

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

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

November 22, 2005

Mr. Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Mr. Michael Dosen
Harsch Investment Group
523 West Plaza
Alameda, CA 94501

Dear Mr. Brown and Mr. Dosen:

Subject: Fuel Leak Site Case Closure; 2160 Otis Drive, Alameda, CA; Case No. RO0002433;
Underground Storage Tank Cleanup Fund No. 16168

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:

- Residual concentrations of up to 270 milligrams per kilogram (mg/kg) of total petroleum hydrocarbons as gasoline remain in soil at the site.
- Residual concentrations of up to 120 micrograms per liter ($\mu\text{g/L}$) of total petroleum hydrocarbons as gasoline remain in groundwater at the site.
- Residual concentrations of up to 88 $\mu\text{g/L}$ of methyl tert-butyl ether remain in groundwater at the site.

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Donna L. Drogos". The signature is fluid and cursive.

Donna L. Drogos, P.E.
LOP and Toxics Program Manager

Enclosures:

1. Remedial Action Completion Certificate
2. Case Closure Summary

cc:

Ms. Cherie McCaulou (w/enc)
SF- Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

Mr. Toru Okamoto (w/enc)
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120

City of Alameda Planning Department
2263 Santa Clara Avenue
Room 190
Alameda, CA 94501

Ms. Ana Friel
Cambria Environmental Technology, Inc.
270 Perkins Street
Sonoma, CA 95476

Jerry Wickham (w/orig enc), D. Drogos (w/enc), R. Garcia (w/enc)



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Shell Oil Products US
20945 S. Wilmington Ave.
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523 West Plaza
Alameda, CA 94501

REMEDIAL ACTION COMPLETION CERTIFICATE

Dear Mr. Brown and Mr. Dosen:

Subject: Fuel Leak Site Case Closure; 2160 Otis Drive, Alameda, CA; Case No. RO0002433;
Underground Storage Tank Cleanup Fund No. 16168

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 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code.

Please contact our office if you have any questions regarding this matter.

Sincerely,


Mee Ling Tung
Director
Alameda County Environmental Health

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

I. AGENCY INFORMATION

Date: October 14, 2005

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Jerry Wickham	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Shell #13-5034		
Site Facility Address: 2160 Otis Drive, Alameda, CA 94501		
RB Case No.: 01-1341	Local Case No.: STID 590	LOP Case No.: RO0002433
URF Filing Date: 03/17/1998	SWEEPS No.: ---	APN: 074-1200-029-04
Responsible Parties	Addresses	Phone Numbers
Denis Brown, Shell Oil Products US	20945 S. Wilmington Avenue, Carson, CA 90810	707-865-0251
Preston Niette Harsch Investment Group	Harsch Investment Group 523 West Plaza Alameda, CA 94501	510-521-8100

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	550 gallons	Waste oil	Removed	09/04/1997
2	10,000 gallons	Gasoline	Removed	09/04/1997
3	10,000 gallons	Gasoline	Removed	09/04/1997
4	10,000 gallons	Gasoline	Removed	09/04/1997
Piping			Removed	09/04/1997

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. No holes, cracks, or other signs of failure were observed in any of the tanks.	
Site characterization complete? Yes	Date Approved By Oversight Agency: ----

Monitoring wells installed? Yes	Number: 1 existing; 3 destroyed	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 3	Lowest Depth: 6	Flow Direction: North/northeast
Most Sensitive Current Use: Potential drinking water source.		

<p>Summary of Production Wells in Vicinity: The site is located about ¼ mile inland from San Francisco Bay and seaward of an unnamed lagoon. Based on a well search conducted for a site at 2340 Otis Drive, no wells are located within 1,000 feet of 2160 Otis Drive. The nearest well appears to be an irrigation well installed in 1977 at 2812 Otis Drive, approximately 2,700 feet southeast of the site. This well does not appear to be a receptor due to it's distance from the site.</p>	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: Unnamed Lagoon 300 feet northeast (downgradient).
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
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	3 – 10,000 gallon tanks 1 – 550-gallon tank	Transported to Erickson, Inc for disposal	09/04/1997
Piping	Not reported	Transported to Erickson, Inc for disposal	09/04/1997
Free Product	None	--	--
Soil	Approximately 1,050 cubic yards	Forward Incorporated, Manteca, CA	August 1997
Groundwater	Not reported	--	--

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
 (Please see Attachments 1 through 7 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	270 (09/97)	270 (09/97)	8,300 (09/97)(1)	120 (12/04)
TPH (Diesel)	7 (11/00)	7 (11/00)	12,000 (09/97)(2)	<900 (12/01)
Oil & Grease	650 (8/97)(3)	650 (8/97)(3)	5,600 (12/97)(4)	--
Benzene	1.7 (9/97)	1.7 (9/97)	250 (12/01)	<0.5 (12/04)
Toluene	9.3 (9/97)	9.3 (9/97)	50 (5/01)	<0.5 (12/04)
Ethylbenzene	2.4 (9/97)	2.4 (9/97)	150 (5/01)	<0.5 (12/04)
Xylenes	22 (9/97)	22 (9/97)	340 (5/01)	<1. (12/04)
Heavy Metals	39(5)	39(5)	--	--
MTBE	0.49 (9/97)(6)	0.49 (9/97)(6)	920 (12/97)(6)	88 (12/04)(6)
Other (8240/8270)	ND(7)	ND(7)	77(8)	--

- (1) The maximum TPHg concentration detected in groundwater from wells or grab samples was 3,100 ppb (well MW-3). A TPHg concentration of 8,300 ppb was detected in groundwater collected directly from the tank pit during tank removal.
- (2) The maximum TPHd concentration detected in groundwater from wells or grab samples was 1,100 ppb. A water sample collected directly from the waste oil tank pit contained 12,000 ppb TPHd.
- (3) Total recoverable petroleum hydrocarbons by EPA method 418.1.
- (4) Total recoverable petroleum hydrocarbons (oil and grease) by Standard Method 5520 E&F.
- (5) Heavy metals in soil = Ba – 60 ppm, Co – 7.3 ppm, Cr – 39 ppm, Cu – 13 ppm, Hg – 0.021 ppm, Ni – 46 ppm, Pb – <5 ppm, Ag – 47 ppm, V – 28 ppm, Zn – 33 ppm.
- (6) TBE, TAME, DIPE, ETBE, EDB, and EDC not analyzed for soil. For groundwater, <2 ppb TAME, <2 ppb ETBE, <2 ppb DIPE, 13 ppb TBA. EDB and EDC not analyzed for groundwater.
- (7) VOCs not detected by EPA Method 8010 and SVOCs not detected by EPA Method 8270; detection limits vary by compound.
- (8) 3.7 ppb chloroform and 77 ppb methylene chloride detected in water sample from waste oil tank pit. All other VOCs and SVOCs not detected.

