ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
OFFICE OF THE DIRECTOR
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6777
FAX (510) 337-9135

REMEDIAL ACTION COMPLETION CERTIFICATION

February 24, 2014

Mr. Brian Waite
Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
(Sent via electronic mail to:
BWaite@chevron.com)

Mr. Hai Pham
3530 MacArthur Boulevard
Oakland, CA 94619

Subject: Case Closure for Fuel Leak Case Fuel Leak Case No. RO0000405 and Geotracker Global ID T0600101790, Chevron #9-8341, 3530 MacArthur Boulevard, CA 94619

Dear Messrs. Waite and Pham:

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:

- 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,

Ariu Levi
Director

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director

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

February 24, 2014

Mr. Brian Waite
Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
(Sent via electronic mail to:
BWaite@chevron.com)

Mr. Hai Pham
3530 MacArthur Boulevard
Oakland, CA 94619

Subject: Closure Transmittal; Fuel Leak Case No. RO0000405 and Geotracker Global ID T0600101790, Chevron #9-8341, 3530 MacArthur Boulevard, CA 94619

Dear Messrs. Waite and Pham:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

If you have any questions, please call Mark Detterman at (510) 567-6876. Thank you.

Sincerely,

Donna L. Drogos, P.E.
Division Chief

Enclosures: 1. Remedial Action Completion Certificate
2. Case Closure Summary

cc: Nate Allen, 10969 Trade Center Drive, Suite 106, Rancho Cordova, CA 95670
(sent via electronic mail to nallen@craworld.com)

Greg Barclay, 10969 Trade Center Drive, Suite 106, Rancho Cordova, CA 95670
(sent via electronic mail to gbarclay@craworld.com)

Ms. Cherie McCaulou (w/o enc.), SF- Regional Water Quality Control Board, 1515 Clay Street, Suite 1400, Oakland, CA 94612, (sent via electronic mail to CMacaulou@waterboards.ca.gov)

Donna Drogos, (sent via electronic mail to donna.drogos@acgov.org)
Dilan Roe (Sent via electronic mail to dilan.roe@acgov.org)
Mark Detterman (sent via electronic mail to mark.detterman@acgov.org)
Electronic File, GeoTracker

Alameda County Environmental Health

CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM

I. AGENCY INFORMATION

Date: August 3, 2013

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6876
Responsible Staff Person: Mark Detterman	Title: Senior Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Chevron #9-8341		
Site Facility Address: 3530 MacArthur Boulevard, Oakland, CA 94619		
RB Case No.: 01-1930	Local Case No.: STID 1042	LOP Case No.: RO0000405
URF Filing Date: 5/2/1994	Geotracker ID: T0600101790	APN: 30-1898-8-1

Responsible Parties	Addresses	Phone Numbers
Hai Pham 3530 MacArthur Blvd. Gas Station, Inc.	3530 MacArthur Blvd. Oakland, CA 94619-1326	---
Brian Waite Chevron Environmental Management Co.	6101 Bollinger Canyon Rd. San Ramon, CA 94583	(925) 790-6486

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	1,000-gal	Waste oil	Removed	3/10/1993
Fuel Piping			Removed	3/10/1993

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: The waste oil UST was reported as intact upon removal. Fuel product piping or dispenser release is assumed due to report of free phase petroleum below piping at time of removal.		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? Yes	Number: 3	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 2.67 feet bgs	Lowest Depth: 10.21 feet bgs	Flow Direction: South-southeast
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: No water supply wells were located within a ¼-mile radius of the site. One cathodic protection well was reported approximately 400 feet west (up- to cross-gradient) of the site by a 2001 well search for the Scooter Wilson site (RO0000280; 3600 MacArthur Blvd.) but details were not provided in the report for that site, nor was the cathodic well included in data from DWR in the 2009 well search conducted for this site. Based on the direction of groundwater flow it does not appear to be a potential conduit or sensitive receptor for the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: Peralta Creek, located approximately 1,000 feet northwest (upgradient) of site.
Off-Site Beneficial Use Impacts (Addresses/Locations): None identified	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	1,000-gal	Disposal – Erickson, Inc, Richmond, CA	5/9/1994
Piping	Unknown amount	Disposal – Erickson, Inc, Richmond, CA	5/9/1994
Free Product	None Reported	----	----
Soil	25 yd^3 260 yd^3	Disposal – Forward Landfill; Stockton, CA & Redwood Landfill; Novato, CA	4/26/1994 5/2/1994
Groundwater	25,000 gal	Not Reported	Not Reported

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
(Please see Attachments 1 through 6 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	1,300	1,300	5,200 [4]	< 50
TPH (Diesel)	< 10	<10	<50 [5]	<50 [5]
TPH (Motor Oil)	----	----	----	----
Oil and Grease	180	<50	Not Analyzed	Not Analyzed
Benzene	6	6	390	< 0.5
Toluene	38	38	80	< 0.5
Ethylbenzene	33	33	160 [6]	< 0.5
Xylenes	170	170	450	< 0.5
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	30 [1]	30 [1]	29 [7]	29 [7]
MTBE	0.13 [2]	0.13 [2]	6,100 [8]	500 [9]
Other (8240/8270)	<0.300 [3]	<0.300 [3]	<10 [10]	<10 [10]

1. Cd < 0.5 ppm; Cr = 20 ppm; Pb < 5 ppm; Ni = 18 ppm; and Zn = 30 ppm
2. MTBE = 0.13 ppm; TAME = 0.002 ppm; TBA = 0.044 ppm; DIPE, ETBE, 1,2-DCA, and EDB < 0.001 ppm; EtOH and MeOH not analyzed in soil.
3. TCE, PCE, vinyl chloride, 1,2-DCE <0.005 ppm; naphthalene, PNAs < 0.300 ppm
4. A concentration of 17,000 ppb TPH gasoline is reported from offsite downgradient bore B-15; however, the source of the TPH gasoline in this bore appears to be from fuel leak case Scooter Wilson (RO0000280; 3600 MacArthur Blvd.), located across Magee Avenue from the subject site.
5. A concentration of 40,000 ppb TPH diesel was reported from offsite downgradient bore B-15; however, the source of the TPH diesel in this bore appears to be from fuel leak case Scooter Wilson (RO0000280; 3600 MacArthur Blvd.), located across Magee Avenue from, and the lack of a reported diesel source at, the subject site.
6. A concentration of 490 ppb ethylbenzene was reported from offsite downgradient bore B-15; however, the source of the contamination in this bore appears to be from fuel leak case Scooter Wilson (RO0000280; 3600 MacArthur Blvd.), located across Magee Avenue from the subject site.
7. Cd <5 ppb; Cr 20 ppb; Pb 7 ppb; Ni 28 ppb; and Zn 29 ppb
8. MTBE = 6,100 ppb; TAME = 11 ppb; TBA = 41 ppb; DIPE, ETBE, 1,2-DCA, and EDB < 0.5 ppb; EtOH < 50 ppb
9. MTBE = 500 ppb; TAME, ETBE, and DIPE < 0.5 ppb; TBA < 2 ppb and EDB < 0.5 ppb; EtOH < 50 ppb
10. TCE, PCE, vinyl chloride, 1,2-DCE <0.5 ppb; naphthalene, PNAs <10 ppb

Site History and Description of Corrective Actions:

The site is located at the corner of MacArthur Boulevard and Magee Street in Oakland, CA. Surrounding land is mixed commercial and residential. Previously, the site was a Chevron service station until 2004 when it was re-branded to as a Valero service station. The property has reportedly been occupied by a service station since 1946. The station was previously equipped with two hydraulic hoists in the service area, two 7,500-gallon and one 3,000-gallon gasoline underground storage tanks (USTs), one 1,000-gallon waste oil UST, and two dispenser islands. In 1984, the former steel gasoline and waste oil USTs were replaced with three 10,000-gallon fiberglass gasoline USTs and one 1,000-gallon fiberglass UST. No documentation of this event was submitted.

The topography of the site slopes gently towards the southwest. Soils at the site are characterized as alluvial deposits, consisting primarily of interbedded layers of clayey, silty, and sandy soils with varying amounts of clay, silt, sand, and gravel to the maximum explored depth of 45 feet below ground surface (bgs).

In January 1993, three soil samples (TR-1 through TR-3) were collected from a PG&E excavation on the sidewalk near the southern corner of the site. A grab groundwater sample (TR-4) was also collected from groundwater encountered at three feet bgs in the approximately four foot deep excavation trench. The soil samples contained up to 7 parts per million (ppm) Total Petroleum Hydrocarbons as gasoline (TPHg). The grab groundwater sample contained 2,500 parts per billion (ppb) TPHg and 390 ppb benzene.

On April 19, 1994, one 1,000-gallon fiberglass waste oil tank was excavated and replaced at a new location on the site. No obvious holes or leaks were observed during the tank replacement. Soil samples were collected from the tank excavation pit (WO-N and WO-S) and soil stockpiles. Groundwater was encountered at approximately six feet bgs and one grab groundwater sample was collected from the waste oil excavation pit. No detectable concentrations of TPHg, TPHd, TOG, BTEX, chlorinated volatile organic compounds, or semi-volatile organic compounds were present in soil and in groundwater in the UST removal confirmation samples. Up to 180 ppm TOG, 540 ppm TPHg, 1.1 ppm benzene, and 9.2 ppm ethylbenzene were documented in the stockpile samples.

On April 26, 1994 the product lines to the gasoline USTs were replaced and product line trench (P-1 through P-6) samples were collected. Detectable contaminant concentrations were found in the product line trench at concentrations up to 1,200 ppm TPHg, 2.2 ppm benzene, and 3.4 ppm ethylbenzene at a depth of 3.5 feet bgs. On May 2 and 5, 1994, the product line trenches were over-excavated to remove residual petroleum hydrocarbons. Soil samples collected during over-excavation activities contained up to 1,300 ppm TPHg, 6 ppm benzene, and 33 ppm ethylbenzene at a depth of 5 feet bgs. As with the initial product line removal excavation soil results, soil samples collected beneath the northern end of the western dispenser contained the highest concentrations of hydrocarbons. A subsequent soil bore (B-16) defined the vertical extent of petroleum hydrocarbon contamination at this location (see below).

The gasoline USTs were also upgraded in the 1994 site renovation work and that approximately 25,000 gallons of groundwater were pumped from the excavation and disposed of offsite.

On March 18, 1996, wells MW-1, MW-2, and MW-3 were installed to depths of 30, 35, and 45 fbgs. Twenty-two soil samples were collected from the borings at five-foot intervals and at intervals where soil contamination appeared to be present. Groundwater samples were collected from the completed monitoring wells on April 4, 1996. Soil concentrations up to 400 ppm TPHg, 0.62 ppm toluene, and 4.7 ppm ethylbenzene were detected. No benzene was detected in soil. The only petroleum hydrocarbon detection in groundwater was MTBE from well MW-2 at a concentration of 6,100 ppb.

In 1999, a preferential pathway study identified a gas line, electrical line, and cable line beneath the sidewalk bordering the site along MacArthur Boulevard. These utilities were estimated to all be above four feet bgs. An electrical line also extends from the site's station building towards the southern corner of the property. A sanitary sewer (depth of 6 feet), storm drain (depth of 6 to 7 feet), and water line (depth of 3 to 3.5 feet), are present beneath Magee Avenue and MacArthur Boulevard. The study concluded that the sanitary sewer, storm, and water lines could be preferential pathways, since their depths were within the known range of groundwater depth (2.67 to 10.21 feet bgs). Low onsite grab groundwater and groundwater concentrations appear to indicate limited potential for a significant offsite groundwater contaminant plume.

On July 29 and 30, 2003, eight soil borings (B-1 and B-3 through B-9) were advanced to total depths between 6 and 10.5 feet bgs. Groundwater was encountered in the borings between 3 and 10 feet bgs. Soil samples were collected from the borings above the water table and at approximately 9 to 9.5 feet bgs. Grab groundwater samples were collected from all borings. TPHg and MTBE were detected in soil at concentrations up to 3.3 ppm and 0.13 ppm,

respectively, at a depth of 2 and 9.5 feet, respectively. The grab groundwater sample collected from boring B-8 contained the highest concentrations of 5,200 ppb TPHg, 3 ppb benzene, and 980 ppb MTBE at an approximate depth of 10 feet bgs. Grab groundwater samples collected from borings B-4 and B-7 also contained MTBE at concentrations of 420 and 460 ppb, respectively.

On December 14, 2006, six bores were attempted, but only one boring (B-11) was completed to the total depth of 24 feet bgs. Underground utilities and subsurface shallow refusal prevented the completion of the remaining five borings. Boring B-11 is located near the northern corner of the site, upgradient from the current gasoline UST complex. Groundwater was not encountered in boring B-11, and no grab groundwater sample was collected. A total of five soil samples were collected at five-foot intervals beginning at five feet bgs. The soil samples detected up to 0.002 ppm toluene and 0.33 ppm MTBE. No other petroleum hydrocarbons were found in soil above detection limits.

On May 11 and 12, 2010, four offsite borings (B-12 through B-15) were advanced along MacArthur Boulevard across the street from the site to define the lateral extent of contamination. An additional boring (B-16) was advanced onsite to determine the vertical extent of contamination previously detected in boring PX-8. Grab groundwater samples were collected from each boring. Soil samples collected from the borings contained up to 56 ppm TPHg and 0.004 ppm benzene at a depth of 7 feet bgs. No detectable concentrations of petroleum hydrocarbons were present in soil or groundwater samples collected from onsite soil bore SB-16. Grab groundwater collected from offsite boring B-15 contained the greatest constituent concentrations of 40,000 Total Petroleum Hydrocarbons as diesel (TPHd), 17,000 ppb TPHg, and 34 ppb benzene. The only detection of MTBE in groundwater was 0.6 ppb, from boring B-14.

The former Scooter Wilson Auto Repair property at 3600 MacArthur Boulevard is also a leaking underground storage tank site (LOP Case No. RO0000280, GeoTracker ID T0600102113). Dissolved phase concentrations of TPHg and TPHd detected in the grab groundwater sample from boring B-15 are suspected to be from the former diesel and gasoline USTs at the Scooter Wilson site.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, closure of this site appears to be consistent with the policies established by the SWRCB LTCP which became effective on August 17, 2012.		
Site Management Requirements: This fuel leak case has been evaluated for closure consistent with the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). Based on this evaluation, no site management requirements appear to be necessary.		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? No		Date Recorded: ----
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 3
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: NA		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

- A concentration of 56 ppm TPH gasoline, and 0.004 ppm benzene was detected in offsite downgradient soil bore B-15. A concentration of 17,000 ppb TPH gasoline, 40,000 ppb TPH diesel, and 490 ppb ethylbenzene was also detected in offsite downgradient bore B-15. The source of the contaminants in this bore is suspected to be from fuel leak case Scooter Wilson (RO0000280; 3600 MacArthur Blvd.), located across Magee Avenue from the subject site.
- Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

The site meets the general criteria for case closure under the LTCP.

The site does not appear to meet scenarios 1, 2, 3, or 4 of the groundwater media-specific criteria for closure under the LTCP because a cathodic protection well is located within approximately 400 feet of the subject site.

However, ACEH believes case closure is appropriate based on an analysis of site-specific conditions:

1. The plume is stable or decreasing in size.
2. The plume is less than 250 feet in length.
3. There is no free product.
4. The dissolved concentration of benzene is less than 1,000 ppb.
5. The dissolved concentration of MTBE is less than 1,000 ppb.
6. No surface water bodies are within 1,000 feet of the plume boundary.
7. Based on the age of the plume, site hydrogeology, and apparent stability of the plume, the potential for the plume to pose a threat to the cathodic protection well, which is reported to be located to the west of the site, appears to be low. The potential for migration along preferential pathways provided by utility corridors has been evaluated for the site. Based on this evaluation, potential migration along utility corridors to the cathodic protection well does not pose a significant risk to water quality at depth.

Since the site is an active fueling station, on-site buildings are not required to meet the media-specific criteria for petroleum vapor intrusion to indoor air under the LTCP. Based on the horizontal distance between off-site buildings and the residual soil and groundwater contamination, there appears to be a low potential for vapor intrusion to indoor air for the off-site buildings.

The site appears to meet the media-specific criteria for direct contact and outdoor air exposure under the LTCP. The maximum concentrations of benzene and ethylbenzene detected in soil samples collected to date within the upper 10 feet are less than the media-specific criteria in Table 1 of the LTCP for direct contact and outdoor air exposure. Since the release at the site consisted primarily of gasoline, naphthalene concentrations are not likely to exceed the media-specific criteria in Table 1 of the LTCP.

