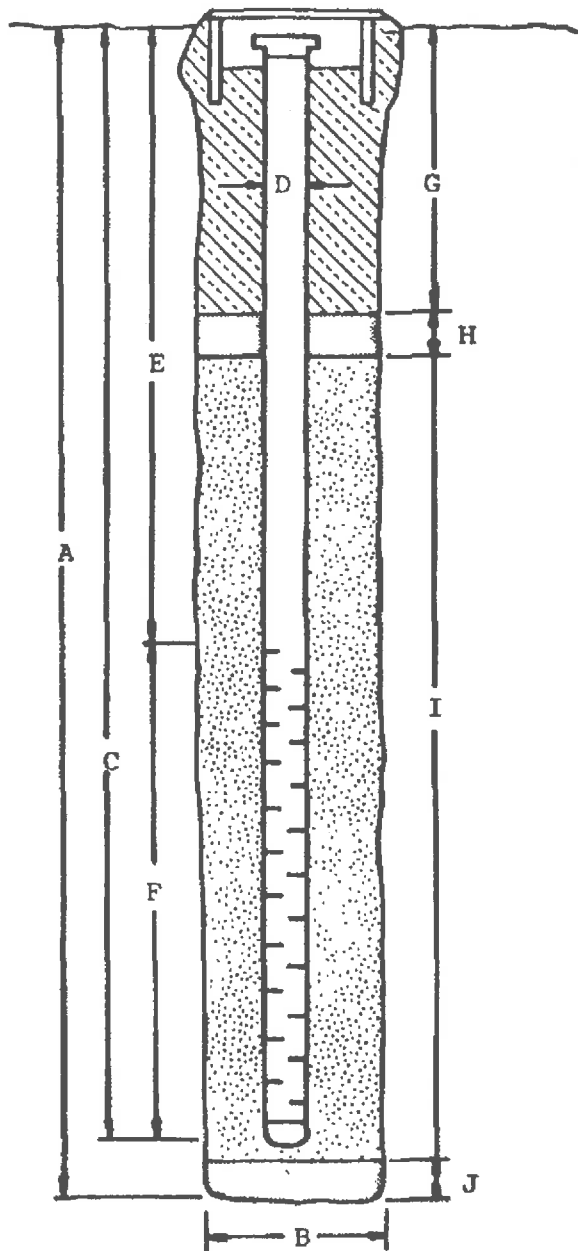
W E L L C O M P L E T I O N D I A G R A M

PROJECT NAME: Unocal - Oakland - 35th Avenue BORING/WELL NO. MW1

PROJECT NUMBER: KEI-P89-0902

WELL PERMIT NO.: 89689

Flush-mounted Well Cover



A. Total Depth: 44'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 44'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 24'

F. Perforated Length: 20'

Perforation Type: Machined Slot

Perforation Size: 0.020"

G. Surface Seal: 20'

Seal Material: Concrete

H. Seal: 2'

Seal Material: Bentonite

I. Gravel Pack: 22'

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.

B O R I N G L O G

Project No. KEI-P89-0902		Boring & Casing Diameter 9" 2"		Logged By D.L. <i>D.L. Brown</i> CEG 1310
Project Name Unocal Oakland - 35th Ave.		Well Head Elevation N/A		Date Drilled 12/12/89
Boring No. MW2		Drilling Method	Hollow-stem Auger	Drilling Company EGI
Penetration blows/6"	G. W. level	Depth (ft) Samples	Stratigraphy USCS	Description
		0		A.C. Pavement
			GC	Well graded gravel with clay, 10-15% sand, very dense, moist, yellowish brown to dark yellowish brown, gravel to 5", sand content decreases with depth.
10/15/16		5		Clayey gravel, 25-45% clay, 10-15% sand, very dense, very moist, dark yellowish brown, gravel to 1".
13/36/ 50-5"				
29/39/40		10	GC/ CH	Clayey gravel, as above, lensed with gravelly clay, same.
27/38/ 50-5"			GC	Color change at 12 feet, dark yellowish brown and strong brown, mottled.
				Color change at 14 feet to dark yellowish brown.
37/50- 5 1/2		15		Clayey gravel with sand, very dense, slightly moist to moist, dark yellowish brown, gravel to 1 1/2".
27/37/47				
16/30/39		20		Clayey gravel, very dense, moist, dark brown.

B O R I N G L O G

Project No. KEI-P89-0902	Boring & Casing Diameter 9" 2"	Logged By D.L.
Project Name Unocal Oakland - 35th Ave.	Well Head Elevation N/A	Date Drilled 12/12/89
Boring No. MW2	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (ft) Samples	Strati- graphy USCS	Description
30/50			GC	Clayey gravel to gravelly clay, very dense, moist, dark brown, clay is high plasticity, very stiff.
25/34/ 50-6"		25	GW- GC	Well graded gravel with clay and sand, 25-35% coarse sand, very dense, moist, dark brown.
15/20/33			CH	Sandy clay, high plasticity, 5-10% sand, very stiff, moist, dark brown to dark reddish brown.
16/22/35		30	GC	Clayey gravel with sand, gravel to 1", 15-30% sand, very dense, moist, dark brown.
13/24/48				
27/37/40 40/25/34	▼	35	GW- GC	Well graded gravel with clay and sand, gravel to 2".
19/22/32		40	CH	Sandy clay, high plasticity, with gravel, very stiff, moist, dark brown 15-30% gravel to 5/8".

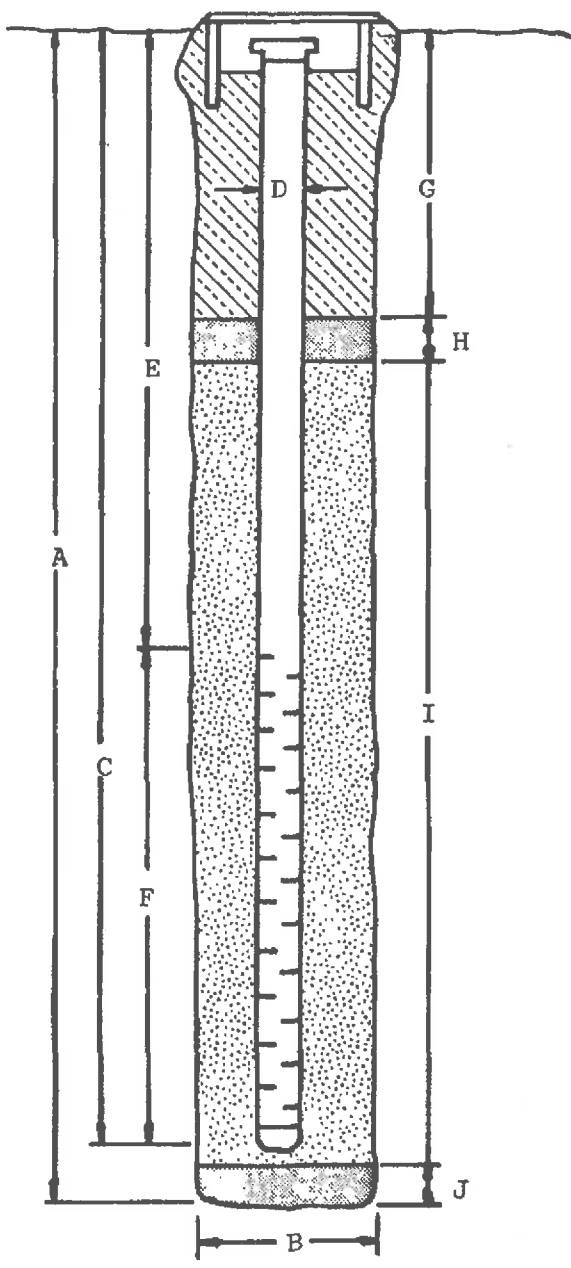
B O R I N G L O G

Project No. KEI-P89-0902		Boring & Casing Diameter 9" 2"		Logged By D.L.
Project Name Unocal Oakland - 35th Ave.		Well Head Elevation N/A		Date Drilled 12/12/89
Boring No. MW2		Drilling Method	Hollow-stem Auger	Drilling Company EGI
Penetration blows/6"	G. W. level	Depth (ft) Samples	Stratigraphy USCS	Description
17/24/25			CH	Sandy clay as above.
				Gravelly clay, high plasticity, with sand, very stiff, moist, dark brown, gravel to 5/8".
			TOTAL DEPTH 44'	

WELL COMPLETION DIAGRAM

PROJECT NAME: Unocal - Oakland - 35th Avenue BORING/WELL NO. MW2
 PROJECT NUMBER: KEI-P89-0902
 WELL PERMIT NO.: 89689

Flush-mounted Well Cover



- A. Total Depth: 44'
- B. Boring Diameter*: 9"
 Drilling Method: Hollow Stem Auger
- C. Casing Length: 44'
 Material: Schedule 40 PVC
- D. Casing Diameter: OD = 2.375"
ID = 2.067"
- E. Depth to Perforations: 24'
- F. Perforated Length: 20'
 Perforation Type: Machined Slot
 Perforation Size: 0.020"
- G. Surface Seal: 20'
 Seal Material: Concrete
- H. Seal: 2'
 Seal Material: Bentonite
- I. Gravel Pack: 22'
 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.

B O R I N G L O G

Project No. KEI-P89-0902		Boring & Casing Diameter 9" 2"		Logged By D.L. <i>DRB</i> <i>CEG 1310</i>
Project Name Unocal Oakland - 35th Ave.		Well Head Elevation N/A		Date Drilled 12/13/89
Boring No. MW3		Drilling Method	Hollow-stem Auger	Drilling Company EGI
Penetration blows/6"	G. W. level	Depth (ft) Samples	Stratigraphy USCS	Description
		0		A.C. Pavement
				Gravel, sand and clay: fill and disturbed native soil, dark yellowish brown.
11/12 8/21/36		5	GC	No sample recovery first attempt. Clayey gravel with sand, very dense, very moist to wet, olive, dark yellowish brown below 6 feet.
13/29		10		Clayey gravel with sand, 25-35% clay, gravel to 1 1/2", very dense, moist, dark yellowish brown, clay is high plasticity.
16/30/ 50-5 1/2		15	CH	Gravelly clay, high plasticity, with sand, very stiff to hard, moist, dark brown and dark yellowish brown, mottled.
26/34		20	GC	Clayey gravel with sand, lensed with with clay sand with gravel to 3/8", very dense, moist, dark brown, 15% clay throughout, gravel to 1".

B O R I N G L O G

Project No. KEI-P89-0902	Boring & Casing Diameter 9" 2"	Logged By D.L.
Project Name Unocal Oakland - 35th Ave.	Well Head Elevation N/A	Date Drilled 12/13/89
Boring No. MW3	Drilling Method Hollow-stem Auger	Drilling Company EGI

Penetration blows/6"	G. W. level	Depth (ft) Samples	Strati- graphy USCS	Description
19/33		25	GC	Clayey gravel with sand, 15-25% sand, very dense, moist, dark brown.
8/8/12		30	CH	Sandy clay, high plasticity, firm to stiff, moist, strong brown. Gravelly clay, high plasticity with sand, dense, moist to very moist, strong brown to dark brown.
40/50/50		35	GW- GC	Well graded gravel with clay and sand, very dense, moist to wet, dark brown, gravel to >2".
43/50-5"	▼		GC/ CH	Undifferentiated clayey gravel and gravelly clay, very dense, very stiff, dark brown.

B O R I N G L O G

Project No. KEI-P89-0902		Boring & Casing Diameter 9" 2"		Logged By D.L.
Project Name Unocal Oakland - 35th Ave.		Well Head Elevation N/A		Date Drilled 12/13/89
Boring No. MW3		Drilling Method	Hollow-stem Auger	Drilling Company EGI
Penetration blows/6"	G. W. level	Depth (ft) Samples	Strati- graphy USCS	Description
			GC/ CH	Undifferentiated clayey gravel and gravelly clay, as above.
		45		
		50		
		55		
		60		
				TOTAL DEPTH 44'

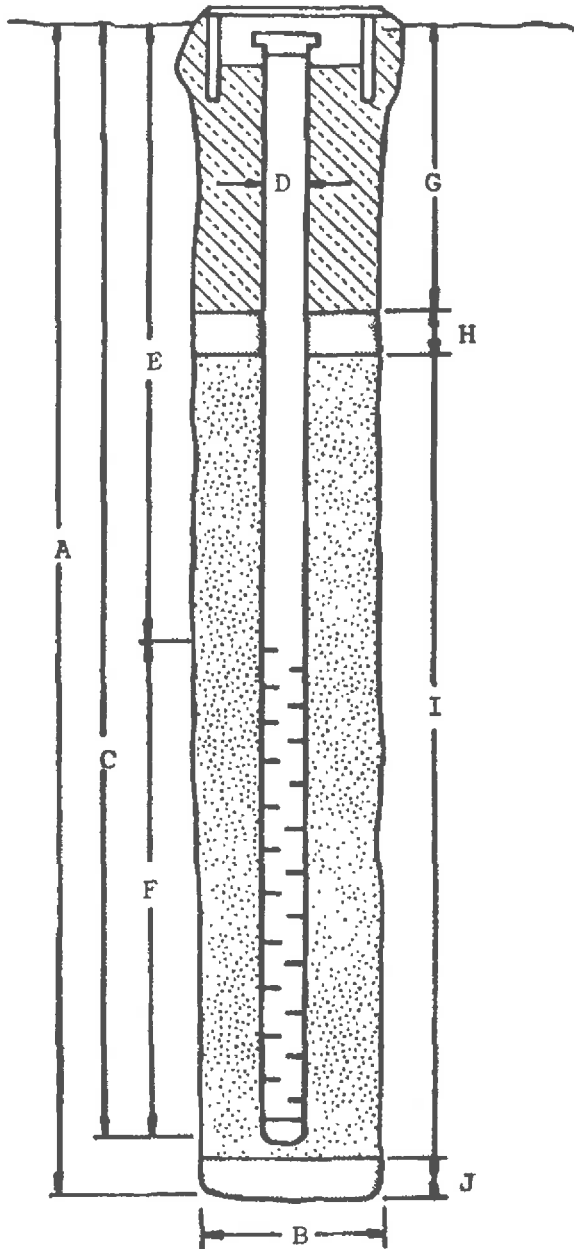
WELL COMPLETION DIAGRAM

PROJECT NAME: Unocal - Oakland - 35th Avenue BORING/WELL NO. MW3

PROJECT NUMBER: KEI-P89-0902

WELL PERMIT NO.: 89689

Flush-mounted Well Cover



A. Total Depth: 44'

B. Boring Diameter*: 9"

Drilling Method: Hollow Stem Auger

C. Casing Length: 43'

Material: Schedule 40 PVC

D. Casing Diameter: OD = 2.375"

ID = 2.067"

E. Depth to Perforations: 23'

F. Perforated Length: 20'

Machined Perforation Type: Slot

Perforation Size: 0.020"

G. Surface Seal: 19'

Seal Material: Concrete

H. Seal: 2'

Seal Material: Bentonite

I. Gravel Pack: 22'

Pack Material: RMC Lonestar Sand

Size: #3

J. Bottom Seal: None

Seal Material: N/A

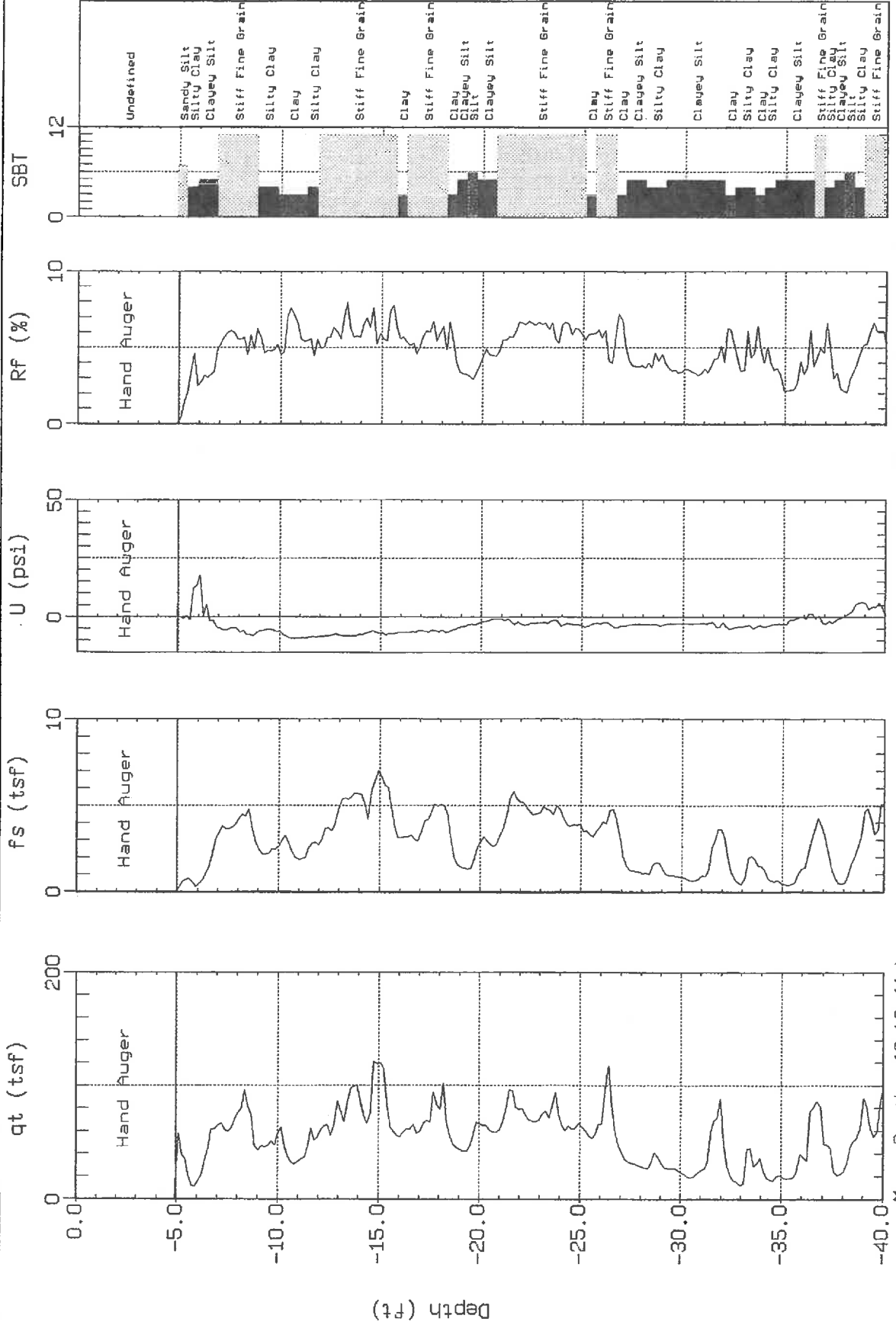
*Boring diameter can vary from 8-1/4" to 9" depending on bit wear.



DELTA ENV.

Site: 76 STATION #6129
Location: CPT-B2

Engineer: D.DAVIS
Date: 09:13:06 14:36



SBT: Soil Behavior Type (Robertson 1990)

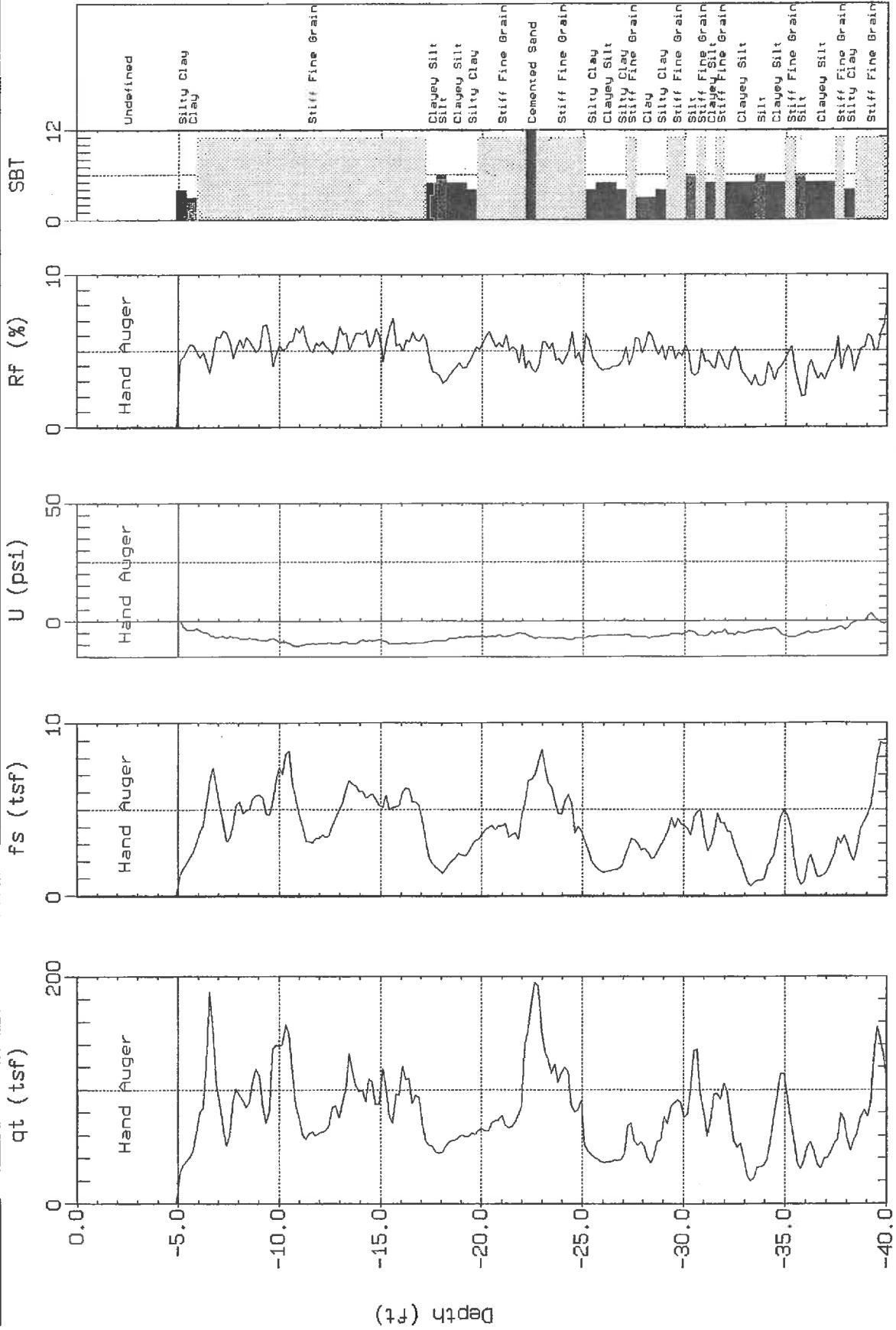
Max. Depth: 40.19 (ft)
Depth Inc.: 0.164 (ft)



DELTA ENV.

Site: 76 STATION #6129
Location: CPT-B4

Engineer: D.DAUIS
Date: 09:13:06 08:49



Max. Depth: 40.19 (ft)
Depth Inc.: 0.164 (ft)

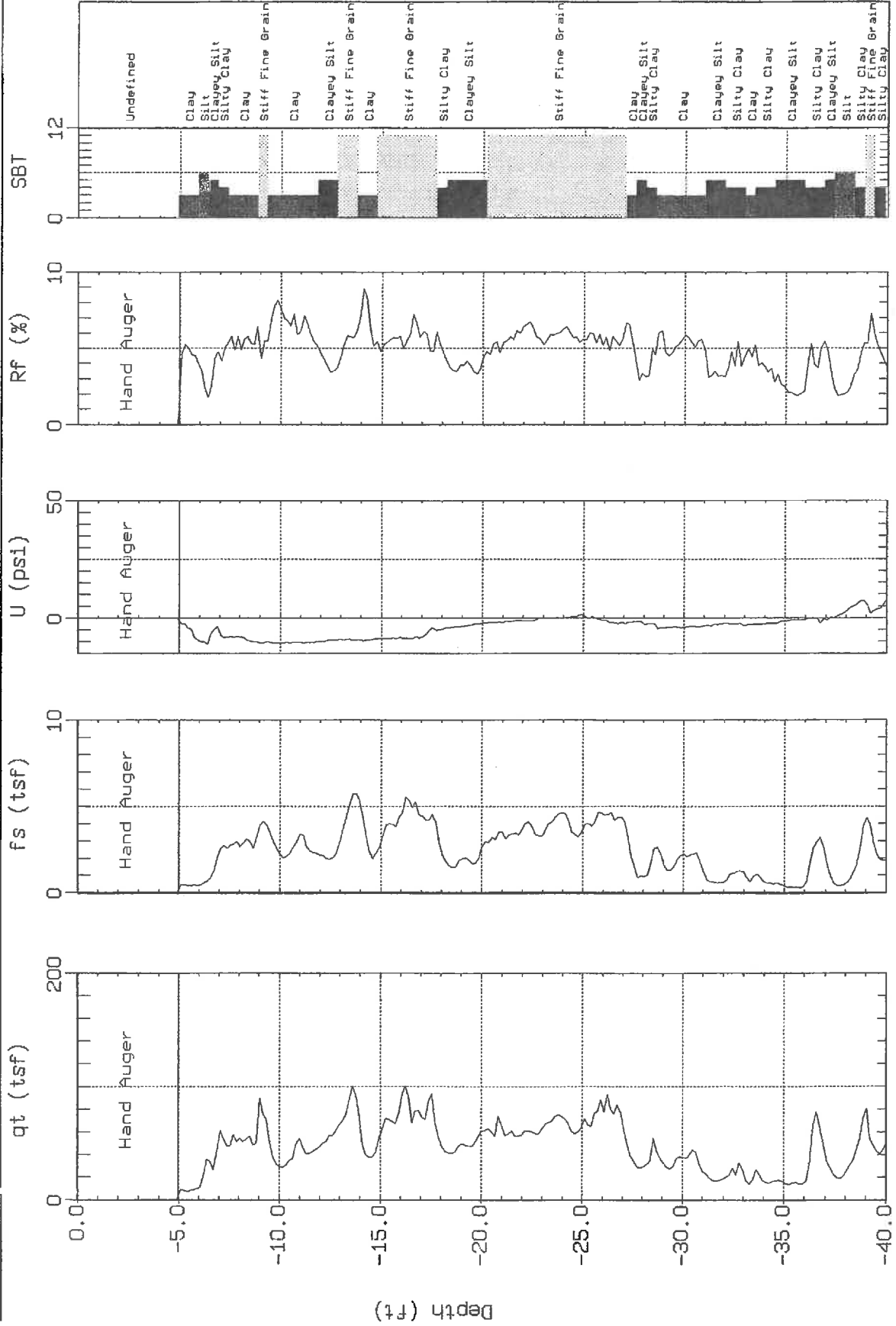
SBT: Soil Behavior Type (Robertson 1990)



DELTA ENV.