Site History and Description of Corrective Actions:

The site is located in a commercial area on the west side of the intersection of Otis Drive and South Shore Center. Shell discontinued service station operations and demolished the aboveground facilities in September 1997.

The site currently is covered by an Office Max office building and parking area.

A 500-gallon waste oil tank was removed from the site in June 1987. Soil and groundwater investigations were conducted at the site between 1987 and 1995. Three monitoring wells were installed during the investigations. A Remedial Action Completion Certificate Case for the waste oil tank was issued by ACEH on November 14, 1995. The three monitoring wells were destroyed.

Three 10,000-gallon fiberglass gasoline tanks and associated piping and dispensers were excavated on September 4, 1997. No cracks, holes or other signs of structural failure were observed at the time of removal. Six soil samples and one water sample were collected from the gasoline tank excavation. One 550-gallon fiberglass tank and associated piping was also excavated and removed on September 4, 1997. One soil and one water sample was collected from the waste oil tank pit following removal. Six soil samples were collected from beneath former product dispensers and piping. No soil or groundwater was removed from the site. (The waste oil tank was installed at the same location as the waste oil tank removed in 1987).

A hoist and oil/water separator were also removed in September, 1997. TPHH, TRPH, and BTEX were not detected in soil samples collected beneath the two former hoists. TEPH, TRPH, VOCs, and SVOCs were not detected in one soil sample collected beneath the former oil/water separator.

A Geoprobe investigation consisting of seven borings was conducted in December 1997. One monitoring well, MW-3, was installed at the site in November 2000. No TPHg, BTEX, or MTBE were detected in soil samples from the MW-3 boring. During four quarters of groundwater monitoring, the maximum detected concentrations of TPHg, benzene, and MTBE were 3,100, 250, and 180 $\mu\text{g/l}$, respectively. During the most recent groundwater monitoring event on December 7, 2004, the analytical results for TPHg, benzene, and MTBE were 120, <0.5, and 88 $\mu\text{g/l}$, respectively.

An off-site assessment was conducted in December 2003 to assess the extent of contamination in groundwater downgradient of the site and near subsurface utility lines. Soil and groundwater samples were collected from five soil borings immediately downgradient from the site, along Otis Drive. TPHg was not detected in groundwater samples from three soil borings and was detected at concentrations of 57 and 62 $\mu\text{g/L}$ in groundwater samples from the other two soil borings. Benzene and MTBE were not detected in groundwater samples from any of the five soil borings. Based on these results, the assessment concluded that petroleum hydrocarbons had not migrated a significant distance downgradient and that the utility lines did not act as preferential pathways.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? <input checked="" type="radio"/> Yes <input type="radio"/> No		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? <input checked="" type="radio"/> Yes <input type="radio"/> No		
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, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: None		
Should corrective action be reviewed if land use changes? No		
Was a deed restriction or deed notification filed? No		Date Recorded: --
Monitoring Wells Decommissioned: No	Number Decommissioned: 3	Number Retained: 1
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		

V. ADDITIONAL COMMENTS, DATA, ETC.

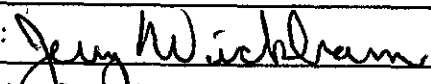
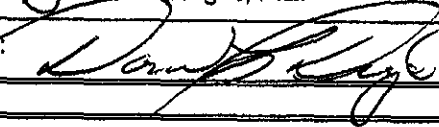
Considerations and/or Variances:

The site is approximately 300 feet upgradient from an unnamed lagoon. The concentrations of benzene detected in well MW-3 exceeded the aquatic habitat goal of 46 µg/L for groundwater (Screening for Environmental Concerns with Sites with Contaminated Soil and Groundwater - February 2005) during 4 of 5 monitoring events between March 2001 and August 2003. However, benzene was not detected in 3 grab groundwater samples collected approximately 75 feet downgradient from well MW-3 and benzene was not detected (<0.5 µg/L) in well MW-3 during the most recent groundwater monitoring event in December 2004. Ethylene dibromide and ethylene dichloride were not analyzed in soil and groundwater.

Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment based upon the information available in our files to date. No further investigation or cleanup is necessary. ACEH staff recommend case closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham	Title: Hazardous Materials Specialist
Signature: 	Date: 10/14/05
Approved by: Donald L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature: 	Date: 10/14/05

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:	Title: Associate Water Resources Control Engineer
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature: <i>John McCaulon</i>	Date: 10/27/05