Conclusion:

Alameda County Environmental Health staff believe that the site meets the conditions for case closure under the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy. Based upon the information available in our files to date, no further investigation or cleanup for the fuel leak case is necessary at this time.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Mark Detterman, P.G., C.E.G.	Title: Senior Hazardous Materials Specialist
Signature: Mark E. Detterman	Date: 8/5/2013
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: Donna L. Drogos	Date: 08/07/13

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: May 17, 2013	

VIII. MONITORING WELL DECOMMISSIONING

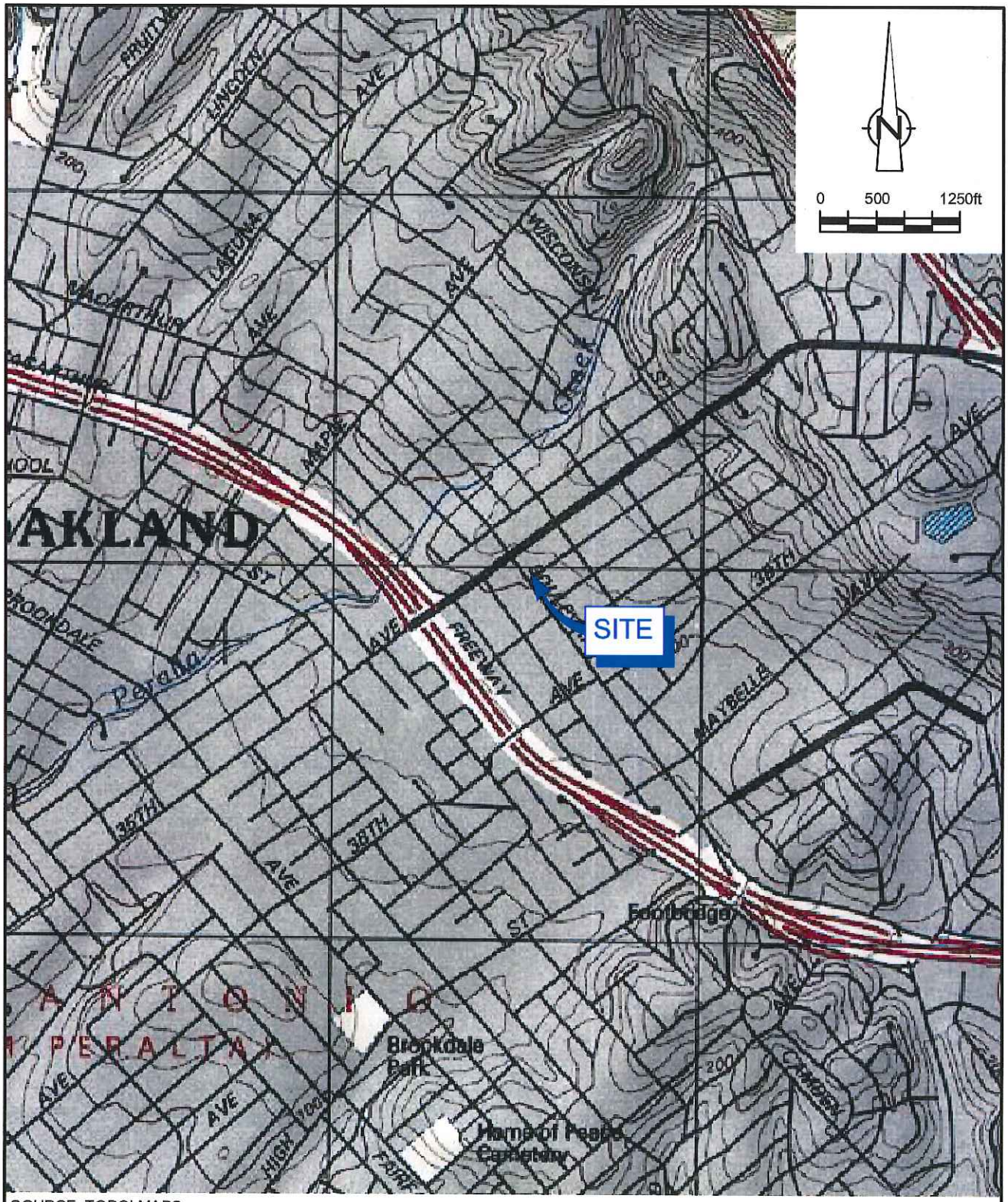
Date Requested by ACEH: 7/26/2013	Date of Well Decommissioning Report: 2/10/2014	
All Monitoring Wells Decommissioned: (Yes) No	Number Decommissioned: 3	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: NA		
ACEH Concurrence - Signature: Mark E. Detterman		Date: 2/24/2014

Attachments:

1. Site Vicinity Map (2 pp)
2. Site Plans (4 pp)
3. Soil Analytical Data (16 pp)
4. Groundwater Analytical Data (11 pp)
5. Boring Logs (21 pp)
6. Cross Sections (2 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

ATTACHMENT 1



SOURCE: TOPO! MAPS.

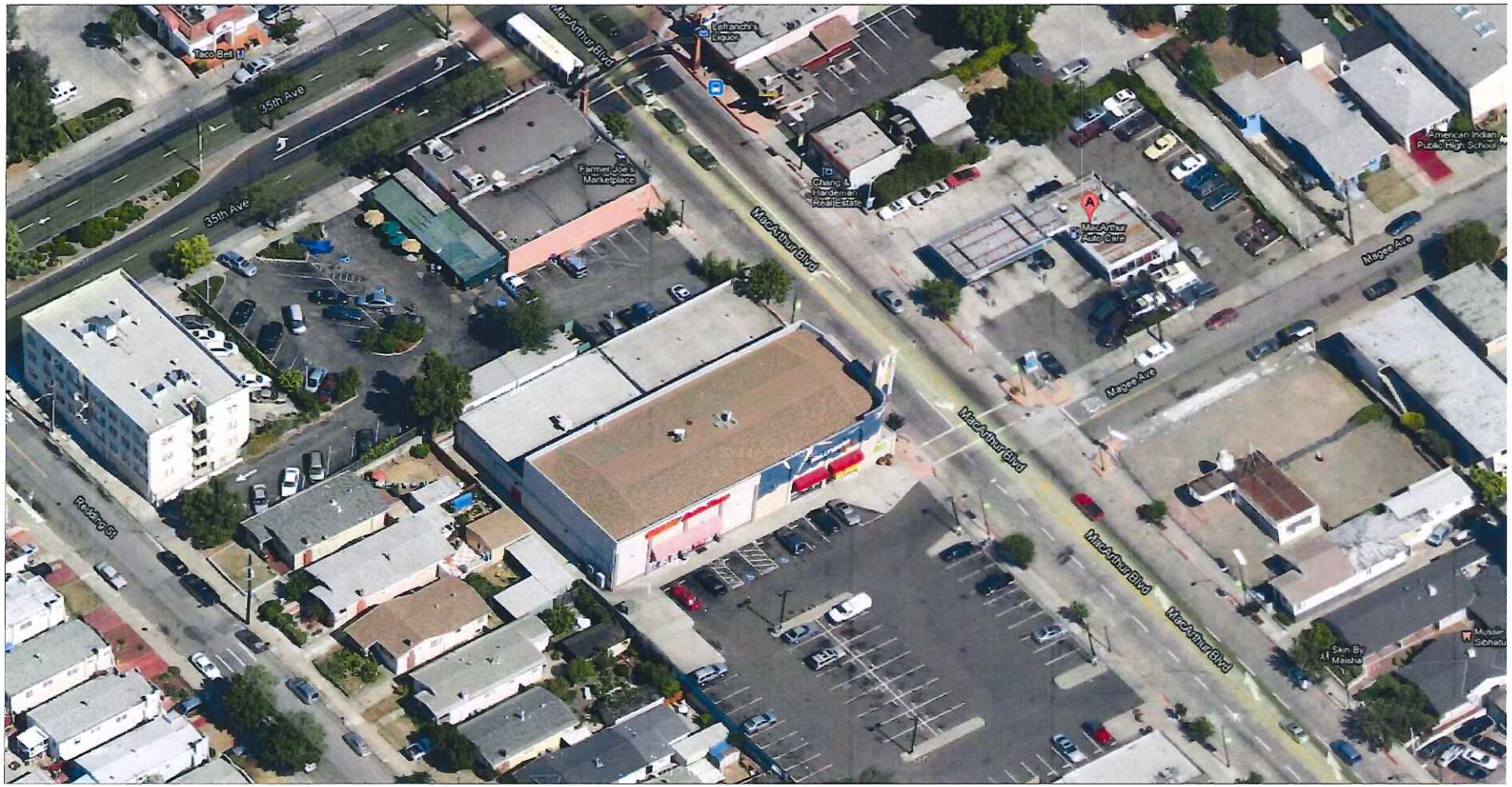
figure 1

VICINITY MAP
CHEVRON SERVICE STATION 9-8341
3530 MACARTHUR BOULEVARD
Oakland, California

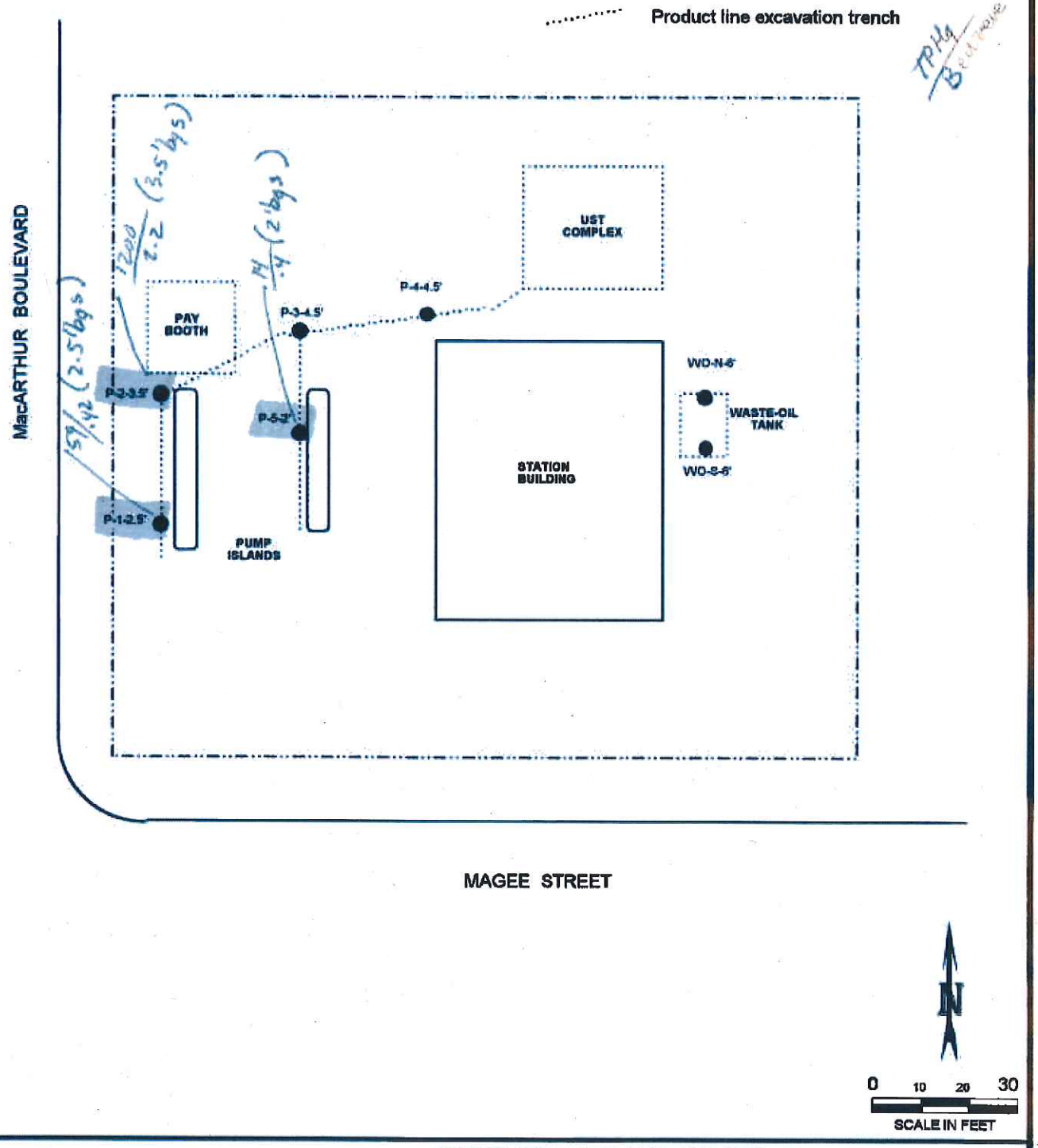
611650-121(010)GN-WA001 SEP 10/2010

Google

To see all the details that are visible on the screen, use the "Print" link next to the map.



ATTACHMENT 2



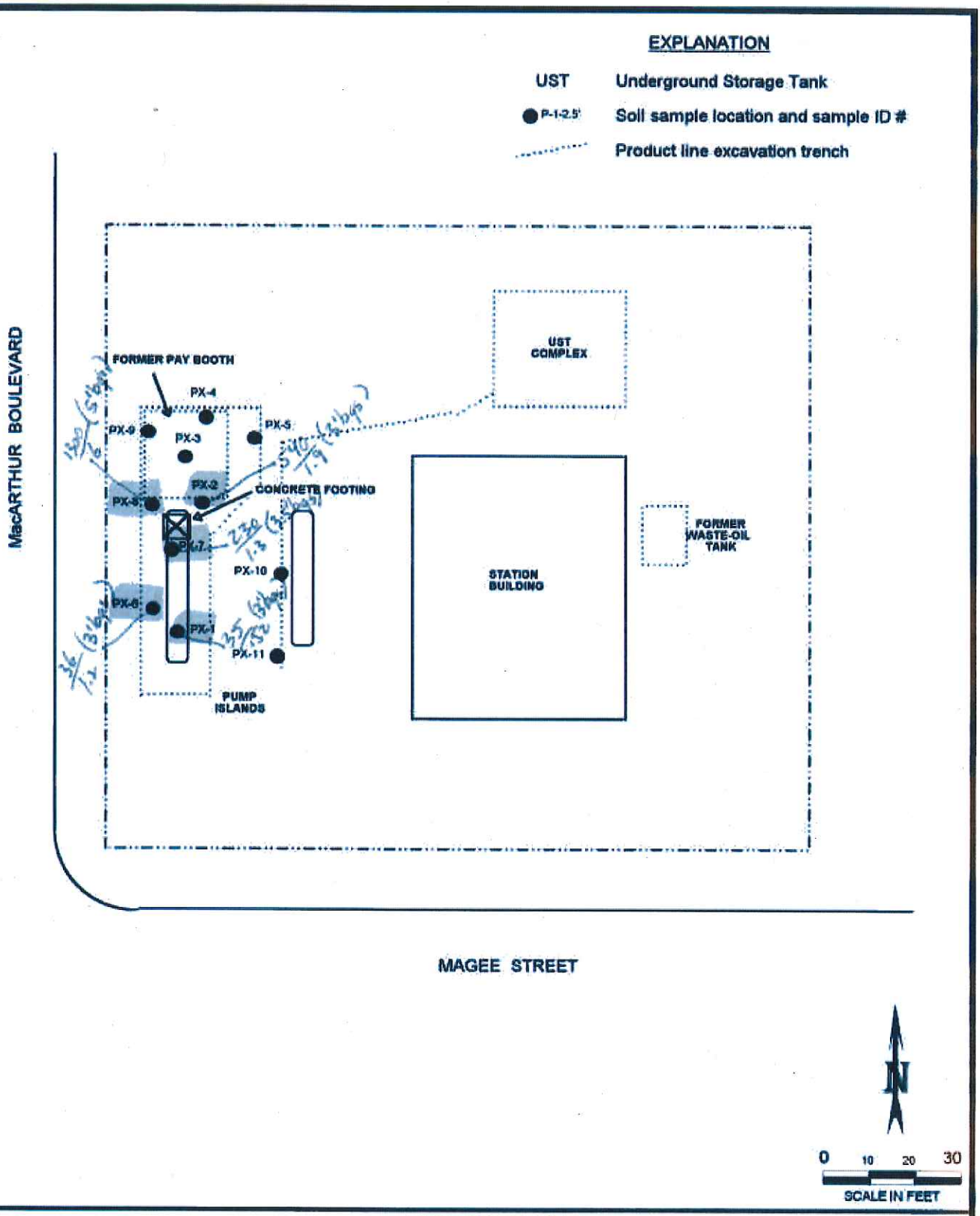
Touchstone Developments
Environmental Management