Site: 76 STATION #6129
Location: CPT-87

Engineer: D.DAVIS
Date: 09:13:06 07:51



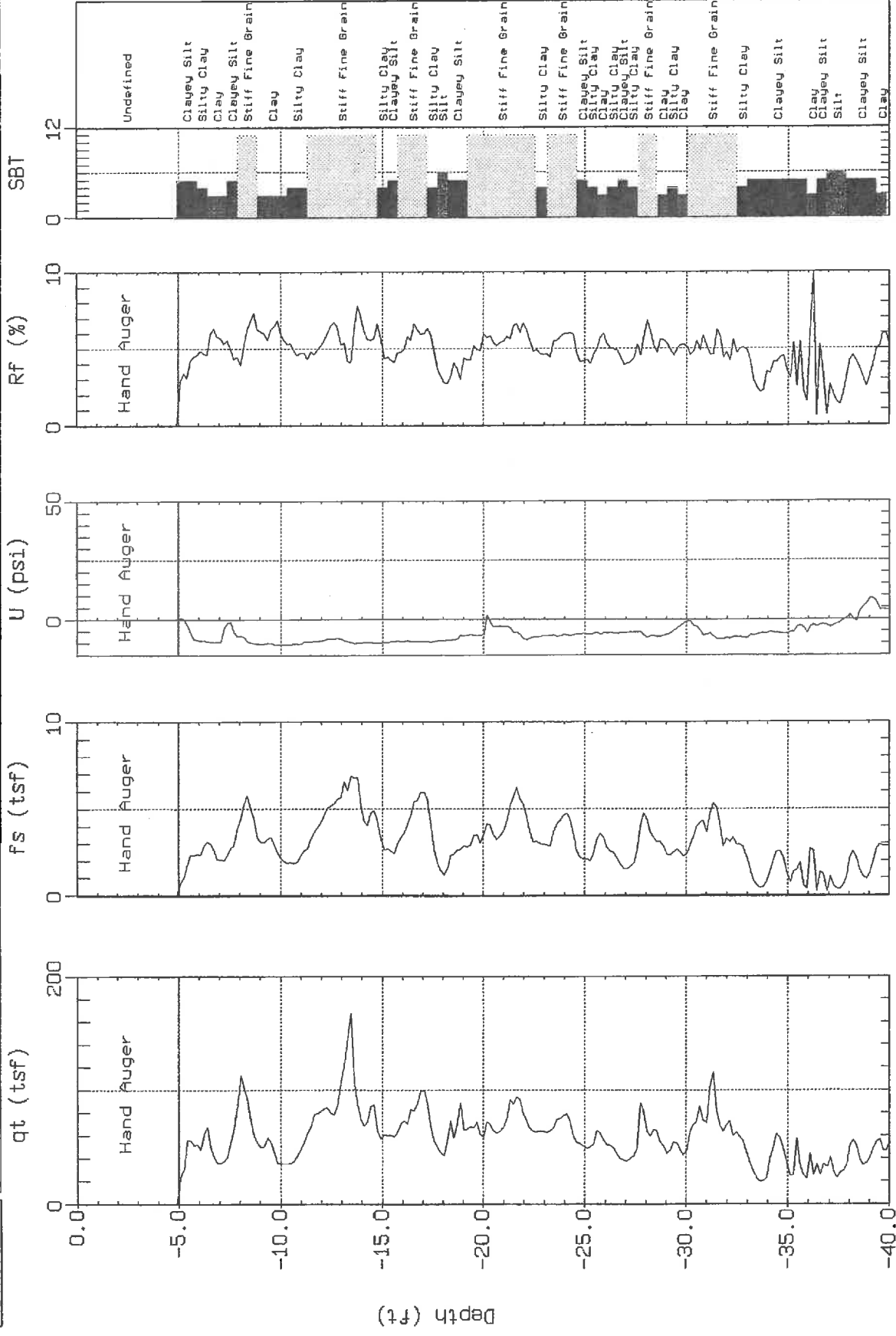
SBT: Soil Behavior Type (Robertson 1990)
Max. Depth: 40.19 (ft)
Depth Inc.: 0.164 (ft)



DELTA ENV.

Site: 76 STATION #6129
Location: CPT-B8

Engineer: D. DAVIS
Date: 09:13:06 09:40



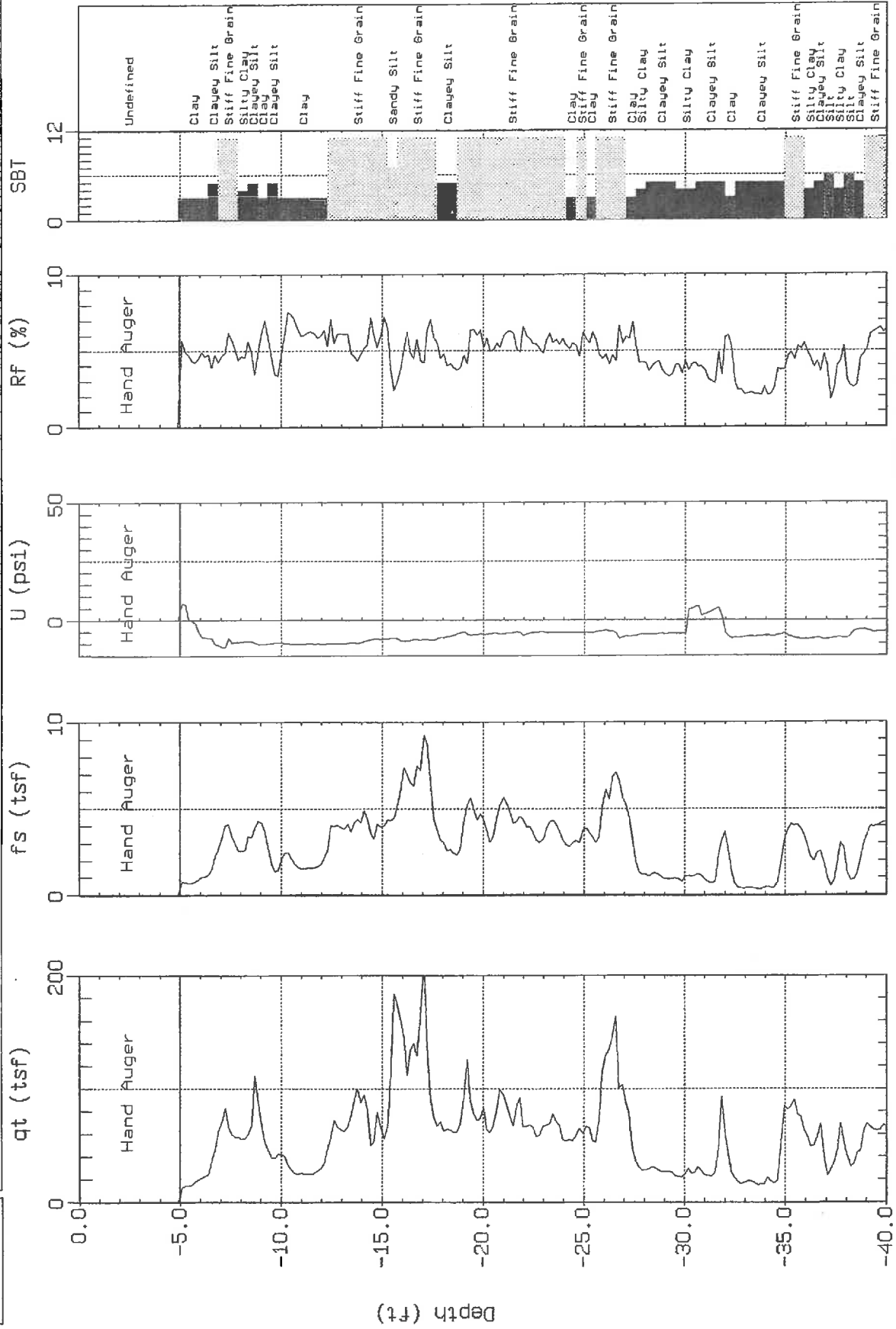
Max. Depth: 40.03 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)



DELTA ENV.

Site: 76 STATION #6129
Location: CPT-810

Engineer: D.DAUIS
Date: 09:13:06 13:01



Max. Depth: 40.19 (ft)
Depth Inc.: 0.164 (ft)

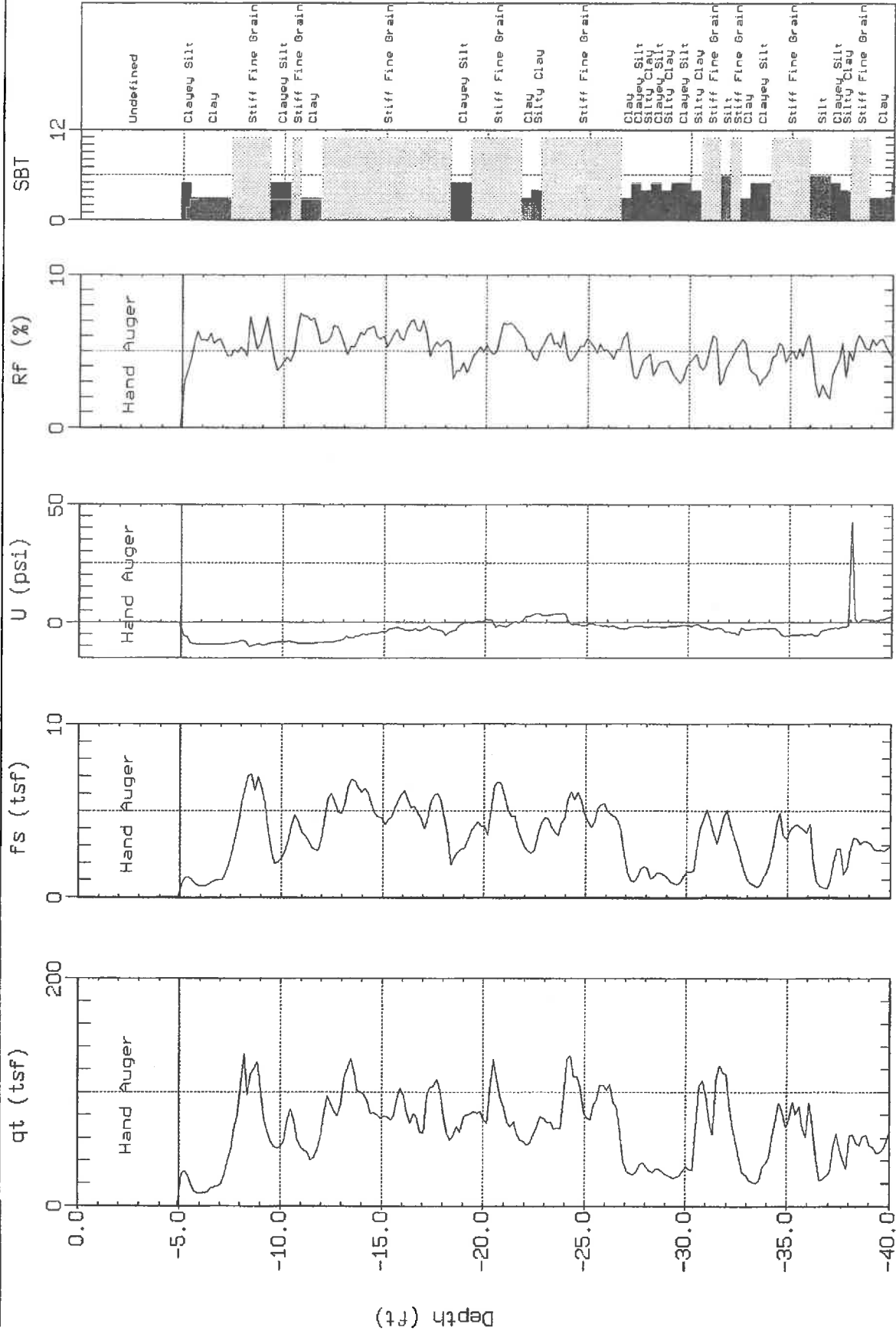
SBT: Soil Behavior Type (Robertson 1990)



DELTA ENV.

Site: 76 STATION #6129
Location: CPT-B14

Engineer: D.DAVIS
Date: 09:13:06 11:01



Max. Depth: 40.35 (ft)
Depth Inc.: 0.164 (ft)

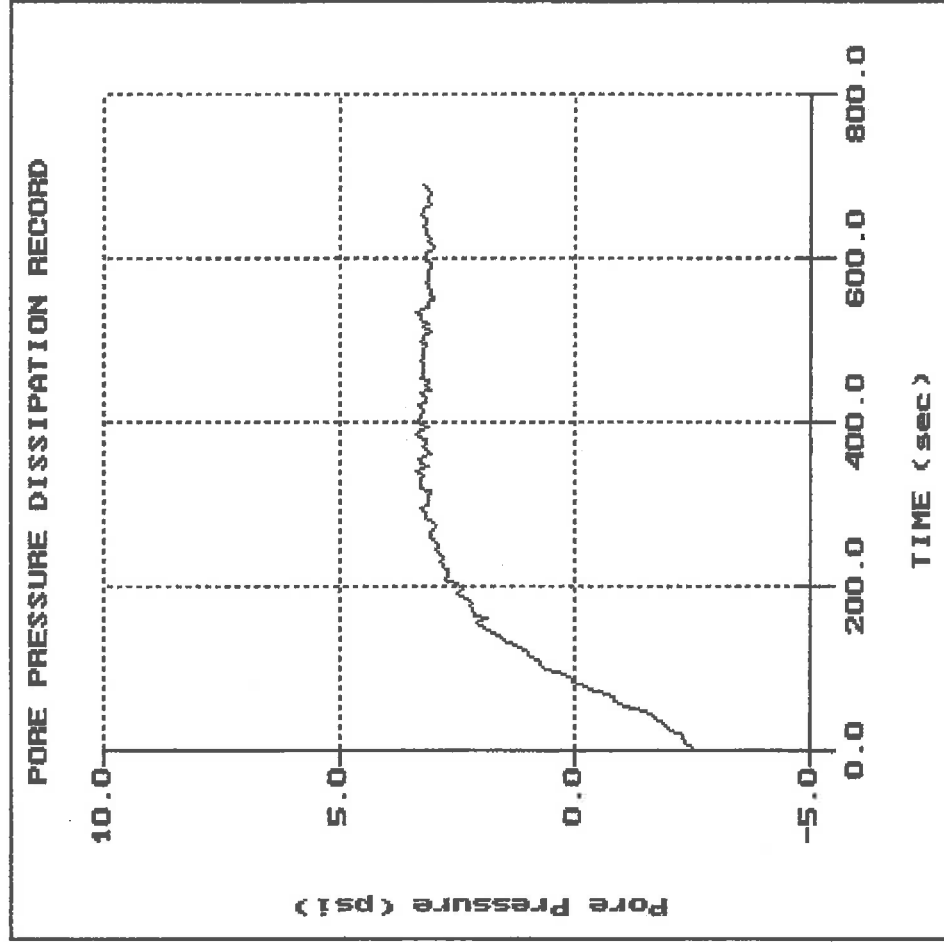
SBT: Soil Behavior Type (Robertson 1990)

DELTA ENV.

Site: 76 STATION #6129
Location: CPT-B7

Engineer: D. DAVIS
Date: 09:13:06 07:51

File: 308C07.PPC
Depth (m): 11.20
(ft): 36.75
Duration: 690.0s
U-min: -2.48 0.0s
U-max: 3.38 385.0s





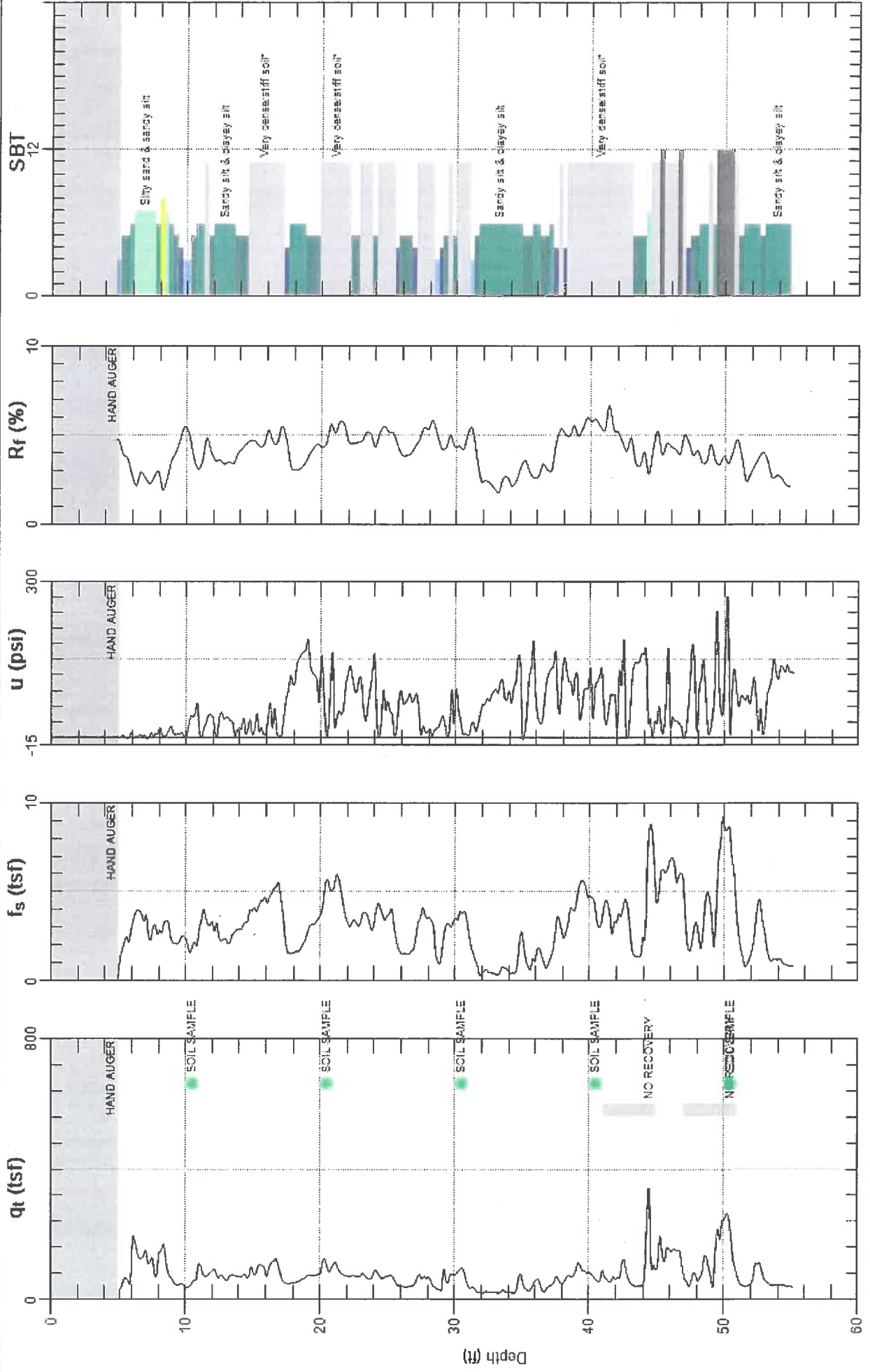
DELTA CONSULTANTS

Site: 76 STATION #6129

Engineer: J.BARNARD

Sounding: CPT-B-17

Date: 10/23/2009 10:06



Max. Depth: 56.118 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



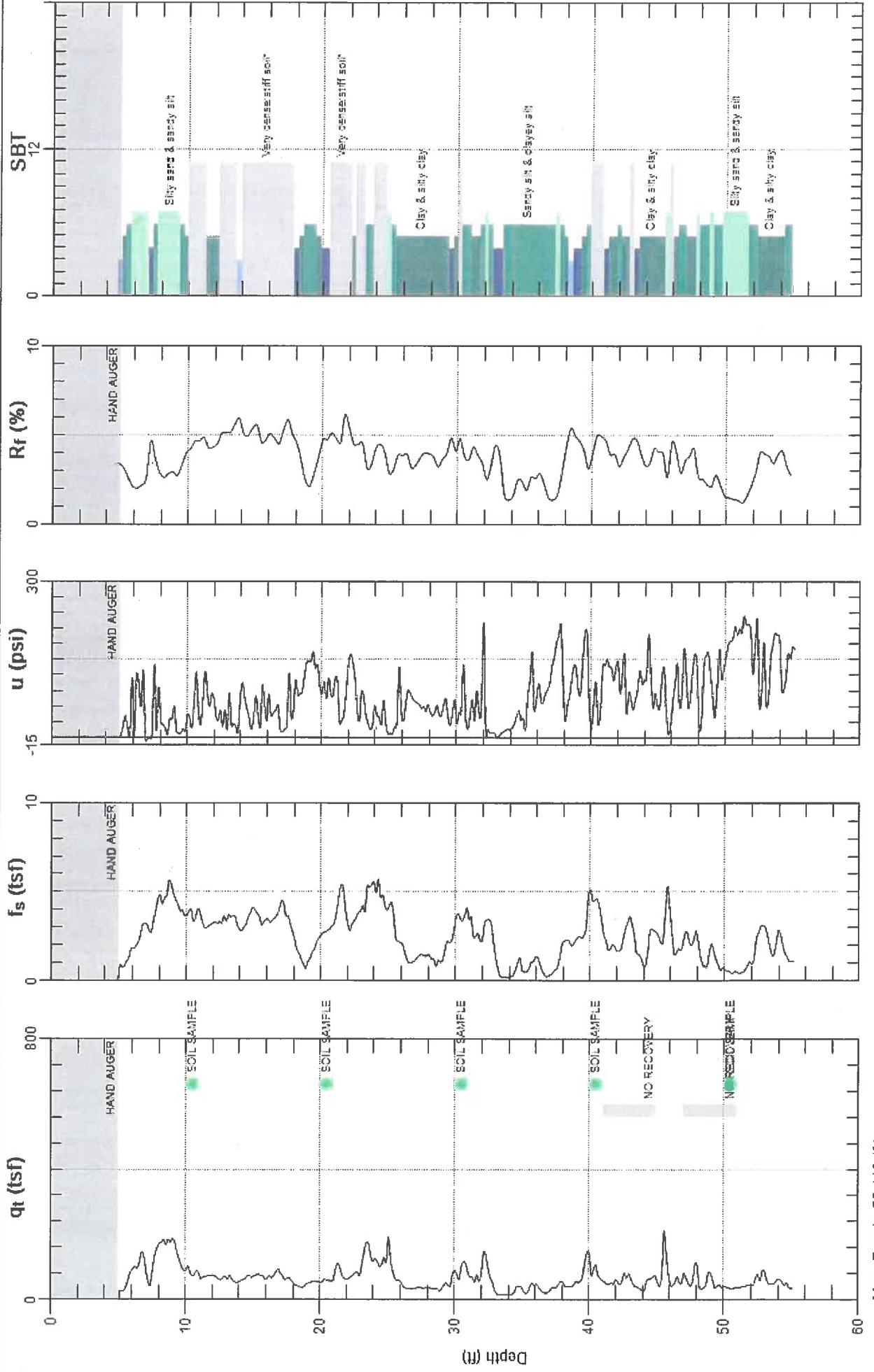
DELTA CONSULTANTS

Site: 76 STATION #6129

Engineer: J.BARNARD

Sounding: CPT-B-18

Date: 10/22/2009 02:45



Max. Depth: 55.118 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



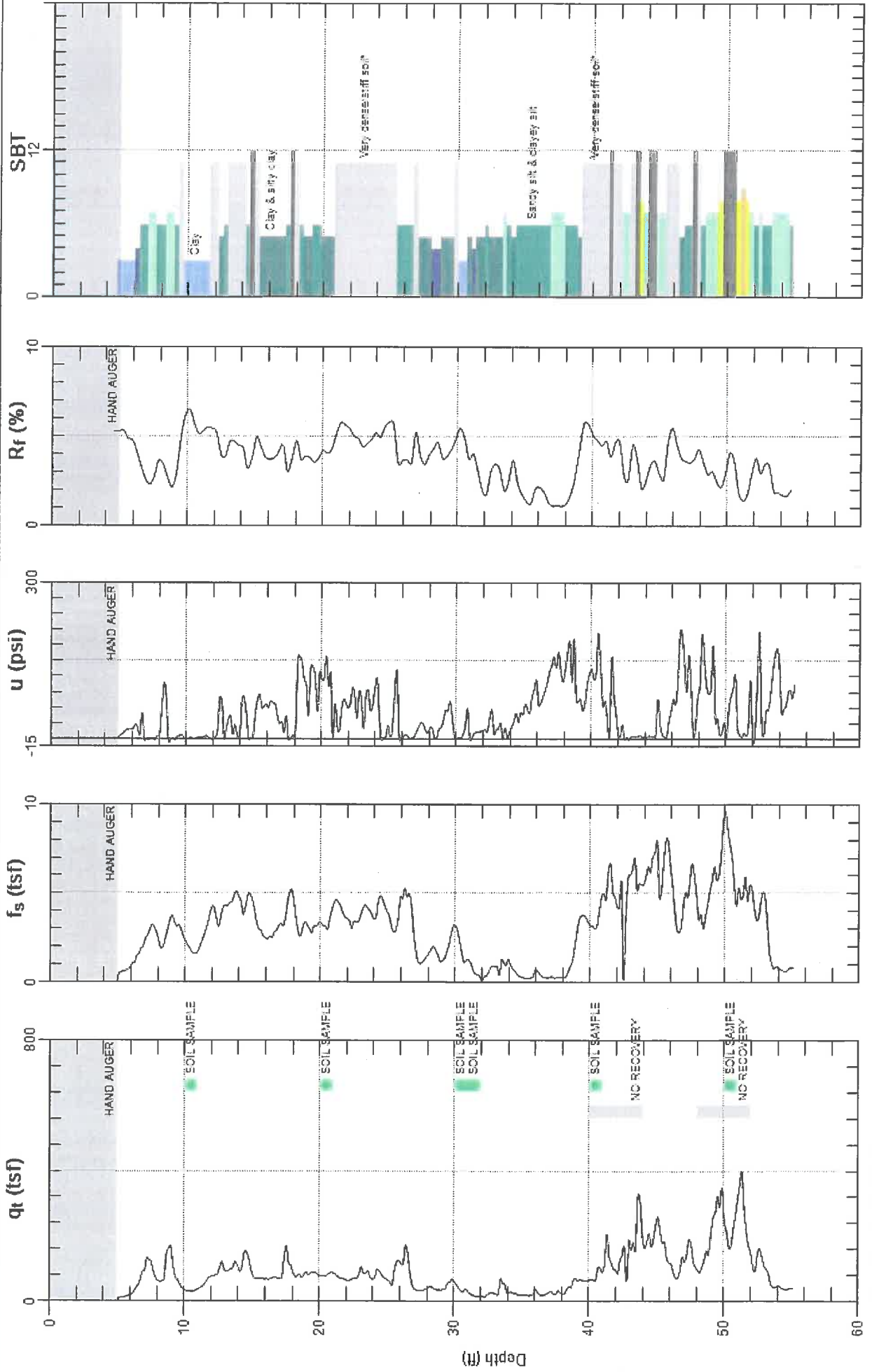
DELTA CONSULTANTS

Site: 76 STATION #6129

Engineer: J.BARNARD

Sounding: CPT-B-19

Date: 10/23/2009 02:03



Max. Depth: 55.118 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



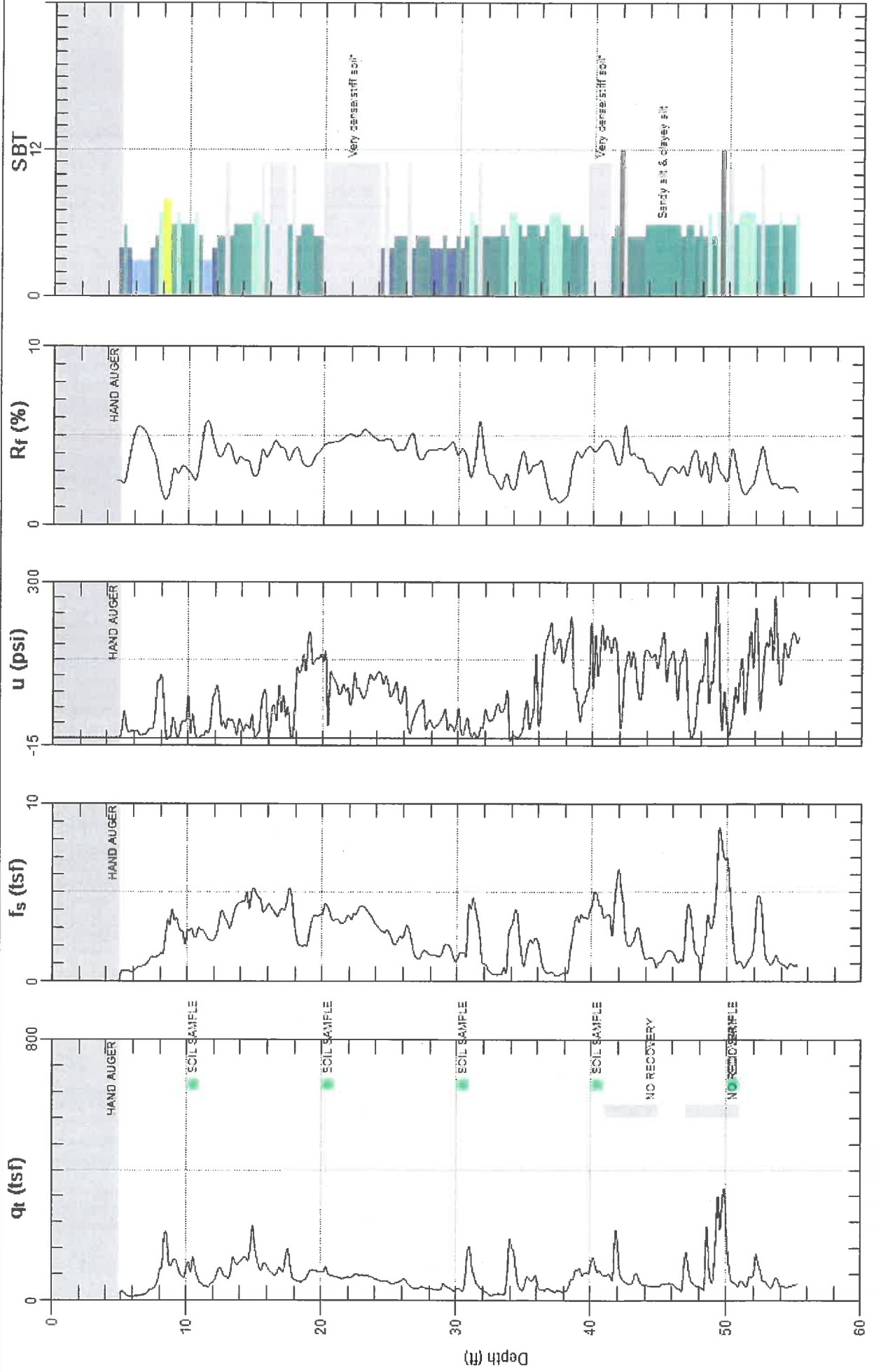
DELTA CONSULTANTS

Site: 76 STATION #6129

Engineer: J.BARNARD

Sounding: CPT-B-20

Date: 10/26/2009 10:23



Max. Depth: 55.282 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)