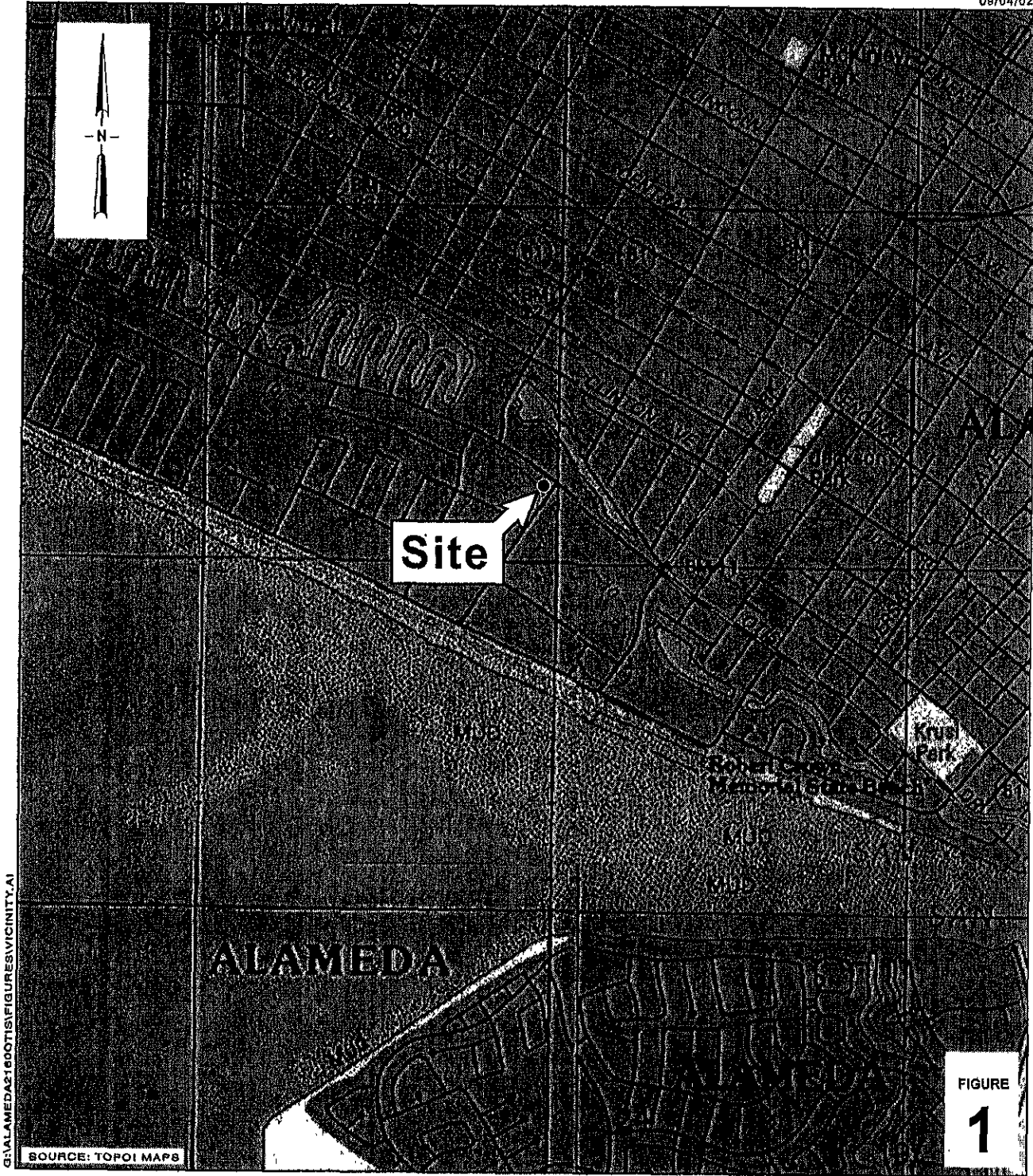
VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 10/27/05	Date of Well Decommissioning Report: 11/15/05	
All Monitoring Wells Decommissioned: <input checked="" type="radio"/> Yes <input type="radio"/> No	Number Decommissioned: 1	Number Retained: 0
Reason Wells Retained:		
Additional requirements for submittal of groundwater data from retained wells:		
ACEH Concurrence - Signature: <i>Jerry Wickham</i>	Date: 11/21/05	

Attachments:

1. Site Vicinity Map
2. Groundwater Elevation Contours - April 13, 1994
3. Sample Locations Map; Soil/Groundwater Chemical Concentration Map - December 9, 2003; Groundwater Elevation/Chemical Concentration Map - December 7, 2004.
4. Soil Analytical Data
5. Groundwater Analytical Data
6. Boring Logs

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.



Former Shell Service Station
 2160 Otis Drive
 Alameda, California
 Incident #98995140