PRODUCT LINE AND WASTE-OIL TANK EXCAVATION AND SAMPLING

CHEVRON SERVICE STATION # 9-8341
3530 MacARTHUR BOULEVARD
OAKLAND, CALIFORNIA

FIGURE 2

PROJECT NO.	DATE	DRAWN BY:	BASE MAP:
8341-1	6/94	WTJ	TOUCHSTONE SITE PLAN 1/93



PRODUCT LINE OVEREXCAVATION SAMPLING

CHEVRON SERVICE STATION # 9-8341
3530 MacARTHUR BOULEVARD
OAKLAND, CALIFORNIA

FIGURE 3

Touchstone Developments
Environmental Management

PROJECT NO.	DATE	DRAWN BY:	BASE MAP:
8341-1	6/94	WTJ	TOUCHSTONE SITE PLAN 1/93

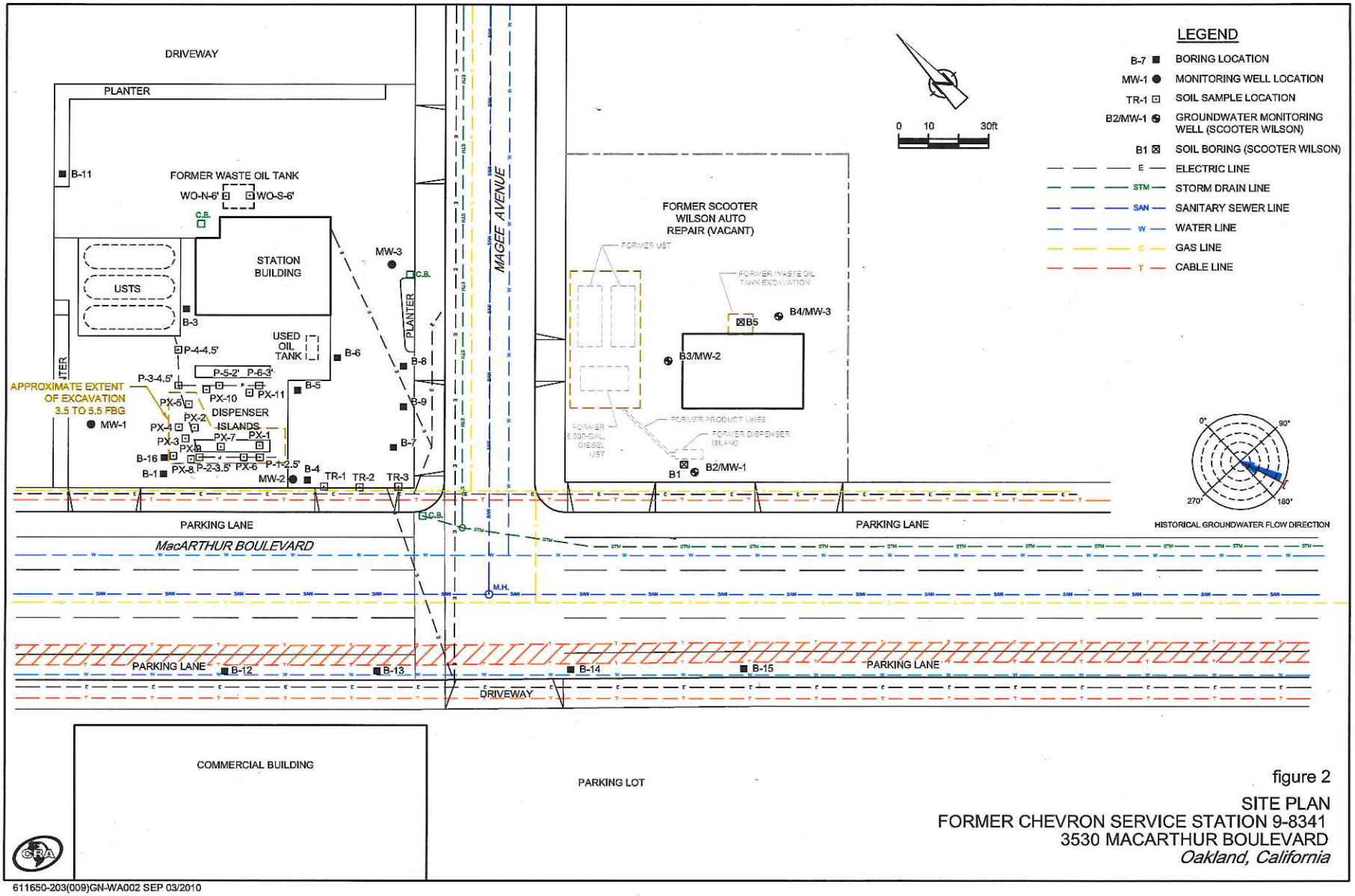


figure 2

SITE PLAN
FORMER CHEVRON SERVICE STATION 9-8341
3530 MACARTHUR BOULEVARD
Oakland, California

611650-203(009)GN-WA002 SEP 03/2010

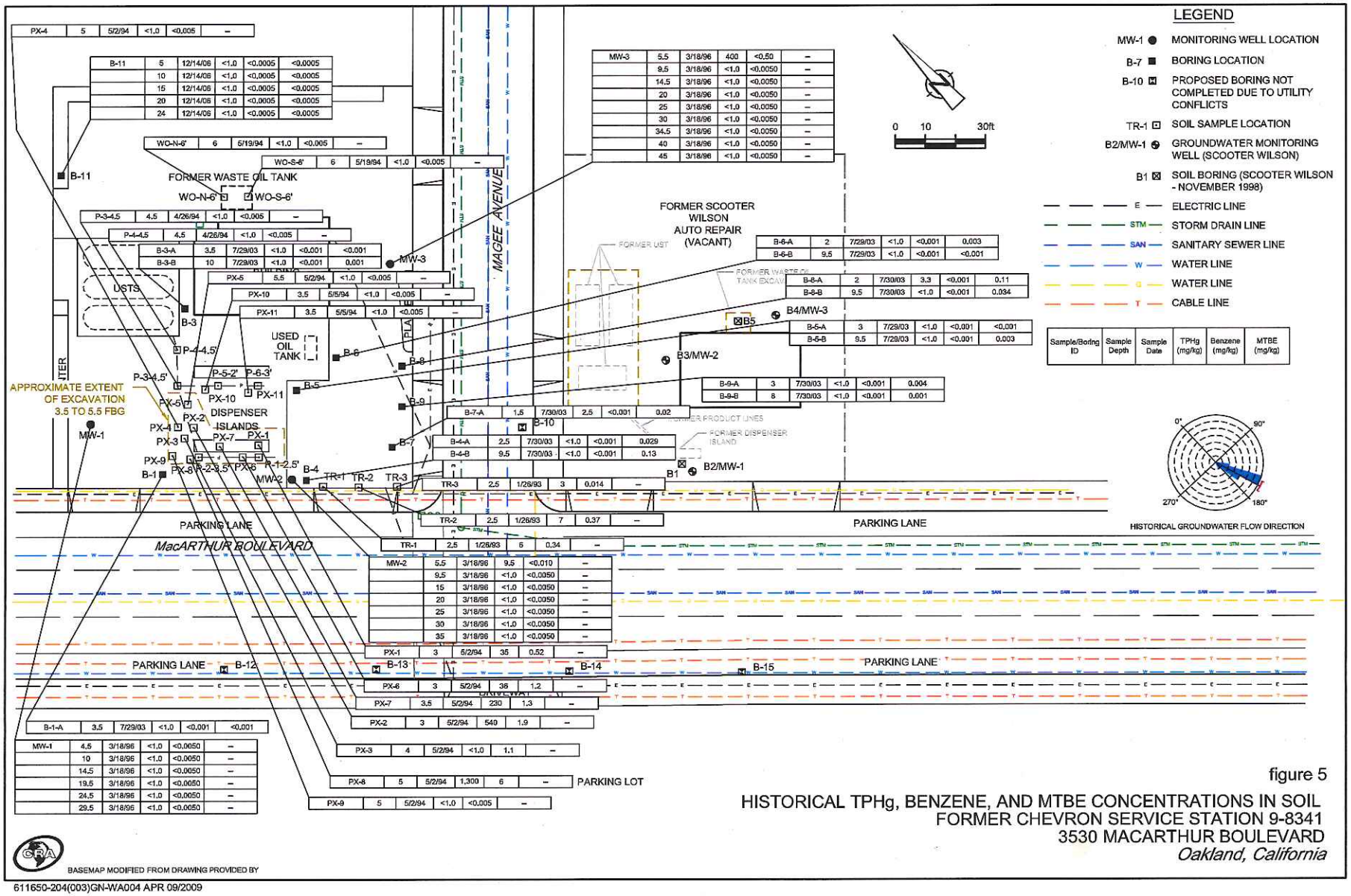


figure 5

HISTORICAL TPHg, BENZENE, AND MTBE CONCENTRATIONS IN SOIL
FORMER CHEVRON SERVICE STATION 9-8341
3530 MACARTHUR BOULEVARD
Oakland, California

BASEMAP MODIFIED FROM DRAWING PROVIDED BY

611650-204(003)GN-WA004 APR 09/2009

TABLE 2

SOIL SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON STATION 9-8341
3530 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

Sample/Boring ID	Sample Depth	Sample Date	TPHg	Benzene	Toluene	Ethylenzene	Xylenes	MTBE	Methanol	DIPE	ETBE	TAME	TBA	1,2 DCA	EDB	Ethanol	TPHd	TOG	HVOCs	SVOCs	Cadmium	Chromium	Lead	Nickel	Zinc
			milligrams per kilogram (mg/kg)																						
Trench Samples																									
TR-1	2.5	1/26/93	6	0.34	0.23	0.038	0.072	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TR-2	2.5	1/26/93	7	0.37	0.078	0.62	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TR-3	2.5	1/26/93	3	0.014	0.013	0.12	0.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Product Piping Excavation Samples																									
~~P-1-2.5~~	~~2.5~~	~~4/26/94~~	~~59~~	~~0.42~~	~~0.15~~	~~0.2~~	~~0.77~~	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
~~P-2-3.5~~	~~3.5~~	~~4/26/94~~	~~1,200~~	~~2.2~~	~~5.6~~	~~3.4~~	~~70.9~~	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<5.0	--	--
P-3-4.5	4.5	4/26/94	<1.0	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
P-4-4.5	4.5	4/26/94	<1.0	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
~~P-5-2~~	~~2~~	~~4/26/94~~	~~14~~	~~0.4~~	~~0.096~~	~~0.086~~	~~0.61~~	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
~~P-6-3~~	~~3~~	~~4/28/94~~	~~63~~	~~<0.020~~	~~<0.020~~	~~<0.020~~	~~0.74~~	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Product Piping Over-Excavation Samples																									
PX-1	3	5/2/94	35	0.52	0.15	0.41	0.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PX-2	3	5/2/94	540	1.9	4.2	9.2	1.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PX-3	4	5/2/94	<1.0	1.1	0.028	0.044	0.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PX-4	5	5/2/94	<1.0	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PX-5	5.5	5/2/94	<1.0	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PX-6	3	5/2/94	36	1.2	0.15	2	0.62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PX-7	3.5	5/2/94	230	1.3	0.92	6	29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PX-8	5	5/2/94	1,300	6	38	33	170	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PX-9	5	5/2/94	<1.0	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PX-10	3.5	5/5/94	<1.0	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PX-11	3.5	5/5/94	<1.0	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Used-Oil UST Removal Samples																									
WO-N-6'	6	5/19/94	<1.0	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--	<10	<50	ND	ND	<0.5	9	<5	5	10
WO-S-6'	6	5/19/94	<1.0	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--	<10	<50	ND	ND	<0.5	20	<5	18	30
Monitoring Well Borings																									
MW-1	4.5	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	14.5	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	19.5	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	24.5	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	29.5	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-2	5.5	3/18/96	9.5	<0.010	<0.010	0.018	0.024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9.5	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	15	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	20	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	30	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	35	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	5.5	3/18/96	400	<0.50	0.62	4.7	32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9.5	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	14.5	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

ATTACHMENT 3

TABLE 2

SOIL SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON STATION 9-8341
3530 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

Sample/Boring ID	Sample Depth	Sample Date	TPHg	Benzene	Toluene	Ethylenzene	Xylenes	MTBE	Methanol	DIPE	ETBE	TAME	TBA	1,2 DCA	EDB	Ethanol	TPHd	TOG	HVOCs	SVOCs	Cadmium	Chromium	Lead	Nickel	Zinc
			milligrams per kilogram (mg/kg)																						
MW-3	20	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	**0.0069**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	25	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	30	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	34.5	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	40	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	45	3/18/96	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Exploratory Borings																									
B-1-A	3.5	7/29/03	<1.0	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.20	--	--	--	--	--	--	--	--	--
B-3-A	3.5	7/29/03	<1.0	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.20	--	--	--	--	--	--	--	--	--
B-3-B	10.0	7/29/03	<1.0	<0.001	<0.001	<0.001	<0.001	**0.001**	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.20	--	--	--	--	--	--	--	--	--
B-4-A	2.5	7/30/03	<1.0	<0.001	<0.001	<0.001	<0.001	**0.029**	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.20	--	--	--	--	--	--	--	--	--
B-4-B	9.5	7/30/03	<1.0	<0.001	<0.001	<0.001	<0.001	**0.13**	--	<0.001	<0.001	**0.002**	<0.020	<0.001	<0.001	<0.20	--	--	--	--	--	--	--	--	--
B-5-A	3.0	7/29/03	<1.0	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.20	--	--	--	--	--	--	--	--	--
B-5-B	9.5	7/29/03	<1.0	<0.001	<0.001	<0.001	<0.001	**0.003**	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.20	--	--	--	--	--	--	--	--	--
B-6-A	2.0	7/29/03	<1.0	<0.001	<0.001	<0.001	<0.001	**0.003**	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.20	--	--	--	--	--	--	--	--	--
B-6-B	9.5	7/29/03	<1.0	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.20	--	--	--	--	--	--	--	--	--
B-7-A	1.5	7/30/03	**2.5**	<0.001	<0.001	<0.001	<0.001	**0.020**	--	<0.001	<0.001	**0.001**	<0.020	<0.001	<0.001	<0.20	--	--	--	--	--	--	--	--	--
B-8-A	2.0	7/30/03	**3.3**	<0.001	<0.001	**0.001**	**0.002**	**0.11**	--	<0.001	<0.001	**0.002**	**0.044**	<0.001	<0.001	<0.20	--	--	--	--	--	--	--	--	--
B-8-B	9.5	7/30/03	<1.0	<0.001	<0.001	<0.001	**0.001**	**0.034**	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.20	--	--	--	--	--	--	--	--	--
B-9-A	3.0	7/30/03	<1.0	<0.001	<0.001	<0.001	<0.001	**0.004**	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.20	--	--	--	--	--	--	--	--	--
B-9-B	8.0	7/30/03	<1.0	<0.001	<0.001	<0.001	<0.001	**0.001**	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.20	--	--	--	--	--	--	--	--	--
B-11	5	12/14/06	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	**0.26**	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.099	--	--	--	--	--	--	--	--	--
	10	12/14/06	<1.0	<0.0005	**0.002**	<0.001	<0.001	<0.0005	**0.33**	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.10	--	--	--	--	--	--	--	--	--
	15	12/14/06	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	**0.27**	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.099	--	--	--	--	--	--	--	--	--
	20	12/14/06	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.20	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.099	--	--	--	--	--	--	--	--	--
	24	12/14/06	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	**0.23**	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.099	--	--	--	--	--	--	--	--	--

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg) and diesel (TPHd) by EPA Method 8015M
Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020 or 8260B
Oxygenates and lead scavengers by EPA Method 8260B
Total oil and grease (TOG) by EPA Method 413.2
Halogenated volatile organic compounds (HVOCs) by EPA Method 8010
Semi-VOCs (SVOCs) by EPA Method 8270
Metals by EPA Method 6010
<x = Not detected at or above stated laboratory reporting limit

ND = Not detected; reporting limits vary
-- = Not analyzed
Note: Crossed out samples were collected from soil that was later over-excavated

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON STATION 9-8341
3530 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Boring ID	*Sample Depth (fbg)*	*Sample Date*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*TAME*	*TBA*	*ETBE*	*DIPE*
			← Concentrations reported in milligrams per kilogram (mg/kg) →									
B-12	8	5/11/10	<1	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.022	<0.001	<0.001
B-13	5	5/11/10	<1	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.020	<0.001	<0.001
B-14	7	5/12/10	<1	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.020	<0.001	<0.001
B-15	7	5/12/10	56	0.004	0.003	0.27	0.019	<0.0005	<0.001	<0.020	<0.001	<0.001
B-16	7	5/12/10	<1	<0.0006	<0.001	<0.001	<0.001	<0.0006	<0.001	<0.022	<0.001	<0.001

Abbreviations/Notes:
fbg = feet below grade
TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015
Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8260B
MTBE = Methyl tertiary butyl ether by EPA Method 8260B
TAME = Tertiary amyl methyl 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
<x = Not detected at or above stated laboratory reporting limits

TABLE A

PRODUCT LINE and WASTE-OIL REMOVAL SAMPLING SUMMARY

Results in mg/Kg - parts per million (ppm)

Product Line Sampling Results

SAMPLE ID #	DEPTH (feet)	LAB	DATE	TPH-Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	TOTAL LEAD
P-1-2.5	2.5	GTEL	26-Apr-94	59	0.42	0.15	0.20	0.77	NA
P-2-3.5	3.5	GTEL	26-Apr-94	1200	2.2	5.6	3.4	70.9	ND
P-3-4.5	4.5	GTEL	26-Apr-94	ND	ND	ND	ND	ND	NA
P-4-4.5	4.5	GTEL	26-Apr-94	ND	ND	ND	ND	ND	NA
P-5-2.0	2	GTEL	26-Apr-94	14	0.4	0.096	0.086	0.61	NA
P-6	3	GTEL	26-Apr-94	83	ND	ND	ND	0.74	NA

Product Line Overexcavation Sampling Results

SAMPLE ID #	DEPTH (feet)	LAB	DATE	TPH-Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	TOTAL LEAD
PX-1	3	GTEL	02-May-94	35	0.52	0.15	0.41	0.33	NA
PX-2	3	GTEL	02-May-94	540	1.9	4.2	9.2	1.8	NA
PX-3	4	GTEL	02-May-94	ND	1.1	0.028	0.044	0.12	NA
PX-4	5	GTEL	02-May-94	ND	ND	ND	ND	ND	NA
PX-5	5.5	GTEL	02-May-94	ND	ND	ND	ND	ND	NA
PX-6	3	GTEL	02-May-94	36	1.2	0.15	2	0.62	NA
PX-7	3.5	GTEL	02-May-94	230	1.3	0.92	6	29	NA
PX-8	5	GTEL	02-May-94	1300	6	38	33	170	NA
PX-9	5	GTEL	02-May-94	ND	ND	ND	ND	ND	NA
PX-10	3.5	GTEL	05-May-94	ND	ND	ND	ND	ND	NA
PX-11	3.5	GTEL	05-May-94	ND	ND	ND	ND	ND	NA