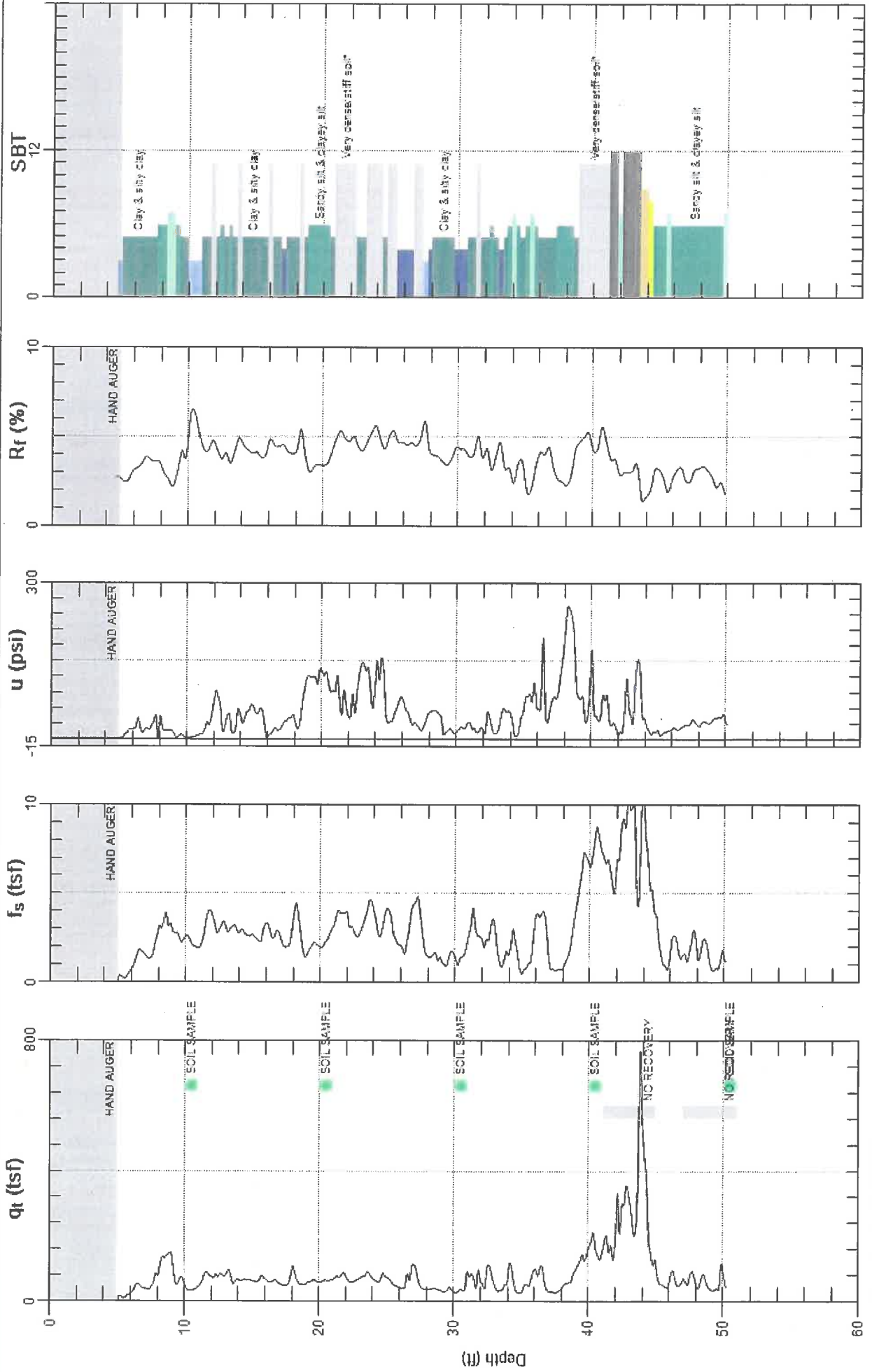
DELTA CONSULTANTS

Site: 76 STATION #6129

Engineer: J.BARNARD

Sounding: CPT-B-21

Date: 10/22/2009 08:57

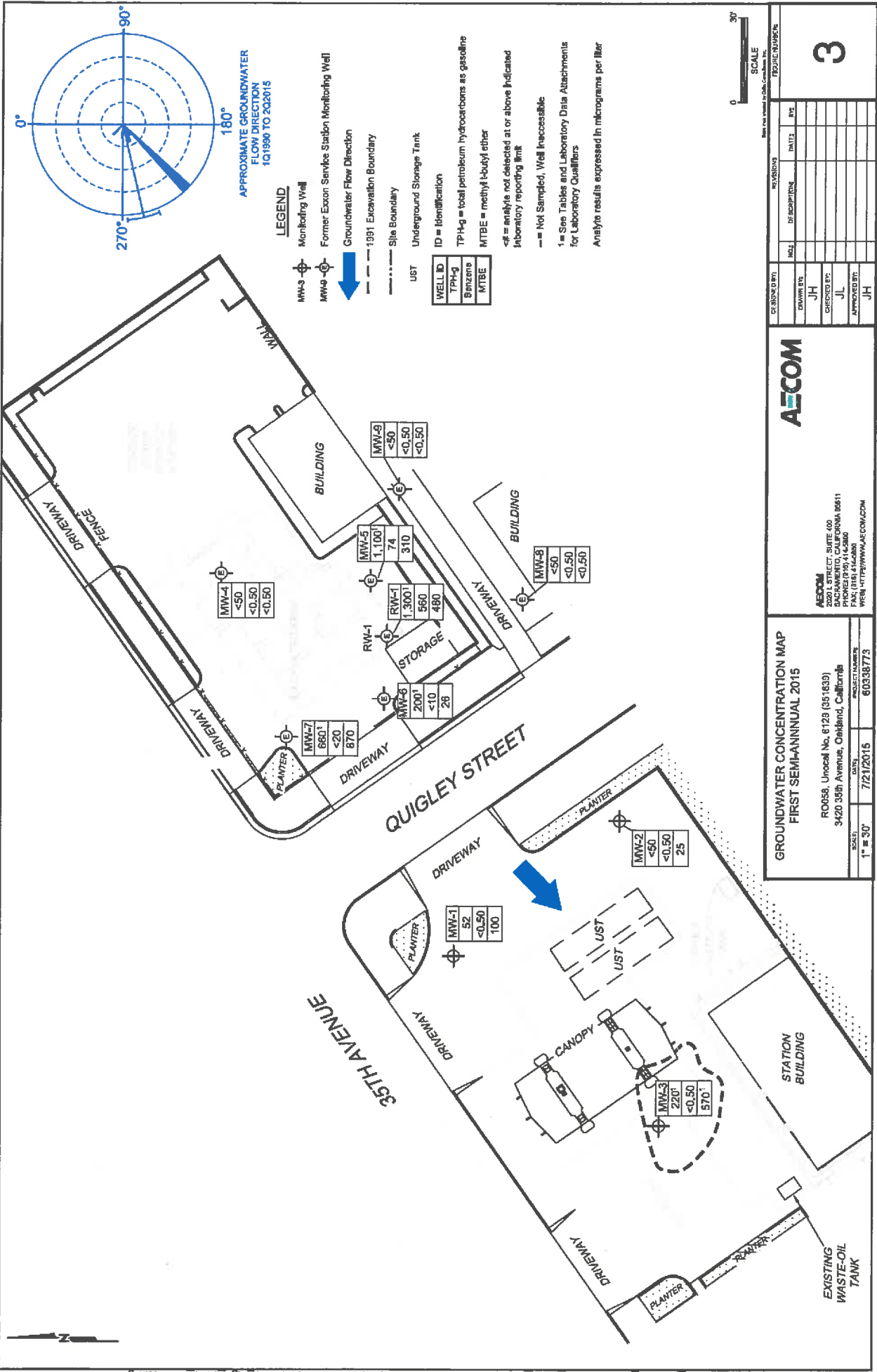


Max. Depth: 50.197 (ft)
Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

ATTACHMENT B-4

Groundwater Data



APPROXIMATE GROUNDWATER FLOW DIRECTION 1Q1990 TO 2Q2015

LEGEND

- MW-3 Monitoring Well
- MW-9 Former Exxon Service Station Monitoring Well
- Groundwater Flow Direction
- 1991 Excavation Boundary
- Site Boundary
- Underground Storage Tank
- UST
- ID = Identification
- TPH-Hg = total petroleum hydrocarbons as gasoline Benzene
- MTBE = methyl-ethyl ether
- <# = analyte not detected at or above indicated laboratory reporting limit
- = Not Sampled, Well Inaccessible
- 1 = See Tables and Laboratory Data Attachments for Laboratory Qualifiers
- Analysts results expressed in micrograms per liter

WELL ID	TPH-Hg	Benzene	MTBE
MW-1	52	<0.50	100
MW-2	<50	<0.50	25
MW-3	220*	<0.50	570*
MW-4	<50	<0.50	<0.50
MW-5	1,100*	74	310
MW-6	2001	<10	28
MW-7	660.1	<20	870
MW-8	1,300*	560	480
MW-9	<50	<0.50	<0.50

GROUNDWATER CONCENTRATION MAP FIRST SEMI-ANNUAL 2015

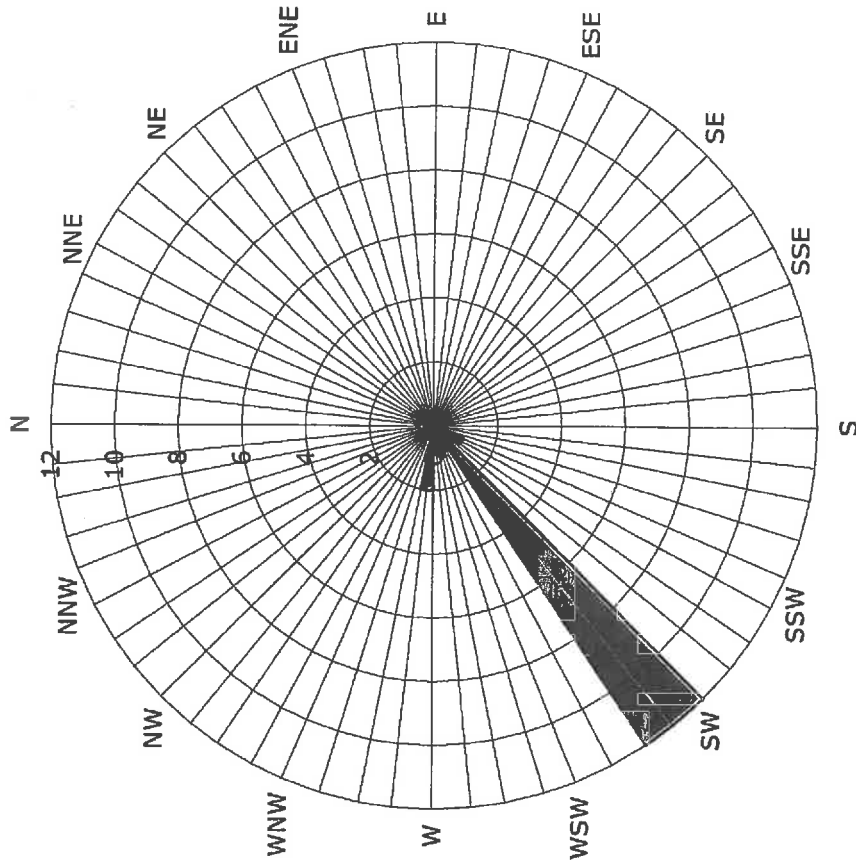
AECOM
 2000 L STREET, SUITE 400
 SACRAMENTO, CALIFORNIA 95811
 PROJECT NUMBER: 60338773
 DATE: 7/21/2015

RO058, Unocal No. 6129 (051609)
 3420 35th Avenue, Oakland, California

SCALE: 1" = 30'

DESIGNED BY:	REVISIONS	DATE:	BY:
JH			
JL			
JH			

Historic Groundwater Flow Directions
ConocoPhillips Site No. 6129
3420 35th Avenue
Oakland, California



■ Groundwater Flow Direction

Legend
Concentric circles represent
quarterly monitoring events
First Quarter 1990 through Fourth
Quarter 2006
16 data points shown

Table 2

GROUNDWATER ANALYTICAL RESULTS
 ConocoPhillips Station No. 6129
 3420 35th Avenue, Oakland

Sample ID	Date	Sample Depth (feet)	TPPH (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	ETBE (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)
Groundwater													
B-2@35'	11/7/2006	35	4,100	ND<0.50	ND<0.50	14	370	1,200	80	ND<0.50	0.72	ND<0.50	ND<250
B-7@31'	11/8/2006	31	490	ND<0.50	ND<0.50	4.5	1	890	52	ND<0.50	ND<0.50	ND<0.50	ND<250
B-8@37'	11/7/2006	37	500	ND<0.50	ND<0.50	ND<0.50	ND<0.50	990	85	ND<0.50	0.59	ND<0.50	ND<250
B-9@16'	11/8/2006	16	ND<250	ND<2.5	ND<2.5	ND<2.5	3.6	61	ND<50	ND<2.5	ND<2.5	ND<2.5	ND<1200
B-10@35'	12/27/2006	35	270	ND<0.50	ND<0.50	ND<0.50	ND<0.50	420	15	ND<0.50	ND<0.50	ND<0.50	ND<250
B-12@30'	12/27/2006	30	310	ND<0.50	ND<0.50	ND<0.50	ND,0.50	450	25	ND<0.50	ND<0.50	7.2	ND<250
B-14@29'	11/8/2006	29	650	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2,500	180	ND<0.50	0.97	1.2	ND<250
B-15@32'	12/27/2006	32	120	ND<0.50	ND<0.50	ND<0.50	ND<0.50	210	ND<10	ND<0.50	ND<0.50	4.6	ND<250
B-16@32'	12/27/2006	32	120	ND<0.50	ND<0.50	ND<0.50	ND<0.50	180	ND<10	ND<0.50	ND<0.50	8.4	ND<250

TPPH = total purgeable petroleum hydrocarbons by EPA Method 8260B
 BTEX = benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B
 MTBE = methyl tertiary butyl ether by EPA Method 8260B
 TBA = tertiary butyl alcohol by EPA Method 8260B
 ETBE = ethyl tertiary butyl ether by EPA Method 8260B
 DIPE = di-isopropyl ether by EPA Method 8260B
 TAME = tertiary amyl methyl ether by EPA Method 8260B

Ethanol was analyzed by EPA Method 8260B
 µg/L = micrograms per liter
 ND = not detected above the laboratory detection limit
Bold = detected compound concentration
 EPA = US Environmental Protection Agency

Table 2. Historical Groundwater Gauging and Analytical Results

First Quarter 1990 to Current

Union Oil Company of California

Unocal No. 6129 (351639)

3420 35th Avenue, Oakland, California

Well ID	Sample Date	Screen Interval		TOC (ft amsl)	DTW (ft bTOC)	GW Elev (ft amsl)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	EDB (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	
		ft bTOC	ft amsl																	
MW-1	1/5/1990	24 - 44	190.79	32.80	157.99	<30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--	--
MW-1	5/11/1990	24 - 44	190.79	31.80	158.99	<30	<0.30	7.1	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--	--
MW-1	8/9/1990	24 - 44	190.79	32.37	158.42	<30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--	--
MW-1	11/14/1990	24 - 44	190.79	33.32	157.47	<30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--	--
MW-1	2/12/1991	24 - 44	190.79	33.02	157.77	<30	0.32	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--	--
MW-1	5/9/1991	24 - 44	190.79	30.95	159.84	<30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--	--
MW-1	11/13/2003	24 - 44	190.79	--	--	180	<1.0	<1.0	<1.0	<1.0	<2.0	240	<200	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1,000
MW-1	8/27/2004	24 - 44	190.79	30.65	160.14	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<50
MW-1	11/23/2004	24 - 44	190.79	29.35	161.44	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<50
MW-1	2/9/2005	24 - 44	190.79	26.89	163.90	<50	<0.50	<0.50	<0.50	<0.50	<1.0	9.3	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<50
MW-1	5/17/2005	24 - 44	190.79	26.56	164.23	<50	<0.50	<0.50	<0.50	<0.50	<1.0	1.9	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<50
MW-1	7/27/2005	24 - 44	190.79	27.33	163.46	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<50
MW-1	12/6/2005	24 - 44	190.79	29.59	161.20	<50	<0.50	0.93	<0.50	<0.50	1.80	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	2/21/2006	24 - 44	190.79	28.27	162.52	<50	<0.50	<0.50	<0.50	<0.50	<1.0	2.6	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	6/8/2006	24 - 44	190.79	26.07	164.72	<50	<0.50	<0.50	<0.50	<0.50	<1.0	11	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	9/15/2006	24 - 44	190.79	28.86	161.93	<50	<0.50	<0.50	<0.50	<0.50	<1.0	1.4	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	12/14/2006	24 - 44	190.79	29.49	161.30	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.5	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	3/28/2007	24 - 44	190.79	27.24	163.55	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.64	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	6/25/2007	24 - 44	190.79	28.30	162.49	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	9/22/2007	24 - 44	190.79	30.61	160.18	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.1	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	12/14/2007	24 - 44	190.79	30.30	160.49	<50	<0.50	<0.50	<0.50	<0.50	<1.0	0.65	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	3/17/2008	24 - 44	190.79	27.22	163.57	<50	<0.50	<0.50	<0.50	<0.50	<1.0	14	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	6/20/2008	24 - 44	190.79	30.10	160.69	<50	<0.50	<0.50	<0.50	<0.50	<1.0	11	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	9/11/2008	24 - 44	190.79	31.04	159.75	<51	<0.50	<0.50	<0.50	<0.50	<1.0	1.3	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	11/25/2008	24 - 44	190.79	30.88	159.91	<50	<0.50	<0.50	<0.50	<0.50	<1.0	5.8	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	3/9/2009	24 - 44	190.79	27.50	163.29	<50	<0.50	<0.50	<0.50	<0.50	<1.0	25	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	5/28/2009	24 - 44	190.79	28.25	162.54	<50	<0.50	<0.50	<0.50	<0.50	<1.0	17	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	12/11/2009	24 - 44	190.79	30.60	160.19	<50	<0.50	<0.50	<0.50	<0.50	<1.0	18	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	5/7/2010	24 - 44	190.79	26.06	164.73	67	<0.50	<0.50	<0.50	<0.50	<1.0	64	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	11/1/2010	24 - 44	190.79	30.18	160.61	<50	<0.50	<0.50	<0.50	<0.50	<1.0	92	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	5/27/2011	24 - 44	190.79	26.87	163.92	110	<0.50	<0.50	<0.50	<0.50	<1.0	220	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	11/23/2011	24 - 44	190.79	29.14	161.65	110	<0.50	<0.50	<0.50	<0.50	<1.0	150	41	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	5/24/2012	24 - 44	190.79	26.58	164.21	140	<0.50	<0.50	<0.50	<0.50	<1.0	190	66	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	10/23/2012	24 - 44	190.79	30.51	160.28	130	<0.50	<0.50	<0.50	<0.50	<1.0	140	47	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	5/2/2013	24 - 44	190.79	28.30	162.49	150	<0.50	<0.50	<0.50	<0.50	<1.0	270	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	11/13/2013	24 - 44	190.79	31.65	159.14	240	<0.50	<0.50	<0.50	<0.50	<1.0	270	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	5/12/2014	24 - 44	190.79	28.95	161.84	98	<0.50	<0.50	<0.50	<0.50	<1.0	170	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	11/19/2014	24 - 44	190.79	31.50	159.29	130	<0.50	<0.50	<0.50	<0.50	<1.0	180	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	6/17/2015	24 - 44	190.79	29.27	161.52	52	<0.50	<0.50	<0.50	<0.50	<1.0	100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	12/15/2015	24 - 44	190.79	31.76	159.03	60	<0.50	<0.50	<0.50	<0.50	<1.0	48	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-1	6/15/2016	24 - 44	190.79	29.64	161.15	89	<0.50	<0.50	<0.50	<0.50	<1.0	600	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250

**Table 2. Historical Groundwater Gauging and Analytical Results
First Quarter 1990 to Current**

Union Oil Company of California
Unocal No. 6129 (351639)
3420 35th Avenue, Oakland, California

Well ID	Sample Date	Screen Interval			DTW (ft bTOC)	GW Elev (ft amsl)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzenes (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	EDB (µg/L)	EDC (µg/L)	D1PE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)
		ft bTOC	(ft amsl)	(ft amsl)															
MW-1	11/21/2016	24 - 44	190.79	30.81	159.98	<50	<0.50	<0.50	<0.50	<1.0	73	<10	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<250
MW-1	4/6/2017	24 - 44	190.79	25.65	165.14	350	<0.50	<0.50	<0.50	<1.0	430	<10	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<250
MW-1	10/18/2017	24-44	190.79	31.72	159.07	230	<1.0	<1.0	<1.0	<2.0	570	470	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<500
MW-2	1/5/1990	24 - 44	190.80	33.02	157.78	<30	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--	--
MW-2	5/11/1990	24 - 44	190.80	31.98	158.82	<30	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--	--
MW-2	8/9/1990	24 - 44	190.80	32.45	158.35	<30	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--	--
MW-2	11/14/1990	24 - 44	190.80	33.47	157.33	<30	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--	--
MW-2	2/12/1991	24 - 44	190.80	33.15	157.65	<30	<0.30	0.42	<0.30	0.51	--	--	--	--	--	--	--	--	--
MW-2	5/9/1991	24 - 44	190.80	30.88	159.92	<30	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--	--
MW-2	11/13/2003	24 - 44	190.80	--	--	<2,000	<20	<20	<20	<40	2,100	<4,000	<80	<80	<80	<80	<80	<80	<20,000
MW-2	8/27/2004	24 - 44	190.80	30.28	160.52	950	<5.0	<5.0	<5.0	<10	1,400	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<500
MW-2	11/23/2004	24 - 44	190.80	28.75	162.05	53	<0.50	<0.50	<0.50	<1.0	4	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50
MW-2	2/9/2005	24 - 44	190.80	26.08	164.72	<500	<0.50	<0.50	<0.50	<1.0	400	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50
MW-2	5/17/2005	24 - 44	190.80	24.53	166.27	<50	<0.50	<0.50	<0.50	<1.0	330	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50
MW-2	7/27/2005	24 - 44	190.80	27.51	163.29	<500	<5.0	<5.0	<5.0	<1.0	580	140	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<500
MW-2	12/6/2005	24 - 44	190.80	29.13	161.67	340	<0.50	<0.50	<0.50	<1.0	780	61	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	2/21/2006	24 - 44	190.80	29.23	161.57	190	<0.50	<0.50	<0.50	<1.0	340	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	6/8/2006	24 - 44	190.80	25.76	165.04	<500	<5.0	<5.0	<5.0	<1.0	440	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500
MW-2	9/15/2006	24 - 44	190.80	29.17	161.63	<500	<5.0	<5.0	<5.0	<1.0	570	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500
MW-2	12/14/2006	24 - 44	190.80	28.11	161.69	520	<0.50	<0.50	<0.50	<0.50	770	27	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	3/28/2007	24 - 44	190.80	26.68	164.12	290	<0.50	<0.50	<0.50	<0.50	460	260	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	6/25/2007	24 - 44	190.80	25.91	164.89	<50	<0.50	<0.50	<0.50	<0.50	1.2	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	9/22/2007	24 - 44	190.80	30.18	160.62	400	<0.50	<0.50	<0.50	<0.50	530	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	12/14/2007	24 - 44	190.80	29.96	160.84	400	<0.50	<0.50	<0.50	<1.0	930	48	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	3/17/2008	24 - 44	190.80	26.74	164.06	570	<5.0	<5.0	<5.0	<1.0	630	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500
MW-2	6/20/2008	24 - 44	190.80	29.78	161.02	560	<0.50	<0.50	<0.50	<1.0	1,200	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	9/11/2008	24 - 44	190.80	30.62	160.18	220	<0.50	<0.50	<0.50	<1.0	29	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	11/25/2008	24 - 44	190.80	30.48	160.32	500	<0.50	<0.50	<0.50	<1.0	1,500	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	3/9/2009	24 - 44	190.80	25.75	165.05	910	<5.0	<5.0	<5.0	<1.0	1,400	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500
MW-2	5/28/2009	24 - 44	190.80	27.71	163.09	460	<0.50	<0.50	<0.50	<1.0	740	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2,500
MW-2	12/11/2009	24 - 44	190.80	29.80	161.00	640	<5.0	<5.0	<5.0	<1.0	1,300	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500
MW-2	5/7/2010	24 - 44	190.80	25.11	165.69	600	<1.0	<1.0	<1.0	<2.0	940	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<500
MW-2	11/1/2010	24 - 44	190.80	29.90	160.90	140	<0.50	<0.50	<0.50	<1.0	730	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	5/27/2011	24 - 44	190.80	26.44	164.36	560	<0.50	<0.50	<0.50	<1.0	1,100	210	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	11/23/2011	24 - 44	190.80	28.53	162.27	830	<0.50	<0.50	<0.50	<1.0	1,500	400	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	5/24/2012	24 - 44	190.80	25.97	164.83	1,000	<0.50	<0.50	<0.50	<1.0	1,200	430	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	10/23/2012	24 - 44	190.80	30.14	160.66	750	<0.50	<0.50	<0.50	<1.0	1,300	420	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	5/2/2013	24 - 44	190.80	27.14	163.66	290	<0.50	<0.50	<0.50	<1.0	460	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	11/13/2013	24 - 44	190.80	31.37	159.43	1,200	<0.50	<0.50	<0.50	<1.0	1,300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	5/12/2014	24 - 44	190.80	28.49	162.31	260	<0.50	<0.50	<0.50	<1.0	510	44	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	11/19/2014	24 - 44	190.80	31.46	159.34	430	<0.50	<0.50	<0.50	<1.0	980	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<250

Table 2. Historical Groundwater Gauging and Analytical Results

First Quarter 1990 to Current
 Union Oil Company of California
 Unocal No. 6129 (351639)
 3420 35th Avenue, Oakland, California