C A M B R I A

Vicinity Map

ATTACHMENT 1

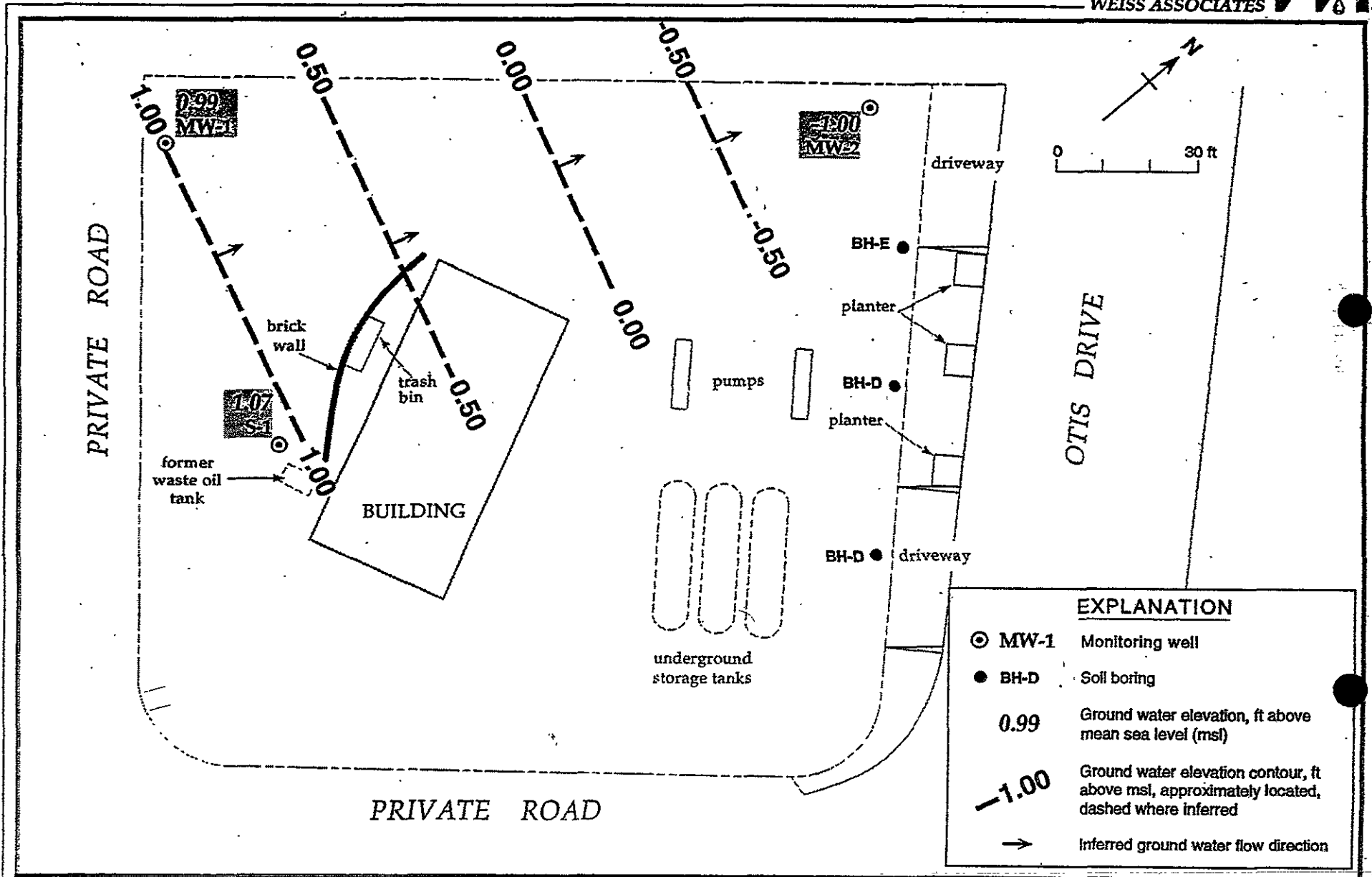
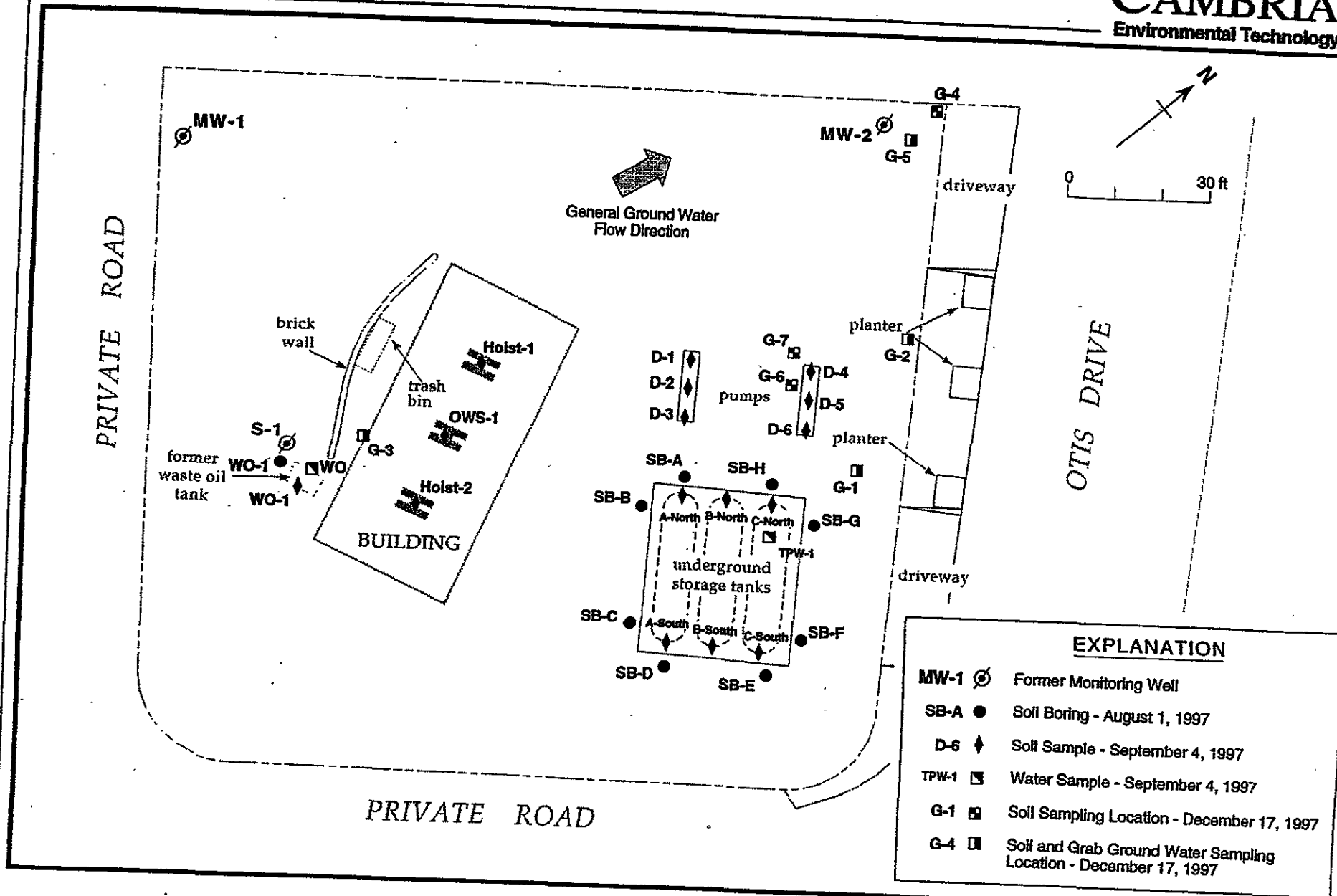


Figure 2. Monitoring Well Locations, Soil Boring Locations and Ground Water Elevation Contours - April 13, 1994 - Shell Service Station WIC #204-0072-2160, 2160 Otis Drive, Alameda, California