Waste-oil Removal Sampling Results

SAMPLE ID #	DEPTH (feet)	LAB	DATE	TPH-Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	TOTAL LEAD	TPH- Diesel	TOG
WO-N-6'	6	GTEL	19-May-94	ND	ND	ND	ND	ND	ND	ND	ND
WO-S-6'	6	GTEL	19-May-94	ND	ND	ND	ND	ND	ND	ND	ND

TPH-Gasoline = Total Petroleum Hydrocarbons calculated as Gasoline; TPH-Diesel = Total Petroleum Hydrocarbons calculated as Diesel

ND = Not Detected at or above laboratory detection limits; NA = Analysis not requested

TABLE B
STOCKPILE SAMPLING SUMMARY
Results in mg/Kg - parts per million (ppm)

TRENCH STOCKPILE SAMPLING RESULTS

SAMPLE ID #	LAB	DATE	TPH-Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes	ORGANIC LEAD
SP-1(A-D)	GTEL	28-Apr-94	130	ND	ND	ND	1.6	NA
SP-2(A-D)	GTEL	02-May-94	120	0.65	0.92	1.3	5.00	NA
SP-3(A-D)	GTEL	24-Apr-94	ND	ND	ND	ND	ND	ND
SP-4(A-D)	GTEL	05-May-94	ND	ND	ND	ND	ND	NA

WASTE-OIL STOCKPILE SAMPLING RESULTS

SAMPLE ID #	LAB	DATE	TPH-Gasoline	TPH-Diesel	Benzene	Toluene	Ethyl-benzene	Xylenes	TOG
SP-1(A-B)	GTEL	19-Apr-94	35	ND	0.52	0.15	0.41	0.33	180
SP-2(A-B)	GTEL	19-Apr-94	540	ND	1.9	4.2	9.2	1.8	23
SP-3A	GTEL	19-Apr-94	ND	NA	1.1	0.028	0.044	0.12	NA
SP-4A	GTEL	19-Apr-94	ND	NA	ND	ND	ND	ND	NA

WASTE-OIL EXCAVATION GROUNDWATER SAMPLING RESULTS (Results in ug/L, parts per billion, ppb)

SAMPLE ID #	LAB	DATE	TPH-Gasoline	TPH-Diesel	Benzene	Toluene	Ethyl-benzene	Xylenes	TOG
WO-H20	GTEL	24-May-94	ND	ND	ND	ND	ND	ND	ND

TPH-Gasoline = Total Petroleum Hydrocarbons calculated as Gasoline
TPH-Diesel = Total Petroleum Hydrocarbons calculated as Diesel
TOG = Total Oil & Grease
ND = Not Detected at or above laboratory detection limits
NA = Analysis not requested

Client Number: TOU02CHV08
Consultant Project Number: 834-2
Facility Number: 9-8341
Project ID: 3530 MacAuthur Ave. Oakland
Work Order Number: C4-05-0317

ANALYTICAL RESULTS
Volatile Halocarbons in Soil
EPA Method 8010[a]

GTEL Sample Number		01	02	03	04
Client Identification		WO-N-6'	WO-S-6'	SP-1A-B	SP-2A-B
Date Sampled		05/19/94	05/19/94	05/19/94	05/19/94
Date Extracted		05/23/94	05/23/94	05/23/94	05/23/94
Date Analyzed		05/23/94	05/23/94	05/23/94	05/23/94
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
Chloromethane	0.005	<0.005	<0.005	<0.005	<0.005
Bromomethane	0.005	<0.005	<0.005	<0.005	<0.005
Vinyl chloride	0.005	<0.005	<0.005	<0.005	<0.005
Chloroethane	0.005	<0.005	<0.005	<0.005	<0.005
Methylene chloride	0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethene	0.005	<0.005	<0.005	<0.005	<0.005
1,1-Dichloroethane	0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethene	0.005	<0.005	<0.005	<0.005	<0.005
Chloroform	0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	0.005	<0.005	<0.005	<0.005	<0.005
Carbon tetrachloride	0.005	<0.005	<0.005	<0.005	<0.005
Bromodichloromethane	0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloropropane	0.005	<0.005	<0.005	<0.005	<0.005
cis-1,3-Dichloropropene	0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	0.005	<0.005	<0.005	<0.005	<0.005
Dichlorodifluoromethane	0.005	<0.005	<0.005	<0.005	<0.005
Dibromochloromethane	0.005	<0.005	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	0.005	<0.005	<0.005	<0.005	<0.005
trans-1,3-Dichloropropene	0.005	<0.005	<0.005	<0.005	<0.005
2-Chloroethylvinyl ether	0.005	<0.005	<0.005	<0.005	<0.005
Bromoform	0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethene	0.005	<0.005	<0.005	<0.005	<0.005
1,1,2,2-Tetrachloroethane	0.005	<0.005	<0.005	<0.005	<0.005
Chlorobenzene	0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichlorobenzene	0.005	<0.005	<0.005	<0.005	<0.005
1,3-Dichlorobenzene	0.005	<0.005	<0.005	<0.005	<0.005
1,4-Dichlorobenzene	0.005	<0.005	<0.005	<0.005	<0.005
Trichlorofluoromethane	0.005	<0.005	<0.005	<0.005	<0.005
Detection Limit Multiplier		1	1	1	1
Percent solids		79.7	81.2	97.2	97.0
BFB surrogate, % recovery		72.8	83.8	79.2	83.8

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Bromoflourobenzene surrogate recovery acceptability limits are 70-130%.

Client Number: TOU02CHV09
Consultant Project Number: 834-2
Facility Number: 9-8341
Project ID: 3530 MacAuthur Ave. Oakland
Work Order Number: C4-05-0317

ANALYTICAL RESULTS
Semi-Volatile Organics in Soil
EPA Method 8270[a]

GTEL Sample Number		01	02	03	04
Client Identification		WO-N-6'	WO-S-6'	SP-1A-B	SP-2A-B
Date Sampled		05/19/94	05/19/94	05/19/94	05/19/94
Date Extracted		05/23/94	05/23/94	05/23/94	05/23/94
Date Analyzed		06/01/94	06/01/94	06/01/94	06/01/94
Analyte	Detection Limit, ug/Kg	Concentration, ug/Kg			
Phenol	300	<300	<300	<300	<300
bis(2-Chloroethyl)ether	300	<300	<300	<300	<300
2-Chlorophenol	300	<300	<300	<300	<300
1,3-Dichlorobenzene	300	<300	<300	<300	<300
1,4-Dichlorobenzene	300	<300	<300	<300	<300
Benzyl alcohol	300	<300	<300	<300	<300
1,2-Dichlorobenzene	300	<300	<300	<300	<300
2-Methylphenol	300	<300	<300	<300	<300
bis-(2-Chloroisopropyl)ether	300	<300	<300	<300	<300
4-Methylphenol	300	<300	<300	<300	<300
N-Nitroso-di-propylamine	300	<300	<300	<300	<300
Hexachloroethane	300	<300	<300	<300	<300
Nitrobenzene	300	<300	<300	<300	<300
Isophorone	300	<300	<300	<300	<300
2-Nitrophenol	300	<300	<300	<300	<300
2,4-Dimethylphenol	300	<300	<300	<300	<300
Benzoic acid	1500	<1500	<1500	<1500	<1500
bis(2-Chloroethoxy)methane	300	<300	<300	<300	<300
2,4-Dichlorophenol	300	<300	<300	<300	<300
1,2,4-Trichlorobenzene	300	<300	<300	<300	<300
Naphthalene	300	<300	<300	<300	<300
4-Chloroaniline	300	<300	<300	<300	<300
Hexachlorobutadiene	300	<300	<300	<300	<300
4-Chloro-3-methylphenol	300	<300	<300	<300	<300
2-Methylnaphthalene	300	<300	<300	<300	<300
Hexachlorocyclopentadiene	300	<300	<300	<300	<300
2,4,6-Trichlorophenol	300	<300	<300	<300	<300
2,4,5-Trichlorophenol	1500	<1500	<1500	<1500	<1500
2-Chloronaphthalene	300	<300	<300	<300	<300
2-Nitroaniline	1500	<1500	<1500	<1500	<1500
Dimethylphthalate	300	<300	<300	<300	<300
Acenaphthylene	300	<300	<300	<300	<300
3-Nitroaniline	1500	<1500	<1500	<1500	<1500
Acenaphthene	300	<300	<300	<300	<300
2,4-Dinitrophenol	1500	<1500	<1500	<1500	<1500
4-Nitrophenol	1500	<1500	<1500	<1500	<1500

Client Number: TOU02CHV06
Consultant Project Number: 834-2
Facility Number: 9-8341
Project ID: 3530 MacAuthur Ave. Oakland
Work Order Number: C4-05-0317

ANALYTICAL RESULTS
Semi-Volatile Organics in Soil
EPA Method 8270[a]

GTEL Sample Number		01	02	03	04
Client Identification		WO-N-6'	WO-S-6'	SP-1A-B	SP-2A-B
Date Sampled		05/19/94	05/19/94	05/19/94	05/19/94
Date Extracted		05/23/94	05/23/94	05/23/94	05/23/94
Date Analyzed		06/01/94	06/01/94	06/01/94	06/01/94
Analyte	Detection Limit, ug/Kg	Concentration, ug/Kg			
Dibenzofuran	300	<300	<300	<300	<300
2,4-Dinitrotoluene	300	<300	<300	<300	<300
2,6-Dinitrotoluene	300	<300	<300	<300	<300
Diethylphthalate	300	<300	<300	<300	<300
4-Chlorophenyl-phenylether	300	<300	<300	<300	<300
Fluorene	300	<300	<300	<300	<300
4-Nitroaniline	1500	<1500	<1500	<1500	<1500
4,6-Dinitro-2-methylphenol	1500	<1500	<1500	<1500	<1500
N-Nitrosodiphenylamine	300	<300	<300	<300	<300
4-Bromophenyl-phenylether	300	<300	<300	<300	<300
Hexachlorobenzene	300	<300	<300	<300	<300
Pentachlorophenol	1500	<1500	<1500	<1500	<1500
Phenanthrene	300	<300	<300	<300	<300
Anthracene	300	<300	<300	<300	<300
Di-n-butylphthalate	300	<300	<300	<300	<300
Fluoranthene	300	<300	<300	<300	<300
Pyrene	300	<300	<300	<300	<300
Butylbenzylphthalate	300	<300	<300	<300	<300
3,3'-Dichlorobenzidine	600	<600	<600	<600	<600
Benzo(a)anthracene	300	<300	<300	<300	<300
bis(2-Ethylhexyl)phthalate	300	<300	<300	<300	<300
Chrysene	300	<300	<300	<300	<300
Di-n-octylphthalate	300	<300	<300	<300	<300
Benzo(b)fluoranthene	300	<300	<300	<300	<300
Benzo(k)fluoranthene	300	<300	<300	<300	<300
Benzidine	600	<600	<600	<600	<600
Benzo(a)pyrene	300	<300	<300	<300	<300
Indeno(1,2,3-cd)pyrene	300	<300	<300	<300	<300
Dibenz(a,h)anthracene	300	<300	<300	<300	<300
Benzo(g,h,i)perylene	300	<300	<300	<300	<300
Detection Limit Multiplier		1	1	1	1
Percent solids		79.7	81.2	97.2	97.0
d5-Nitrobenzene surr., % rec.		80.8	80.2	80.4	81.9
2-Fluorobiphenyl surr., % rec.		72.8	79.0	90.6	86.3
d14-Terphenyl surr., % rec.		74.5	76.2	66.6	76.0
d5-Phenol surr., % rec.		91.3	91.8	87.0	92.3
2-Fluorophenol surr., % rec.		90.5	92.8	85.9	91.4
2,4,6-Tribromophenol surr., % rec.		90.4	91.2	96.1	94.0

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample [illegible] Method 3550. Results reported on a dry weight basis.

Client Number: TOU02CHV08
Consultant Project Number: 834-2
Facility Number: 9-8341
Project ID: 3530 MacAuthur Ave, Oakland
Work Order Number: C4-05-0316
Date Reissued: 07-21-94

ANALYTICAL RESULTS

Total Oil and Grease in Soil by Infrared Spectrometry

EPA 3550[1] (Mod.)/EPA 413.2[2](SM 5520 C[3])

GTEL Sample Number		01	02	052394 BLS	
Client Identification		WO-N-6'	WO-S-6'	METHOD BLANK	
Date Sampled		05/19/94	05/19/94	--	
Date Prepared		05/23/94	05/23/94	05/23/94	
Date Analyzed		05/23/94	05/23/94	05/23/94	
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
Total Oil and Grease	50	<50	<50	<50	
Detection Limit Multiplier		78.4	77.9	NA	

1. Test Methods for Evaluating Solid Waste, SW-846, 3rd edition, Rev. O, U.S. EPA, November, 1986.
2. Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Revised March 1983, U.S. Environmental Protection Agency. Results reported on a wet weight basis.
3. Standard Methods for the Examination of Water and Wastewater, 17th ed., 1989, American Public Health Association. NA = Not Applicable.

Client Number: TOU02CHV08
Consultant Project Number: 834-2
Facility Number: 9-8341
Project ID: 3530 MacAuthur Ave. Oakland
Work Order Number: C4-05-0317

ANALYTICAL RESULTS

Metals in Soil (TTLC)[a]

GTEL Sample Number			01	02	03	04
Client Identification			WO-N-6'	WO-S-6'	SP-1A-B	SP-2A-B
Date Sampled			05/19/94	05/19/94	05/19/94	05/19/94
Date Prepared (Method 3055[b])			05/19/94	05/19/94	05/19/94	05/19/94
Date Analyzed (Method 6010)			05/23/94	05/23/94	05/23/94	05/23/94
Analyte	EPA Method[a]	Detection Limit, mg/Kg	Concentration, mg/Kg			
Cadmium	EPA 6010[c]	0.5	<0.5	<0.5	<0.5	<0.5
Chromium, total	EPA 6010[c]	1	9	20	6	7
Lead	EPA 6010[c]	5	<5	<5	<5	<5
Nickel	EPA 6010[c]	2	5	18	9	14
Zinc	EPA 6010[c]	2	10	30	22	12
Detection Limit Multiplier			1	1	1	1
Percent Solids			79.7	81.2	97.2	97.0

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Results reported on a wet weight basis.
b. Draft EPA method 3055 SW-846 Third Addition Revision 1 Sept. 1991.
c. Inductively Coupled Argon Plasma (ICP).

TABLE A

EXPLORATORY SOIL BORING SAMPLING SUMMARY

Results in mg/Kg - parts per million (ppm)
Chevron Service Station No. 9-8341
3530 MacArthur Boulevard
Oakland, California

EXPLORATORY SOIL BORING RESULTS

SAMPLE ID	DEPTH (ft.)	LAB	DATE	TPH Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
MW-1-4.5	4.5	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-1-10.0	10	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-1-14.5	14.5	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-1-19.5	19.5	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-1-24.5	24.5	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-1-29.5	29.5	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-2-5.5	5.5	Sequoia	18-Mar-96	9.5	ND	ND	0.018	0.024
MW-2-9.5	9.5	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-2-15.0	15	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-2-20.0	20	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-2-25.0	25	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-2-30.0	30	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-2-35.0	35	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-3-3.5	3.5	Sequoia	18-Mar-96	400	ND	0.62	4.7	32
MW-3-9.5	9.5	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-3-14.5	14.5	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-3-20.0	20	Sequoia	18-Mar-96	ND	ND	ND	ND	0.0069
MW-3-25.0	25	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-3-30.0	30	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-3-34.5	34.5	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-3-40.0	40	Sequoia	18-Mar-96	ND	ND	ND	ND	ND
MW-3-45.0	45	Sequoia	18-Mar-96	ND	ND	ND	ND	ND

NOTE: Detection limit for TPH-G is 1.0 mg/Kg and BTEX is 0.0050 mg/Kg.

TPH-Gasoline = Total Petroleum Hydrocarbons calculated as Gasoline.

ND = Not Detected at or above the laboratory detection limit.