WellID	Sample Date	Screen Interval		TOC (ft amsl)	DTW (ft bTOC)	GW Elev (ft amsl)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	EDB (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)
		(ft bTOC)	(ft amsl)																
MW-2	6/17/2015	24-44	190.80	29.70	161.10	<50	<0.50	<0.50	<0.50	<0.50	<1.0	25	<10	<0.50	<0.50	3.1	<0.50	<0.50	<250
MW-2	12/15/2015	24-44	190.80	31.71	158.09	680	<0.50	<0.50	<0.50	<0.50	<1.0	1,300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	6/15/2016	24-44	190.80	29.35	161.45	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-2	11/21/2016	24-44	190.80	30.58	160.22	140	<0.50	<0.50	<0.50	<0.50	<1.0	270	<10	<0.50	<0.50	17	<0.50	<0.50	<250
MW-2	4/6/2017	24-44	190.80	24.63	166.17	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	2.0	<0.50	<0.50	<250
MW-2	10/18/2017	24-44	190.8	31.47	158.33	<100	<1.0	<1.0	<1.0	<1.0	<2.0	89	150	<1.0	<1.0	8.9	<1.0	<1.0	<500
MW-3	1/5/1990	23-43	188.58	31.68	156.70	<30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--
MW-3	5/11/1990	23-43	188.58	31.25	157.33	<30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--
MW-3	8/9/1990	23-43	188.58	31.53	157.05	<30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--
MW-3	11/14/1990	23-43	188.58	33.30	155.28	<30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--
MW-3	2/12/1991	23-43	188.58	32.05	156.53	<30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--
MW-3	5/9/1991	23-43	188.58	30.37	158.21	<30	<0.30	<0.30	<0.30	<0.30	<0.30	--	--	--	--	--	--	--	--
MW-3	11/13/2003	23-43	188.58	--	--	2,600	<20	<20	<20	<20	<40	3,700	<4,000	<80	<80	<80	<80	<80	<20,000
MW-3	8/27/2004	23-43	188.58	29.61	158.97	1,700	<10	<10	<10	<10	<20	2,600	<100	<10	<10	<10	<20	<10	<1,000
MW-3	11/23/2004	23-43	188.58	28.48	160.10	1,500	<10	<10	<10	<10	<20	1,800	<100	<10	<10	<10	<20	<10	<1,000
MW-3	2/9/2005	23-43	188.58	26.45	162.13	<1,000	<0.50	<0.50	<0.50	<0.50	<1.0	2,100	130	<10	<10	<10	<10	<10	<1,000
MW-3	5/17/2005	23-43	188.58	25.61	162.97	<1,000	<0.50	<0.50	<0.50	<0.50	<1.0	1,200	<100	<10	<10	<10	<10	<10	<1,000
MW-3	7/27/2005	23-43	188.58	27.35	161.23	<1,000	<10	<10	<10	<10	<20	1,400	<100	<10	<10	<10	<10	<10	<1,000
MW-3	12/6/2005	23-43	188.58	28.78	159.60	430	<0.50	<0.50	1.6	<0.50	3.6	1,800	160	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	2/21/2006	23-43	188.58	28.91	159.67	420	<0.50	<0.50	<0.50	<0.50	<1.0	1,100	88	<0.50	<0.50	<0.50	<0.50	0.58	<250
MW-3	6/8/2006	23-43	188.58	25.97	162.61	<1,200	<12	<12	<12	<12	<25	1,000	<250	<12	<12	<12	<12	<12	<6,200
MW-3	9/15/2006	23-43	188.58	28.73	159.85	<1,200	<12	<12	<12	<12	<12	1,200	<250	<12	<12	<12	<12	<12	<6,200
MW-3	12/14/2006	23-43	188.58	28.62	159.96	<1,000	<10	<10	<10	<10	<10	1,300	<200	<10	<10	<10	<10	<10	<5,000
MW-3	3/28/2007	23-43	188.58	26.69	161.89	500	<1.0	<1.0	<1.0	<1.0	<1.0	860	500	<1.0	<1.0	<1.0	<1.0	<1.0	<500
MW-3	6/25/2007	23-43	188.58	26.74	161.84	270	<0.50	<0.50	<0.50	<0.50	<0.50	570	11	<0.50	0.65	<0.50	<0.50	<0.50	<250
MW-3	9/22/2007	23-43	188.58	29.57	159.01	500	<0.50	<0.50	<0.50	<0.50	<0.50	980	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	12/14/2007	23-43	188.58	29.30	159.28	270	<0.50	<0.50	<0.50	<0.50	<1.0	570	26	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	3/17/2008	23-43	188.58	26.82	161.76	220	<0.50	<0.50	<0.50	<0.50	<1.0	520	<10	<0.50	0.65	<0.50	<0.50	<0.50	<250
MW-3	6/20/2008	23-43	188.58	29.10	159.48	490	<0.50	<0.50	<0.50	<0.50	<1.0	1,300	49	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	9/11/2008	23-43	188.58	29.89	158.69	630	<5.0	<5.0	<5.0	<5.0	<10	1,200	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<2,500
MW-3	11/25/2008	23-43	188.58	29.74	158.84	380	<0.50	<0.50	<0.50	<0.50	<1.0	870	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	3/9/2009	23-43	188.58	25.56	163.02	310	<0.50	<0.50	<0.50	<0.50	<1.0	720	15	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	5/28/2009	23-43	188.58	27.55	161.03	410	<0.50	<0.50	<0.50	<0.50	<1.0	750	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	12/11/2009	23-43	188.58	29.10	159.48	220	<0.50	<0.50	<0.50	<0.50	<1.0	620	63	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	5/7/2010	23-43	188.58	25.72	162.86	360	<0.50	<0.50	<0.50	<0.50	<1.0	660	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	11/1/2010	23-43	188.58	29.29	159.29	120	<0.50	<0.50	<0.50	<0.50	<1.0	490	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	5/27/2011	23-43	188.58	26.53	162.05	340	<0.50	<0.50	<0.50	<0.50	<1.0	890	73	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	11/23/2011	23-43	188.58	28.11	160.47	520	<0.50	<0.50	<0.50	<0.50	<1.0	730	170	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	5/24/2012	23-43	188.58	25.95	162.63	660	<0.50	<0.50	<0.50	<0.50	<1.0	1,100	300	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	10/23/2012	23-43	188.58	29.39	159.19	480	<0.50	<0.50	<0.50	<0.50	<1.0	500	160	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	5/2/2013	23-43	188.58	26.98	161.60	130	<0.50	<0.50	<0.50	<0.50	<1.0	220	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250

Table 2. Historical Groundwater Gauging and Analytical Results

First Quarter 1990 to Current
 Union Oil Company of California
 Unocal No. 6129 (351639)
 3420 35th Avenue, Oakland, California

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	GW Elev (ft amsl)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	EDB (µg/L)	EDC (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)
MW-3	11/13/2013	23 - 43	188.58	30.28	158.30	110	<0.50	<0.50	<0.50	<1.0	100	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	5/12/2014	23 - 43	188.58	27.93	160.65	98	<0.50	<0.50	<0.50	<1.0	160	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	11/19/2014	23 - 43	188.58	30.22	158.36	180	<0.50	<0.50	<0.50	<1.0	250	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	6/17/2015	23 - 43	188.58	28.75	159.83	220	<0.50	<0.50	<0.50	<1.0	570	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	12/15/2015	23 - 43	188.58	30.45	158.13	220	<0.50	<0.50	<0.50	<1.0	240	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	6/15/2016	23 - 43	188.58	28.64	159.94	550	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	11/21/2016	23 - 43	188.58	29.58	159.00	130	<0.50	<0.50	<0.50	<1.0	430	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	4/6/2017	23 - 43	188.58	25.27	163.31	370	<0.50	<0.50	<0.50	<1.0	460	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250
MW-3	10/18/2017	23-43	188.58	30.39	158.19	250	<1.0	<1.0	<1.0	<2.0	600	92	<1.0	<1.0	<1.0	<1.0	<1.0	<500

Notes: MW = Groundwater monitoring well
 TOC = Top of casing
 ft amsl = Feet above mean sea level
 DTW = Depth to groundwater
 ft bTOC = Feet below top of casing
 ft = Feet
 - = Not sampled/not measured
 GW Elev = Groundwater elevation
 µg/L = Micrograms per liter
Bold = Value exceeds laboratory reporting limits
 <0.50 = Not detected at or above the stated limit
 J = Estimated value (between laboratory reporting limit and method detection Data QJA/QC by: ME 12/08/2017)

TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to Environmental Protection Agency (EPA) Method 8260B
 Samples analyzed by EPA Method 8260B:
 Benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX)

MTBE = Methyl tert-butyl ether

TBA = Tert-butanol or tertiary butyl alcohol

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

DIPE = Di-isopropyl ether

ETBE = Ethyl tert-butyl ether

TAME = Tert-amyl methyl ether

Ethanol

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 6129

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Iron Ferric (µg/l)
MW-1												
11/13/2003	ND<200	ND<1000	ND<4.0	ND<4.0	ND<4.0	ND<4.0	ND<4.0	--	--	--	--	--
8/27/2004	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	--
11/23/2004	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	--
2/9/2005	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
5/17/2005	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
7/27/2005	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
12/6/2005	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
2/21/2006	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
6/8/2006	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
9/15/2006	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
12/14/2006	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/28/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
6/25/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
9/22/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
12/14/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/17/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
6/20/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
9/11/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/25/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/9/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.83	--	--	--	--
5/28/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.88	ND<2.0	21	ND<10	27000
12/11/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
5/7/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
MW-2												
11/13/2003	ND<4000	ND<20000	ND<80	ND<80	ND<80	ND<80	ND<80	--	--	--	--	--



Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 6129

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Iron Ferric (µg/l)
MW-2 continued												
8/27/2004	ND<50	ND<500	ND<5.0	ND<5.0	24	ND<5.0	ND<5.0	--	--	--	--	--
11/23/2004	ND<5.0	ND<50	ND<0.50	ND<0.50	18	ND<0.50	ND<0.50	--	--	--	--	--
2/9/2005	ND<50	ND<500	ND<5.0	ND<5.0	19	ND<5.0	ND<5.0	--	--	--	--	--
5/17/2005	ND<5.0	ND<50	ND<0.50	ND<0.50	12	ND<0.50	ND<0.50	--	--	--	--	--
7/27/2005	140	ND<500	ND<5.0	ND<5.0	16	ND<5.0	ND<5.0	--	--	--	--	--
12/6/2005	61	ND<250	ND<0.50	ND<0.50	15	ND<0.50	ND<0.50	--	--	--	--	--
2/21/2006	ND<10	ND<250	ND<0.50	ND<0.50	18	ND<0.50	ND<0.50	--	--	--	--	--
6/8/2006	ND<100	ND<2500	ND<5.0	ND<5.0	14	ND<5.0	ND<5.0	--	--	--	--	--
9/15/2006	ND<100	ND<2500	ND<5.0	ND<5.0	17	ND<5.0	ND<5.0	--	--	--	--	--
12/14/2006	27	ND<250	ND<0.50	ND<0.50	20	ND<0.50	ND<0.50	--	--	--	--	--
3/28/2007	260	ND<250	ND<0.50	ND<0.50	23	ND<0.50	ND<0.50	--	--	--	--	--
6/25/2007	ND<10	ND<250	ND<0.50	ND<0.50	23	ND<0.50	ND<0.50	--	--	--	--	--
9/22/2007	ND<10	ND<250	ND<0.50	ND<0.50	35	ND<0.50	ND<0.50	--	--	--	--	--
12/14/2007	48	ND<250	ND<0.50	ND<0.50	24	ND<0.50	ND<0.50	--	--	--	--	--
3/17/2008	ND<100	ND<2500	ND<5.0	ND<5.0	18	ND<5.0	ND<5.0	--	--	--	--	--
6/20/2008	ND<10	ND<250	ND<0.50	ND<0.50	16	ND<0.50	ND<0.50	--	--	--	--	--
9/11/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/25/2008	ND<10	ND<250	ND<0.50	ND<0.50	19	ND<0.50	ND<0.50	--	--	--	--	--
3/9/2009	ND<100	ND<2500	ND<5.0	ND<5.0	15	ND<5.0	ND<5.0	1.4	--	--	--	--
5/28/2009	ND<10	ND<250	ND<0.50	ND<0.50	20	ND<0.50	ND<0.50	1.6	ND<2.0	49	ND<10	43000
12/11/2009	ND<100	ND<2500	ND<5.0	ND<5.0	19	ND<5.0	ND<5.0	--	--	--	--	--
5/7/2010	ND<20	ND<500	ND<1.0	ND<1.0	14	ND<1.0	ND<1.0	--	--	--	--	--
MW-3												
11/13/2003	ND<4000	ND<20000	ND<80	ND<80	ND<80	ND<80	ND<80	--	--	--	--	--
8/27/2004	ND<100	ND<1000	ND<10	ND<10	ND<20	ND<10	ND<10	--	--	--	--	--



Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 6129

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Iron Ferric (µg/l)
MW-3 continued												
11/23/2004	ND<100	ND<1000	ND<10	ND<10	ND<20	ND<10	ND<10	--	--	--	--	--
2/9/2005	130	ND<1000	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	--	--
5/17/2005	ND<100	ND<1000	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	--	--
7/27/2005	360	ND<1000	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	--	--
12/6/2005	160	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
2/21/2006	88	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.58	--	--	--	--	--
6/8/2006	ND<250	ND<6200	ND<12	ND<12	ND<12	ND<12	ND<12	--	--	--	--	--
9/15/2006	ND<250	ND<6200	ND<12	ND<12	ND<12	ND<12	ND<12	--	--	--	--	--
12/14/2006	ND<200	ND<5000	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	--	--
3/28/2007	500	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--
6/25/2007	11	ND<250	ND<0.50	0.65	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
9/22/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
12/14/2007	26	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/17/2008	ND<10	ND<250	ND<0.50	0.65	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
6/20/2008	49	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
9/11/2008	ND<100	ND<2500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	--
11/25/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/9/2009	15	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.4	--	--	--	--
5/28/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.5	ND<2.0	23	ND<10	11000
12/11/2009	63	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
5/7/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--



Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 6129

Date Sampled	Iron Ferrous (µg/l)	Iron (total) (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Alkalinity (total) (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Conductance (µmhos)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)
MW-1												
3/9/2009	ND<1000	--	--	--	2.0	46	310	--	--	--	1.95	2.54
5/28/2009	ND<500	27000	10	680	2.9	43	310	7.7	126	798	--	4.05
12/11/2009	--	--	--	--	--	--	--	--	--	--	1.42	2.35
5/7/2010	--	--	--	--	--	--	--	--	--	--	2.60	3.06
MW-2												
3/9/2009	940	--	--	--	2.0	41	410	--	--	--	0.85	1.32
5/28/2009	ND<1000	44000	4.3	500	1.6	40	370	7.1	138	813	--	1.54
12/11/2009	--	--	--	--	--	--	--	--	--	--	0.47	0.74
5/7/2010	--	--	--	--	--	--	--	--	--	--	1.89	2.39
MW-3												
3/9/2009	ND<500	--	--	--	ND<0.44	38	310	--	--	--	0.94	0.84
5/28/2009	ND<500	12000	49	300	ND<0.44	39	300	7.5	125	667	--	0.91
12/11/2009	--	--	--	--	--	--	--	--	--	--	0.75	1.03
5/7/2010	--	--	--	--	--	--	--	--	--	--	2.35	2.29

Table 2 c
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 6129

Date Sampled	Pre-purge ORP (mV)	Post-purge ORP (mV)
MW-1		
3/9/2009	8	24
5/28/2009	70	--
12/11/2009	32	21
5/7/2010	211	205
MW-2		
3/9/2009	39	56
5/28/2009	80	--
12/11/2009	29	-10
5/7/2010	208	204
MW-3		
3/9/2009	14	32
5/28/2009	66	--
12/11/2009	44	35
5/7/2010	209	204

TABLE 3 HISTORICAL GROUNDWATER MONITORING DATA,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Elevation TOC (feet)	Depth to Water (feet below TOC)	Groundwater Elevation (feet)	LPH Thickness (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW1	SCREEN INTERVAL (feet bgs) 25-45												
MW1	07/15/92	---	Well installed.										
MW1	07/17/92	192.00	33.02	158.98	0.00	67	6.6	6.9	2.0	4.5	---	17	---
MW1	10/22/92	192.00	34.07	157.93	0.00	<50	2.9	<0.5	<0.5	<0.5	---	16	---
MW1	02/04/93	192.00	29.43	162.57	0.00	<50	0.8	<0.5	<0.5	<0.5	---	4	---
MW1	05/03/93	192.00	29.72	162.28	0.00	71	2.8	7.2	2.2	22	---	40	---
MW1	07/30/93	192.00	32.95	159.05	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	5	---
MW1	10/19/93	192.00	34.34	157.66	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	12	---
MW1	02/23/94	192.00	31.72	160.28	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	4	---
MW1	06/06/94	192.00	31.77	160.23	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW1	08/18/94	192.00	33.76	158.24	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	130	---
MW1	11/15/94	192.00	34.08	157.92	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3.0	<100
MW1	02/06/95	192.00	28.50	163.50	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW1	05/10/95	192.00	29.30	162.70	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW1	09/20/99	192.00	33.30	158.70	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<75	<50
MW1	Well destroyed in June 2000.												
MW2	SCREEN INTERVAL (feet bgs) 25-45												
MW2	07/15/92	---	Well installed.										
MW2	07/17/92	194.85	34.65	160.20	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW2	10/22/92	194.85	35.64	159.21	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW2	02/04/93	194.85	31.13	163.72	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW2	05/03/93	194.85	31.08	163.77	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	3	---
MW2	07/30/93	194.85	34.34	160.51	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	14	---
MW2	10/19/93	194.85	36.00	158.85	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW2	02/23/94	194.85	33.92	160.93	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW2	06/06/94	194.85	33.50	161.35	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW2	08/18/94	194.85	35.38	159.47	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3.0	---
MW2	11/15/94	194.85	35.93	158.92	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3.0	<100
MW2	02/06/95	194.85	30.38	164.47	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW2	05/10/95	194.85	30.77	164.08	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW2	09/20/99	194.85	35.15	159.70	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<75	<50
MW2	Well destroyed in June 2000.												
MW3	SCREEN INTERVAL (feet bgs) 25-45												
MW3	07/15/92	---	Well installed.										
MW3	07/17/92	196.90	37.24	159.66	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	50	---

TABLE 3 HISTORICAL GROUNDWATER MONITORING DATA,
FORMER EXXON SERVICE STATION 7023-4,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Elevation TOC (feet)	Depth to Water (feet below TOC)	Groundwater Elevation (feet)	LPH Thickness (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW3	10/22/92	196.90	35.95	160.95	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	9	---
MW3	02/04/93	196.90	29.85	167.05	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW3	05/03/93	196.90	29.87	167.03	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	3	---
MW3	07/30/93	196.90	33.85	163.05	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	22	---
MW3	10/19/93	196.90	35.89	161.01	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	12	---
MW3	02/23/94	196.90	32.88	164.02	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	25	---
MW3	06/06/94	196.90	32.40	164.50	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3	---
MW3	08/18/94	196.90	35.07	161.83	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3.0	---
MW3	11/15/94	196.90	35.97	160.93	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	<3.0	<100
MW3	02/06/95	196.90	28.39	168.51	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW3	05/10/95	196.90	28.90	168.00	0.00	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
MW3	09/20/99	196.90	34.68	162.22	0.00	75.0	<0.5	11.5	1.8	18.0	1.87	<75	<0.5
MW3	Well destroyed in June 2000.												
MW4	SCREEN INTERVAL (feet bgs) 35-45												
MW4	03/02/09	---	---	---	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
MW4	03/30/09	197.62	30.94	166.68	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
MW4	04/02/09	197.62	Well surveyed.										
MW4	05/28/09	197.62	32.00	165.62	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
MW4	08/31/09	197.62	35.43	162.19	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
MW4	12/11/09	197.62	35.01	162.61	0.00	<50	<0.5	0.83	<0.5	1.1	<0.5	---	---
MW4	05/07/10	197.62	29.11	168.51	0.00	<50	<0.5	<0.5	<0.5	<1.0	<0.5	---	---
MW4	11/01/10	197.62	34.95	162.67	0.00	<50	<0.5	<0.5	<0.5	<1.0	<0.5	---	---
MW4	05/27/11	197.62	30.65	166.97	0.00	---	---	---	---	---	---	---	---
MW4	11/23/11	197.62	33.49	164.13	0.00	<50	<0.5	<0.5	<0.5	<1.0	<0.5	---	---
MW4	05/24/12	197.62	30.02	167.60	0.00	58	0.84	4.4	0.64c	3.5	<0.5	---	---
MW4	10/31/12	197.62	35.14	162.48	0.00	110	5.3	45	4.2	21	<0.5	---	---
MW4	05/02/13	197.62	32.03	165.59	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
MW4	11/09/13	197.62	36.53	161.09	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
MW4	05/12/14	197.62	33.51	164.11	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
MW4	11/19/14	197.62	36.96	160.66	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
MW4	05/13/15	197.62	34.01	163.61	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
MW4	12/16/15	197.62	37.31	160.31	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
MW4	06/15/16	197.62	34.13	163.49	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
MW4	12/20/16	197.62	34.03	163.59	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
MW4	04/27/17	197.62	28.29	169.33	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---
MW4	11/01/17	197.62	36.81	160.81	0.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---

TABLE 3 HISTORICAL GROUNDWATER MONITORING DATA,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Elevation TOC (feet)	Depth to Water (feet below TOC)	Groundwater Elevation (feet)	LPH Thickness (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW5													
MW5	03/06/09	---	Well installed.	166.30	0.00	4,200	540	140	<12	310	1,900	---	---
MW5	03/30/09	196.35	30.05	164.90	0.00	5,300	890	150	<25	140	3,600	---	---
MW5	04/02/09	196.35	Well surveyed.	161.65	0.00	5,800	550	<100	<100	<100	3,500	---	---
MW5	05/28/09	196.35	31.45	161.83	0.00	4,000b	230	<100	<100	<100	3,800	---	---
MW5	08/31/09	196.35	34.70	165.51	0.00	2,700b	73	5.3	3.6	6.5	1,700	---	---
MW5	12/11/09	196.35	34.52	162.42	0.00	2,400b	320	71	21	40	3,400	---	---
MW5	05/07/10	196.35	30.84	163.77	0.00	---	---	---	---	---	---	---	---
MW5	11/01/10	196.35	33.93	166.09	0.00	1,900b	72	2.7	3.1	8.1	3,200	---	---
MW5	05/27/11	196.35	31.65	162.41	0.00	2,900b	54	31	5.2	17	1,700	---	---
MW5	11/23/11	196.35	32.58	165.02	0.00	2,200b	220	72	8.7	47	2,700	---	---
MW5	05/24/12	196.35	30.26	160.66	0.00	2,200b	61	<0.50	3.8	7.9	1,300	---	---
MW5	10/31/12	196.35	33.94	163.71	0.00	1,300b	120	<5.0	<5.0	8.8	370	---	---
MW5	05/02/13	196.35	31.33	160.30	0.00	1,200	120	<5.0	<5.0	<5.0	490	---	---
MW5	11/09/13	196.35	35.69	163.04	0.00	1,400 HD	140	2.0 J	<2.5	4.7	120	---	---
MW5	05/12/14	196.35	32.64	163.04	0.00	1,100 HD	74	<2.5	<2.5	2.7	310	---	---
MW5	11/19/14	196.35	36.05	160.01	0.00	760	150	2.0 J	1.8 J	4.6	94	---	---
MW5	05/13/15	196.35	33.31	162.72	0.00	840 HD	150	1.4 J	1.8 J	4.1	300	---	---
MW5	12/16/15	196.35	36.34	163.55	0.00	1,000 HD	160	<5.0	<5.0	<5.0	230	---	---
MW5	06/15/16	196.35	33.63	168.81	0.00	470 HD	39	<5.0	<5.0	<5.0	230	---	---
MW5	12/20/16	196.35	32.8	160.37	0.00	380 HD	56	<2.5	<2.5	1.4 JA	87	---	---
MW5	04/27/17	196.35	27.54	166.05	0.00	---	---	---	---	---	---	---	---
MW5	11/01/17	196.35	35.98	166.05	0.00	---	---	---	---	---	---	---	---
MW6													
MW6	03/09/09	---	Well installed.	165.47	0.00	2,800	0.91	<0.50	<0.50	<0.50	4,800	---	---
MW6	03/30/09	192.41	26.94	164.37	0.00	2,800	<100	<100	<100	<100	6,000	---	---
MW6	04/02/09	192.41	Well surveyed.	161.84	0.00	4,900	<100	<100	<100	<100	6,600	---	---
MW6	05/28/09	192.41	28.04	161.63	0.00	4,900b	<100	<100	<100	<100	6,200	---	---
MW6	08/31/09	192.41	30.57	166.99	0.00	2,900b	2.7	<0.50	0.74c	<1.0	3,700	---	---
MW6	12/11/09	192.41	30.78	161.73	0.00	850b	2.1	<0.50	<0.50	<1.0	6,100	---	---
MW6	05/07/10	192.41	25.42	165.34	0.00	---	---	---	---	---	---	---	---
MW6	11/01/10	192.41	30.68	163.16	0.00	1,600b	<0.50	<0.50	<0.50	<1.0	6,400	---	---
MW6	05/27/11	192.41	27.07	166.05	0.00	2,000b	1.3c	9.7	0.97c	5.5	3,400	---	---
MW6	11/23/11	192.41	29.25	166.05	0.00	---	---	---	---	---	---	---	---
MW6	05/24/12	192.41	26.36	166.05	0.00	---	---	---	---	---	---	---	---

TABLE 3 HISTORICAL GROUNDWATER MONITORING DATA,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Elevation TOC (feet)	Depth to Water (feet below TOC)	Groundwater Elevation (feet)	LPH Thickness (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)	
MW6	10/31/12	192.41	30.74	161.67	0.00	1,400b	3.8	28	2.2	11	5,400	---	---	
MW6	05/02/13	192.41	27.91	164.50	0.00	1,900b	<0.50	<0.50	<0.50	<0.50	2,600	---	---	
MW6	11/09/13	192.41	32.15	160.26	0.00	3,600b	<40	<40	<40	<40	4,800	---	---	
MW6	05/12/14	192.41	29.28	163.13	0.00	190 HD	<5.0	<5.0	<5.0	<5.0	280	---	---	
MW6	11/19/14	192.41	32.49	159.92	0.00	420 HD	<10	<10	<10	<10	530	---	---	
MW6	05/13/15	192.41	29.81	162.60	0.00	200 HD	<10	<10	<10	<10	26	---	---	
MW6	12/16/15	192.41	32.76	159.65	0.00	62 HD	<2.5	<2.5	<2.5	<2.5	36	---	---	
MW6	06/15/16	192.41	30.01	162.40	0.00	120 HD	<0.50	<0.50	<0.50	<0.50	13	---	---	
MW6	12/20/16	192.41	29.29	163.12	0.00	71 HD	<0.50	<0.50	<0.50	<0.50	7	---	---	
MW6	04/27/17	192.41	24.46	167.95	0.00	97 HD	<5.0	<5.0	<5.0	<5.0	12	---	---	
MW6	11/01/17	192.41	32.51	159.90	0.00	120 HD	<5.0	<5.0	<5.0	<5.0	4.6 J	---	---	
MW7	SCREEN INTERVAL (feet bgs) 30-40													
MW7	03/09/09	---	Well installed.	165.19	0.00	55	<0.50	<0.50	<0.50	<0.50	66	---	---	
MW7	03/30/09	194.34	29.15	165.19	0.00	55	<0.50	<0.50	<0.50	<0.50	66	---	---	
MW7	04/02/09	194.34	Well surveyed.	165.19	0.00	55	<0.50	<0.50	<0.50	<0.50	66	---	---	
MW7	05/28/09	194.34	30.16	164.18	0.00	50	<1.0	<1.0	<1.0	<1.0	67	---	---	
MW7	08/31/09	194.34	33.31	161.03	0.00	<50	<0.50	0.60	<0.50	<0.50	12	---	---	
MW7	12/11/09	194.34	32.71	161.63	0.00	<50	0.78	1.7	0.62	2.4	31	---	---	
MW7	05/07/10	194.34	27.54	166.80	0.00	510b	<0.50	<0.50	<0.50	<1.0	700	---	---	
MW7	11/01/10	194.34	32.82	161.52	0.00	68b	<0.50	<0.50	<0.50	<1.0	140	---	---	
MW7	05/27/11	194.34	28.85	165.49	0.00	---	---	---	---	---	---	---	---	
MW7	11/23/11	194.34	31.39	162.95	0.00	190b	<0.50	<0.50	<0.50	<1.0	300	---	---	
MW7	05/24/12	194.34	28.31	166.03	0.00	---	---	---	---	---	---	---	---	
MW7	10/31/12	194.34	32.86	161.48	0.00	230b	2.9	21	1.8	9.2	290	---	---	
MW7	05/02/13	194.34	29.93	164.41	0.00	570b	<0.50	<0.50	<0.50	<0.50	790	---	---	
MW7	11/09/13	194.34	34.23	160.11	0.00	370b	<10	<10	<10	<10	460	---	---	
MW7	05/12/14	194.34	31.33	163.01	0.00	310 HD	<10	<10	<10	<10	980	---	---	
MW7	11/19/14	194.34	34.31	160.03	0.00	400 HD	<12	<12	<12	<12	660	---	---	
MW7	05/13/15	194.34	31.65	162.69	0.00	660 HD	<20	<20	<20	<20	870	---	---	
MW7	12/16/15	194.34	34.62	159.72	0.00	110 HD	<4.0	<4.0	<4.0	<4.0	220	---	---	
MW7	06/15/16	194.34	31.96	162.38	0.00	740 HD	<4.0	<4.0	<4.0	<4.0	1,200	---	---	
MW7	12/20/16	194.34	31.67	162.67	0.00	1,200 HD	<25	<25	<25	<25	1,500	---	---	
MW7	04/27/17	194.34	26.64	167.70	0.00	1,500 HD	<25	<25	<25	<25	2,500	---	---	
MW7	11/01/17	194.34	34.51	159.83	0.00	580 HD	<2.5	<2.5	<2.5	<2.5	890	---	---	
MW8	SCREEN INTERVAL (feet bgs) 30-40													