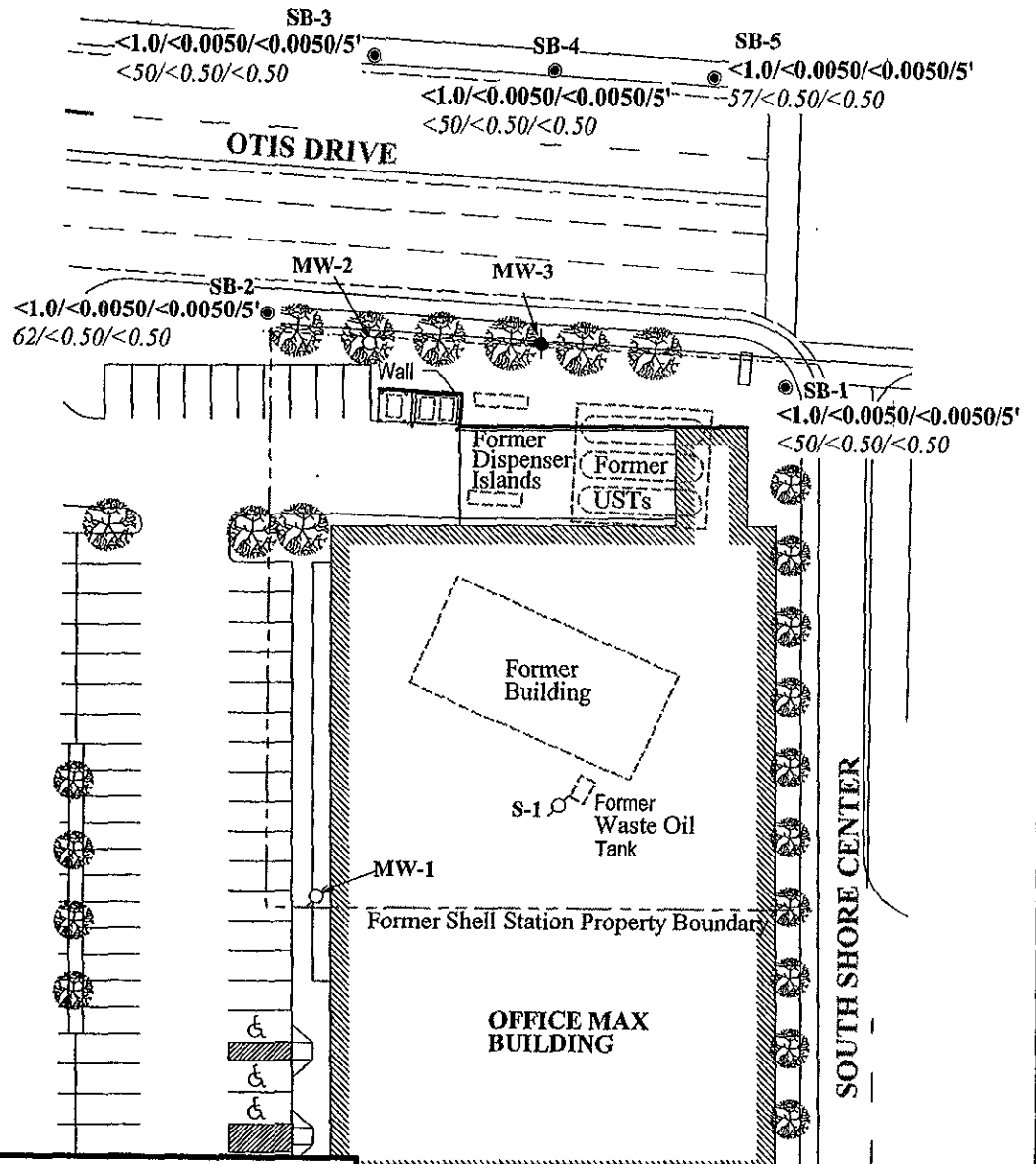


EXPLANATION	
MW-1	Former Monitoring Well
SB-A	Soil Boring - August 1, 1997
D-6	Soil Sample - September 4, 1997
TPW-1	Water Sample - September 4, 1997
G-1	Soil Sampling Location - December 17, 1997
G-4	Soil and Grab Ground Water Sampling Location - December 17, 1997

Figure 1. Sample Locations - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California

ATTACHMENT 3

F:\PROJECTS\HELL\LAZ100\FIGURES\GRAB-SMPL.A1



EXPLANATION	
	Groundwater monitoring well
	Destroyed monitoring well
	Soil boring
<1.0/<0.0050/<0.0050/5'	TPHg/benzene/MTBE concentrations in parts per million by EPA Method 8260B/depth in feet for soil.
<50/<0.50/<0.50	TPHg/benzene/MTBE concentrations in parts per billion by EPA Method 8260B for groundwater.
<x	Not detected at reporting limit x