8341sb

Table 1

Soil Analytical Data

Chevron Station #9-8341, 3530 MacArthur Boulevard, Oakland, CA

Sample ID	Sample Depth (ft)	Sample Date	TPHd	TPHg	Benzene	Toluene	Ethylenzene	Xylene	MTBE	Methanol	DIPE	ETBE	TAME	TBA	1,2 DCA	EDB	Ethanol
			milligrams per kilogram														
Soil Borings																	
B-1-A	3.5	7/29/03	--	<1.0	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--
B-3-A	3.5	7/29/03	--	<1.0	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--
B-3-B	10.0	7/29/03	--	<1.0	<0.001	<0.001	<0.001	<0.001	**0.001**	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--
B-4-A	2.5	7/30/03	--	<1.0	<0.001	<0.001	<0.001	<0.001	**0.029**	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--
B-4-B	9.5	7/30/03	--	<1.0	<0.001	<0.001	<0.001	<0.001	**0.13**	--	<0.001	<0.001	**0.002**	<0.020	<0.001	<0.001	--
B-5-A	3.0	7/29/03	--	<1.0	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--
B-5-B	9.5	7/29/03	--	<1.0	<0.001	<0.001	<0.001	<0.001	**0.003**	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--
B-6-A	2.0	7/29/03	--	<1.0	<0.001	<0.001	<0.001	<0.001	**0.003**	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--
B-6-B	9.5	7/29/03	--	<1.0	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--
B-7-A	1.5	7/30/03	--	**2.5**	<0.001	<0.001	<0.001	<0.001	**0.020**	--	<0.001	<0.001	**0.001**	<0.020	<0.001	<0.001	--
B-8-A	2.0	7/30/03	--	**3.3**	<0.001	<0.001	**0.001**	**0.002**	**0.11**	--	<0.001	<0.001	**0.002**	**0.044**	<0.001	<0.001	--
B-8-B	9.5	7/30/03	--	<1.0	<0.001	<0.001	<0.001	**0.001**	**0.034**	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--
B-9-A	3.0	7/30/03	--	<1.0	<0.001	<0.001	<0.001	<0.001	**0.004**	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--
B-9-B	8.0	7/30/03	--	<1.0	<0.001	<0.001	<0.001	<0.001	**0.001**	--	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	--
B-11	5	12/14/06	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	**0.26**	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.099
	10	12/14/06	--	<1.0	<0.0005	**0.002**	<0.001	<0.001	<0.0005	**0.33**	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.10
	15	12/14/06	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	**0.27**	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.099
	20	12/14/06	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.20	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.099
	24	12/14/06	--	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	**0.23**	<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.099

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M

Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8260B

Oxygenates and lead scavengers by EPA Method 8260B

<x = Not detected above method detection limit

fbg = Feet below grade

-- = Not analyzed

TABLE 3

GRAB-GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON STATION 9-8341
3530 MACARTHUR BOULEVARD, OAKLAND, CALIFORNIA

Sample ID	*Sample Date*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*DIPE*	*ETBE*	*TAME*	*TBA*	*1,2 DCA*	*EDB*	*Ethanol*
		← Concentrations reported in micrograms per liter - µg/L →												
Trench Sample														
TR-4	1/26/93	**2,500**	**390**	**80**	**140**	**300**	--	--	--	--	--	--	--	--
Used-Oil UST Excavation														
WO-H_2O*	5/24/94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
Exploratory Borings														
B-1	7/29/03	<50	<0.5	<0.5	<0.5	<0.5	**25**	<0.5	<0.5	**0.6**	<5.0	<0.5	<0.5	<50
B-3	7/30/03	<50	<0.5	<0.5	<0.5	<0.5	**10**	<0.5	<0.5	<0.5	**8.0**	<0.5	<0.5	<50
B-4	7/30/03	<50	<0.5	<0.5	<0.5	<0.5	**420**	<0.5	<0.5	**9**	**28**	<0.5	<0.5	<50
B-5	7/29/03	<50	<0.5	**4**	**0.6**	**8**	**50**	<0.5	<0.5	**11**	<5.0	<0.5	<0.5	<50
B-6	7/29/03	<50	<0.5	<0.5	<0.5	<0.5	**2**	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<50
B-7	7/30/03	**98**	<0.5	<0.5	<0.5	<0.5	**460**	<0.5	<0.5	**8**	**41**	<0.5	<0.5	<50
B-8	7/30/03	**5,200**	**3**	**3**	**160**	**450**	**980**	<0.5	<0.5	**15**	<5.0	<0.5	<0.5	<50
B-9	7/30/03	<50	<0.5	<0.5	<0.5	<0.5	**10**	<0.5	<0.5	**0.6**	<5.0	<0.5	<0.5	<50

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M
Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020 or 8260B
Oxygenates and lead scavengers by EPA Method 8260B
-- = Not analyzed
<x = Not detected at or above stated laboratory reporting limit
* Sample also analyzed for TOG (<5,000 µg/L), TPHd (<50 µg/L), semi-VOCs (ND), HVOCs (ND except for chloroethane at 0.6 µg/L), and metals (Cd <5 µg/L, Cr 20 µg/L, Pb 7 µg/L, Ni 28 µg/L, and Zn 29 µg/L)

ATTACHMENT 4

TABLE 2

GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER CHEVRON STATION 9-8341
3530 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

Boring ID	*Sample Date*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*TAME*	*TBA*	*ETBE*	*DIPE*
		← Concentrations reported in micrograms per liter (µg/L) →										
B-12	5/11/10	**230**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
B-13	5/11/10	**220**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5
B-14	5/12/10	--	<50	<0.5	<0.5	<0.5	<0.5	**0.6**	<0.5	<2	<0.5	<0.5
B-15	5/12/10	**40,000**	**17,000**	**34**	**17**	**490**	**65**	<1	<1	<5	<1	<1
B-16	5/12/10	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<0.5

Abbreviations/Notes:

TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015
TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015
Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8260B
MTBE = Methyl tertiary butyl ether by EPA Method 8260B
TAME = Tertiary amyl methyl 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
<x = Not detected at or above stated laboratory reporting limits
-- = Not analyzed

Client Number: TOU01CHV08
Facility Number: 9-8341
Project ID: Chevron 3530 MacArthur Oakland
Work Order Number: C4-05-0349

ANALYTICAL RESULTS

Purgeable Halocarbons in Water

EPA Method 8010[a]

GTEL Sample Number		01	P052494		
Client Identification		WC-H_2O	METHOD BLANK		
Date Sampled		05/24/94	--		
Date Analyzed		05/24/94	05/24/94		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Chloromethane	0.5	<0.5	<0.5		
Bromomethane	0.5	<0.5	<0.5		
Vinyl chloride	1	<1	<1		
Chloroethane	0.5	0.6	<0.5		
Methylene chloride	0.5	<0.5	<0.5		
1,1-Dichloroethene	0.5	<0.5	<0.5		
1,1-Dichloroethane	0.5	<0.5	<0.5		
1,2-Dichloroethene	0.5	<0.5	<0.5		
Chloroform	0.5	<0.5	<0.5		
1,2-Dichloroethane	0.5	<0.5	<0.5		
1,1,1-Trichloroethane	0.5	<0.5	<0.5		
Carbon tetrachloride	0.5	<0.5	<0.5		
Bromodichloromethane	0.5	<0.5	<0.5		
1,2-Dichloropropane	0.5	<0.5	<0.5		
cis-1,3-Dichloropropene	0.5	<0.5	<0.5		
Trichloroethene	0.5	<0.5	<0.5		
Dichlorodifluoromethane	0.5	<0.5	<0.5		
Dibromochloromethane	0.5	<0.5	<0.5		
1,1,2-Trichloroethane	0.5	<0.5	<0.5		
trans-1,3-Dichloropropene	0.5	<0.5	<0.5		
2-Chloroethylvinyl ether	1	<1	<1		
Bromoform	0.5	<0.5	<0.5		
Tetrachloroethene	0.5	<0.5	<0.5		
1,1,2,2-Tetrachloroethane	0.5	<0.5	<0.5		
Chlorobenzene	0.5	<0.5	<0.5		
1,2-Dichlorobenzene	0.5	<0.5	<0.5		
1,3-Dichlorobenzene	0.5	<0.5	<0.5		
1,4-Dichlorobenzene	0.5	<0.5	<0.5		
Trichlorofluoromethane	0.5	<0.5	<0.5		
Detection Limit Multiplier		1	1		
BFB surrogate, % recovery		96.7	90.4		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 65-135%.

Client Number: TOU01CHV08
Facility Number: 9-8341
Project ID: Chevron 3530 MacArthur Oakland
Work Order Number: C4-05-0349

ANALYTICAL RESULTS
Semi-Volatile Organics in Water
EPA Method 8270[a]/625[b]

GTEL Sample Number		01	053194BNAW		
Client Identification		WO-H_2O	METHOD BLANK		
Date Sampled		05/24/94	–		
Date Extracted		05/27/94	05/27/94		
Date Analyzed		05/31/94	05/31/94		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Phenol	10	<10	<10		
bis(2-Chloroethyl)ether	10	<10	<10		
2-Chlorophenol	10	<10	<10		
1,3-Dichlorobenzene	10	<10	<10		
1,4-Dichlorobenzene	10	<10	<10		
Benzyl alcohol	10	<10	<10		
1,2-Dichlorobenzene	10	<10	<10		
2-Methylphenol	10	<10	<10		
bis-(2-Chloroisopropyl)ether	10	<10	<10		
4-Methylphenol	10	<10	<10		
N-Nitroso-di-propylamine	10	<10	<10		
Hexachloroethane	10	<10	<10		
Nitrobenzene	10	<10	<10		
Isophorone	10	<10	<10		
2-Nitrophenol	10	<10	<10		
2,4-Dimethylphenol	10	<10	<10		
Benzoic acid	50	<50	<50		
bis(2-Chloroethoxy)methane	10	<10	<10		
2,4-Dichlorophenol	10	<10	<10		
1,2,4-Trichlorobenzene	10	<10	<10		
Naphthalene	10	<10	<10		
4-Chloroaniline	10	<10	<10		
Hexachlorobutadiene	10	<10	<10		
4-Chloro-3-methylphenol	10	<10	<10		
2-Methylnaphthalene	10	<10	<10		
Hexachlorocyclopentadiene	10	<10	<10		
2,4,6-Trichlorophenol	10	<10	<10		
2,4,5-Trichlorophenol	50	<50	<50		
2-Chloronaphthalene	10	<10	<10		
2-Nitroaniline	50	<50	<50		
Dimethylphthalate	10	<10	<10		
Acenaphthylene	10	<10	<10		
3-Nitroaniline	50	<50	<50		
Acenaphthene	10	<10	<10		
2,4-Dinitrophenol	50	<50	<50		
4-Nitrophenol	50	<50	<50		
Dibenzofuran	10	<10	<10		

Client Number: TOU01CHV08
Facility Number: 9-8341
Project ID: Chevron 3530 MacArthur Oakland
Work Order Number: C4-05-0349

ANALYTICAL RESULTS
Semi-Volatile Organics in Water
EPA Method 8270[a]/625[b]

GTEL Sample Number		01	053194BNAW		
Client Identification		WO-H_2O	METHOD BLANK		
Date Sampled		05/24/94	--		
Date Extracted		05/27/94	05/27/94		
Date Analyzed		05/31/94	05/31/94		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
2,4-Dinitrotoluene	10	<10	<10		
2,6-Dinitrotoluene	10	<10	<10		
Diethylphthalate	10	<10	<10		
4-Chlorophenyl-phenylether	10	<10	<10		
Fluorene	10	<10	<10		
4-Nitroaniline	50	<50	<50		
4,6-Dinitro-2-methylphenol	50	<50	<50		
N-Nitrosodiphenylamine	10	<10	<10		
4-Bromophenyl-phenylether	10	<10	<10		
Hexachlorobenzene	10	<10	<10		
Pentachlorophenol	50	<50	<50		
Phenanthrene	10	<10	<10		
Anthracene	10	<10	<10		
Di-n-butylphthalate	10	<10	<10		
Fluoranthene	10	<10	<10		
Pyrene	10	<10	<10		
Butylbenzylphthalate	10	<10	<10		
3,3'-Dichlorobenzidine	20	<20	<20		
Benzo(a)anthracene	10	<10	<10		
bis(2-Ethylhexyl)phthalate	10	<10	<10		
Chrysene	10	<10	<10		
Di-n-octylphthalate	10	<10	<10		
Benzo(b)fluoranthene	10	<10	<10		
Benzo(k)fluoranthene	10	<10	<10		
Benzidine	20	<20	<20		
Benzo(a)pyrene	10	<10	<10		
Indeno(1,2,3-cd)pyrene	10	<10	<10		
Dibenz(a,h)anthracene	10	<10	<10		
Benzo(g,h,i)perylene	10	<10	<10		
Detection Limit Multiplier		1	1		
d5-Nitrobenzene surr., % rec.		71.5	91.2		
2-Fluorobiphenyl surr., % rec.		53.2	82.1		
d14-Terphenyl surr., % rec.		61.7	76.4		
d5-Phenol surr., % rec.		36.4	71.7		
2-Fluorophenol surr., % rec.		35.6	86.5		
2,4,6-Tribromophenol surr., % rec.		48.6	92.2		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample extraction by EPA Method 3510.
b. Federal Register, Vol. 49, October 26, 1984. Sample extraction by EPA Method 3510.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: TOU01CHV08
Facility Number: 9-8341
Project ID: Chevron 3530 MacArthur Oakland
Work Order Number: C4-05-0349

ANALYTICAL RESULTS

TPH as Diesel in Water

Method: Modified EPA 8015[a]

GTEL Sample Number		01	GCI 052694		
Client Identification		WO-H_2O	METHOD BLANK		
Date Sampled		05/24/94	--		
Date Extracted		05/25/94	05/25/94		
Date Analyzed		05/28/94	05/26/94		
Analyte	Detection Limit, ug/L	Concentration, ug/L			
TPH as diesel	50	<50	<50		
Detection Limit Multiplier		1	1		
OTP surrogate, % recovery		76.6	88.8		

a. Test Methods for Evaluating Solid Waste, SW-846, 3rd edition, Rev. O, U.S. EPA, November, 1986. Modification for TPH as diesel as per California State Water Resources Board LUFT Manual procedures. O-Terphenyl surrogate recovery acceptability limits are 50-150%.

Client Number: TOU01CHV08
Facility Number: 9-8341
Project ID: Chevron 3530 MacArthur Oakland
Work Order Number: C4-05-0349

ANALYTICAL RESULTS

Metals in Water

GTEL Sample Number			01	052494 MET		
Client Identification			WO-H_2O	METHOD BLANK		
Date Sampled			05/24/94	–		
Date Prepared (Method 3005[a])			05/24/94	05/24/94		
Date Analyzed (Method 6010)			05/26/94	05/26/94		
Date Analyzed (Method 7421)			05/25/94	05/25/94		
Analyte	EPA Method[a]	Detection Limit, ug/L	Concentration, ug/L			
Cadmium	EPA 6010[b]	5	<5	<5		
Chromium, total	EPA 6010[b]	10	20	<10		
Lead	EPA 7421[c]	5	7	<5		
Nickel	EPA 6010[b]	20	28	<20		
Zinc	EPA 6010[b]	20	29	<20		
Detection Limit Multiplier			1	1		

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986.
b. Inductively Coupled Argon Plasma(ICP)
c. Graphite Furnace Atomic Absorption (GFAA)

Table 2. Analytic Results for Groundwater - Chevron Station 9-8341, 3530 MacArthur Boulevard, Oakland, California

Sample ID	Sample Date	TPHg	B	T	E	X	MTBE*	TAME*	TBA*
		Concentrations reported in micrograms per liter - µg/L							
B-1	7/29/03	<50	<0.5	<0.5	<0.5	<0.5	25	0.6	<5.0
B-3	7/30/03	<50	<0.5	<0.5	<0.5	<0.5	10	<0.5	8.0
B-4	7/30/03	<50	<0.5	<0.5	<0.5	<0.5	420	9	28
B-5	7/29/03	<50	<0.5	4	0.6	8	50	11	<5.0
B-6	7/29/03	<50	<0.5	<0.5	<0.5	<0.5	2	<0.5	<5.0
B-7	7/30/03	98	<0.5	<0.5	<0.5	<0.5	460	8	41
B-8	7/30/03	5,200	3	3	160	450	980	15	<5.0
B-9	7/30/03	<50	<0.5	<0.5	<0.5	<0.5	10	0.6	<5.0

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M

Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8260B

Oxygenates and lead scavengers by EPA Method 8260B

<x = Not detected above method detection limit

fbg = Feet below grade

* = No DIPE, ETBE, 1, 2 DCA, or EDB were detected by EPA Method 8260B and no ethanol was detected by EPA Method 8015M

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-8341

3530 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
MW-1										
04/04/96	202.47	198.65	3.82	<50	<0.5	<0.5	<0.5	<0.5	ND	--
11/01/96	202.47	196.97	5.02	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/06/97	202.47	199.72	2.75	<50	<0.5	<0.5	<0.5	<0.5	14	--
04/14/97	202.47	197.71	4.76	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/17/97	202.47	196.72	5.75	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	202.47	196.97	5.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/04/98	202.47	199.80	2.67	<50	4.2	<0.5	<0.5	<0.5	94	--
04/03/98	202.47	197.06	5.41	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/29/98	202.47	192.26	10.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/26/98	202.47	195.66	6.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/18/99	202.47	196.05	6.42	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
04/15/99	202.47	197.13	5.34	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
07/22/99	202.47	196.97	5.50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/13/99	202.47	196.43	6.04	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/21/00	202.47	197.11	5.36	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/10/00	202.47	197.60	4.87	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/12/00	202.47	197.05	5.42	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
10/05/00	202.47	196.79	5.68	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
01/05/01	202.47	197.30	5.17	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
04/05/01	202.47	197.83	4.64	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/20/01	202.47	197.29	5.18	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
11/26/01	202.47	197.65	4.82	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	202.47	197.68	4.79	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/07/02	202.47	197.55	4.92	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/02/02	202.47	197.36	5.11	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/11/02	202.47	197.40	5.07	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/03/03	202.47	197.69	4.78	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/05/03	202.47	198.86	3.61	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/04/03[4]	202.47	197.39	5.08	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
11/19/03[4]	202.47	197.44	5.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
02/16/04[4]	202.47	198.01	4.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
06/03/04[4]	202.47	197.52	4.95	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
08/20/04[4]	202.47	197.22	5.25	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
11/15/04[4]	202.47	197.86	4.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
02/14/05[4]	202.47	198.18	4.29	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
05/16/05[4]	202.47	198.62	3.85	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/31/05[4]	202.47	197.19	5.28	69	12	12	<0.5	12	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-8341