TABLE 3 HISTORICAL GROUNDWATER MONITORING DATA,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Elevation TOC (feet)	Depth to Water (feet below TOC)	Groundwater Elevation (feet)	LPH Thickness (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW8	03/04/09	---	Well installed.	165.61	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	03/30/09	192.96	27.35	165.61	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	04/02/09	192.96	Well surveyed.	164.24	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	05/28/09	192.96	28.72	161.03	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	08/31/09	192.96	31.93	161.72	0.00	<50	0.74	1.6	0.59	2.3	<0.50	---	---
MW8	12/11/09	192.96	31.24	167.28	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW8	05/07/10	192.96	25.68	161.78	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW8	11/01/10	192.96	31.18	165.41	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW8	05/27/11	192.96	27.55	163.22	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW8	11/23/11	192.96	29.74	166.03	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW8	05/24/12	192.96	26.93	161.61	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW8	10/31/12	192.96	31.35	164.52	0.00	75	2.5	19	1.7	8.7	<0.50	---	---
MW8	05/02/13	192.96	28.44	160.07	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	11/09/13	192.96	32.89	162.69	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	05/12/14	192.96	30.27	159.80	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	11/19/14	192.96	33.16	162.61	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	05/13/15	192.96	30.35	159.55	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	12/16/15	192.96	33.41	162.28	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	06/15/16	192.96	30.68	163.58	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	12/20/16	192.96	29.38	168.22	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	04/27/17	192.96	24.74	159.78	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	11/01/17	192.96	33.18	165.58	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	SCREEN INTERVAL (feet bgs) 30-40												
MW9	03/05/09	---	Well installed.	166.85	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	03/30/09	195.16	28.31	165.47	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	04/02/09	195.16	Well surveyed.	161.96	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	05/28/09	195.16	29.69	162.54	0.00	<50	0.73	1.7	0.54	2.2	<0.50	---	---
MW9	08/31/09	195.16	33.20	168.57	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW9	12/11/09	195.16	32.62	162.71	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW9	05/07/10	195.16	26.59	165.54	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW9	11/01/10	195.16	32.45	164.60	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW9	05/27/11	195.16	29.62	167.22	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW9	11/23/11	195.16	30.56	162.50	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW9	05/24/12	195.16	27.94	165.58	0.00	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---
MW9	10/31/12	195.16	32.66	165.58	0.00	140	6.9	38	2.7	13	<0.50	---	---
MW9	05/02/13	195.16	29.58	165.58	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---

TABLE 3 HISTORICAL GROUNDWATER MONITORING DATA,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Elevation TOC (feet)	Depth to Water (feet below TOC)	Groundwater Elevation (feet)	LPH Thickness (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW9	11/09/13	195.16	Well inaccessible.										
MW9	05/12/14	195.16	Well inaccessible.										
MW9	11/19/14	195.16	34.60	160.56	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50		
MW9	05/13/15	195.16	31.66	163.50	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50		
MW9	12/16/15	195.16	34.84	160.32	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50		
MW9	06/15/16	195.16	31.98	163.18	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50		
MW9	12/20/16	195.16	Well inaccessible.										
MW9	04/27/17	195.16	25.79	169.37	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50		
MW9	11/01/17	195.16	34.50	160.66	0.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50		
SCREEN INTERVAL (feet bgs) 29-39.5													
RW1	12/22/11	---	Well installed.										
RW1	12/30/11	195.15	Well surveyed.										
RW1	05/24/12	195.15	28.55	166.60	0.00	5,500b	920	5.9c	51	14	2,500		
RW1	10/31/12	195.15	---	---	---	---	---	---	---	---	---		
RW1	05/02/13	195.15	30.27	164.88	0.00	4,300b	1,200	<2.5	41	14	2,300		
RW1	11/09/13	195.15	34.64	160.51	0.00	810b	210	<10	<10	<10	520		
RW1	05/12/14	195.15	31.54	163.61	0.00	830 HD	450	<10	13	<10	490		
RW1	11/19/14	195.15	34.94	160.21	0.00	910 HD	450	<10	<10	<10	590		
RW1	05/13/15	195.15	32.26	162.89	0.00	1,300 HD	560	<5.0	8.1	2.4 JA	480		
RW1	12/16/15	195.15	35.22	159.93	0.00	310 HD	150	<5.0	<5.0	<5.0	110		
RW1	06/15/16	195.15	32.4	162.75	0.00	1,300	850	3.6 J	17	5.5	450		
RW1	12/20/16	195.15	31.54	163.61	0.00	2,400 HD	1,100	<20	18 J	<20	540		
RW1	04/27/17	195.15	26.62	168.53	0.00	1,600 HD	1,100	<20	41	21	660		
RW1	11/01/17	195.15	34.95	160.20	0.00	880 HD	520	5.2 J	11 J	9.8 JA	290		

Grab Groundwater Samples

Pit Water	06/14/02	---	---	---	---	5,600	140	840	100	530	12,000		
UST Pit	06/19/02	---	---	---	---	680	2.7	36	18	130	640		
W-38-B11	11/14/07	---	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	<0.50		
W-15-B12	11/13/07	---	---	---	---	8,400	67	<5.0	140	150	78		
W-40-B13	11/12/07	---	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	0.53		
W-15-B14	11/13/07	---	---	---	---	2,500	1.7	3.0	26	13	16		
W-38-B15	11/15/07	---	---	---	---	18,000	3,400	2,500	330	2,000	12,000		
W-40-B16	11/15/07	---	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	7.7		

TABLE 4 GROUNDWATER ANALYTICAL RESULTS FOR DETECTED VOCs,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TAME (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	Naphthalene (µg/L)
MW1	7/17/1992 - 09/20/1999		Not analyzed for these analytes.							
MW1			Well destroyed in June 2000.							
MW2	7/17/1992 - 09/20/1999		Not analyzed for these analytes.							
MW2			Well destroyed in June 2000.							
MW3	7/17/1992 - 09/20/1999		Not analyzed for these analytes.							
MW3			Well destroyed in June 2000.							
MW4	03/30/09	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	05/28/09	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	08/31/09	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	12/11/09	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	05/07/10	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	11/01/10	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	05/27/11	b	---	---	---	---	---	---	---	---
MW4	11/23/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	05/24/12	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	10/31/12	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	05/03/13	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW4	11/09/13	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW4	05/12/14	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	<1.0
MW4	11/19/14	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW4	05/13/15	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW4	12/16/15	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW4	06/15/16	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW4	12/20/16	--	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW4	04/27/17	--	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW4	11/01/17	--	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW5	03/30/09	---	<12	17	<12	450	<12	<12	---	---
MW5	05/28/09	---	<25	<25	<25	530	<25	<25	---	---
MW5	08/31/09	---	<100	<100	<100	<1,000	<100	<100	---	---
MW5	12/11/09	---	<100	<100	<100	2,000	<100	<100	---	---
MW5	05/07/10	---	<25	<25	<25	400	<25	<25	---	---
MW5	11/01/10	---	<50	<50	<50	1,500	<50	<50	---	---
MW5	05/27/11	b	---	---	---	---	---	---	---	---
MW5	11/23/11	---	<50	<50	<50	<500	<50	<50	---	---
MW5	05/24/12	---	<50	<50	<50	1,400	<50	<50	---	---
MW5	10/31/12	---	<50	<50	<50	730	<50	<50	---	---
MW5	05/03/13	---	<20	<20	<20	590	<20	<20	---	---
MW5	11/09/13	---	<5.0	<5.0	<5.0	1,100	<5.0	<5.0	---	---
MW5	05/12/14	---	<5.0	<5.0	<5.0	1,000	<5.0	<5.0	---	<10
MW5	11/19/14	---	<2.5	<2.5	<2.5	600	<2.5	<2.5	---	---
MW5	05/13/15	---	<2.5	<2.5	<2.5	950	<2.5	<2.5	---	---
MW5	12/16/15	---	<2.5	<2.5	<2.5	790	<2.5	<2.5	---	---
MW5	06/15/16	---	<2.5	<2.5	<2.5	720	<2.5	<2.5	---	---
MW5	12/20/16	---	<5.0	4.7 J	<5.0	680	<5.0	<5.0	---	---
MW5	04/27/17	--	<5.0	<5.0	<5.0	240	<5.0	<5.0	---	---
MW5	11/01/17	--	<2.5	1.8 J	<2.5	530	<2.5	<2.5	---	---
MW6	03/30/09	---	<0.50	<0.50	1.3	410	<0.50	0.82	---	---
MW6	05/28/09	---	<100	<100	<100	<1,000	<100	<100	---	---
MW6	08/31/09	---	<100	<100	<100	1,100	<100	<100	---	---
MW6	12/11/09	---	<100	<100	<100	2,600	<100	<100	---	---
MW6	05/07/10	---	<100	<100	<100	<1,000	<100	<100	---	---

TABLE 4 GROUNDWATER ANALYTICAL RESULTS FOR DETECTED VOCs,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TAME (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	Naphthalene (µg/L)
MW6	11/01/10	---	<50	<50	<50	2,400	<50	<50	---	---
MW6	05/27/11	b ---	---	---	---	---	---	---	---	---
MW6	11/23/11	---	<100	<100	<100	<1,000	<100	<100	---	---
MW6	05/24/12	---	<100	<100	<100	2,700	<100	<100	---	---
MW6	10/31/12	---	<100	<100	<100	<1,000	<100	<100	---	---
MW6	05/02/13	---	<40	<40	<40	570	<40	<40	---	---
MW6	11/09/13	---	<40	<40	<40	2,100	<40	<40	---	---
MW6	05/12/14	---	<5.0	<5.0	<5.0	1,700	<5.0	<5.0	---	<10
MW6	11/19/14	---	<10	<10	<10	2,100	<10	<10	---	---
MW6	05/13/15	---	<10	<10	<10	2,400	<10	<10	---	---
MW6	12/16/15	---	<2.5	<2.5	<2.5	530	<2.5	<2.5	---	---
MW6	06/15/16	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW6	12/20/16	---	<0.50	<0.50	<0.50	2,400	<0.50	<0.50	---	---
MW6	04/27/17	--	<5.0	<5.0	<5.0	2,000	<5.0	<5.0	---	---
MW6	11/01/17	--	<5.0	<5.0	<5.0	2,100	<5.0	<5.0	---	---
MW7	03/30/09	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW7	05/28/09	---	<1.0	<1.0	<1.0	<10	<1.0	<1.0	---	---
MW7	08/31/09	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW7	12/11/09	---	<0.50	<0.50	<0.50	12	<0.50	<0.50	---	---
MW7	05/07/10	---	<0.50	<0.50	<0.50	130	<0.50	<0.50	---	---
MW7	11/01/10	---	<2.5	<2.5	<2.5	27	<2.5	<2.5	---	---
MW7	05/27/11	b ---	---	---	---	---	---	---	---	---
MW7	11/23/11	---	<5.0	<5.0	<5.0	<50	<5.0	<5.0	---	---
MW7	05/24/12	b ---	---	---	---	---	---	---	---	---
MW7	10/31/12	---	<5.0	<5.0	<5.0	<50	<5.0	<5.0	---	---
MW7	05/02/13	---	<5.0	<5.0	<5.0	57	<5.0	<5.0	---	---
MW7	11/09/13	---	<10	<10	<10	<200	<10	<10	---	---
MW7	05/12/14	---	<10	<10	<10	<200	<10	<10	---	<20
MW7	11/19/14	---	<12	<12	<12	<250	<12	<12	---	---
MW7	05/13/15	---	<20	<20	<20	<400	<20	<20	---	---
MW7	12/16/15	---	<4.0	<4.0	<4.0	<80	<4.0	<4.0	---	---
MW7	06/15/16	---	<4.0	<4.0	<4.0	380	<4.0	<4.0	---	---
MW7	12/20/16	---	<25	<25	<25	210 J	<25	<25	---	---
MW7	04/27/17	--	<25	<25	<25	<500	<25	<25	---	---
MW7	11/01/17	--	<2.5	<2.5	<2.5	90	<2.5	<2.5	---	---
MW8	03/30/09	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	05/28/09	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	08/31/09	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	12/11/09	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	05/07/10	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	11/01/10	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	05/27/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	11/23/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	05/24/12	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	10/31/12	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	05/02/13	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	11/09/13	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW8	05/12/14	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	<1.0
MW8	11/19/14	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW8	05/13/15	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW8	12/16/15	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW8	06/15/16	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW8	12/20/16	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW8	04/27/17	--	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---

TABLE 4 GROUNDWATER ANALYTICAL RESULTS FOR DETECTED VOCs,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TAME (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	Naphthalene (µg/L)
MW8	11/01/17	--	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW9	03/30/09	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	05/28/09	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	08/31/09	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	12/11/09	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	05/07/10	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	11/01/10	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	05/27/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	11/23/11	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	05/24/12	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	10/31/12	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	05/02/13	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW9	11/09/13	b	Well inaccessible.							
MW9	11/19/14	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW9	05/13/15	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW9	12/16/15	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW9	06/15/16	---	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW9	12/20/16	b	Well inaccessible.							
MW9	04/27/17	--	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
MW9	11/01/17	--	<0.50	<0.50	<0.50	<10	<0.50	<0.50	---	---
RW1	05/24/12	---	<50	<50	<50	1,900	<50	<50	---	---
RW1	10/31/12	b	---	---	---	---	---	---	---	---
RW1	05/03/13	---	<40	<40	<40	880	<40	<40	---	---
RW1	11/09/13	---	<10	<10	<10	1,100	<10	<10	---	---
RW1	05/12/14	---	<10	<10	<10	840	<10	<10	---	<20
RW1	11/19/14	---	<10	<10	<10	1,300	<10	<10	---	<20
RW1	05/13/15	---	<5.0	<5.0	<5.0	880	<5.0	<5.0	---	---
RW1	12/16/15	---	<5.0	<5.0	<5.0	1,300	<5.0	<5.0	---	---
RW1	06/15/16	---	<5.0	<5.0	<5.0	1,300	<5.0	<5.0	---	---
RW1	12/20/16	---	<20	32	<20	1,600	<20	<20	---	---
RW1	04/27/17	--	<20	<20	<20	1,300	<20	<20	---	---
RW1	11/01/17	--	<12	14	<12	2,200	<12	<12	---	---
Grab Groundwater Samples										
Pit Water	06/14/02	11.5a	---	---	---	---	---	---	---	---
UST Pit	06/19/02	13.5a	---	---	---	---	---	---	---	---
W-38-B11	11/14/07	38	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<50	---
W-15-B12	11/13/07	15	<5.0	<5.0	<5.0	<100	<5.0	<5.0	<500	---
W-40-B13	11/12/07	40	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<50	---
W-15-B14	11/13/07	15	<1.0	<1.0	<1.0	<20	<1.0	<1.0	<100	---
W-38-B15	11/15/07	38	<25	<25	<25	1,900	<25	<25	<2,500	---
W-40-B16	11/15/07	40	<0.50	<0.50	<0.50	<10	<0.50	<0.50	85	---
W-37-B17	11/13/07	37	<0.50	<0.50	<0.50	58	<0.50	<0.50	<50	---
W-38-B18	11/12/07	38	<12	<12	<12	<250	<12	<12	<1,200	---
W-35-B19	03/03/09	35	<50	<50	<50	<500	<50	<50	<5,000	---
W-35-B20	03/03/09	35	<0.50	<0.50	<0.50	12	<0.50	<0.50	<50	---
W-35-B21	03/03/09	35	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<50	---

EDB 1,2-Dibromoethane analyzed using EPA Method 8260B.
1,2-DCA 1,2-Dichloroethane analyzed using EPA Method 8260B.

TABLE 4 GROUNDWATER ANALYTICAL RESULTS FOR DETECTED VOCs,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Depth (feet)	EDB (µg/L)	1,2-DCA (µg/L)	TAME (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	Naphthalene (µg/L)
-------------	------	--------------	------------	----------------	-------------	------------	-------------	-------------	----------------	--------------------

- TBA Tertiary butyl alcohol analyzed using EPA Method 8260B.
- TAME Tertiary amyl methyl ether analyzed using EPA Method 8260B.
- ETBE Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
- DIPE Di-isopropyl ether analyzed using EPA Method 8260B.
- Ethanol Ethanol analyzed using EPA Method 8260B.
- µg/L Micrograms per liter.
- Not sampled/Not analyzed/Not measured/Not applicable.
- a Approximate depth to groundwater surface at time of sampling.
- b Well inaccessible.

Notes: Data prior to 1999 provided by EA Engineering, Science, and Technology, data prior to 2013 provided by Cardno ERI.

- B Analyte was present in the associated method blank.
- J Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
- QO Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.

TABLE 5 NATURAL ATTENUATION PARAMETER ANALYTICAL RESULTS,
FORMER MOBIL SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Laboratory Parameters							Field Parameters					
		Alkalinity as CaCO3 (mg/L)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Nitrate-N (mg/L)	Methane (µg/L)	Temperature (Celsius)	pH	EC (µS/cm)	Dissolved Solids (mg/L)	ORP (mV)	DO (mg/L)		
MW4	05/13/15	a	172	<0.100	68	2.4	0.173 J	18.1	7.12	584.1	645.6	--	5.11	
MW4	12/16/15	a	169	<0.100	65	2.5	0.358 J	18.4	7.18	540.2	365.7	--	--	
MW4	06/15/16	a	170	<0.100	63	2.2	0.0470 J	18.8	6.97	545.9	371.6	--	--	
MW4	12/20/16	a	175	<0.100	63	2.5	0.0650 J	18.2	7.05	534.7	366.4	--	--	
MW4	04/27/17	a	172	<0.100	63	2.6	0.0530 J	19.3	7.23	546.6	373.6	--	--	
MW4	11/01/17	a	163	<0.100	64	2.8	0.0500 J	19.0	6.88	553.1	378.9	--	--	
MW5	05/13/15	a	324	2.15	32	0.76	28.1	17.8	7.03	870.1	593.8	--	3.98	
MW5	12/16/15	a	352	2.69	28	0.36	25.0	17.5	6.66	839.2	584.1	--	--	
MW5	06/15/16	a	356	1.97	30	0.59	28.1	18.5	6.45	861.8	599.3	--	--	
MW5	12/20/16	a	382	2.14	26	0.22	37.7	18.2	6.58	877.6	589.7	--	--	
MW5	04/27/17	a	308	2.80	43	0.54	53.4	18.5	6.59	735.0	507.6	--	--	
MW5	11/01/17	a	336	1.54	29	0.29	35.1	18.0	6.31	729.0	503.4	--	--	
MW6	05/13/15	a	427	<0.100	42	0.35	5.09	18.0	7.00	945.4	660.1	--	4.32	
MW6	12/16/15	a	484	<0.100	43	0.14	2.71	18.4	6.89	963.5	669.3	--	--	
MW6	06/15/16	a	471	<0.100	38	0.26	7.05	19.4	6.65	972.4	681.4	--	--	
MW6	12/20/16	a	501	<0.100	35	0.31	10.2	18.5	6.90	1,010	709.2	--	--	
MW6	04/27/17	a	428	<0.100	36	0.43	7.10	19.3	7.04	911.1	634.8	--	--	
MW6	11/01/17	a	513	0.0713 J	35	0.22	7.90	18.7	6.50	1,003	702.9	--	--	
MW7	05/13/15	a	254	<0.100	61	1.6	1.67	18.5	7.16	719.1	510.2	--	4.34	
MW7	12/16/15	a	222	<0.100	64	1.8	8.51	19.4	6.72	637.0	437.9	--	--	
MW7	06/15/16	a	270	<0.100	58	1.3	7.54	19.8	6.71	726.0	499.3	--	--	
MW7	12/20/16	a	276	<0.100	63	1.5	3.72	19.5	6.74	727.0	500.4	--	--	
MW7	04/27/17	a	342	<0.100	56	1.3	0.796 J	19.9	6.95	830.3	575.4	--	--	
MW7	11/01/17	a	251	<0.100	60	2.0	2.66	19.5	6.60	656.1	450.5	--	--	
MW8	05/13/15	a	208	<0.100	42	7.3	0.983 J	17.7	7.16	595.3	410.1	--	5.07	
MW8	12/16/15	a	229	<0.100	42	8.3	0.182	17.5	7.09	769.7	533.4	--	--	
MW8	06/15/16	a	198	<0.100	38	7.5	0.152 J	18.0	6.74	573.2	396.4	--	--	
MW8	12/20/16	a	214	<0.100	45	9.2	0.0710 J	17.7	7.16	614.4	425.5	--	--	
MW8	04/27/17	a	158	<0.100	34	8.2	0.241 J	18.0	7.54	528.1	359.0	--	--	

TABLE 3 HISTORICAL GROUNDWATER MONITORING DATA,
FORMER EXXON SERVICE STATION 70234,
3450 35TH AVENUE, OAKLAND, CALIFORNIA

Well Number	Date	Elevation TOC (feet)	Depth to Water (feet below TOC)	Groundwater Elevation (feet)	LPH Thickness (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260B (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
W-37-B17	11/13/07	---	---	---	---	630	1.8	<0.50	4.1	1.4	2,200	---	---
W-38-B18	11/12/07	---	---	---	---	4,300	52	<12	56	96	1,400	---	---
W-35-B19	03/03/09	---	---	---	---	4,400	<0.50	<0.50	<0.50	<1.0	7,100	---	---
W-35-B20	03/03/09	---	---	---	---	640	<0.50	<0.50	<0.50	<1.0	440	---	---
W-35-B21	03/03/09	---	---	---	---	<50	<0.50	<0.50	<0.50	<1.0	1.4	---	---

TOC Top of casing.
LPH Liquid-phase hydrocarbons.
TPH-g Total Petroleum Hydrocarbons as gasoline.
MTBE Methyl tertiary butyl ether.

Total Pb Total lead analyzed using EPA Method 6010.
Organic Pb Organic lead analyzed using CA DHS LUFT method.

- a Well purged prior to sampling.
- b Well inaccessible.
- c Well sampled the following day.

HD Chromat. profile inconsistent with the ref. fuel stnds.
J Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA Analyte positively identified but quantitation is an estimate.

Notes: Data prior to 1999 provided by EA Engineering, Science, and Technology. Data prior to 2013 provided by Cardno ERI.

bgs Below ground surface.
µg/L Micrograms per liter.
-- Not sampled or not analyzed.

ATTACHMENT B-5

Soil Data

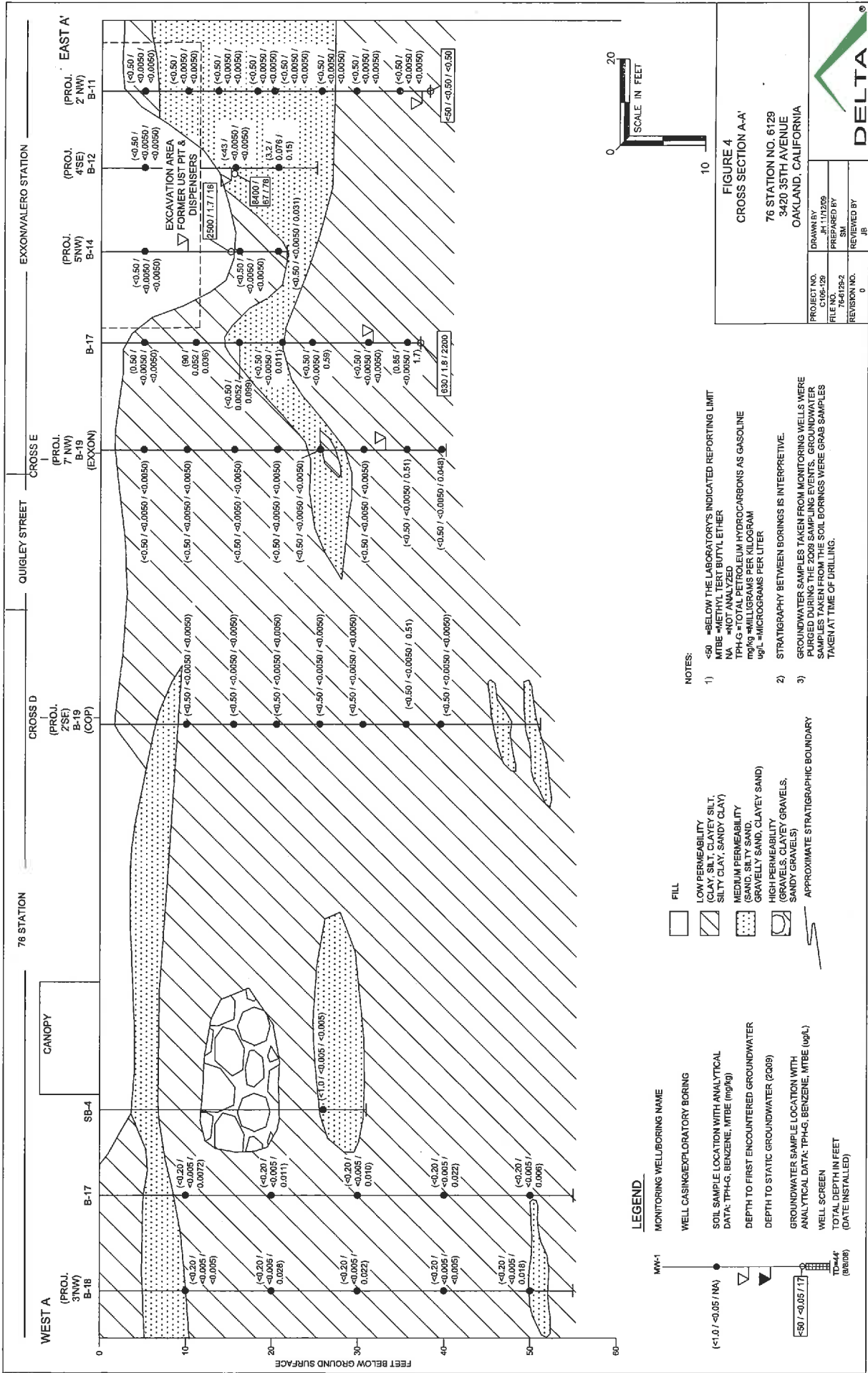


FIGURE 4
CROSS SECTION A-A
 76 STATION NO. 6129
 3420 35TH AVENUE
 OAKLAND, CALIFORNIA

PROJECT NO.	CL06-028
FILE NO.	76-8189-2
REVISION NO.	0
DRAWN BY	MM 1/12/09
PREPARED BY	SM
REVIEWED BY	JB



- LEGEND**
- MONITORING WELL/BORING NAME
 - WELL CASING/EXPLORATORY BORING
 - SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, BENZENE, MTBE (mg/kg)
 - DEPTH TO FIRST ENCOUNTERED GROUNDWATER
 - DEPTH TO STATIC GROUNDWATER (2009)
 - GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, BENZENE, MTBE (ug/L)
 - WELL SCREEN
 - TOTAL DEPTH IN FEET (DATE INSTALLED)

- FILL**
- LOW PERMEABILITY CLAY, SILT, CLAYEY SILT, SILTY CLAY, SANDY CLAY
 - MEDIUM PERMEABILITY SAND, SILTY SAND, GRAVELLY SAND, CLAYEY SAND
 - HIGH PERMEABILITY GRAVELS, CLAYEY GRAVELS, SANDY GRAVELS
 - APPROXIMATE STRATIGRAPHIC BOUNDARY

- NOTES:**
- <50 = BELOW THE LABORATORY'S INDICATED REPORTING LIMIT
 MTBE = METHYL TERT BUTYL ETHER
 NA = NOT ANALYZED
 TPH-G = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 mg/kg = MILLIGRAMS PER KILOGRAM
 ug/L = MICROGRAMS PER LITER
 - STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.
 - GROUNDWATER SAMPLES TAKEN FROM MONITORING WELLS WERE PURGED DURING THE 2009 SAMPLING EVENTS. GROUNDWATER SAMPLES TAKEN FROM THE SOIL BORINGS WERE GRAB SAMPLES TAKEN AT TIME OF DRILLING.