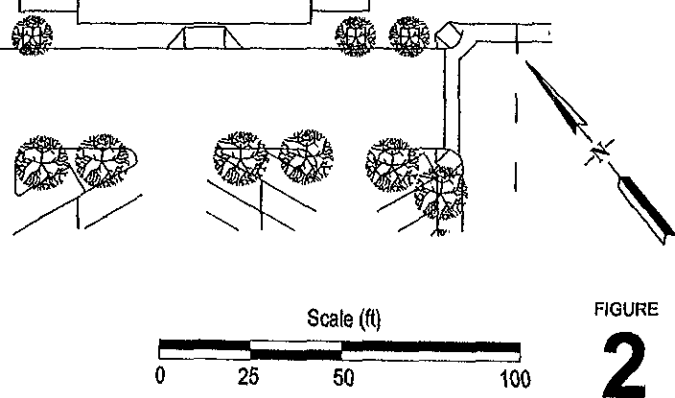


FIGURE
2

Former Shell Service Station
2160 Otis Drive
Alameda, California

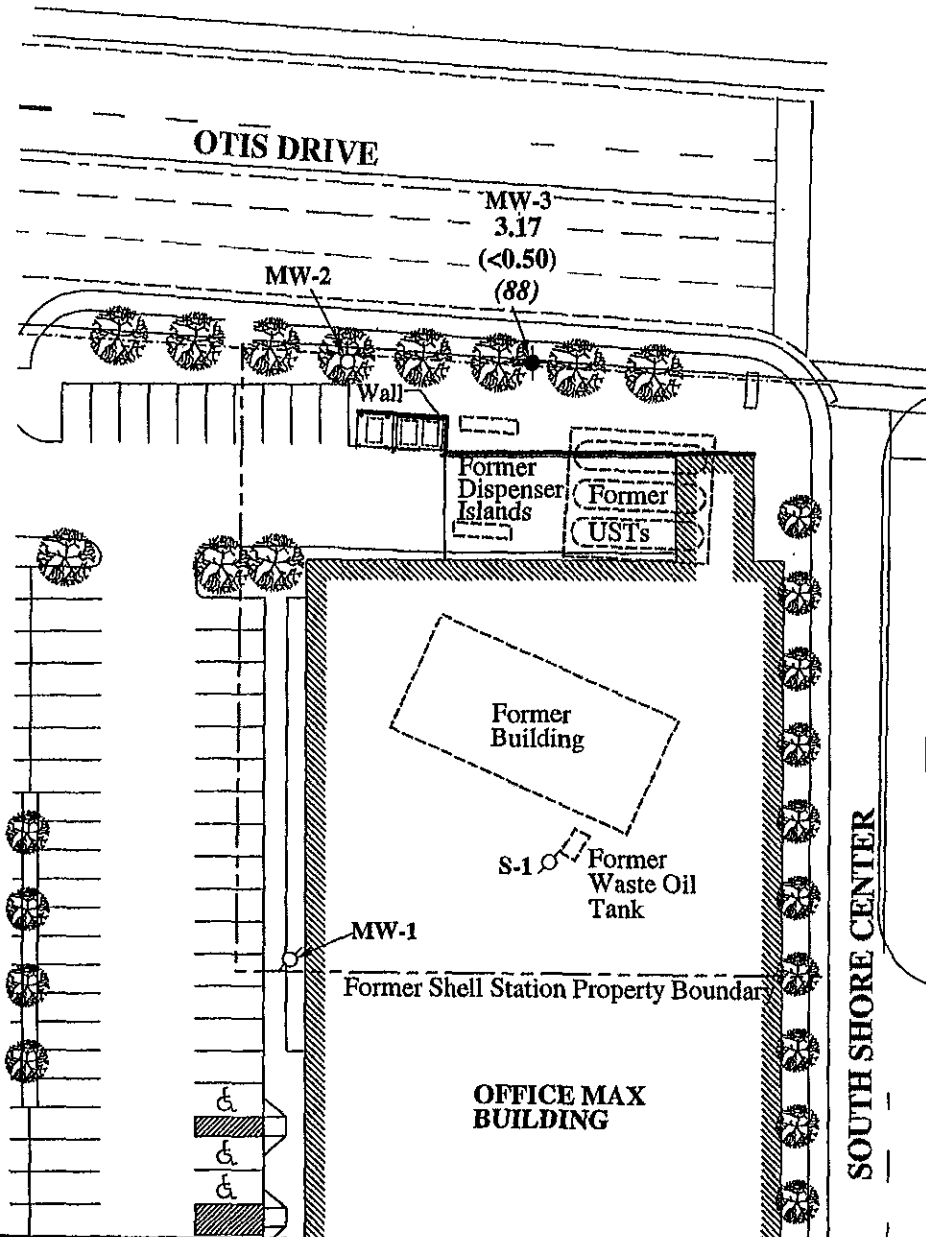


**Soil/Groundwater Chemical
Concentration Map**

C A M B R I A

December 9, 2003

0627



EXPLANATION

- ◆ Groundwater monitoring well
- ⊗ Destroyed monitoring well
- 3.17 Groundwater elevation in feet referenced to mean sea level
- (<0.50) Benzene concentration in parts per billion (ppb)
- (88) MTBE concentration in ppb
- <x Not detected at reporting limit x

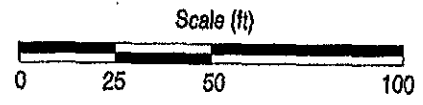


FIGURE
2

Former Shell Service Station
 2160 Otis Drive
 Alameda, California



**Groundwater Elevation/Chemical
 Concentration Map**

CAMBRIA

December 7, 2004

Table 1. Soil Analytic Data - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Sample ID, Depth in ft	Sample Location	Date Sampled	TPPH (mg/kg)	TEPH (mg/kg)	TRPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)
G-1, 3.5	Down gradient of UST pit	12/17/97	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	0.028
G-2, 3.5	Down gradient of dispensers	12/17/97	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
G-3, 3.5	Down gradient of waste oil tank	12/17/97	<1.0	<1.0	110	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
G-4, 3.5	North corner	12/17/97	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
G-5, 3.5	North corner	12/17/97	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
G-6, 3.5	Dispensers	12/17/97	5.2	--	--	0.0059	0.041	0.025	0.70	<0.025
G-6, 7.5	Dispensers	12/17/97	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
G-7, 3.5	Dispensers	12/17/97	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
G-7, 7.5	Dispensers	12/17/97	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.025

mg/kg = Milligrams per kilogram

TPPH = Total purgable petroleum hydrocarbons (gasoline) by modified EPA Method 8015

TEPH = Total extractable petroleum hydrocarbons (diesel) by modified EPA Method 8015

TRPH = Total recoverable petroleum hydrocarbons (oil and grease) by Standard Method 5520 E&F

MTBE = Methyl tert-butyl ether by EPA Method 8020

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

UST = Underground storage tank

<n = Below detection limit of n mg/kg

-- = Not analyzed

ATTACHMENT 4

Table 1. Soil Analytic Data - Gasoline Components - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Sample ID	Sample Location	Date Sampled	TPPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)
D-1	Dispensers	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
D-2	Dispensers	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
D-3	Dispensers	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
D-4	Dispensers	9/4/1997	270	1.7	9.3	2.4	22	<1.2
D-5	Dispensers	9/4/1997	5.5	0.011	<0.010	0.010	0.035	0.32
D-6	Dispensers	9/4/1997	1.3	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
A-North	Gasoline Tank Pit	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
B-North	Gasoline Tank Pit	9/4/1997	<1.0	0.11	<0.0050	0.0081	0.0089	<0.025
C-North	Gasoline Tank Pit	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.49
A-South	Gasoline Tank Pit	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
B-South	Gasoline Tank Pit	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
C-South	Gasoline Tank Pit	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.056
Hoist-1	Hoist	9/4/1997	—	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
Hoist-2	Hoist	9/4/1997	—	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
OWS-1	Oil/Water Separator	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
WO-1	Waste Oil Tank Pit	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025

mg/kg = milligrams per kilogram

TPPH = Total purgable petroleum hydrocarbons (gasoline) by modified EPA Method 8015

MTBE = Methyl tert-butyl Ether by EPA Method 8020

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

<n = Below detection limit of n mg/kg

Table 1. Soil Analytic Data for Petroleum Hydrocarbons - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Depth (ft.-BGS)	TPPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
SB-A	8/1/1997	5.0	46	0.15	0.064	0.23	1.2
SB-A	8/1/1997	7.5	14	<0.012	0.052	0.14	0.67
SB-A	8/1/1997	10.0	<1.0	<0.0050	<0.0050	<0.0050	0.017
SB-A	8/1/1997	12.5	71	<0.050	<0.050	0.098	0.85
SB-A	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-B	8/1/1997	4.0	1.2	0.013	<0.0050	0.014	0.088
SB-B	8/1/1997	7.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-B	8/1/1997	10.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-B	8/1/1997	12.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-B	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-C	8/1/1997	6.0	13	<0.0050	<0.0050	0.032	0.019
SB-C	8/1/1997	7.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-C	8/1/1997	10.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-C	8/1/1997	14.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-C	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-D	8/1/1997	5.5	16	<0.012	0.036	0.096	0.17
SB-D	8/1/1997	7.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-D	8/1/1997	9.5	2.6	<0.0050	0.0052	0.0080	0.043
SB-D	8/1/1997	11.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-D	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-E	8/1/1997	6.0	1.1	0.031	0.13	<0.0050	0.25
SB-E	8/1/1997	7.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-E	8/1/1997	10.5	1.3	0.0061	0.042	<0.0050	0.13
SB-E	8/1/1997	12.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-E	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-F	8/1/1997	4.0	1.1	0.0059	0.011	<0.0050	0.025
SB-F	8/1/1997	7.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-F	8/1/1997	10.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-F	8/1/1997	12.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-F	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050