3530 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
MW-1 (cont)										
11/30/05[4]	202.47	197.36	5.11	<50	<0.5	<0.5	<0.5	1	<0.5	--
02/17/06[4]	202.47	198.47	4.00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/19/06[4]	202.47	198.09	4.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/25/06[4]	202.47	197.23	5.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/22/06[4]	202.47	197.09	5.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/01/07[4]	202.47	198.00	4.47	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
04/30/07[4]	202.47	197.96	4.51	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/07[4]	202.47	197.40	5.07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
10/27/07[4]	202.47	197.46	5.01	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/08/08[4]	202.47	199.06	3.41	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/02/08[4]	202.47	198.17	4.30	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/08[4]	202.47	197.26	5.21	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/13/08[4]	202.47	197.65	4.82	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/13/09[4]	202.47	198.40	4.07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/08/09[4]	202.47	198.15	4.32	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/27/09[4]	202.47	197.12	5.35	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/03/10[4]	202.47	198.52	3.95	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/04/10[4]	**202.47**	**197.40**	**5.07**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**--**
MW-2										
04/04/96	198.88	196.07	2.81	<50	<0.5	<0.5	<0.5	<0.5	6,100	--
11/01/96	198.88	195.27	3.61	<500	<5.0	<5.0	<5.0	<5.0	2,600	--
01/06/97	198.88	195.97	2.91	<2,000	31	<20	<20	<20	4,000	--
04/14/97	198.88	195.43	3.45	<2,000	<20	<20	<20	<20	5,100/5,800[1]	--
07/17/97	198.88	194.98	3.90	<500	<5.0	<5.0	<5.0	<5.0	2,300/2,900[1]	--
10/29/97	198.88	192.96	5.92	120[2]	12	<0.5	<0.5	<0.5	810/900[1]	--
02/04/98	198.88	195.05	3.83	<1,000	<10	<10	<10	<10	2,100/2,800[1]	--
04/03/98	198.88	191.55	7.33	<1,000	<10	<10	<10	<10	3,800/3,600[1]	--
07/29/98	198.88	189.86	9.02	120[3]	<0.5	<0.5	<0.5	<0.5	2,800/3,900[1]	--
10/26/98	198.88	192.77	6.11	<50	<0.5	<0.5	<0.5	<0.5	1,200	--
01/18/99	198.88	194.67	4.21	<1,000	<10	<10	<10	10.5	2,530	--
04/15/99	198.88	194.56	4.32	<50	<0.5	<0.5	<0.5	<0.5	5,270	--
07/22/99	198.88	193.73	5.15	<50	8.92	<0.5	<0.5	<0.5	1,450	--
10/13/99	198.88	192.23	6.65	<250	<2.5	<2.5	<2.5	<2.5	1,740	--
01/21/00	198.88	192.78	6.10	69.6	<0.5	<0.5	<0.5	<0.5	1,110	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-8341
3530 MacArthur Boulevard
Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
MW-2 (cont)										
04/10/00	198.88	194.42	4.46	<500	<5.0	<5.0	<5.0	<5.0	1,700	--
07/12/00	198.88	195.24	3.64	<50.0	<0.500	<0.500	<0.500	<0.500	187	--
10/05/00	198.88	194.06	4.82	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
01/05/01	198.88	195.17	3.71	<50	<0.50	<0.50	<0.50	<0.50	1,800	--
04/05/01	198.88	192.94	5.94	<50	<0.50	<0.50	<0.50	<0.50	5,500	--
08/20/01	198.88	193.18	5.70	<50	<0.50	<0.50	<0.50	<0.50	2,000	--
11/26/01	198.88	193.55	5.33	<50	<0.50	<0.50	<0.50	<1.5	990	--
02/14/02	198.88	194.42	4.46	58	<0.50	<0.50	<0.50	<1.5	1,200	--
05/07/02	198.88	194.49	4.39	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/02/02	198.88	194.81	4.07	<50	<0.50	<0.50	<0.50	<1.5	490	--
11/11/02	198.88	194.76	4.12	<50	<0.50	<0.50	<0.50	<1.5	470	--
02/03/03	198.88	193.93	4.95	<50	<0.50	<0.50	<0.50	<1.5	690	--
05/05/03	198.88	194.38	4.50	<50	<0.5	<0.5	<0.5	<1.5	680	--
08/04/03[4]	198.88	195.02	3.86	<50	<0.5	<0.5	<0.5	<0.5	460	<50
11/19/03[4]	198.88	195.32	3.56	<50	<0.5	<0.5	<0.5	<0.5	540	<50
02/16/04[4]	198.88	195.73	3.15	<50	<1	<1	<1	<1	1,200	<130
06/03/04[4]	198.88	195.18	3.70	<50	<0.5	<0.5	<0.5	<0.5	190	<50
08/20/04[4]	198.88	194.85	4.03	<50	<0.5	<0.5	<0.5	<0.5	130	<50
11/15/04[4]	198.88	195.54	3.34	<50	<0.5	<0.5	<0.5	<0.5	230	<50
02/14/05[4]	198.88	195.54	3.34	<50	<0.5	<0.5	<0.5	<0.5	600	<50
05/16/05[4]	198.88	194.99	3.89	<50	<0.5	<0.5	<0.5	<0.5	130	--
08/31/05[4]	198.88	194.81	4.07	<50	<0.5	<0.5	<0.5	0.8	450	--
11/30/05[4]	198.88	193.13	5.75	<50	<0.5	<0.5	<0.5	2	280	--
02/17/06[4]	198.88	195.56	3.32	<50	<0.5	<0.5	<0.5	<0.5	790	--
05/19/06[4]	198.88	193.80	5.08	<50	<0.5	<0.5	<0.5	<0.5	530	--
08/25/06[4]	198.88	194.85	4.03	<50	<0.5	<0.5	<0.5	<0.5	330	--
11/22/06[4]	198.88	193.44	5.44	<50	<0.5	<0.5	<0.5	<0.5	310	--
02/01/07[4]	198.88	195.30	3.58	<50	<0.5	<0.5	<0.5	<0.5	770	--
04/30/07[4]	198.88	194.73	4.15	<50	<0.5	<0.5	<0.5	<0.5	92	--
07/31/07[4]	198.88	194.68	4.20	<50	<0.5	<0.5	<0.5	<0.5	20	--
10/27/07[4]	198.88	195.00	3.88	<50	<0.5	<0.5	<0.5	<0.5	220	--
02/08/08[4]	198.88	194.86	4.02	<50	<0.5	<0.5	<0.5	<0.5	860	--
05/02/08[4]	198.88	194.50	4.38	<50	<0.5	<0.5	<0.5	<0.5	1,700	--
07/31/08[4]	198.88	194.70	4.18	<50	<0.5	<0.5	<0.5	<0.5	770	--
11/13/08[4]	198.88	195.10	3.78	<50	<0.5	<0.5	<0.5	<0.5	740	--
02/13/09[4]	198.88	195.61	3.27	<50	<0.5	<0.5	<0.5	<0.5	970	--
05/08/09[4]	198.88	195.70	3.18	<250	<0.5	<0.5	<0.5	<0.5	910	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-8341

3530 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
MW-2 (cont)										
07/27/09[4]	198.88	194.70	4.18	<50	<0.5	<0.5	<0.5	<0.5	37	--
02/03/10[4]	198.88	195.45	3.43	<50	<0.5	<0.5	<0.5	<0.5	720	--
08/04/10[4]	**198.88**	**195.09**	**3.79**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**500**	**--**
MW-3										
11/01/96	199.10	194.91	4.19	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/06/97	199.10	195.29	3.81	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/14/97	199.10	194.93	4.17	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/17/97	199.10	194.92	4.18	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	199.10	193.90	5.20	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/04/98	199.10	194.71	4.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/03/98	199.10	195.78	3.32	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/29/98	199.10	189.24	9.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/26/98	199.10	193.59	5.51	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/18/99	199.10	194.68	4.42	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/15/99	199.10	194.54	4.56	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
07/22/99	199.10	192.45	6.65	<50	<0.5	<0.5	<0.5	1.16	<5.0	--
10/13/99	199.10	193.79	5.31	<50	<0.5	<0.5	<0.5	<0.5	3.94	--
01/21/00	199.10	193.18	5.92	<50	<0.5	<0.5	<0.5	<0.5	6.55	--
04/10/00	199.10	194.32	4.78	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/12/00	199.10	193.86	5.24	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
10/05/00	199.10	195.17	3.93	<50.0	<0.500	<0.500	<0.500	<0.500	39.7	--
01/05/01	199.10	194.85	4.25	<50	<0.50	<0.50	<0.50	<0.50	2.9	--
04/05/01	199.10	194.72	4.38	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/20/01	199.10	194.35	4.75	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
11/26/01	199.10	193.60	5.50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	199.10	194.82	4.28	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/07/02	199.10	194.58	4.52	85	<0.50	<0.50	<0.50	<1.5	610	--
08/02/02	199.10	194.72	4.38	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/11/02	199.10	195.04	4.06	<50	<0.50	<0.50	<0.50	<1.5	4.5	--
02/03/03	199.10	194.02	5.08	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/05/03	199.10	194.50	4.60	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/04/03[4]	199.10	194.75	4.35	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
11/19/03[4]	199.10	194.86	4.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
02/16/04[4]	199.10	195.32	3.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
06/03/04[4]	199.10	193.74	5.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-8341

3530 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
MW-3 (cont)										
08/20/04[4]	199.10	194.75	4.35	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
11/15/04[4]	199.10	195.21	3.89	<50	<0.5	<0.5	<0.5	<0.5	2	<50
02/14/05[4]	199.10	195.18	3.92	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<50
05/16/05[4]	199.10	195.34	3.76	<50	<0.5	<0.5	<0.5	<0.5	0.6	--
08/31/05[4]	199.10	194.89	4.21	54	7	7	<0.5	12	<0.5	--
11/30/05[4]	199.10	195.31	3.79	<50	<0.5	<0.5	<0.5	1	<0.5	--
02/17/06[4]	199.10	195.04	4.06	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/19/06[4]	199.10	194.49	4.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/25/06[4]	199.10	194.94	4.16	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/22/06[4]	199.10	195.45	3.65	<50	<0.5	<0.5	<0.5	1	<0.5	--
02/01/07[4]	199.10	194.90	4.20	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
04/30/07[4]	199.10	195.12	3.98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/07[4]	199.10	195.07	4.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
10/27/07[4]	199.10	194.66	4.44	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/08/08[4]	199.10	195.05	4.05	<50	<0.5	<0.5	<0.5	<0.5	1	--
05/02/08[4]	199.10	194.97	4.13	<50	<0.5	<0.5	<0.5	<0.5	2	--
07/31/08[4]	199.10	194.62	4.48	<50	<0.5	<0.5	<0.5	<0.5	0.6	--
11/13/08[4]	199.10	194.42	4.68	<50	<0.5	<0.5	<0.5	<0.5	1	--
02/13/09[4]	199.10	195.29	3.81	<50	<0.5	<0.5	<0.5	<0.5	0.5	--
05/08/09[4]	199.10	195.22	3.88	<50	<0.5	<0.5	<0.5	<0.5	0.6	--
07/27/09[4]	199.10	194.84	4.26	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/03/10[4]	199.10	195.13	3.97	<50	<0.5	<0.5	<0.5	<0.5	0.8	--
08/04/10[4]	**199.10**	**194.90**	**4.20**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**1**	**--**
TRIP BLANK										
11/01/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/06/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/14/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/17/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
02/04/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/03/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/29/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/26/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/18/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
04/15/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-8341

3530 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
TRIP BLANK (cont)										
07/22/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/13/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/21/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/10/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
07/12/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
10/05/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
01/05/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
QA										--
04/05/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/20/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
11/26/01	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/07/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/02/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/11/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/03/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/05/03	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/04/03[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/19/03[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/16/04[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/03/04[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/20/04[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/15/04[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/14/05[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/16/05[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/31/05[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/30/05[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/17/06[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/19/06[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
08/25/06[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/22/06[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/01/07[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
04/30/07[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/31/07[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
10/27/07[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/08/08[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/02/08[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-8341

3530 MacArthur Boulevard

Oakland, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	ETHANOL♦ (µg/L)
QA (cont)										--
07/31/08[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
11/13/08[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/13/09[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/08/09[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
07/27/09[4]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
DISCONTINUED										

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-8341
3530 MacArthur Boulevard
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and analytical results prior to April 10, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
DTW = Depth to Water
TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl Tertiary Butyl Ether

ND = Not Detected
-- = Not Measured/Not Analyzed
(µg/L) = Micrograms per liter
QA = Quality Assurance/Trip Blank

♦ Ethanol by EPA Method 8260.

1 Confirmation run.
2 Chromatogram report indicates an unidentified hydrocarbon and gas.
3 Chromatogram report indicates an unidentified hydrocarbon.
4 BTEX and MTBE by EPA Method 8260.

ATTACHMENT 5

Touchstone Developments
Environmental Management

EXPLORATORY BORING LOG

Field Location of Boring:

See Figure 1

Project No. 9-8341	Date: 3.18.96	Boring No.	MW-1
Client: CHEVRON PRODUCTS CO.			
Location: 3530 MacArthur Boulevard			
City: Oakland, CA		Sheet	1
Logged By: RCM	Driller: V&W	of	2

Casing Installation data:

Drilling Method: Hollow Stem Auger

Hole Diameter: 8-inch

Top of Box Elevation: Datum:

Water Level	4.0		
Time	1455		
Date	3.18.96		

PID (ppm)	Blows Pressure (PSI)	Type of Sample	Sample Number	Depth (ft.)	Sample Interval	Well Detail	Soil Group Symbol (USCS)
				1			
				2			
				3			
			MW-1	4			
	5	S&H	4.5	5			
	7						
	17			6			
				7			
				8			
	5	S&H		9			
	5		MW-1	10			
	14		10.0				
				11			
				12			
				13			
	17	S&H	MW-1	14			
	22		14.5	15			
	28						
				16			
				17			
				18			
	15	S&H	MW-1	19			
	19		19.5				
	20			20			

PAVEMENT SECTION - ASPHALT 3", BASEROCK 9".

CLAY (CL) - yellowish brown (10YR 5/4), moist, stiff, 90% clay, 10% fine to medium sand, medium plasticity.

SAND (SW) - yellowish brown (10YR 5/4), saturated, medium dense, 95% fine to coarse sand, 5% fines.

SANDY CLAY (CL) - yellowish brown (10YR 4/6), very stiff, moist, 65% clay, 35% fine to coarse sand, rootholes, black (10YR 3/1) mottling with minor light olive brown (2.5Y 5/4) discoloration.

SILTY SAND (SM) - brown (7.5Y 4/4), very dense, moist, 70% fine to coarse sand, 30% silt.

SILT (ML) - reddish brown (5YR 4/4), hard, moist, 80% silt, 20% fine to medium sand.

Remarks:

Touchstone Developments
Environmental Management

EXPLORATORY BORING LOG

Field Location of Boring:

See Figure 1

Project No. 9-8341	Date: 3.18.96	Boring No. MW-1
Client: CHEVRON PRODUCTS CO.		
Location: 3530 MacArthur Boulevard		
City: Oakland, CA		Sheet 2 of 2
Logged By: RCM	Driller: V&W	

Casing Installation data:

Drilling Method: Hollow Stem Auger

Hole Diameter: 8-inch

Top of Box Elevation: Datum:

Water Level			
Time			
Date			

PID (ppm)	Blows Pressure (PSI)	Type of Sample	Sample Number	Depth (ft.)	Sample Interval	Well Detail	Soil Group Symbol (USCS)
				21			
				22			
				23			
	10	S&H	MW-1	24			
	15		24.5				
	19			25			
				26			
				27			
				28			
	20	S&H	NR	29			
	22						
	25			30			
				31			
				32			
				33			
				34			
				35			
				36			
				37			
				38			
				39			
				40			

SILT (ML) - reddish brown (5YR 4/4), hard, moist, 80% silt, 20% fine to medium sand.

INCREASE fine to coarse sand to 30% at 23.5 feet.

SILTY SAND (SM) - dark yellowish brown (10YR 4/6), dense, moist, 65% sand, 35% silt.

Remarks:

BOTTOM OF BORING AT 30.0 FEET

Touchstone Developments
Environmental Management

EXPLORATORY BORING LOG

Field Location of Boring:

See Figure 1

Project No. 9-8341	Date: 3.18.96	Boring No.	MW-2
Client: CHEVRON PRODUCTS CO.			
Location: 3530 MacArthur Boulevard			
City: Oakland, CA		Sheet	1
Logged By: RCM	Driller: V&W	of	2

Casing Installation data:

Drilling Method: Hollow Stem Auger

Hole Diameter: 8-inch

Top of Box Elevation: Datum:

Water Level	4.0		
Time	1340		
Date	3.18.96		

PID (ppm)	Blows Pressure (PSI)	Type of Sample	Sample Number	Depth (ft.)	Sample Interval	Well Detail	Soil Group Symbol (USCS)
				1			
				2			
				3			
				4			
	2	S&H					
	2		MW-2	5			
	3		5.5				
				6			
				7			
				8			
	17	S&H	MW-2	9			
	19		9.5				
	25			10			
				11			
				12			
				13			
	12	S&H					
	33		MW-2	14			
	38		15.0	15			
				16			
				17			
				18			
	12	S&H					
	17		MW-2	19			
	22		20.0	20			

PAVEMENT SECTION - 3" asphalt, 9" baserock

SANDY CLAY (CL) - greenish gray (5G 5/1), moist, very stiff, 85% clay, 15% fine to medium sand, medium plasticity.