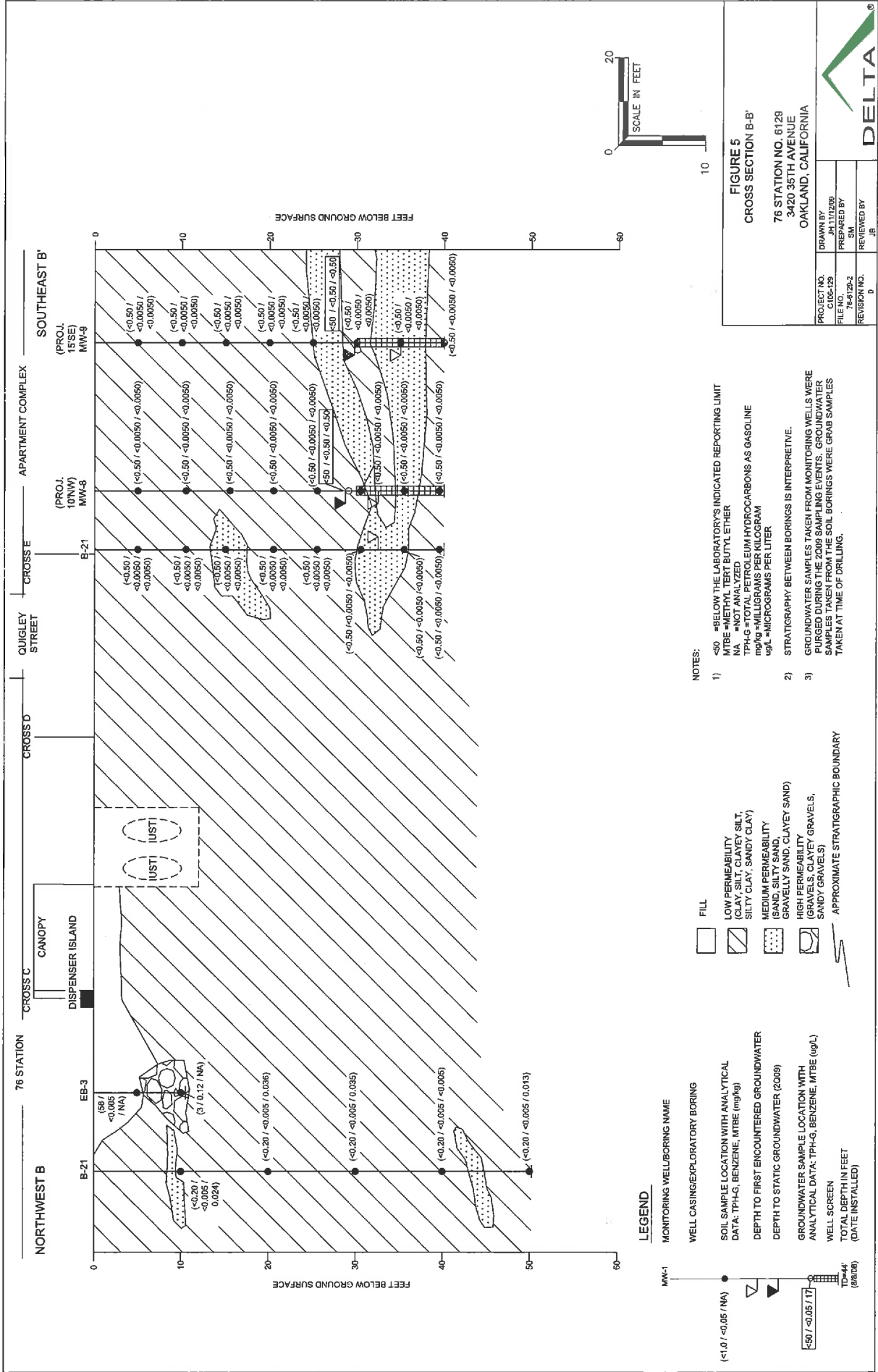


FIGURE 5
CROSS SECTION B-B'

76 STATION NO. 6129
 3420 35TH AVENUE
 OAKLAND, CALIFORNIA

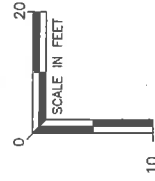
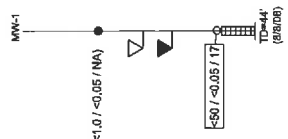
PROJECT NO. C106-129
 FILE NO. 76-8129-2
 REVISION NO. 0

DRAWN BY: JH 11/12/09
 PREPARED BY: SM
 REVIEWED BY: JB

- NOTES:**
- <50 = BELOW THE LABORATORY'S INDICATED REPORTING LIMIT
 MTBE = METHYL TERT BUTYL ETHER
 NA = NOT ANALYZED
 TPH-G = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 mg/kg = MILLIGRAMS PER KILOGRAM
 ug/L = MICROGRAMS PER LITER
 - STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.
 - GROUNDWATER SAMPLES TAKEN FROM MONITORING WELLS WERE PURGED DURING THE 2009 SAMPLING EVENTS. GROUNDWATER SAMPLES TAKEN FROM THE SOIL BORINGS WERE GRAB SAMPLES TAKEN AT TIME OF DRILLING.

- LEGEND**
- FILL
 - LOW PERMEABILITY (CLAY, SILT, CLAYEY SILT, SILTY CLAY, SANDY CLAY)
 - MEDIUM PERMEABILITY (SAND, SILTY SAND, GRAVELLY SAND, CLAYEY SAND)
 - HIGH PERMEABILITY (GRAVELS, CLAYEY GRAVELS, SANDY GRAVELS)
 - APPROXIMATE STRATIGRAPHIC BOUNDARY

- LEGEND**
- MONITORING WELL/BORING NAME
 - WELL CASING/EXPLORATORY BORING
 - SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, BENZENE, MTBE (mg/kg)
 - DEPTH TO FIRST ENCOUNTERED GROUNDWATER
 - DEPTH TO STATIC GROUNDWATER (2009)
 - GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, BENZENE, MTBE (ug/L)
 - WELL SCREEN
 - TOTAL DEPTH IN FEET (DATE INSTALLED)



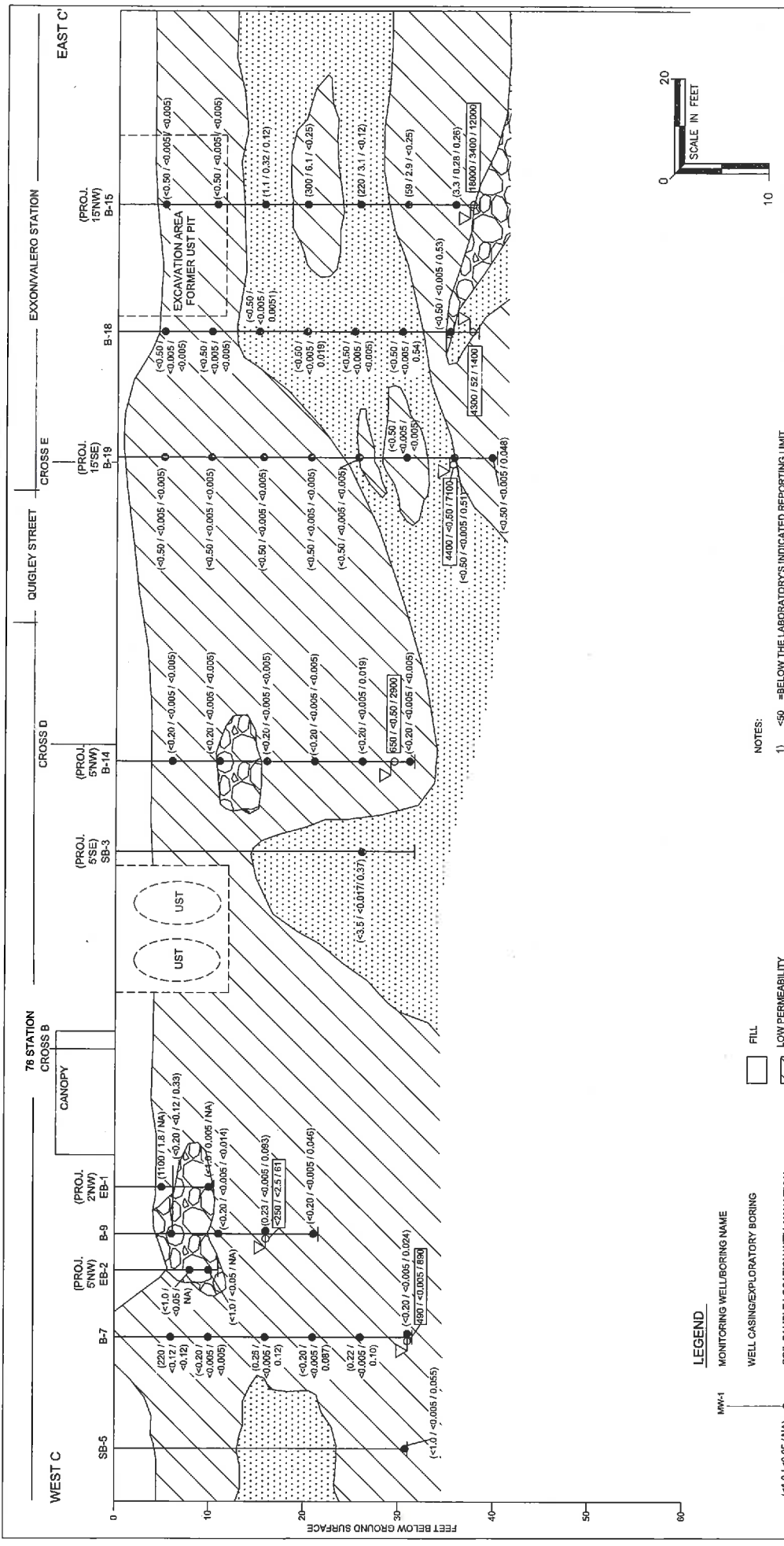
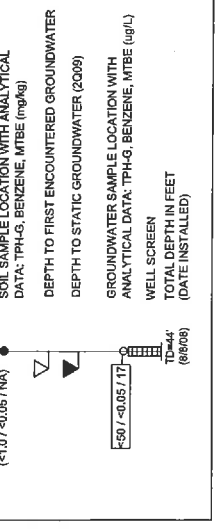


FIGURE 6
CROSS SECTION C-C
 76 STATION NO. 6129
 3420 35TH AVENUE
 OAKLAND, CALIFORNIA

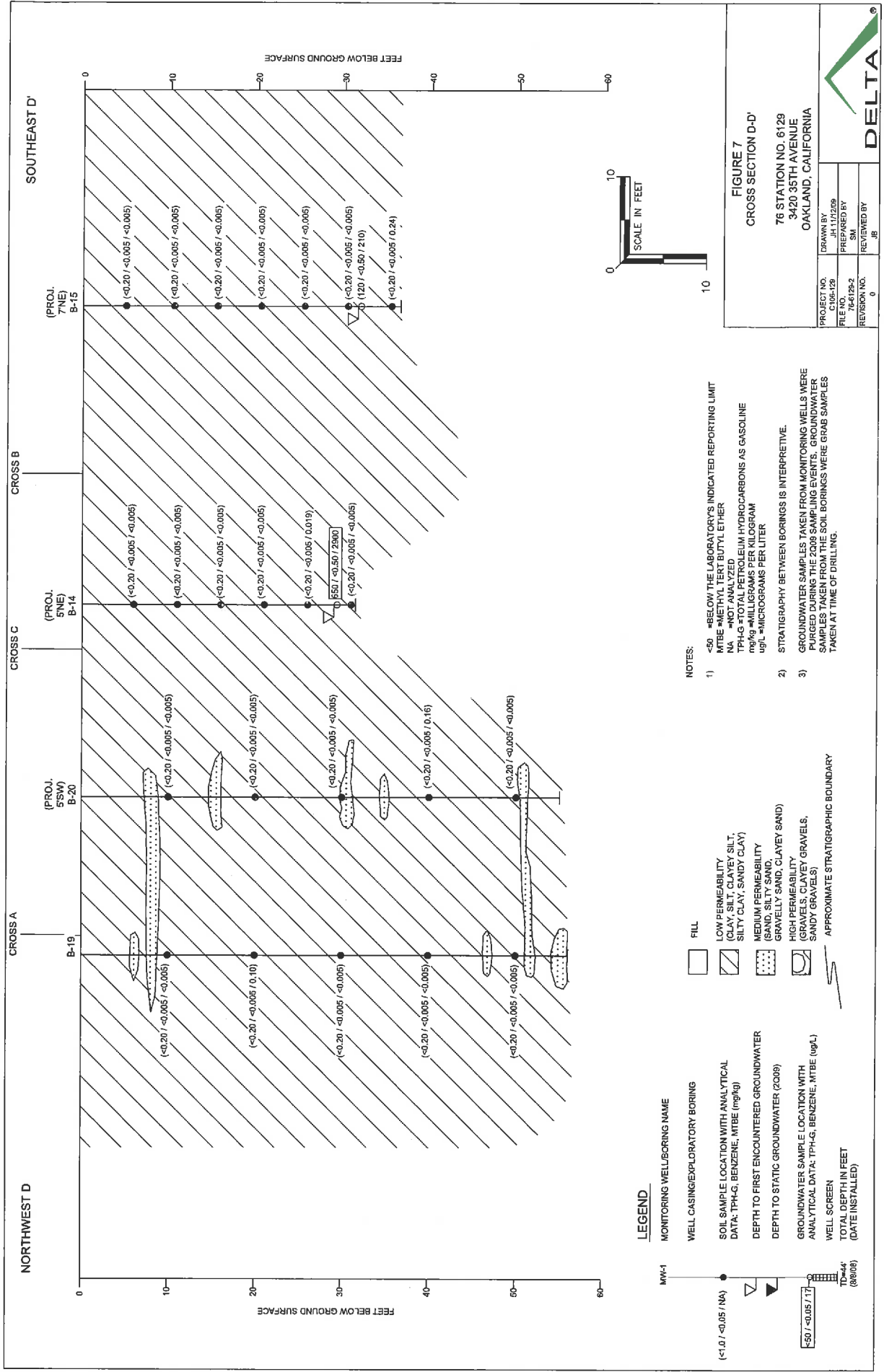
PROJECT NO.	76-9129-2
FILE NO.	0
REVISION NO.	0
DRAWN BY	JH 110609
PREPARED BY	SM
REVIEWED BY	JB

- NOTES:**
- 1) <50 =BELOW THE LABORATORY'S INDICATED REPORTING LIMIT
 MTBE =METHYL TERT BUTYL ETHER
 NA =NOT ANALYZED
 TPH-G =TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 mg/kg =MILLIGRAMS PER KILOGRAM
 ug/L =MICROGRAMS PER LITER
 - 2) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.
 - 3) GROUNDWATER SAMPLES TAKEN FROM MONITORING WELLS WERE PURGED DURING THE 2009 SAMPLING EVENTS. GROUNDWATER SAMPLES TAKEN FROM THE SOIL BORINGS WERE GRAB SAMPLES TAKEN AT TIME OF DRILLING.

- LEGEND**
- | | | |
|---|-------|---------------------|
| MONITORING WELL/BORING NAME | MM-41 | (-1.0 / -0.05 / NA) |
| WELL CASING/EXPLORATORY BORING | TD-44 | (8E08) |
| SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, BENZENE, MTBE (mg/kg) | | |
| DEPTH TO FIRST ENCOUNTERED GROUNDWATER | | |
| DEPTH TO STATIC GROUNDWATER (2009) | | |
| GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, BENZENE, MTBE (ug/L) | | |
| WELL SCREEN | | |
| TOTAL DEPTH IN FEET (DATE INSTALLED) | | |
- FILL**
- LOW PERMEABILITY (CLAY, SILT, CLAYEY SILT, SILTY CLAY, SANDY CLAY)
 - MEDIUM PERMEABILITY (SAND, SILTY SAND, GRAVELLY SAND, CLAYEY SAND)
 - HIGH PERMEABILITY (COARSE SAND, SANDY GRAVELS)
- APPROXIMATE STRATIGRAPHIC BOUNDARY



DELTA



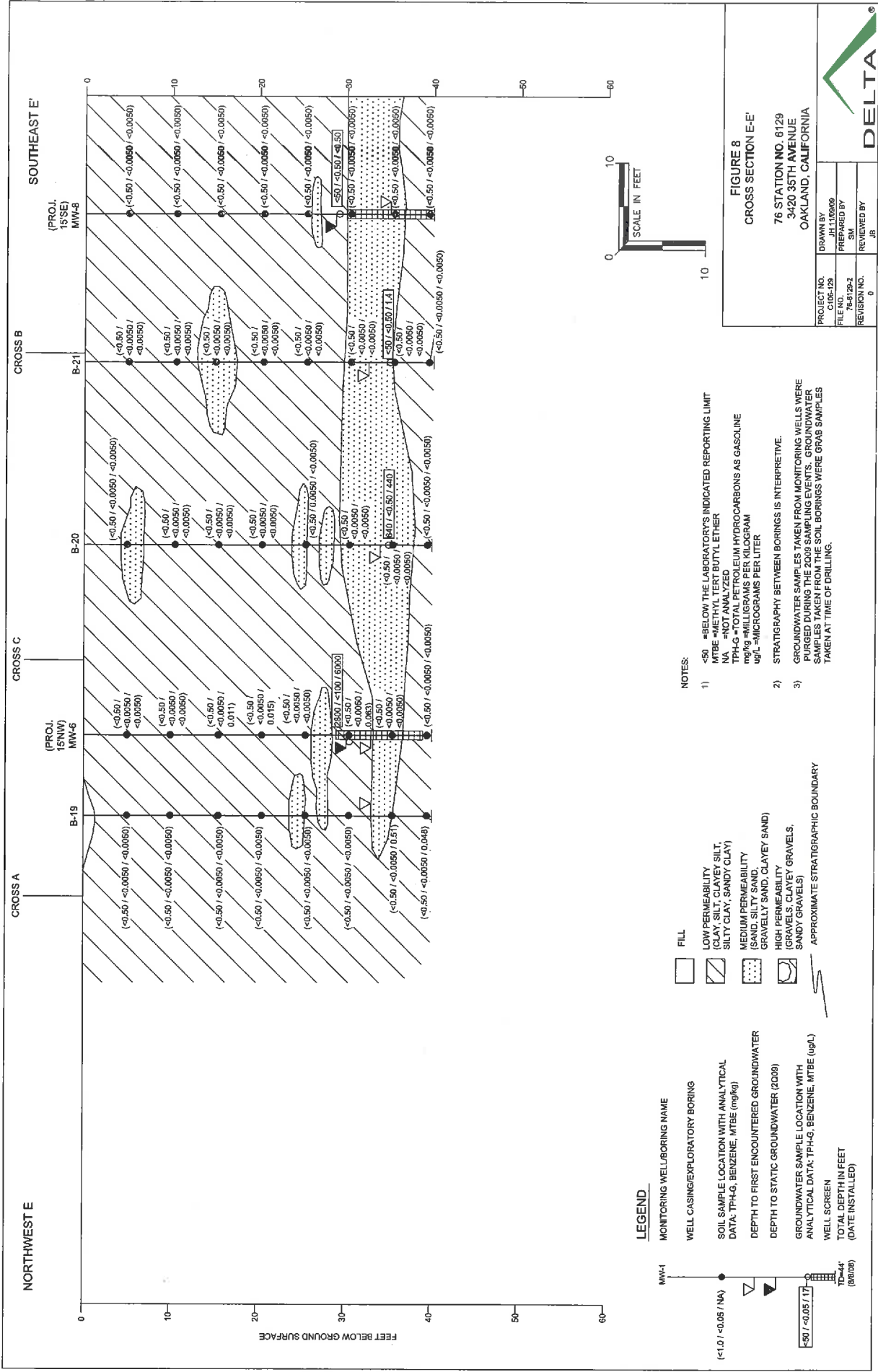


FIGURE 8
CROSS SECTION E-E'

76 STATION NO. 6129
 3420 35TH AVENUE
 OAKLAND, CALIFORNIA

PROJECT NO.	DRIVEN BY
C105-129	JH.L108069
FILE NO.	PREPARED BY
76-9129-2	SM
REVISION NO.	REVIEWED BY
0	JR

- NOTES:**
- <50 = BELOW THE LABORATORY'S INDICATED REPORTING LIMIT
 MTBE = METHYL TERT BUTYL ETHER
 NA = NOT ANALYZED
 TPH-G = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 mg/kg = MILLIGRAMS PER KILOGRAM
 ug/L = MICROGRAMS PER LITER
 - STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.
 - GROUNDWATER SAMPLES TAKEN FROM MONITORING WELLS WERE PURGED DURING THE 2009 SAMPLING EVENTS. GROUNDWATER SAMPLES TAKEN FROM THE SOIL BORINGS WERE GRAB SAMPLES TAKEN AT TIME OF DRILLING.

- LEGEND**
- MONITORING WELLBORING NAME
 - WELL CASING/EXPLORATORY BORING
 - SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, BENZENE, MTBE (mg/kg)
 - DEPTH TO FIRST ENCOUNTERED GROUNDWATER
 - DEPTH TO STATIC GROUNDWATER (2009)
 - GROUNDWATER SAMPLER E LOCATION WITH ANALYTICAL DATA: TPH-G, BENZENE, MTBE (ug/L)
 - WELL SCREEN
 - TOTAL DEPTH IN FEET (DATE INSTALLED)
- FILL**
- LOW PERMEABILITY (CLAY, SILTY CLAYEY SILT, SILTY CLAY, SANDY CLAY)
 - MEDIUM PERMEABILITY (SAND, SILTY SAND, GRAVELLY SAND, CLAYEY SAND)
 - HIGH PERMEABILITY (GRAVELS, CLAYEY GRAVELS, SANDY GRAVELS)
 - APPROXIMATE STRATIGRAPHIC BOUNDARY

Table 1

LABORATORY ANALYTICAL RESULTS OF SOIL SAMPLES

76 Station 6129
3420 - 35th Avenue
Oakland, California

Sample ID	Sample Depth (feet)	Sample Date	TPHg (mg/kg)	O&G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Ethanol (mg/kg)	Total Lead (mg/kg)
SB-1-31	31	11/12/03	ND<3.4	ND<50	ND<0.017	ND<0.017	ND<0.017	ND<0.017	0.410	ND<0.034	ND<0.034	ND<0.017	ND<0.017	NA	NA	ND<0.340	3.9
SB-2	-	Not Collected															
SB-3-26	26	11/12/03	ND<3.5	NA	ND<0.017	ND<0.017	ND<0.017	ND<0.017	0.370	ND<0.035	ND<0.035	ND<0.017	ND<0.017	NA	NA	ND<0.350	NA
SB-4-26	26	11/13/03	ND<1	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.010	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.1	NA
SB-5-31	31	11/13/03	ND<1	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.055	ND<0.005	ND<0.010	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.1	5.8

feet = feet below ground surface

TPHg = total petroleum hydrocarbons as gasoline using EPA Method 8260

O&G = oil and grease using EPA Method 1684

BTEX = benzene, toluene, ethylbenzene, and total xylenes using EPA Method 8260

MTBE = methyl tertiary butyl ether using EPA Method 8260

TBA = tertiary butyl alcohol using EPA Method 8260

DIPE = diisopropyl ether using EPA Method 8260

ETBE = ethyl tertiary butyl ether using EPA Method 8260

TAME = tertiary amyl methyl ether using EPA Method 8260

1,2-DCA = 1,2-Dichloroethane using EPA Method 8260

EDB = 1,2-Dibromoethane using EPA Method 8260

Ethanol - using EPA Method 6010

Total Lead - using EPA Method 6010

mg/kg = milligrams per kilogram

ND = not detected at or above reporting limit indicated

NA = Not Analyzed

Analytical results reported by laboratory as micrograms per kilogram and converted to milligrams per kilogram by Miller Brooks

0.410 = Analytical result reported above laboratory reporting limit

KEI-P89-0902.QR4
March 11, 1991

TABLE 3 (Continued)

SUMMARY OF LABORATORY ANALYSES
SOIL

<u>Sample Number</u>	<u>Depth (feet)</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethylbenzene</u>
(Collected on September 11, 1989)						
A1	14	10	ND	ND	0.11	ND
A2	14	5.0	ND	ND	ND	ND
B1	14	3.0	ND	ND	ND	ND
B2	14	1.8	ND	ND	ND	ND
P1*	3	17	0.23	ND	ND	ND
P2*	3	ND	ND	ND	ND	ND
P3*	3.5	690	3.2	0.36	19	ND
P3(7.5)*	7.5	ND	ND	ND	ND	ND
P4*	3.5	5.0	ND	ND	ND	ND
WO1**	9.5	ND	ND	ND	ND	ND

* Organic lead was non-detectable, except for sample P3, which showed 0.058 ppm.

** TPH as diesel was 3.3 ppm, TOG was 58 ppm, and all EPA method 8010 constituents were non-detectable.

ND = Non-detectable

Results in parts per million (ppm), unless otherwise indicated.



SEQUOIA ANALYTICAL

580 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc.	Client Project ID: Unocal, Oakland, 35th Ave/Quigley	Sampled: Sep 11, 1989
P.O. Box 913	Sample Descript.: Sol, WQ1	Received: Sep 12, 1989
Benicia, CA 94510	Analysis Method: EPA 8030/8015/8020	Analyzed: Sep 13, 1989
Attention: Mardo Kaprealian, P.E.	Lab Number: 909-1125	Reported: Sep 13, 1989

TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTEX DISTINCTION (EPA 8015/8020)

Analyte	Detection Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Low to Medium Boiling Point Hydrocarbons.....	1.0	N.D.
Benzene.....	0.05	N.D.
Toluene.....	0.1	N.D.
Ethyl Benzene.....	0.1	N.D.
Xylenes.....	0.1	N.D.

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc.
P.O. Box 918
Berkeley, CA 94510
Attention: Mardo Kaprealian, P.E.