Table 1. Soil Analytic Data for Petroleum Hydrocarbons - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Depth (ft-BGS)	TPPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
SB-G	8/1/1997	4.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-G	8/1/1997	7.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-G	8/1/1997	10.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-G	8/1/1997	12.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-G	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-H	8/1/1997	4.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-H	8/1/1997	7.5	<1.0	<0.0050	<0.0050	<0.0050	0.0056
SB-H	8/1/1997	10.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-H	8/1/1997	12.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-H	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050

mg/kg = milligrams per kilogram

TPPH = Total purgable petroleum hydrocarbons by modified EPA Method 8015

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

<n = Below detection limit of n mg/kg

ft-BGS = Feet below ground surface

Table 3. Soil Analytic Data for Waste Oil Petroleum Hydrocarbons - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Depth (ft-BGS)	TRPH (mg/kg)	TPPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
WO	8/1/1997	4.0	650	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
WO	8/1/1997	7.5	26	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
WO	8/1/1997	10.0	26	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
WO	8/1/1997	12.0	33	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
WO	8/1/1997	15.5	72	4.3	0.0095	0.026	0.12	0.54
WO	8/1/1997	17.0	35	<1.0	<0.0050	<0.0050	0.0098	0.018
WO	8/1/1997	18.0	37	<1.0	<0.0050	<0.0050	0.0077	0.015

mg/kg = milligrams per kilogram

TRPH = Total recoverable petroleum hydrocarbons by EPA Method 418.1

TPPH = Total purgable petroleum hydrocarbons by modified EPA Method 8015

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

<n = Below detection limit of n mg/kg

ft-BGS = feet below ground surface

Table 1. Soil Analytical Data - Former Shell Service Station, Incident # 98995140, 2160 Otis Drive, Alameda, California

Sample ID	Depth (ft)	Date Sampled	TPHg	TPHd	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
			← Concentrations reported in milligrams per kilogram (mg/kg or ppm) →						
MW-3-6.5	6.5	11/2/00	<1.00	7.00	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
MW-3-10.5	10.5	11/2/00	<1.00	<1.00	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
MW-3-17.5	17.5	11/2/00	<1.00	<1.00	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline
 TPHd = Total petroleum hydrocarbons as diesel
 All analyses performed by EPA Method 8260B
 <n = Below detection limit of n mg/kg
 NA = not analyzed

Table 3. Soil Analytic Data - Total Metals - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Sample ID	Sample Location	Date Sampled	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
D-1	Dispensers	9/4/1997	---	---	<5.0	---	---
D-2	Dispensers	9/4/1997	---	---	<5.0	---	---
D-3	Dispensers	9/4/1997	---	---	<5.0	---	---
D-4	Dispensers	9/4/1997	---	---	<5.0	---	---
D-5	Dispensers	9/4/1997	---	---	<5.0	---	---
D-6	Dispensers	9/4/1997	---	---	<5.0	---	---
A-North	Gasoline Tank Pit	9/4/1997	---	---	<5.0	---	---
B-North	Gasoline Tank Pit	9/4/1997	---	---	<5.0	---	---
C-North	Gasoline Tank Pit	9/4/1997	---	---	<5.0	---	---
A-South	Gasoline Tank Pit	9/4/1997	---	---	<5.0	---	---
B-South	Gasoline Tank Pit	9/4/1997	---	---	<5.0	---	---
C-South	Gasoline Tank Pit	9/4/1997	---	---	<5.0	---	---
OWS-1	Oil/Water Separator	9/4/1997	<0.50	20	<5.0	16	15
WO-1	Waste Oil Tank Pit	9/4/1997	<0.50	19	<5.0	14	13

mg/kg = milligrams per kilogram

ND = Not detected. Detection limits vary by compound, see laboratory report for specifics.

<n = Below detection limit of n mg/kg

--- = Not Analyzed

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Table 2. Soil Analytic Data for Metals - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Sample Depth (ft-BGS)	Barium Ba (mg/kg)	Chromium Cr (mg/kg)	Cobalt Co (mg/kg)	Copper Cu (mg/kg)	Mercury Hg (mg/kg)	Nickel Ni (mg/kg)	Silver Ag (mg/kg)	Vanadium V (mg/kg)	Zinc Zn (mg/kg)
SB-(A,B,C,D)	8/1/1997	15.5	35	27	4.7	6.3	<0.020	25	<0.50	22	20
SB-(E,F,G,H)	8/1/1997	15.5	34	25	4.5	6.0	<0.020	25	<0.50	20	22
SB-A	8/1/1997	5.0,7.5,10.0,12.5	60	39	7.3	13	<0.020	46	<0.50	28	33
SB-B	8/1/1997	4.0,7.5,10.0,12.0	48	25	4.8	5.9	<0.020	23	<0.50	20	19
SB-C	8/1/1997	6.0,7.5,10.0,14.0	29	23	3.9	4.0	0.021	18	<0.50	17	14
SB-D	8/1/1997	5.5,7.5,9.5,11.5	43	19	4.1	6.7	0.040	18	<0.50	15	16
SB-E	8/1/1997	6.0,7.5,10.5,12.5	29	20	4.5	6.1	<0.020	22	<0.50	18	20
SB-F	8/1/1997	4.0,7.5,10.0,12.0	42	24	4.5	5.0	<0.020	23	<0.50	18	18
SB-G	8/1/1997	4.0,7.5,10.0,12.0	39	24	5.6	15	<0.020	21	<0.50	18	17
SB-H	8/1/1997	4.0,7.5,10.0,12.0	43	20	3.6	4.3	<0.020	18	47	15	14

Notes:

Samples analyzed for inorganic persistent and bioaccumulative toxic substances per Title 22

mg/kg = milligrams per kilogram

Only constituents that were detected are reported here. For the complete suite of analytes, see lab report.