CLAY (CL) - black (10YR 2/1), medium stiff, saturated, 90% clay, 10% sand, medium to high plasticity.

SILTY SAND (SM) - dark yellowish brown (10YR 4/6), moist, dense 75% fine to medium sand, 15% silt, 10% fine gravel.

INCREASE SILT to 25%, CLAY to 10% at 13.5 feet, decrease sand to 65%, very dense

DECREASE silt to 15%, clay to 0%.

Remarks:

Touchstone Developments
Environmental Management

EXPLORATORY BORING LOG

Field Location of Boring:

See Figure 1

Project No. 9-8341	Date: 3.18.96	Boring No. MW-2
Client: CHEVRON PRODUCTS CO.		
Location: 3530 MacArthur Boulevard		
City: Oakland, CA		Sheet 2 of 2
Logged By: RCM	Driller: V&W	

Casing installation data:

Drilling Method: Hollow Stem Auger

Hole Diameter: 8-inch

Top of Box Elevation: Datum:

Water Level			
Time			
Date			

PID (ppm)	Blows Pressure (PSI)	Type of Sample	Sample Number	Depth (ft.)	Sample Interval	Well Detail	Soil Group Symbol (USCS)
				21			
				22			
				23			
	20	S&H		24			
	30		MW-2				
	39		25.0	25	X		
				26			
				27			
				28			
	19	S&H		29			
	23		MW-2				
	35		30.0	30	X		
				31			
				32			
				33			
	19	S&H		34			
	22		MW-2				
	28		35.0	35	X		
				36			
				37			
				38			
				39			
				40			

SILTY SAND (SM) - dark yellowish brown (10YR 4/6), moist, dense 75% fine to medium sand 15% silt, 10% fine gravel.

AS ABOVE
very dense at 23.5 feet

AS ABOVE

SILT (ML) - dark yellowish brown (10YR 4/6), hard, moist, 80% sand, 20% fine sand, medium plasticity.

Remarks:

BOTTOM OF BORING AT 35.0

Touchstone Developments
Environmental Management

EXPLORATORY BORING LOG

Field Location of Boring:

See Figure 1

Project No. 9-8341	Date: 3.18.96	Boring No.	MW-3
Client: CHEVRON PRODUCTS CO.			
Location: 3530 MacArthur Boulevard			
City: Oakland, CA		Sheet	1
Logged By: RCM	Driller: V&W	of	3

Casing Installation data:

Drilling Method: Hollow Stem Auger

Hole Diameter: 8-inch

Top of Box Elevation: Datum:

Water Level			
Time			
Date			

PID (ppm)	Blows Pressure (PSI)	Type of Sample	Sample Number	Depth (ft.)	Sample Interval	Well Detail	Soil Group Symbol (USCS)
	6	S&H		5			
	7		MW-3				
	11		5.5				
	10	S&H	MW-3	9			
	22		9.5				
	20						
	17	S&H	MW-3	14			
	19		14.5				
	22						
	31	S&H	MW-3	19			
	33		19.5				
	39						

PAVEMENT SECTION - ASPHALT 3", BASEROCK 9".

SANDY CLAY (CL) - olive (5YR 4/3), stiff, damp, 85% clay, 15% fine to coarse sand, medium plasticity.

CLAYEY SAND (SC) - dark yellowish brown (10YR 4/6), moist, medium dense, 55% fine to coarse sand, 40% clay, 5% fine gravel, black mottling (10YR 3/1).

INCREASE sand to 80% at 8.5 feet.

SANDY SILT (ML) - dark yellowish brown (10YR 3/6), moist, hard, 80% silt, 20% fine sand, low plasticity.

GRAVEL WITH CLAY AND SAND (GW-GC) - yellowish brown (10YR 5/6), very dense, moist, 65% gravel, 25% sand, 10% clay.

Remarks:

Touchstone Developments
Environmental Management

EXPLORATORY BORING LOG

Field Location of Boring:

See Figure 1

Project No. 9-8341	Date: 3.18.96	Boring No. MW-3
Client: CHEVRON PRODUCTS CO.		
Location: 3530 MacArthur Boulevard		
City: Oakland, CA		Sheet 2 of 3
Logged By: RCM	Driller: V&W	

Casing Installation data:

Drilling Method: Hollow Stem Auger

Hole Diameter: 8-inch

Top of Box Elevation: Datum:

Water Level			
Time			
Date			

PID (ppm)	Blows Pressure (PSI)	Type of Sample	Sample Number	Depth (ft.)	Sample Interval	Well Detail	Soil Group Symbol (USCS)
				21			
				22			
				23			
	31	S&H	MW-3	24			
	33		25.0				
	39			25			
				26			
				27			
				28			
	33	S&H		29			
	35		MW-3				
	40		30.0	30			
				31			
				32			
				33			
	10	S&H		34			
	20		MW-3				
	20		35.0	35			
				36			
				37			
				38			
	15	S&H		39			
	21		MW-3				
	32		40.0	40			

GRAVEL WITH CLAY AND SAND (GW-GC) - yellowish brown (10YR 5/6), very dense, moist, 65% gravel, 25% sand, 10% clay.

INCREASE sand to 40% at 23.5 feet.

SILTY SAND (SM) - dark yellowish brown (10YR 4/6), very dense, moist, 65% fine to coarse sand, 25% silt, 10% fine gravel.

CLAY (CL) - dark yellowish brown (10YR 4/6), very hard, moist, 85% clay, 15% fine to medium sand, medium plasticity.

INCREASE sand to 40% at 39.5 feet.

Remarks:

Touchstone Developments
Environmental Management

EXPLORATORY BORING LOG

Field Location of Boring:

See Figure 1

Project No. 9-8341	Date: 3.18.96	Boring No.	MW-3
Client: CHEVRON PRODUCTS COMPANY			
Location: 3530 MacArthur Boulevard			
City: Oakland, California		Sheet	3
Logged By: RCM	Driller: V&W	of	3

Casing Installation data:

Drilling Method: Hollow Stem Auger

Hole Diameter: 8-inch

Top of Box Elevation: Datum:

Water Level			
Time			
Date			

PID (ppm)	Blows Pressure (PSI)	Type of Sample	Sample Number	Depth (ft.)	Sample Interval	Well Detail	Soil Group Symbol (USCS)
				41			
				42			
				43			
	14	S&H		44			
	22		MW-3				
	25		45.0	45	X		
				46			
				47			
				48			
				49			
				50			
				51			
				52			
				53			
				54			
				55			
				56			
				57			
				58			
				59			
				60			

CLAY (CL) - dark yellowish brown (10YR 4/6), moist, hard, 60% clay, 40% fine to medium sand, medium plasticity.

AS ABOVE - decrease sand to 30% fine gravel to 10%, and decrease clay to 60% at 43.5 feet.

Remarks: NR = No Recovery.

BOTTOM OF BORING AT 45.0 FEET

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Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	B-1
JOB/SITE NAME	Chevron Station #9-8341	**DRILLING STARTED**	29-Jul-03
LOCATION	3630 Mac Arthur Boulevard, Oakland, CA	**DRILLING COMPLETED**	29-Jul-03
PROJECT NUMBER	31D-1650	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Air Vac and Hand Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	4"	**SCREENED INTERVAL**	NA
LOGGED BY	Sarah Owen	**DEPTH TO WATER (First Encountered)**	4.0 ft (29-Jul-03) ▽
REVIEWED BY	B. Foss, RG# 7445	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Refusal at 8 fbg.		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Concrete.	0.5	Concrete
							Pea gravel.	1.0	
							Sandy Gravelly SILT: Red-brown; dry; stiff; 45% silt, 20% sand, 20% gravel, 15% clay; moderate plasticity; moderate estimated permeability.		
<1.0		B-1-A		5	ML		▽		Portland Type I/II
					ML		Clayey SILT: Black; damp; stiff; 75% silt, 25% clay; moderate to high plasticity; moderate to low estimated permeability.	6.5	
							Vacuum-cleared to 8 fbg.	8.0	Bottom of Boring @ 8 fbg

WELL LOG (TPH-G) I:\9-8341 OAKLAND\INVESTIGATION 2003\GINT\9-8341.GPJ DEFAULT.GDT 8/25/03

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BORING/WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	B-3
JOB/SITE NAME	Chevron Station #9-8341	**DRILLING STARTED**	29-Jul-03
LOCATION	3530 Mac Arthur Boulevard, Oakland, CA	**DRILLING COMPLETED**	29-Jul-03
PROJECT NUMBER	31D-1650	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Air Vac and Hand Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	4"	**SCREENED INTERVAL**	NA
LOGGED BY	Sarah Owen	**DEPTH TO WATER (First Encountered)**	10.0 ft (29-Jul-03) ▽
REVIEWED BY	B. Foss, RG# 7445	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Concrete.	0.5	Concrete
							Pea gravel.	1.0	
					ML		Gravelly Sandy SILT: Light brown; dry; stiff; 55% silt, 25% gravel, 10% sand, 10% clay; moderate plasticity; moderate estimated permeability.	3.5	
<1.0		B-3-A		5	ML		Clayey SILT: Red brown; damp; stiff; 75% silt, 20% clay, 5% gravel; moderate plasticity; moderate to low estimated permeability.		Portland Type I/II
							Vacuum-cleared to 8 fbg.		
<1.0		B-3-B		10			▽	10.5	Bottom of Boring @ 10.5 fbg

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BORING/WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	B-4
JOB/SITE NAME	Chevron Station #9-8341	**DRILLING STARTED**	30-Jul-03
LOCATION	3530 Mac Arthur Boulevard, Oakland, CA	**DRILLING COMPLETED**	30-Jul-03
PROJECT NUMBER	31D-1650	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Air Vac and Hand Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	4"	**SCREENED INTERVAL**	NA
LOGGED BY	Sarah Owen	**DEPTH TO WATER (First Encountered)**	3.0 ft (30-Jul-03) ▽
REVIEWED BY	B. Foss, RG# 7445	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt.	0.5	Concrete
<1.0		B-4-A			ML		Gravelly SILT: Red brown; dry; stiff; 55% silt, 20% gravel, 15% clay, 10% sand; moderate plasticity; moderate estimated permeability. ▽	4.0	
				5	ML		Clayey SILT Black; damp; stiff; 70% silt, 30% clay; moderate to high plasticity; moderate to low estimated permeability.	5.5	Portland Type I/II
					ML		Clayey SILT Green; damp; stiff; 70% silt, 30% clay; moderate to high plasticity; moderate to low estimated permeability.	6.5	
					ML		Clayey Gravelly SILT Red-brown; damp; stiff; 70% silt, 20% clay, 10% gravel; moderate plasticity; moderate to high estimated permeability.		
<1.0		B-4-B		10			Vacuum-cleared to 8 fbg.	10.0	Bottom of Boring @ 10 fbg

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BORING/WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	B-5
JOB/SITE NAME	Chevron Station #9-8341	**DRILLING STARTED**	29-Jul-03
LOCATION	3530 Mac Arthur Boulevard, Oakland, CA	**DRILLING COMPLETED**	29-Jul-03
PROJECT NUMBER	31D-1650	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Air Vac and Hand Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	4"	**SCREENED INTERVAL**	NA
LOGGED BY	Sarah Owen	**DEPTH TO WATER (First Encountered)**	4.0 ft (29-Jul-03) ▽
REVIEWED BY	B. Foss, RG# 7445	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt.	0.5	Concrete
<1.0		B-5-A			ML		Clayey SILT Dark gray to black with intermittent green; dry; soft; 40% clay, 40% silt, 20% gravel; high plasticity; moderate to low estimated permeability. ▽		
				5				5.0	Portland Type I/II
					SP		Gravelly SAND Red-brown; wet; loose; 65% sand, 15% gravel, 10% silt, 10% clay; moderate to high plasticity; moderate to high estimated permeability. Vacuum-cleared to 8 fbg.		
<1.0		B-5-B		10				10.0	Bottom of Boring @ 10 fbg

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BORING/WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	B-6
JOB/SITE NAME	Chevron Station #9-8341	**DRILLING STARTED**	29-Jul-03
LOCATION	3530 Mac Arthur Boulevard, Oakland, CA	**DRILLING COMPLETED**	29-Jul-03
PROJECT NUMBER	31D-1650	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Air Vac and Hand Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	4"	**SCREENED INTERVAL**	NA
LOGGED BY	Sarah Owen	**DEPTH TO WATER (First Encountered)**	4.0 ft (29-Jul-03)
REVIEWED BY	B. Foss, RG# 7445	**DEPTH TO WATER (Static)**	NA
REMARKS			

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt.	0.5	Concrete
<1.0		B-6-A		5	ML		Clayey SILT Dark gray to black with intermittent green; dry; soft; 40% clay, 40% silt, 20% gravel; high plasticity; moderate to low estimated permeability.		
								6.0	Portland Type I/II
					SP		Gravelly SAND Red-brown; wet; loose; 70% sand, 15% gravel, 10% silt, 5% clay; moderate to high plasticity; moderate to high estimated permeability. Vacuum-cleared to 8 fbg.		
<1.0		B-6-B		10				10.0	Bottom of Boring @ 10 fbg

WELL LOG (TPH-G) I:\9-8341 OAKLAND\INVESTIGATION 2003\GINT\9-8341.GPJ DEFAULT.GDT 8/25/03

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BORING/WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	B-7
JOB/SITE NAME	Chevron Station #9-8341	**DRILLING STARTED**	30-Jul-03
LOCATION	3530 Mac Arthur Boulevard, Oakland, CA	**DRILLING COMPLETED**	30-Jul-03
PROJECT NUMBER	31D-1650	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Air Vac and Hand Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	4"	**SCREENED INTERVAL**	NA
LOGGED BY	Sarah Owen	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	B. Foss, RG# 7445	**DEPTH TO WATER (Static)**	NA
REMARKS	Water not encountered. Refusal at 6 fbg.		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt.	0.5	Concrete
2.5		B-7-A			ML		Clayey SILT: Black; dry; stiff; 70% silt, 30% clay; moderate plasticity; moderate to low estimated permeability. Upper 1-1.5 foot interval is green.		Portland Type I/II
				5	ML		Gravelly SILT: Red-brown to green; dry; stiff; 60% silt, 20% gravel, 15% sand, 5% clay; low plasticity; moderate to high estimated permeability.	4.5 6.0	Bottom of Boring @ 6 fbg
							Vacuum-cleared to 8 fbg.		

WELL LOG (TPH-G) I:\9-8341 OAKLAND\INVESTIGATION 2003\GINT\9-8341.GPJ DEFAULT.GDT 8/25/03

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BORING/WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	B-8
JOB/SITE NAME	Chevron Station #9-8341	**DRILLING STARTED**	30-Jul-03
LOCATION	3530 Mac Arthur Boulevard, Oakland, CA	**DRILLING COMPLETED**	30-Jul-03
PROJECT NUMBER	31D-1650	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Air Vac and Hand Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	4"	**SCREENED INTERVAL**	NA
LOGGED BY	Sarah Owen	**DEPTH TO WATER (First Encountered)**	10.0 ft (30-Jul-03) ▽
REVIEWED BY	B. Foss, RG# 7445	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt.	0.5	Concrete
					ML		Clayey SILT Black; dry; stiff; 70% silt, 30% clay; moderate plasticity; moderate to low estimated permeability.	2.0	
3.3		B-8-A			ML		Clayey SILT Green; dry; stiff; 70% silt, 30% clay; moderate plasticity; moderate to low estimated permeability.		
				5				5.5	Portland Type I/II
					ML		Clayey SILT Red-brown; dry; stiff; 70% silt, 30% clay; moderate to low plasticity; moderate estimated permeability. Vacuum-cleared to 8 fbg.		
<1.0		B-8-B		10			▽	10.0	Bottom of Boring @ 10 fbg

WELL LOG (TPH-g) H:\9-8341 OAKLAND\INVESTIGATION 2003\GINT\9-8341.GPJ DEFAULT.GDT 8/25/03

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BORING/WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	B-9
JOB/SITE NAME	Chevron Station #9-8341	**DRILLING STARTED**	30-Jul-03
LOCATION	3530 Mac Arthur Boulevard, Oakland, CA	**DRILLING COMPLETED**	30-Jul-03
PROJECT NUMBER	31D-1650	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Air Vac and Hand Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	4"	**SCREENED INTERVAL**	NA
LOGGED BY	Sarah Owen	**DEPTH TO WATER (First Encountered)**	7.0 ft (30-Jul-03) ▽
REVIEWED BY	B. Foss, RG# 7445	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Refusal at 8.5 fbg.		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt.	0.5	Concrete
					ML		Clayey SILT: Black; dry; stiff; 75% silt, 25% clay; moderate plasticity; low estimated permeability.	3.0	
<1.0		B-9-A			ML		Gravelly SILT: Red-brown; dry; stiff; 60% silt, 20% gravel, 10% sand, 10% clay; low plasticity; moderate to high estimated permeability. Upper foot is green.	5.0	Portland Type I/II
				5			Gravelly SILT: Red-brown; wet; moderately stiff; 40% silt, 30% gravel, 30% sand; high estimated permeability.		
					ML		▽		Bottom of Boring @ 7 fbg
<1.0		B-9-B					Vacuum-cleared to 8 fbg.	8.5	

WELL LOG (TPH-G) I:\9-8341 OAKLAND\INVESTIGATION 2003\GINT\9-8341.GPJ DEFAULT.GDT 8/25/03

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BORING/WELL LOG

CLIENT NAME	Chevron Products Company	**BORING/WELL NAME**	B-11
JOB/SITE NAME	9-8341	**DRILLING STARTED**	14-Dec-06
LOCATION	3530 Macarthur Boulevard, Oakland, CA	**DRILLING COMPLETED**	14-Dec-06
PROJECT NUMBER	61H-1650	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling & Testing, Inc.	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	3"	**SCREENED INTERVAL**	NA
LOGGED BY	R. Rouas	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	D. Herzog, PG# 7211	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.5	Concrete
					SC		Clayey SAND with gravel: tan; moist; coarse sand; fine gravel; 35% sand, 30% gravel, 35% clay; moderate to high estimated permeability.		
0		B-11@5		5				5.0	
					GC		Clayey GRAVEL with sand: tan; wet; 40% gravel, 15% sand, 40% clay, 5% silt; high estimated permeability.		
								8.0	
					GC		Clayey GRAVEL: brown; wet; fine and coarse gravel; fine sand; 50% gravel, 5% sand, 25% clay, 20% silt; high estimated permeability.		
0		B-11@10		10				10.0	
					CH		CLAY with gravel: brown; moist; fine gravel; stiff; 70% clay, 20% gravel, 10% silt; high plasticity; low estimated permeability.		Portland Type I/II
0		B-11@15		15				15.0	
					CH		CLAY: orange with brown and grey mottling; moist; fine and coarse gravel; fine sand; very stiff; 80% clay, 10% silt, 5% sand, 5% gravel; medium plasticity; low estimated permeability.		
0		B-11@20		20				20.0	
					CL		CLAY with gravel: brown with light brown mottling; dry; fine and coarse gravel; medium sand; very stiff; 70% clay, 15% gravel, 10% sand, 5% silt; high plasticity; low estimated permeability.		
0		B-11@24						24.0	Bottom of Boring @ 24 fbg
							@ 24 fbg: refusal.		