Client Project ID: Unocal, Oakland, 35th Ave/Gulfigley
Matrix Descript: Soil, WO1
Analysis Method: EPA 3550/8015
First Sample #: 909-1125

Sampled: Sep 11, 1989
Received: Sep 12, 1989
Extracted: Sep 12, 1989
Analyzed: Sep 12, 1989
Reported: Sep 13, 1989

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
909-1125	WO1	3.3

Detection Limits:

1.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard.
Analytes reported as N.D. were not present above the stated limit of detection

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director



SEQUOIA ANALYTICAL

680 Chesapeake Drive - Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc.
P.O. Box 913
Berkeley, CA 94510
Attention: Mardo Kaprealian, P.E.

Client Project ID: Unocal, Oakland, 35th Ave/Culgley
Sample Descript: Soil, WO1
Analysis Method: EPA 5030/8010
Lab Number: 909-1125

Sampled: Sep 11, 1989
Received: Sep 12, 1989
Analyzed: Sep 12, 1989
Reported: Sep 13, 1989

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane.....	5.0	N.D.
Bromoform.....	5.0	N.D.
Bromomethane.....	5.0	N.D.
Carbon tetrachloride.....	5.0	N.D.
Chlorobenzene.....	5.0	N.D.
Chloroethane.....	25.0	N.D.
2-Chloroethylvinyl ether.....	5.0	N.D.
Chloroform.....	5.0	N.O.
Chloromethane.....	5.0	N.O.
Dibromochloromethane.....	5.0	N.D.
1,2-Dichlorobenzene.....	10.0	N.D.
1,3-Dichlorobenzene.....	10.0	N.D.
1,4-Dichlorobenzene.....	10.0	N.D.
1,1-Dichloroethane.....	5.0	N.D.
1,2-Dichloroethane.....	5.0	N.D.
1,1-Dichloroethene.....	5.0	N.O.
Total 1,2-Dichloroethene.....	5.0	N.D.
1,2-Dichloropropane.....	5.0	N.D.
cis-1,3-Dichloropropene.....	5.0	N.D.
trans-1,3-Dichloropropene.....	5.0	N.D.
Methylene chloride.....	10.0	N.D.
1,1,2,2-Tetrachloroethane.....	5.0	N.D.
Tetrachloroethene.....	5.0	N.D.
1,1,1-Trichloroethane.....	5.0	N.D.
1,1,2-Trichloroethane.....	5.0	N.D.
Trichloroethene.....	5.0	N.O.
Trichlorofluoromethane.....	5.0	N.O.
Vinyl chloride.....	10.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
 (415) 384-8600 • FAX (415) 384-9233

Kaprealian Engineering, Inc.	Client Project ID: Unocal, Oakland, 3420 35th Ave.	Sampled: Sep 28, 1989
P.O. Box 919	Sample Descript: Soil	Received: Sep 27, 1989
Benicia, CA 94510	Analysis Method: California LUFT Manual, 12/87	Analyzed: Sep 28, 1989
Attention: Mardo Kaprealian, P.E.	First Sample #: 909-3270	Reported: Sep 28, 1989

ORGANIC LEAD

Sample Number	Sample Description	Sample Results mg/kg (ppm)
909-3270	P1	N.D.
909-3271	P2	N.D.
909-3272	P3	0.059
909-3273	P4	N.D.
909-3274	P3 (7.5)	N.D.

Detection Limits: 0.05

Analyses reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Belinda C. Vega
 Project Manager

KEI-J89-0902.R7
April 25, 1991

TABLE 1
SUMMARY OF LABORATORY ANALYSES
SOIL

(Collected on April 8 & 9, 1991)

<u>Sample</u>	<u>Depth (feet)</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethylbenzene</u>
SW1	4.5	ND	ND	ND	ND	0.068
SW2	4.5	ND	ND	ND	ND	ND
SW3	4.5	ND	ND	ND	ND	ND
SW4	4.5	3.0	ND	ND	ND	ND
BT1	6	ND	ND	ND	0.012	ND
BT2	6	ND	ND	ND	ND	ND
Detection Limits		1.0	0.0050	0.0050	0.0050	0.0050

ND = Non-detectable.

Results in parts per million (ppm), unless otherwise indicated.

KEI-P89-0902.R6
April 23, 1990

TABLE 1
SUMMARY OF LABORATORY ANALYSES
SOIL

(Collected on March 14, 1990)

over excavated
Per
MSC-Sum-1991-oil

Sample Number	TPH as Gasoline	Benzene	Toluene	Xylenes	Ethylbenzene
EB1(5)	1,100	1.8	2.5	7.0	10
EB1(10)	ND	0.0050	0.034	ND	ND
EB2(8)	ND	ND	0.080	ND	ND
EB2(10)	ND	ND	0.070	ND	ND
EB3(5)	58	ND	0.068	0.31	0.090
EB3(10)	3.0	0.12	0.036	0.0072	ND
EB4(4)	ND	0.10	0.060	0.024	0.013
EB4(10)	ND	ND	0.055	ND	ND
Detection Limits	1.0	0.0050	0.0050	0.0050	0.0050

ND = Non-detectable.

Results in parts per million (ppm), unless otherwise indicated.

KEI-P89-0902.R5
February 5, 1990

TABLE 2
SUMMARY OF LABORATORY ANALYSES
SOIL
(Collected on December 12, 1989)

<u>Sample Number</u>	<u>Depth (feet)</u>	<u>TPH as Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethylbenzene</u>
MW1 (5)	5	ND	ND	ND	ND	ND
MW1 (10)	10	ND	ND	ND	ND	ND
MW1 (15)	15	ND	ND	ND	ND	ND
MW1 (20)	20	ND	ND	ND	ND	ND
MW1 (25)	25	ND	ND	ND	ND	ND
MW1 (29.5)	29.5	ND	ND	ND	ND	ND
MW1 (34.5)	34.5	ND	ND	ND	ND	ND
MW2 (5)	5	ND	ND	ND	ND	ND
MW2 (10)	10	ND	ND	ND	ND	ND
MW2 (15)	14.5	ND	ND	ND	ND	ND
MW2 (20)	20	ND	ND	ND	ND	ND
MW2 (25)	25	ND	ND	ND	ND	ND
MW2 (27)	27	ND	ND	ND	ND	ND
MW2 (30)	30	ND	ND	ND	ND	ND
MW2 (33.5)	33	ND	ND	ND	ND	ND
MW2 (35)	35	ND	ND	ND	ND	ND
MW3 (5)	5	1,200	4.5	2.0	6.3	21
MW3 (10)	10	ND	ND	ND	ND	ND
MW3 (15)	15	ND	ND	ND	ND	ND
MW3 (20)	20	ND	ND	ND	ND	ND
MW3 (25)	25	ND	ND	ND	ND	ND
MW3 (30)	30	ND	ND	ND	ND	ND
MW3 (34.5)	34.5	ND	ND	ND	ND	ND
MW3 (36)	36	ND	ND	ND	ND	ND
Detection Limits		1.0	0.05	0.1	0.1	0.1

ND = Non-detectable.

Results in parts per million (ppm), unless otherwise indicated.

Table 1

SOIL ANALYTICAL RESULTS
 ConocoPhillips Station No. 6129
 3420 35th Avenue, Oakland

Sample ID	Date	Sample Depth (feet)	TPPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	DIPE (mg/kg)	Ethanol (mg/kg)
Soil													
B-2@6'	11/7/2006	6	10	ND<0.0050	ND<0.0050	0.0056	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-2@11'	11/7/2006	11	0.23	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.023	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-2@16'	11/7/2006	16	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.0082	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-2@21'	11/7/2006	21	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.019	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-2@26'	11/7/2006	26	92	ND<0.0050	ND<0.0050	ND<0.0050	0.99	0.017	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-2@31'	11/7/2006	31	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.0054	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-2@36'	11/7/2006	36	0.22	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.17	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-2@39.5'	11/7/2006	39.5	0.37	ND<0.0050	ND<0.0050	ND<0.0050	0.025	0.061	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-7@6'	11/8/2006	6	220	ND<0.12	ND<0.12	0.46	0.51	ND<0.12	ND<5.0	ND<0.025	ND<0.025	ND<0.12	ND<25
B-7@10'	11/8/2006	10	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-7@16'	11/8/2006	16	0.25	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.12	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-7@21'	11/8/2006	21	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.087	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-7@26'	11/8/2006	26	0.22	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.10	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-7@31'	11/8/2006	31	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.024	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-8@6'	11/7/2006	6	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.051	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-8@11'	11/7/2006	11	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.051	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-8@16'	11/7/2006	16	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.041	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-8@21'	11/7/2006	21	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.029	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-8@26'	11/7/2006	26	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-8@31'	11/7/2006	31	0.24	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.24	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-8@36'	11/7/2006	36	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-8@39.5'	11/7/2006	39.5	0.24	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.15	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-9@6'	11/8/2006	6	0.33	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-9@11'	11/8/2006	11	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.014	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-9@16'	11/8/2006	16	0.23	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.093	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-9@21'	11/8/2006	21	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.046	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-10@5.5'	12/27/2006	5.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-10@10.5'	12/27/2006	10.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.017	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-10@15.5'	12/27/2006	15.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.13	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-10@20.5'	12/27/2006	20.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-10@25.5'	12/27/2006	25.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.094	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-10@30.5'	12/27/2006	30.5	0.48	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.53	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-10@35.5'	12/27/2006	35.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.067	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0

Table 1

SOIL ANALYTICAL RESULTS
 ConocoPhillips Station No. 6129
 3420 35th Avenue, Oakland

Sample ID	Date	Sample Depth (feet)	TPPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	DIPE (mg/kg)	Ethanol (mg/kg)
Soil													
B-12@5.5'	12/27/2006	5.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-12@10.5'	12/27/2006	10.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-12@15.5'	12/27/2006	15.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.059	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-12@20.5'	12/27/2006	20.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.025	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-12@25.5'	12/27/2006	25.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.052	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-12@30.5'	12/27/2006	30.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.047	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-12@35.5'	12/27/2006	35.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.12	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-14@6'	11/8/2006	6	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-14@11'	11/8/2006	11	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-14@16'	11/8/2006	16	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-14@21'	11/8/2006	21	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-14@26'	11/8/2006	26	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.019	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-14@31'	11/8/2006	31	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-15@5.5'	12/27/2006	5.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-15@10.5'	12/27/2006	10.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-15@15.5'	12/27/2006	15.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-15@20.5'	12/27/2006	20.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-15@25.5'	12/27/2006	25.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-15@30.5'	12/27/2006	30.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-15@35.5'	12/27/2006	35.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.24	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-16@5.5'	12/27/2006	5.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-16@10.5'	12/27/2006	10.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.007	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-16@15.5'	12/27/2006	15.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.044	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-16@20.5'	12/27/2006	20.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.017	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-16@25.5'	12/27/2006	25.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.011	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-16@30.5'	12/27/2006	30.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.0050	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0
B-16@35.5'	12/27/2006	35.5	ND<0.20	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	0.015	ND<0.20	ND<0.0010	ND<0.0010	ND<0.0050	ND<1.0

TPPH = total purgeable petroleum hydrocarbons by EPA Method 8260B
 BTEX = benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B
 MTBE = methyl tertiary butyl ether by EPA Method 8260B
 TBA = tertiary butyl alcohol by EPA Method 8260B
 ETBE = ethyl tertiary butyl ether by EPA Method 8260B
 DIPE = di-isopropyl ether by EPA Method 8260B
 TAME = tertiary amyl methyl ether by EPA Method 8260B

Ethanol was analyzed by EPA Method 8260B
 mg/kg = milligrams per kilogram
 ND = not detected above the laboratory detection limit
Bold = detected compound concentration
 EPA = US Environmental Protection Agency

Table 2
SOIL ANALYTICAL RESULTS
 ConocoPhillips Station No. 6129
 Oakland, California

Sample ID	Date	Time	Sample Depth (feet)	TPH-G (mg/kg)	TOG (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	DIPE (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Ethanol (mg/kg)
Soil																	
B-17-10	10/23/09	11:07	10-11	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.0072	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-17-20	10/23/09	11:15	20-21	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.011	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-17-30	10/23/09	11:21	30-31	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.010	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-17-40	10/23/09	11:31	40-41	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.022	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-17-50	10/23/09	11:43	50-51	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.006	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-18-10	10/23/09	7:25	10-11	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.028	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-18-20	10/23/09	7:32	20-21	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.022	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-18-30	10/23/09	7:43	30-31	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.018	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-18-40	10/23/09	7:51	40-41	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.018	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-18-50	10/23/09	8:00	50-51	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.018	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-19-10	10/26/09	7:22	10-11	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-19-20	10/26/09	7:28	20-21	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.10	0.067	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-19-31	10/26/09	7:35	31-32	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-19-40	10/26/09	7:45	40-41	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-19-50	10/26/09	8:02	50-51	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-20-10	10/26/09	12:09	10-11	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-20-20	10/26/09	12:15	20-21	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-20-31	10/26/09	12:23	30-31	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-20-40	10/26/09	12:30	40-41	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.16	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-20-50	10/26/09	12:47	50-51	<0.20	--	<0.005	<0.005	<0.005	<0.01	0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-21-10	10/22/09	10:25	10-11	<0.20	<50	<0.005	<0.005	<0.005	<0.01	0.024	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-21-20	10/22/09	10:34	20-21	<0.20	<50	<0.005	<0.005	<0.005	<0.01	0.036	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-21-30	10/22/09	10:45	30-31	<0.20	<50	<0.005	<0.005	<0.005	<0.01	0.035	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-21-40	10/22/09	11:25	40-41	<0.20	<50	<0.005	<0.005	<0.005	<0.01	0.013	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0
B-21-50	10/22/09	11:40	50-51	<0.20	<50	<0.005	<0.005	<0.005	<0.01	0.013	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<1.0

TPH-G = total purgeable petroleum hydrocarbons by EPA Method 8260B

TOG = total oil and grease by EPA Method 1664

BTEX = benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B

MTBE = methyl tertiary butyl ether by EPA Method 8260B

TBA = tertiary butyl alcohol by EPA Method 8260B

ETBE = ethyl tertiary butyl ether by EPA Method 8260B

TAME = tertiary amyl methyl ether by EPA Method 8260B

DIPE = di-isopropyl ether by EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane (also known as ethylene dichloride) by EPA Method 8260B

EDB = ethylene dibromide (also known as 1,2-Dibromoethane) by EPA Method 8260B

Ethanol was analyzed by EPA Method 8260B

mg/kg = milligrams per kilogram

Bold = detected compound concentration

EPA = US Environmental Protection Agency

* = estimated value (CLP Flag)

ATTACHMENT C-1

Responsible Party & Assessor's Office Information



COUNTY OF ALAMEDA

Assessor's Office

[Help](#)[New Query](#)

Property Value System

[History](#)[Value](#)[Transfer](#)[Map](#)[Glossary](#)

Parcel Number: **30-1980-1** Inactive: **N** Lien Date: **01/01/2017** Owner: **REDWOOD & 35TH AVENUE GAS STATION INC**

Property Address: **3420 35TH AVE, OAKLAND, CA 94619-1303**

Current Mailing Address as of 12/02/2015: **REDWOOD & 35TH AVENUE GAS STATION INC, c/o LE PHAM, 6247 RIDGEMONT DR , OAKLAND, CA 94619-3726**

Mailing Name		Historical Mailing Address	Document Date	Document Number	Value From Trans	Parcel Count	Use Tax
REDWOOD & 35TH AVENUE GAS STATION INC	List Owners	5022 CRYSTAL RIDGE CT , OAKLAND, CA 94605-3873	12/31/2013	2013-395599		1	8500
NGUYEN SON T & PHAM LE TRS	List Owners	5022 CRYSTAL RIDGE CT , OAKLAND, CA 94605-3873	09/21/2009	2009-301480		1	8500
NGUYEN SON T ETAL	List Owners	5022 CRYSTAL RIDGE CT , OAKLAND, CA 94605-3873	04/27/2009	2009-132350		1	8500
NGUYEN SON T	List Owners	3420 35TH AVE , OAKLAND, CA 94619-1303	01/30/2006	2006-30621		1	8500
SUNCOR HOLDINGS COP II LLC	List Owners	11601 WILSHIRE BLVD STE 700, LOS ANGELES, CA 90025	12/27/2005	2005-545999		1	8500
Attn: KEITH MARKS							
CLOVER TRUST 1997-1 c/o TOSCO CORP	List Owners	PO BOX 52085 , PHOENIX, AZ 85072	04/07/1997	1997-89377		1	8500
UNION OIL COMPANY OF CALIFORNIA c/o UNION OIL CO OF CA	List Owners	PO BOX 7600 , LOS ANGELES, CA 90051-0600	10/19/1990	1990-277874		1	8500
BURTIS CORPORATION c/o UNION OIL CO OF CA	List Owners	PO BOX 7600 , LOS ANGELES, CA 90051-0600	03/03/1971	1971-24398		1	8500
UNION OIL COMPANY OF CALIFORNIA	List Owners	3432 35TH AVE , OAKLAND, CA 94619-1303	09/30/1969	1969-109818		1	8500

All information on this site is to be assumed accurate for property assessment purposes only, and is based upon the

Assessor's knowledge of each property. Caution is advised for use other than its intended purpose.

The Alameda County Intranet site is best viewed in Internet Explorer Version 5.5 or later.
Click [here](#) for more information regarding supported browsers.

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ASSESSOR'S MAP 30

Code Area Nos. 17-001

1980

Scale: 1"=100'

JONES RESUB. OF BLK. B- QUIGLEY TR. (Bk. 22 Pg. 29)
 QUIGLEY TR.-SUBDIVISION OF PORTION (Bk. 4 Pg. 36)
 KEY ROUTE HEIGHTS (Bk. 25 Pg. 17) LOCKE TR. (Bk. 24 Pg. 77)
 P.M. 3127 116/62 P.M. 3666 133/69

B O O K

28



Drawn: 3-20-70 H.N. Revised: 7-2-85 S.M.
 3-20-83 C.S.L.
 6-27-88 J.C.R.
 8-09-88 C.S.L.

Formerly: Blk. 30 - Blks. 1887, 1911 & Blk. 31 - Blks. 2007, 2008, 2009, 2010.

A.C.M.

Reference:

HPN-16.7
 38th AVE.
 1981

R 58

HEALTH CARE SERVICES

State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program

Certified Mail # P 367 604 736

03/11/92
STID# 518

Notice of Requirement to Reimburse

Ron Bock
Unocal Corporation
P. O. Box 5155
San Ramon, C A 94583

Responsible Party
Property Owner

Unocal SS #6129
3420 - 35th Ave.
Oakland , CA 94619

SITE

Date First Reported 09/01/89
Substance: Gasoline
Petroleum: (X)Yes

The federal Petroleum Leaking Underground Storage Tank Trust Fund (Federal Trust Fund) provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The legislature has authorized funds to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The direct and indirect costs of overseeing removal or remedial action at the above site are funded, in whole or in part, from the Federal Trust Fund. The above individual(s) or entity(ies) have been indentified as the party or parties responsible for investigation and cleanup of the above site. YOU ARE HEREBY NOTIFIED that pursuant to Title 42 of the United States Code, Section 6991b(h)(6) and Sections 25297.1 and 25360 of the California Health and Safety Code, the above Responsible Party or Parties must reimburse the State Water Resources Control Board not more than 150 percent of the total amount of site specific oversight costs actually incurred while overseeing the cleanup of the above underground storage tank site, and the above Responsible Party or Parties must make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board.

Please contact Tom PEACOCK, Supervising Hazardous Materials Specialist at this office if you have any questions concerning this matter.

Edgar B. Howell, III, Chief
Contract Project Director

cc: Sandra Malos, SWRCB

SWRCB Use: Add: X Reason: New Case

ee

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

Certified Mail #: 7002 2030 0006 9574 2300

January 09, 2009

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

NOTICE OF RESPONSIBILITY

Site Name & Address:

**UNOCAL #6129
3420 35TH AVE
Oakland, CA 94619**

**Local ID: RO0000058
Related ID: 518
RWQCB ID: 01-1590
Global ID: T0600101465**

Responsible Party:

SON T. NGUYEN

**3420 35TH AVENUE
OAKLAND CA 94619**

Date First Reported: 9/20/1989

Substance: 8006619 Gasoline-Automotive (motor gasoline and additives), leaded & unleaded

Funding for Oversight: LOPS - LOP State Fund

Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified CONOCOPHILLIPS as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5650.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker JAKUB, BARBARA, at this office at (510)639-1287 if you have questions regarding your site.

ARIF LEVL, Director
Contract Project Director

Date: JAN 9, 2009

Action: Add
Reason: New Property Owner

ALAMEDA COUNTY ENVIRONMENTAL HEALTH
LUFT LOCAL OVERSIGHT PROGRAM

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET

January 09, 2009

Site Name & Address:

**UNOCAL #6129
3420 35TH AVE
Oakland, CA 94619**

**Local ID: RO0000058
Related ID: 518
RWQCB ID: 01-1590
Global ID: T0600101465**

All Responsible Parties

**RP has been named a Primary RP - TERRY L GRAYSON
CONOCOPHILLIPS**

76 BROADWAY STREET | SACRAMENTO, CA 95818 | Phone (916) 558-7666

RP has been named a Primary RP - SON T NGUYEN

3420 35TH AVENUE | OAKLAND, CA 94619 | Phone No Phone Number Listed

Responsible Party Identification Background

Alameda County Environmental Health (ACEH) names a "Responsible Party," as defined under 23 C.C.R. Sec. 2720. Section 2720 defines a responsible party 4 ways. An RP can be:

1. "Any person who owns or operates an underground storage tank used for the storage of any hazardous substance."
2. "In the case of any underground storage tank no longer in use, any person who owned or operated the underground storage tank immediately before the discontinuation of its use."
3. "Any owner of property where an unauthorized release of a hazardous substance from an underground storage tank has occurred."
4. "Any person who had or has control over an underground storage tank at the time of or following an unauthorized release of a hazardous substance."

ACEH has named the responsible parties for this site as detailed below.

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

January 9, 2009

Terry L. Grayson
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Subject: Fuel Leak Case No. RO0000058, Unocal #6129, 3420 35th Ave., Oakland, CA 94619;
Add Responsible Party

Dear Mr. Grayson:

In a Notice of Responsibility dated March 11, 1992, Unocal was notified that the above referenced site had been placed in the Local Oversight Program and that Unocal was named as a Responsible Party for the fuel leak case. Son T. Nguyen purchased the property in January 2006 and has been named an additional Responsible Party for the fuel leak case as defined under 23 C.C.R Sec. 2720. Please see Attachment A – Responsible Parties Data Sheet, which identifies all Responsible Parties and provides background on the unauthorized release and Responsible Party Identification.

If you have any questions, please call me at (510) 639-1287.

Sincerely,

Barbara J. Jakub
Hazardous Materials Specialist

Attachment A – Responsible Parties Data Sheet

cc: Donna Drogos, ACEH
Barbara Jakub, ACEH
File

ALAMEDA COUNTY
**HEALTH CARE SERVICES
AGENCY**

COLLEEN CHAWLA, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
LOCAL OVERSIGHT PROGRAM (LOP) FOR
HAZARDOUS MATERIALS RELEASES
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6700
FAX (510) 337-9335

January 22, 2018

Chevron Corporation
DBA Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583
Attn.: James Kiernan (*Sent via electronic mail to:*
jkiernan@chevron.com)

Redwood and 35th Avenue Gas Station Inc.
5022 Crystal Ridge Court
Oakland, CA 94605
(*Sent via electronic mail to:*
amylepham@yahoo.com)

Clover Trust 1997-1
c/o Tosco Corp.
PO Box 52085
Phoenix, AZ 85072

Son T. Nguyen
5022 Crystal Ridge Court
Oakland, CA 94605-3873

Son T. Nguyen Et Al
5022 Crystal Ridge Court
Oakland, CA 94605-3873

Son T. Nguyen & Le Pham Family Trust
5022 Crystal Ridge Court
Oakland, CA 94605-3873

Suncor Holdings COP II
11601 Wilshire Blvd., Suite 700
Los Angeles, CA 90025
Attn.: Keith Marks

ConocoPhillips
76 Broadway
Sacramento, CA 95818
Attn.: Terry Grayson

Unocal
M, E, & C Department
PO Box 2390
Brea, CA 92622-2390

Tosco
2000 Crow Canyon Place, # 400
San Ramon, CA 94583

Subject: Fuel Leak Case No. RO0000058, Unocal #6129, 3420 35th Ave., Oakland, CA 94619; Add Responsible Parties

Dear Responsible Parties:

In a Notice of Requirement to Reimburse dated March 11, 1992, Unocal (Union Oil Company of California) was notified that the above referenced site had been placed in the Local Oversight Program and that Unocal was named as a Responsible Party for the fuel leak case. In a Notice of Responsibility dated January 9, 2009, Tosco and ConocoPhillips, as successors to Unocal, and Son T. Nguyen, the property owner, were notified they were named as an additional Responsible Parties for the fuel leak case.

Chevron Corporation, having acquired Unocal; former property owners Clover Trust 1997-1 c/o Tosco Corp, Suncor Holdings COP II LLC, Son T. Nguyen Et Al, Son T. Nguyen and Pham Le, as trustees of the Nguyen/Pham Family Trust; and current property owner Redwood & 35th Avenue Gas Station Inc. are named as additional responsible parties having owned the property following a release from the underground storage tank system for the fuel leak case as defined under 23 C.C.R Sec. 2720. Please see Attachment A – Responsible Parties Data Sheet, which identifies all Responsible Parties and provides background on the unauthorized release and Responsible Party Identification.

If you have any questions, please call me at (510) 567-6764.

Sincerely,

Digitally signed by Keith Nowell
DN: cn=Keith Nowell, o=Alameda County,
ou=Department of Environmental Health,
email=keith.nowell@acgov.org, c=US
Date: 2018.01.22 16:17:56 -08'00'

Keith Nowell
Hazardous Materials Specialist

Responsible Parties
RO0000058
January 22, 2018

Attachment A – Responsible Parties Data Sheet

cc: Ed Ralston, Phillips 66 Company, 76 Broadway, Sacramento, CA 95818 (*Sent via electronic mail to: Ed.C.Ralston@p66.com*)

Dilan Roe, ACDEH, (*Sent via electronic mail to: dilan.roe@acgov.org*)

Paresh Khatri, ACDEH, (*Sent via electronic mail to: paresh.khatri@acgov.org*)

Keith Nowell, ACDEH (*Sent via electronic mail to: keith.nowell@acgov.org*)

Geotracker, File



AGENCY

COLLEEN CHAWLA, Agency Director

Certified Mail #: 7011 3500 0003 1934 7699

January 22, 2018

NOTICE OF RESPONSIBILITY

Site Name & Address:
UNOCAL #6129
3420 35TH AVE.
OAKLAND, CA 94619

Local ID: RO0000058
Related ID: STID #518
RWQCB ID: 01-1590
Global ID: T0600101465

Responsible Party:

CHEVRON CORPORATION
DBA CHEVRON ENVIRONMENTAL MANAGEMENT
COMPANY
6001 BOLLINGER CANYON ROAD
SAN RAMON, CA 94583

Date First Reported: 9/20/1989
Substance: • Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Funding for Oversight: LOPS - LOP State Fund
Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified CHEVRON CORPORATION, DBA CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY, as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please FAX your request to the State Water Board at (916) 341-5808 or telephone (916) 341-5752.

Pursuant to section 25296.10(c)(6) of the Health and Safety Code, a responsible party may request the designation of an administering agency when required to conduct corrective action. Please contact this office for further information about the designation process.

Please contact your caseworker KEITH NOWELL at this office at (510) 567-6764 if you have questions regarding your site.

 Date: 01-22-2018

RONALD BROWDER, Director
Contract Project Director

Action: Update
Reason: ADD

Attachment A: Responsible Parties Data Sheet

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File



AGENCY

COLLEEN CHAWLA, Agency Director

Certified Mail #: 7011 3500 0003 1934 7729

January 22, 2018

NOTICE OF RESPONSIBILITY

<p>Site Name & Address:</p> <p>UNOCAL #6129 3420 35TH AVE. OAKLAND, CA 94619</p>

<p>Local ID: RO0000058</p> <p>Related ID: STID #518</p> <p>RWQCB ID: 01-1590</p> <p>Global ID: T0600101465</p>
--

Responsible Party:

REDWOOD AND 35TH AVENUE GAS STATION INC.
5022 CRYSTAL RIDGE COURT
OAKLAND, CA 94605-3873


<p>Date First Reported: 9/20/1989</p> <p>Substance: • Gasoline-Automotive (motor gasoline and additives), leaded & unleaded</p> <p>Funding for Oversight: LOPS - LOP State Fund</p> <p>Multiple RPs?: Yes</p>

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified REDWOOD AND 35TH AVENUE GAS STATION INC. as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

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Please contact your caseworker KEITH NOWELL at this office at (510) 567-6764 if you have questions regarding your site.

 Date: 01-22-2018
RONALD BROWDER, Director
Contract Project Director

<p>Action: Update</p> <p>Reason: ADD</p>
--

Attachment A: Responsible Parties Data Sheet

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File



AGENCY

COLLEEN CHAWLA, Agency Director

Certified Mail #: 7011 3500 0003 1935 2341

January 22, 2018

NOTICE OF RESPONSIBILITY

Site Name & Address:
UNOCAL #6129
3420 35TH AVE.
OAKLAND, CA 94619

Local ID: RO0000058
Related ID: STID #518
RWQCB ID: 01-1590
Global ID: T0600101465

Responsible Party:

CLOVER TRUST 1997-1
C/O TOSCO CORP.
PO BOX 52085
PHOENIX, AZ 85072


Date First Reported: 9/20/1989
Substance: • Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Funding for Oversight: LOPS - LOP State Fund
Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified CLOVER TRUST 1997-1 C/O TOSCO CORP. as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

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Please contact your caseworker KEITH NOWELL at this office at (510) 567-6764 if you have questions regarding your site.


Date: 01-22-2018
RONALD BROWDER, Director
Contract Project Director

Action: Update
Reason: ADD

Attachment A: Responsible Parties Data Sheet

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File



AGENCY

COLLEEN CHAWLA, Agency Director

Certified Mail #: 7011 3500 0003 1934 7705

January 22, 2018

NOTICE OF RESPONSIBILITY

Site Name & Address:
UNOCAL #6129
3420 35TH AVE.
OAKLAND, CA 94619

Local ID: RO0000058
Related ID: STID #518
RWQCB ID: 01-1590
Global ID: T0600101465

Responsible Party:

SON T. NGUYEN ET AL
5022 CRYSTAL RIDGE COURT
OAKLAND, CA 94605-3873

Date First Reported: 9/20/1989
Substance: • Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Funding for Oversight: LOPS - LOP State Fund
Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified SON T. NGUYEN ET AL as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

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Please contact your caseworker KEITH NOWELL at this office at (510) 567-6764 if you have questions regarding your site.

 Date: 01-22-2018
RONALD BROWDER, Director
Contract Project Director

Action: Update
Reason: ADD

Attachment A: Responsible Parties Data Sheet

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File



AGENCY

COLLEEN CHAWLA, Agency Director

Certified Mail #: 7011 3500 0003 1934 7712

January 22, 2018

NOTICE OF RESPONSIBILITY

Site Name & Address:
UNOCAL #6129
3420 35TH AVE.
OAKLAND, CA 94619

Local ID: RO0000058
Related ID: STID #518
RWQCB ID: 01-1590
Global ID: T0600101465

Responsible Party:

SON T. NGUYEN AND LE PHAM FAMILY TRUST
5022 CRYSTAL RIDGE COURT
OAKLAND, CA 94605-3873

Date First Reported: 9/20/1989
Substance: • Gasoline-Automotive (motor gasoline and additives), leaded & unleaded

Funding for Oversight: LOPS - LOP State Fund
Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified SON T. NGUYEN AND LE PHAM FAMILY TRUST as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

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Please contact your caseworker KEITH NOWELL at this office at (510) 567-6764 if you have questions regarding your site.

 Date: 01-22-2018
RONALD BROWDER, Director
Contract Project Director

Action: Update
Reason: ADD

Attachment A: Responsible Parties Data Sheet

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File



AGENCY

COLLEEN CHAWLA, Agency Director

Certified Mail #: 7011 3500 0003 1934 7736

January 22, 2018

NOTICE OF RESPONSIBILITY

Site Name & Address:
UNOCAL #6129
3420 35TH AVE.
OAKLAND, CA 94619

Local ID: RO0000058
Related ID: STID #518
RWQCB ID: 01-1590
Global ID: T0600101465

Responsible Party:

SUNCOR HOLDINGS COP II
11601 WILSHIRE BLVD., SUITE 700
LOS ANGELES, CA 90025

Date First Reported: 9/20/1989
Substance: • Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Funding for Oversight: LOPS - LOP State Fund
Multiple RPs?: Yes

Pursuant to sections 25297.1 and 25297.15 of the Health and Safety Code, you are hereby notified that the above site has been placed in the Local Oversight Program and the individual(s) or entity(ies) shown above, or on the attached list, has (have) been identified as the party(ies) responsible for investigation and cleanup of the above site. Section 25297.15 further requires the primary or active Responsible Party to notify all current record owners of fee title before the local agency considers cleanup or site closure proposals or issues a closure letter. For purposes of implementing section 25297.15, this agency has identified SUNCOR HOLDINGS COP II as the primary or active Responsible Party. It is the responsibility of the primary or active Responsible Party to submit a letter to this agency, within 20 calendar days of receipt of this notice that identifies all current record owners of fee title. It is also the responsibility of the primary or active Responsible Party to certify to the local agency that the required notifications have been made at the time a cleanup or site closure proposal is made or before the local agency makes a determination that no further action is required. If property ownership changes in the future, you must notify this local agency within 20 calendar days from when you are informed of the change.

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Please contact your caseworker KEITH NOWELL at this office at (510) 567-6764 if you have questions regarding your site.


RONALD BROWDER, Director
Contract Project Director

Date: 01-22-2018

Action: Update
Reason: ADD

Attachment A: Responsible Parties Data Sheet

cc: Cindy Davis, SWRCB (email: cindy.davis@waterboards.ca.gov) | Dilan Roe (email: dilan.roe@acgov.org), File

ALAMEDA COUNTY ENVIRONMENTAL HEALTH
LUFT LOCAL OVERSIGHT PROGRAM

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET

January 22, 2018

Site Name & Address: UNOCAL #6129 3420 35 TH AVE. OAKLAND, CA 94619	Local ID: RO0000058 Related ID: STID #518 RWQCB ID: 01-1590 Global ID: T0600101465
--	---

All Responsible Parties

RP has been named a Primary RP - CHEVRON CORPORATION/ CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
ATTN: JAMES KIERNAN
6001 BOLLINGER CANYON ROAD | SAN RAMON, CA 94583 | (925) 842-3220

RP has been named a Primary RP - REDWOOD AND 35TH AVENUE GAS STATION INC.
5022 CRYSTAL RIDGE COURT | OAKLAND, CA 94605 | No Phone Number Listed

RP has been named a Primary RP - SON T. NGUYEN
5022 CRYSTAL RIDGE COURT | OAKLAND, CA 94605 | No Phone Number Listed

RP has been named a Primary RP - SON T. NGUYEN ET AL
5022 CRYSTAL RIDGE COURT | OAKLAND, CA 94605 | No Phone Number Listed

RP has been named a Primary RP - SON T. NGUYEN & LE PHAM FAMILY TRUST
5022 CRYSTAL RIDGE COURT | OAKLAND, CA 94605 | No Phone Number Listed

RP has been named a Primary RP - CONOCOPHILLIPS
ATTN: TERRY GRAYSON
76 BROADWAY | SACRAMENTO, CA 95818 | No Phone Number Listed

RP has been named a Primary RP - UNOCAL
M, E, & C DEPARTMENT
PO BOX 2390 | BREA, CA 92622-2390 | No Phone Number Listed

RP has been named a Primary RP - TOSCO
2000 CROW CANYON PLACE, #400 | SAN RAMON, CA 95583 | No Phone Number Listed

RP has been named a Primary RP - CLOVER TRUST 1997-1
C/O TOSCO
PO BOX 52085 | PHOENIX, AZ 85072 | No Phone Number Listed

RP has been named a Primary RP - SUNCOR HOLDINGS COP II LLC
ATTN: KEITH MARKS
11601 WILSHIRE BLVD., SUITE 700 | LOS ANGELES, CA 90025 | No Phone Number Listed

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET (Continued)

January 22, 2018

Responsible Party Identification Background

Alameda County Department of Environmental Health (ACDEH) names a "Responsible Party," as defined under 23 C.C.R. Sec. 2720. Section 2720 defines a responsible party 4 ways. An RP can be:

1. "Any person who owns or operates an underground storage tank used for the storage of any hazardous substance."
 2. "In the case of any underground storage tank no longer in use, any person who owned or operated the underground storage tank immediately before the discontinuation of its use."
 3. "Any owner of property where an unauthorized release of a hazardous substance from an underground storage tank has occurred."
 4. "Any person who had or has control over an underground storage tank at the time of or following an unauthorized release of a hazardous substance."
-

ATTACHMENT A - RESPONSIBLE PARTIES DATA SHEET (Continued)

January 22, 2018

Existence of Unauthorized Release

Two 10,000-gallon underground storage tanks (USTs) used for the storage of gasoline and one 550-gallon waste-oil UST were excavated and removed from the site in September, 1989. Maximum petroleum hydrocarbon concentrations of 690 milligrams per kilogram (mg/Kg) total petroleum hydrocarbons as gasoline (TPH-g) and 3.2 mg/Kg benzene were detected in initial piping soil samples collected during the tank removal. These concentrations indicate an unauthorized release has occurred from the underground storage tank system at this site.

Responsible Party Identification

Union Oil Company of California ("Unocal"), was the business owner, the tank owner, and property owner at the time and following the release(s). Unocal meets the definition of a responsible party for the site because it owned or operated underground storage tanks used for the storage of any hazardous substance (Definition 1), owned the property where an unauthorized release occurred (Definition 3), and had control over underground storage tanks at the time of or following an unauthorized release of a hazardous substance (Definition 4).

Tosco acquired Unocal's west coast refining and marketing assets in 1997. Tosco meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

Phillips petroleum acquired Tosco in 2001 and merged with Conoco in 2002 forming ConocoPhillips. ConocoPhillips meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

Chevron Corporation acquired Unocal's upstream assets in 2005. Chevron Corporation meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

Clover Trust 1997-1, c/o Tosco Corp., acquired the property on April 7, 1997. Clover Trust 1997-1, c/o Tosco Corp. meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

Suncor Holdings COP II LLC acquired the property on December 27, 2005. Suncor Holdings COP II LLC meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

Son T. Nguyen acquired the property on January 30, 2006. Son T. Nguyen was the business owner, the tank owner, and property owner following the release(s). Son T. Nguyen meets the definition of a responsible party for the site because he owned or operated underground storage tanks used for the storage of any hazardous substance (Definition 1), owned the property where an unauthorized release occurred (Definition 3), and had control over underground storage tanks at the time of or following an unauthorized release of a hazardous substance (Definition 4).

Property ownership was transferred to Son T. Nguyen Et Al on April 27, 2009. Son T. Nguyen Et Al meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

Property ownership was transferred to Son T. Nguyen and Le Pham Family Trust on September 21, 2009. The Son T. Nguyen and Le Pham Family Trust meets the definition of a responsible party for the site because it owned the property where an unauthorized release occurred (Definition 3).

Redwood & 35th Avenue Gas Station Inc. acquired the property on December 31, 2013. Redwood & 35th Avenue Gas Station Inc. is the business owner, the tank owner, and property owner following the release(s). Redwood & 35th Avenue Gas Station Inc. meets the definition of a responsible party for the site because it owns or operates underground storage tanks used for the storage of any hazardous substance (Definition 1), owns the property where an unauthorized release occurred (Definition 3), and has control over underground storage tanks at the time of or following an unauthorized release of a hazardous substance (Definition 4).

ATTACHMENT C-2

Site Configuration at Time of Closure

ATTACHMENT D-1

Public Notification Fact Sheet & Distribution List

ALAMEDA COUNTY
**HEALTH CARE SERVICES
AGENCY**

COLLEEN CHAWLA, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
LOCAL OVERSIGHT PROGRAM (LOP) FOR
HAZARDOUS MATERIALS RELEASES
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6700
FAX (510) 337-9335

February 15, 2018

Chevron Corporation
DBA Chevron Environmental Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583
Attn.: James Kiernan (*Sent via electronic mail to:*
jkiernan@chevron.com)

Redwood and 35th Avenue Gas Station Inc.
6247 Ridgemont Drive
Oakland, CA 94619-3726
(*Sent via electronic mail to:*
amylepham@yahoo.com)

Clover Trust 1997-1
c/o Tosco Corp.
PO Box 52085
Phoenix, AZ 85072

Son T. Nguyen
6247 Ridgemont Drive
Oakland, CA 94619-3726

Son T. Nguyen Et Al
6247 Ridgemont Drive
Oakland, CA 94619-3726

Son T. Nguyen & Le Pham Family Trust
6247 Ridgemont Drive
Oakland, CA 94619-3726

Suncor Holdings COP II
11601 Wilshire Blvd., Suite 700
Los Angeles, CA 90025
Attn.: Keith Marks

ConocoPhillips
76 Broadway
Sacramento, CA 95818
Attn.: Terry Grayson

Unocal
M, E, & C Department
PO Box 2390
Brea, CA 92622-2390

Tosco
2000 Crow Canyon Place, # 400
San Ramon, CA 94583

Subject: Case Closure Consideration, Fuel Leak Case No. RO0000058, Unocal #6129, 3420 35th Ave., Oakland, CA 94619; GeoTracker Global ID T0600101465

Dear Responsible Parties:

Alameda County Department of Environmental Health (ACDEH) is considering the above referenced site for potential case closure. As you are aware a site investigation for leakage associated with underground storage tank system(s) has been performed at the subject property to which you are named as the primary or active responsible parties.

Public Participation

Public participation is a requirement for the case closure process. In order to notify potentially affected members of the public of the potential fuel leak case closure, a *Notification of Potential Case Closure* will be distributed to addresses in the immediate vicinity. The *Notification of Potential Case Closure* requests that landowners or residents submit any comments or questions to ACDEH regarding potential case closure. ACDEH will consider all comments from the public prior to potential case closure.

SCHEDULE OF EVENTS

- **February 19, 2018** – Start of Public Comment Period
- **April 20, 2018** – End of Public Comment Period
- **30 Days** following successful completion of addressing public comments- Closure

Should you have any questions, please contact me at (510) 567--6764 or send me an electronic mail message at keith.nowell@acgov.org.

If your email address does not appear on the cover page of this notification ACDEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Sincerely,



Digitally signed by Keith Nowell
DN: cn=Keith Nowell, o=Alameda
County, ou=Department of
Environmental Health,
email=keith.nowell@acgov.org, c=US
Date: 2018.02.14 14:52:57 -08'00'

Keith Nowell, PG, CHG
Hazardous Materials Specialist

Enclosures: Attachment 1 – Notification of Potential Case Closure
Attachment 2 – Public Notification Distribution List

cc: Ed Ralston, Phillips 66 Company, 76 Broadway, Sacramento, CA 95818 (*Sent via electronic mail to: Ed.C.Ralston@p66.com*)

Katherine Szymanowski, ARCADIS U.S., Inc., 2300 Clayton Road, Suite 400, Concord, CA 94520
(*Sent via electronic mail to: Katherine.Szymanowski@arcadis.com*)

Dilan Roe, ACDEH, (*Sent via electronic mail to: dilan.roe@acgov.org*)
Paresh Khatri, ACDEH, (*Sent via electronic mail to: paresh.khatri@acgov.org*)
Keith Nowell, ACDEH (*Sent via electronic mail to: keith.nowell@acgov.org*)

GeoTracker, File



INVITATION TO COMMENT – POTENTIAL CASE CLOSURE

**UNOCAL #6129
3420 35th AVE., OAKLAND, CALIFORNIA
FUEL LEAK CASE RO0000058
GEOTRACKER GLOBAL ID T0600101465**

February 19, 2018

The above referenced site is a fuel leak case that is under the regulatory oversight of the Alameda County Department of Environmental Health (ACDEH) Local Oversight Program for the investigation and cleanup of a release of petroleum hydrocarbons from an underground storage tank system. Site investigation and cleanup activities have been completed and the site has been evaluated in accordance with the State Water Resources Control Board Low-Threat Closure Policy. The site appears to meet all of the criteria in the Low-Threat Closure Policy. Therefore, ACDEH is considering closure of the fuel leak case.

The public is invited to review and comment on the potential closure of the fuel leak case. This notice is being sent to the current occupants and landowners of the site and adjacent properties and other known interested parties. The entire case file can be viewed over the Internet on the ACDEH website (<http://www.acgov.org/aceh/lop/ust.htm>) or the State of California Water Resources Control Board GeoTracker website (<http://geotracker.waterboards.ca.gov>). Please send written comments to Keith Nowell at the address below; all comments will be forwarded to the responsible parties. Comments received by **April 20, 2018** will be considered and responded to prior to a final determination on the proposed case closure.

If you have comments or questions regarding this site, please contact the ACDEH caseworker, Keith Nowell at 510-567-6746 or by email at keith.nowell@acgov.org. Please refer to ACDEH case RO0000058 in any correspondence.

Parcel APN	Name	StreetAddress	Unit	City	Zip	Zip_4
28-950-37-1	SULL RAJINDER S & SUKHVINDER	2004 HARTNELL ST		UNION CITY CA	94587	3241
28-950-37-1	OCCUPANT	3201 35TH AVE		OAKLAND CA	94619	
28-952-11-3	BASUINO JAMES E & JANICE M TRS & BASUINO JOSE ETAL	2003 COMISTAS DR		WALNUT CREEK CA	94598	4210
28-952-11-3	OCCUPANT	3390 ARKANSAS ST		OAKLAND CA	94602	
28-952-12-4	CHEW SHERWIN H	686 10TH ST	7	OAKLAND CA	94607	3675
28-952-12-4	OCCUPANT	3301 35TH AVE		OAKLAND CA	94619	
28-952-13-5	THAI ANH T	2843 CORTINA WAY		UNION CITY CA	94587	1553
28-952-13-5	OCCUPANT	3231 35TH AVE		OAKLAND CA	94619	
28-955-1	SANCHEZ EMILIA	3468 MIDVALE AVE		OAKLAND CA	94602	3826
28-955-2-1	KWONG DAVID & MONA TRS	715 E 12TH ST		OAKLAND CA	94606	3624
28-955-2-1	OCCUPANT	35TH AVE		OAKLAND CA	94602	
28-955-3-4	HIGHTREE APARTMENTS LLC	2425 CHANNING WAY	692	BERKELEY CA	94704	2260
28-955-3-4	OCCUPANT	3451 35TH AVE		OAKLAND CA	94619	
28-955-6-5	TANG LINGHONG & LIU JIANG	1144 OAKLAND AVE		PIEDMONT CA	94611	4152
28-955-6-5	OCCUPANT	3420 DELAWARE ST		OAKLAND CA	94602	
28-955-7-2	BURKETT JARRELL D	3404 DELAWARE ST		OAKLAND CA	94602	
28-955-8	KRIDLE ROBERT J & JUDITH B TRS	7117 THORNHILL DR		OAKLAND CA	94611	1339
28-955-8	OCCUPANT	3328 DELAWARE ST		OAKLAND CA	94602	
28-956-13-3	LOI NGUYEN & YVONNE LE FAMILY LLC	808 HEDGESTONE WAY		MODESTO CA	95355	4559
28-956-13-3	OCCUPANT	3420 QUIGLEY ST		OAKLAND CA	94619	
28-956-14	STARKS ERMA L TR	3474 MIDVALE AVE		OAKLAND CA	94602	3874
28-956-14	OCCUPANT	3476 MIDVALE AVE		OAKLAND CA	94602	
28-956-15	WASHINGTON LINDA V TR	3480 MIDVALE AVE		OAKLAND CA	94602	3826
28-956-16	BRIDGES AARON S & DEBORAH M	3482 MIDVALE AVE		OAKLAND CA	94602	3826
30-1980-1	REDWOOD & 35TH AVENUE GAS STATION INC	6247 RIDGEMONT DR		OAKLAND CA	94619	3726
30-1980-1	OCCUPANT	3420 35TH AVE		OAKLAND CA	94619	
30-1980-2	PENG FENG B	3519 QUIGLEY ST		OAKLAND CA	94619	1338
30-1980-3	TUNG KWOK H & LI HUI Q	3105 FERNSIDE BLVD		ALAMEDA CA	94501	1759
30-1980-3	OCCUPANT	3525 QUIGLEY ST		OAKLAND CA	94619	
30-1980-20-1	CHAN ANDY H & CHEN PETER H ETAL	13081 BROOKPARK RD		OAKLAND CA	94619	3503
30-1980-20-1	OCCUPANT	3450 35TH AVE		OAKLAND CA	94619	
30-1980-21	LEI SHI Z & CAI QI S	3480 35TH AVE		OAKLAND CA	94619	1335
30-1980-22	MCCOWN JESSE M	3486 35TH AVE		OAKLAND CA	94619	1335
30-1980-23	WU EVAN	1169 BROADWAY ST		SAN FRANCISCO CA	94109	2163
30-1980-23	OCCUPANT	3492 35TH AVE		OAKLAND CA	94619	
30-1980-24	RESS CASEY & ROSSEAU KELLIE	3507 REDDING ST		OAKLAND CA	94619	1321
30-1980-25	ZHU JIAN H & MARK YUE N	3515 REDDING ST		OAKLAND CA	94619	1321
30-1980-26	MILLER MATTHEW P	3521 REDDING ST		OAKLAND CA	94619	1321
30-1980-53	BERHANE ZERAY ETAL	1321 GOLDEN GATE AVE		SAN FRANCISCO CA	94115	4715
30-1980-53	OCCUPANT	3520 QUIGLEY ST		OAKLAND CA	94619	
30-1980-54	BITKER STEVE B & LAIBITKER ALICE TRS	2 BEAUFORT HARBOR LNDG		ALAMEDA CA	94502	6516
30-1980-54	OCCUPANT	3518 QUIGLEY ST		OAKLAND CA	94619	
32-2030-130	LEE MAX	137 CRESCENT AVE		BURLINGAME CA	94010	5246
32-2030-130	OCCUPANT	3216 35TH AVE		OAKLAND CA	94619	
32-2030-131	HO SAM P & LINNA C	3230 35TH AVE		OAKLAND CA	94619	1206

32-2030-131	OCCUPANT	3232 35TH AVE	OAKLAND CA	94619			
32-2030-132	ESPINELLO JOSE C & OLIVIA C TRS	3300 35TH AVE	OAKLAND CA	94619	1206		
32-2030-133-1	LIANG GUO S	3314 35TH AVE	OAKLAND CA	94619	1206		
32-2030-137-1	CHEN JOHN Y & NG YING	6167 MOUNT DIABLO CT	CASTRO VALLEY CA	94552	1948		
32-2030-137-1	OCCUPANT	3329 OCTAVIA ST	OAKLAND CA	94619			
32-2030-138	WHEAT EVELYN E TR	3319 OCTAVIA ST	OAKLAND CA	94619	1267		
32-2030-143	RICHARDS ELLEN L	3518 SUTER ST	OAKLAND CA	94619	1233		
32-2030-144	MA JASON & LANA & JENNY	484 CREIGHTON WAY	OAKLAND CA	94619	2308		
32-2030-144	OCCUPANT	3510 SUTER ST	OAKLAND CA	94619			
32-2030-145	HO STEPHEN K & LI JINLI	3508 SUTER ST	OAKLAND CA	94619	1233		
32-2030-145	OCCUPANT	3506 SUTER ST	OAKLAND CA	94619			
28-952-13-3	LU EDWARD Z TR & LU GEORGE	2503 LAKEVIEW DR	SAN LEANDRO CA	94577	6310		
28-952-13-3	OCCUPANT	3397 ARKANSAS ST	OAKLAND CA	94602			
	OAKLAND PUBLIC WORKS	250 FRANK OGAWA PLAZA	SUITE 1 OAKLAND, CA	94612			ATTN: MARK ARNIOLA marniola@oaklandnet.com
	EAST BAY MUNICIPAL UTILITY DISTRICT	P.O. BOX 24055	MS 702 OAKLAND CA	94623	1055		ATTN: CHANDRA JOHANNESON cjohnanne@ebmud.com
	SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD	1515 CLAY ST., STE 1400	OAKLAND CA	94612			ATTN: LAURENT MEILLIER laurent.meillier@waterboards.ca.gov
	ALAMEDA COUNTY CERTIFIED UNIFIED PROGRAM AGENCY	1131 HARBOR BAY PARKWAY	ALAMEDA CA	94502	6577		ATTN: SUSAN HUGO susan.hugo@acgov.org

ATTACHMENT E

Attachment E-1: List of Attachments

Attachment E-2: List of Acronyms & Symbols

ATTACHMENT E-1

LIST OF ATTACHMENTS

A	LTCP Evaluation
A-1	Geotracker LTCP Evaluation Checklist
A-2	Site Conceptual Model Summary
A-3	LTCP Media Specific Evaluation for Groundwater
A-4	LTCP Media Specific Evaluation for Vapor Intrusion
A-5	LTCP Media Specific Evaluation for Direct Contact and Outdoor Air Exposure
B	Site Investigation Data
B-1	Site Vicinity & Site Maps with Sampling Locations,
B-2	Preferential Pathways & Sensitive Receptor Survey Data
B-3	Boring Logs
B-4	Groundwater Data
B-5	Soil Data
C	Responsible Party and Property Information
C-1	Responsible Party & Assessor's Office Property Information, Site Configuration at Time of Case Closure
C-2	Site Configuration at Time of Case Closure
D	Case Closure Public Notification Information
D-1	Public Notification Fact Sheet & Distribution List
E	Closure Form Keys
E-1	List of Attachments
E-2	List of Acronyms & Symbols

ATTACHMENT E-2

Acronym or Symbol	Description
ACDEH	Alameda County Department of Environmental Health
APN	Assessor Parcel Number
BTEX	benzene, toluene, ethylbenzene, xylenes
EDB	ethylene dibromide or 1,2-dichloroethane (1,2-DCA)
EDC	ethylene dichloride
CEG	Certified Engineering Geologist
Cd	cadmium
Cr	chromium
c/o	care of
DIPE	di-isopropyl ether
DTSC	California Department of Toxic Substances Control
ECs	engineering controls
EPA	Environmental Protection Agency
ETBE	ethyl tert butyl ether
EtOC	ethanol
ft bgs	feet below ground surface
GW	groundwater
IA	indoor air
ICs	institutional controls
ID	Identification
K	1,000
LOP	Local Oversight Program
LTCP	State Water Resources Control Board's Low Threat Closure Policy
LUST	Leaking Underground Storage Tank
MTBE/TBA	methyl tert butyl ether/t-butyl alcohol
N	naphthalene
Ni	nickel
NA	not analyzed
NR	not required
OA	outdoor air

ATTACHMENT E-2

LIST OF ACRONYMS & SYMBOLS (CONTINUED)

Acronym or Symbol	Description
Pb	lead
PCBs	polychlorinated biphenyls
PE	California Professional Engineer
PG	California Professional Geologist
S	soil
SCP	Site Cleanup Program
SS	sub-slab vapor
SV	soil vapor
SVOCs	semi volatile organic compounds
SW	surface water
TAME	tert amyl methyl ether
TPHbo	total petroleum hydrocarbons as bunker oil
TPHd	total petroleum hydrocarbons as diesel
TPHg	total petroleum hydrocarbons as gasoline
TPHho	total petroleum hydrocarbons as hydraulic oil
TPHjf	total petroleum hydrocarbons as jet fuel
TPHk	total petroleum hydrocarbons as kerosene
TPHmo	total petroleum hydrocarbons as motor oil
TPHss	total petroleum hydrocarbons as stoddard solvent
UST	underground storage tank
VOCs	volatile organic compounds
Zn	zinc
mg/kg	milligrams per kilogram
µg/L	microgram per liter
µg/m ³	microgram per cubic meter
>, <, ≥	greater than, less than, or greater than or equal to
%	percent