WELL LOG (PID) \\SAC-S1\SHARED\ROCKLI~1.CHE\9-8341~1\GINT\9-8341.GPJ DEFAULT.GDT 3/17/08

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BORING/WELL LOG

CLIENT NAME	Chevron	**BORING/WELL NAME**	B-12
JOB/SITE NAME	Former Chevron 9-8341	**DRILLING STARTED**	11-May-10
LOCATION	3530 MacArthur Boulevard, Oakland, CA	**DRILLING COMPLETED**	11-May-10
PROJECT NUMBER	611650	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	PeneCore Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hand-Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	3.25"	**SCREENED INTERVAL**	NA
LOGGED BY	C. Benedict	**DEPTH TO WATER (First Encountered)**	8.5 fbg (11-May-10) ▽
REVIEWED BY	J. Kiernan, PE# C68498	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				0			8 inches concrete.		Concrete
							FILL: Sandy CLAY with gravel; dark brown; moist; medium estimated plasticity.	0.7	
				1					
				2			**Sandy CLAY with gravel:** dark brown; moist; high estimated plasticity; 1/2 to 1 inch sub-angular gravel.	2.0	
				3					
					CL		Color change to brown.		
				4					
0.0		B-12-5		5					Portland Type I/II
							Clayey SAND with gravel: moderate brown; moist; 1/2 to 1 inch sub-angular gravel.	5.5	
				6	SC				
				7			**Clayey SAND:** red brown; moist.	7.0	
0.0		B-12-8		8	SC		Wet at 8.5 fbg. ▽		
				9				9.0	Bottom of Boring @ 9 fbg

WELL LOG (PID) I:\CHEVRON\611650-1611650-3611650-3611650-GINT BORING LOGS.GPJ DEFAULT.GDT 5/28/10

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BORING/WELL LOG

CLIENT NAME	Chevron	**BORING/WELL NAME**	B-13
JOB/SITE NAME	Former Chevron 9-8341	**DRILLING STARTED**	11-May-10
LOCATION	3530 MacArthur Boulevard, Oakland, CA	**DRILLING COMPLETED**	11-May-10
PROJECT NUMBER	611650	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	PeneCore Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hand-Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	3.25"	**SCREENED INTERVAL**	NA
LOGGED BY	C. Benedict	**DEPTH TO WATER (First Encountered)**	5.5 fbg (11-May-10)
REVIEWED BY	J. Kiernan, PE# C68498	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							8 inches concrete.		Concrete
							FILL: Clayey SAND; brown; moist.	0.7	
				1			**CLAY:** dark grey; moist; high estimated plasticity.	1.0	
				2					
				3	CL				Portland Type I/II
				4					
0.0		B-13- 5		5					
							▽	5.5	
					SC		**Clayey SAND with gravel:** dark grey; wet; 1/2 to 1 inch sub-angular gravel.		
				6				6.0	Bottom of Boring @ 6 fbg

WELL LOG (PID) I:\CHEVRON\611650-1611650-3611650-GINT BORING LOGS.GPJ DEFAULT.GDT 5/28/10

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BORING/WELL LOG

CLIENT NAME	Chevron	**BORING/WELL NAME**	B-14
JOB/SITE NAME	Former Chevron 9-8341	**DRILLING STARTED**	11-May-10
LOCATION	3530 MacArthur Boulevard, Oakland, CA	**DRILLING COMPLETED**	12-May-10
PROJECT NUMBER	611650	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	PeneCore Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hand-Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	3.25"	**SCREENED INTERVAL**	NA
LOGGED BY	C. Benedict	**DEPTH TO WATER (First Encountered)**	7.5 fbg (12-May-10)
REVIEWED BY	J. Kiernan, PE# C68498	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							8 inches concrete.		Concrete
							FILL: Sandy CLAY; brown; medium estimated plasticity.	0.7	
				1			**CLAY:** dark grey; moist; high estimated plasticity.	1.0	
				2					
				3	CL				
				4					
1.8		B-14-5		5					Portland Type I/II
								5.5	
							CLAY with sand: Dark grey; moist; high estimated plasticity.		
				6					
					CL				
2.2		B-14-7.5		7					
							Wet at 7.5 fbg.		
				8				8.0	Bottom of Boring @ 8 fbg

WELL LOG (PID) I:\CHEVRON\6116--1611650--1611650--3611650-GINT BORING LOGS.GPJ DEFAULT.GDT 5/28/10

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BORING/WELL LOG

CLIENT NAME	Chevron	**BORING/WELL NAME**	B-15
JOB/SITE NAME	Former Chevron 9-8341	**DRILLING STARTED**	12-May-10
LOCATION	3530 MacArthur Boulevard, Oakland, CA	**DRILLING COMPLETED**	12-May-10
PROJECT NUMBER	611650	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	PeneCore Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hand-Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	3.25"	**SCREENED INTERVAL**	NA
LOGGED BY	C. Benedict	**DEPTH TO WATER (First Encountered)**	7.5 fbg (12-May-10) ▽
REVIEWED BY	J. Kiernan, PE# C68498	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							8 inches concrete.		Concrete
								0.7	
							FILL: Clayey SAND; brown; moist.	1.0	
				1			**CLAY with sand:** dark grey; moist; high estimated plasticity.		
20.0				2					
				3					
15.5				4	CL		1/4 to 2 inch gravel; color change to grey.		Portland Type I/II
3.5		B-15-6		5					
				6					
374		B-15-7		7					
							▽ Wet at 7.5 fbg.	7.5	Bottom of Boring @ 7.5 fbg

WELL LOG (PID) I:\CHEVRON\611650-1611650-3611650-GINT BORING LOGS.GPJ DEFAULT.GDT 5/28/10

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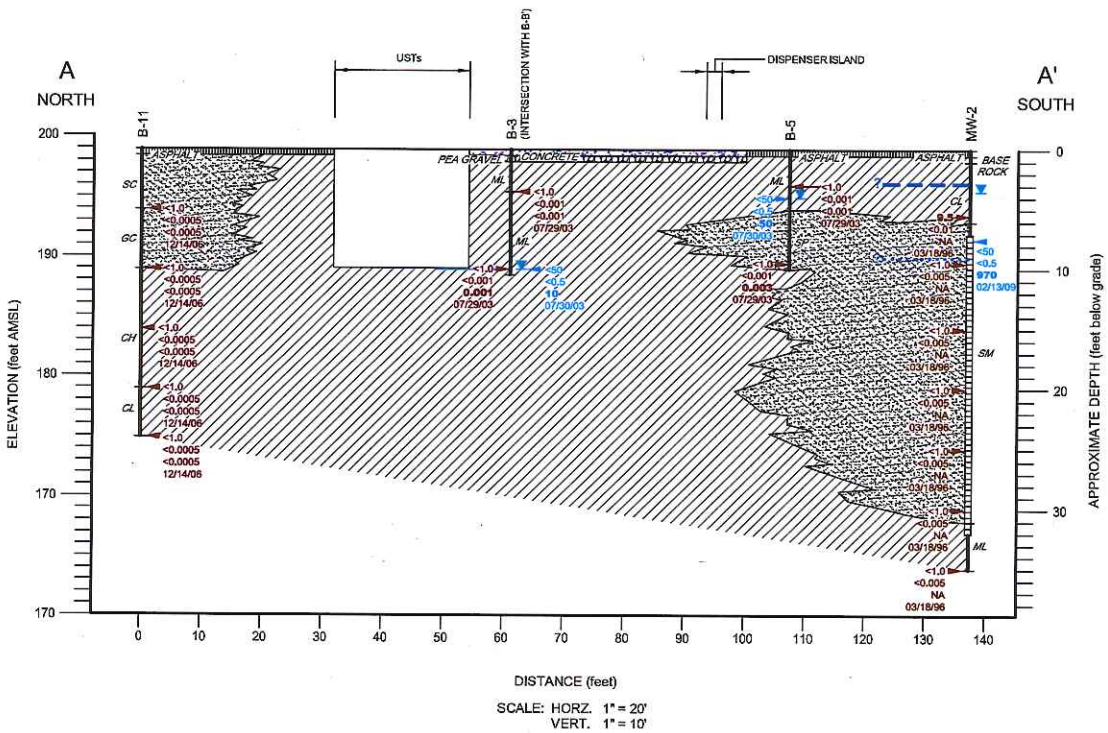
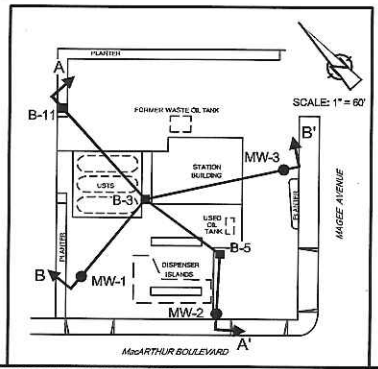
BORING/WELL LOG

CLIENT NAME	Chevron	**BORING/WELL NAME**	B-16
JOB/SITE NAME	Former Chevron 9-8341	**DRILLING STARTED**	12-May-10
LOCATION	3530 MacArthur Boulevard, Oakland, CA	**DRILLING COMPLETED**	12-May-10
PROJECT NUMBER	611650	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	PeneCore Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hand-Auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	3.25"	**SCREENED INTERVAL**	NA
LOGGED BY	C. Benedict	**DEPTH TO WATER (First Encountered)**	7.5 fbg (12-May-10) ▽
REVIEWED BY	J. Kiernan, PE# C68498	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							5 inches concrete.	0.5	Concrete
							FILL: 3 inches pea gravel.	0.8	
				1			**CLAY with gravel:** brown; moist; high estimated plasticity.		
				2					
				3	CL				
				4					Portland Type I/II
0.5		B-16-5		5				5.0	
							CLAY with sand: dark grey; moist; high estimated plasticity.		
				6	CL				
0.9		B-16-7.5		7					
							Wet at 7.5 fbg. ▽		
				8				8.0	Bottom of Boring @ 8 fbg

WELL LOG (PID) I:\CHEVRON\611\6116-1611650-1611650-3\611650-GINT BORING LOGS.GPJ DEFAULT.GDT 5/28/10





LEGEND

- MW-2 — WELL / BORING DESIGNATION
- GROUND SURFACE
- WELL INSTALLATION
- STRATIGRAPHIC BOUNDARY
- CL — TYPICAL SOIL CLASSIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING
- APPROXIMATE SOIL SAMPLE LOCATION
- TPHg / BENZENE / MTBE / DATE — HYDROCARBON CONCENTRATIONS IN SOIL (mg/kg)
- APPROXIMATE GROUNDWATER SAMPLE LOCATION
- TPHg / BENZENE / MTBE / DATE — HYDROCARBON CONCENTRATIONS IN GROUNDWATER (µg/L)
- GROUNDWATER DEPTH

- < NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT
- NA NOT ANALYZED
- LOWEST GROUNDWATER ELEVATION (MSL)
- HIGHEST GROUNDWATER ELEVATION (MSL)
- *ASPHALT*
- *CONCRETE*
- *PEA GRAVEL*
- FINE-GRAINED SOILS
  - *CH / CL* - CLAY
  - *ML* - SILT
- COARSE-GRAINED SOILS
  - *SC* - CLAYEY SAND
  - *SM* - SILTY SAND
  - *SP* - GRAVELLY SAND
  - *GC* - CLAYEY GRAVEL

figure 3

CROSS SECTION A-A'
FORMER CHEVRON SERVICE STATION 9-8341
3530 MACARTHUR BOULEVARD
Oakland, California

611650-204(003)GN-WA003 APR 22/2009

ATTACHMENT 6

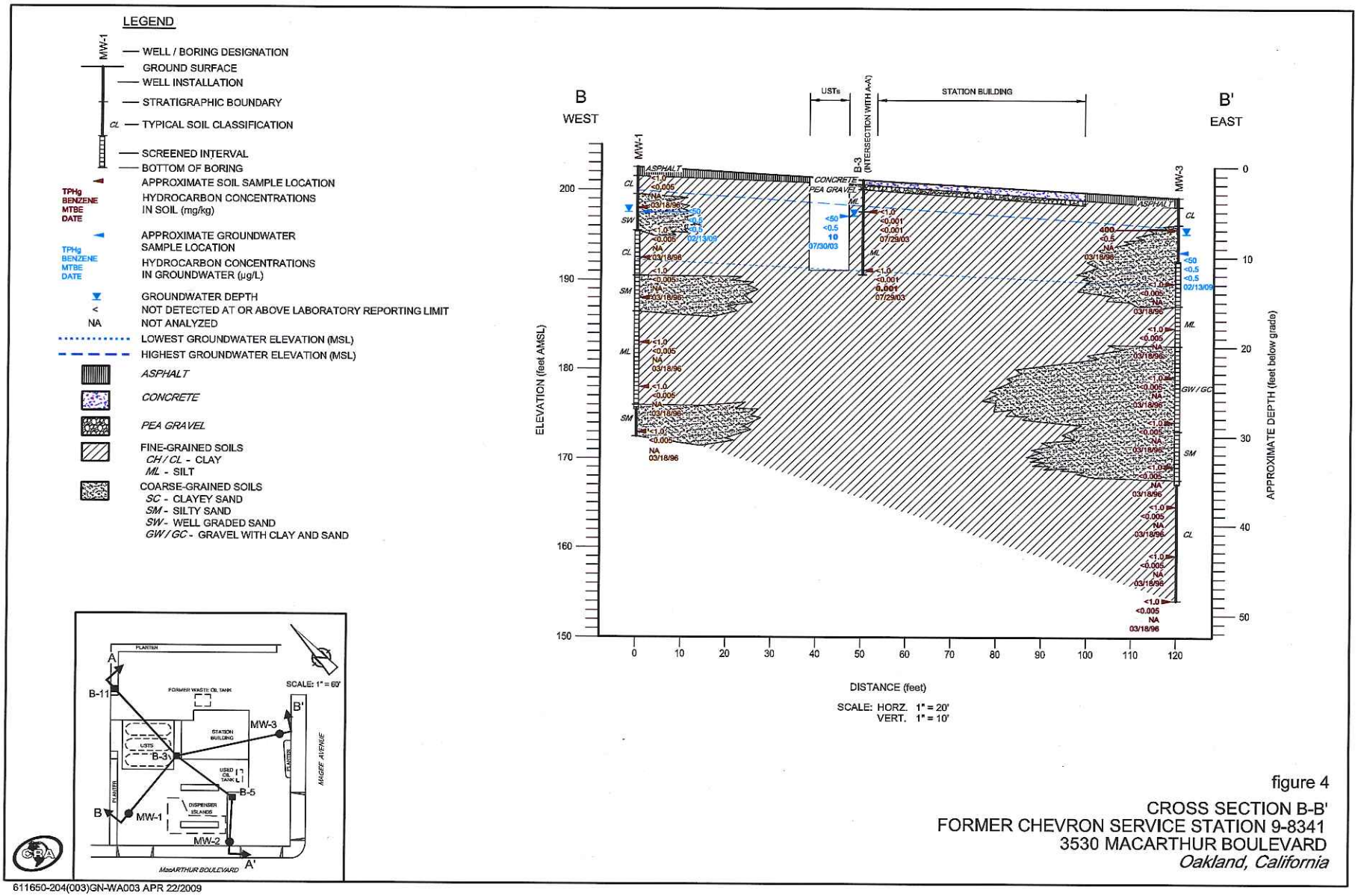


figure 4

CROSS SECTION B-B'
FORMER CHEVRON SERVICE STATION 9-8341
3530 MACARTHUR BOULEVARD
Oakland, California

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