<n = below detection limit of n mg/kg

ft-BGS = feet below ground surface

Table 4. Soil Analytic Data for Waste Oil Metals - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Sample Depth (ft-BGS)	Barium Ba (mg/kg)	Chromium Cr (mg/kg)	Cobalt Co (mg/kg)	Copper Cu (mg/kg)	Mercury Hg (mg/kg)	Nickel Ni (mg/kg)	Silver Ag (mg/kg)	Vanadium V (mg/kg)	Zinc Zn (mg/kg)
WO	8/1/1997	4.0,7.5,10.0,12.0	38	25	4.3	5.3	<0.020	21	<0.50	18	15
WO	8/1/1997	15.5,17.0,18.0	18	22	3.8	4.5	<0.020	18	<0.50	16	17

Notes:

Samples analyzed for inorganic persistent and bioaccumulative toxic substances per Title 22

mg/kg = milligrams per kilogram

Only constituents that were detected are reported here. For the complete suite of analytes, see lab report.

<n = below detection limit of n mg/kg

ft-BGS = feet below ground surface

Table 6. Soil Analytic Data for Waste Oil TCLP Metals - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Sample Depth (ft-BGS)	Arsenic As (mg/L)	Barium Ba (mg/L)	Cadmium Cd (mg/L)	Chromium Cr (mg/L)	Lead Pb (mg/L)	Mercury Hg (mg/L)	Selenium Se (mg/L)	Silver Ag (mg/L)
WO	8/1/1997	4.0,7.5,10.0,12.0	<0.10	0.56	<0.010	<0.010	<0.10	<0.00020	<0.10	<0.010
WO	8/1/1997	15.5,17.0,18.0	0.12	0.31	<0.010	<0.010	<0.10	<0.00020	<0.10	2.3

Notes:

Samples analyzed by Toxicity Characteristic Leaching Procedures, EPA Method 6010/7470

mg/L = milligrams per liter

<n = Below detection limit of n mg/L

ft-BGS = Feet below ground surface

Table 2. Soil Analytic Data - Other Components - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Sample ID	Sample Location	Date Sampled	TEPH (mg/kg)	TRPH (mg/kg)	VOCs (mg/kg)	SVOCs (mg/kg)
Hoist-1	Hoist	9/4/1997	<1.0	--	--	--
Hoist-2	Hoist	9/4/1997	<1.0	--	--	--
OWS-1	Oil/Water Separator	9/4/1997	<1.0	<50	ND	ND
WO-1	Waste Oil Tank Pit	9/4/1997	<1.0	<50	ND	ND

mg/kg = milligrams per kilogram

TEPH = Total extractable petroleum hydrocarbons (diesel) by modified EPA Method 8015

TRPH = Total recoverable petroleum hydrocarbons (oil and grease) by Standard Method 5520 E&F

VOCs = Volatile Organic Compounds by EPA Method 8010

SVOCs = Semi-Volatile Organic Compounds by EPA Method 8270

ND = Not detected. Detection limits vary by compound, see laboratory report for specifics.

<n = Below detection limit of n mg/kg

-- = Not Analyzed

Table 5. Soil Analytic Data for Waste Oil Polychlorinated Biphenyls - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Depth (ft-BGS)	PCB -1016 (mg/kg)	PCB - 1221 (mg/kg)	PCB - 1232 (mg/kg)	PCB - 1242 (mg/kg)	PCB - 1248 (mg/kg)	PCB - 1254 (mg/kg)	PCB - 1260 (mg/kg)
WO	8/1/1997	4.0,7.5,10.0,12.0	<0.020	<0.080	<0.020	<0.020	<0.020	<0.020	<0.020
WO	8/1/1997	15.5,17.0,18.0	<0.020	<0.080	<0.020	<0.020	<0.020	<0.020	<0.020

mg/kg = milligrams per kilogram

PCB = Polychlorinated Biphenyls by EPA Method 8080

<n = Below detection limit of n mg/kg

ft-BGS = Feet below ground surface

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Table 7. Soil Analytic Data by TCLP Semivolatiles- Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Sample Depth (ft-BGS)	Total Creosote (mg/L)	1,4 DCB (mg/L)	2,4 DTT (mg/L)	HCB (mg/L)	HC 1,3-BD (mg/L)	HCE (mg/L)	NB (mg/L)	PCP (mg/L)	Pyridine (mg/L)	2,4,5 TCP (mg/L)	2,4,6 TCP (mg/L)
WO	8/1/1997	4.0,7.5,10.0,12.0	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.040	<0.040	<0.040	<0.0080
WO	8/1/1997	15.5,17.0,18.0	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.040	<0.040	<0.040	<0.0080

Notes:

Samples analyzed by Semivolatile Toxicity Characteristic Leaching Procedures, EPA Method 6010/7470

mg/L = milligrams per liter

<n = below detection limit of n mg/L

ft-BGS = feet below ground surface

DCB = Dichlorobenzene

DTT = Dinitrotoluene

HCB = Hexachlorobenzene

HC 1,3 BD = Hexachloro-1,3-butadiene

HCE = Hexachloroethane

NB = Nitrobenzene

PCP = Pentachlorophenol

TCP = Trichlorophenol

Table 8. Soil Analytic Data by TCLP Volatiles- Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Sample Depth (ft-BGS)	Benzene (mg/L)	Carbon tetrachloride (mg/L)	Chloro-benzene (mg/L)	Chloro-form (mg/L)	1,2 DCA (mg/L)	1,1 DCE (mg/L)	MEK (mg/L)	PCE (mg/L)	TCE (mg/L)	Vinyl Chloride (mg/L)
WO	8/1/1997	4.0,7.5,10.0,12.0	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.10	<0.020	<0.020	<0.020
WO	8/1/1997	15.5,17.0,18.0	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.10	<0.020	<0.020	<0.020

Notes:

Samples analyzed by Volatile Toxicity Characteristic Leaching Procedures, EPA Method 8240

mg/L = milligrams per liter

<n = below detection limit of n mg/L

ft-BGS = feet below ground surface

DCA = Dichloroethane

DCE = Dichloroethylene

MEK = Methyl ethyl ketone

PCE = Tetrachloroethylene

TCE = Trichloroethylene

Table 4. Ground Water Analytic Data - Gasoline Components - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Sample ID	Sample Location	Date Sampled	TPPH (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
TPW-1	Gasoline Tank Pit	9/4/1997	8,300	<20	45	<20	1,300	8,300
WO	Waste Oil Tank Pit	9/4/1997	<50	<0.50	<0.50	<0.50	0.81	8.5

µg/L = Micrograms per liter

TPPH = Total purgable petroleum hydrocarbons (gasoline) by modified EPA Method 8015

MTBE = Methyl tert-butyl ether by EPA Method 8020

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

<n = Below detection limit of n µg/L

ND = Not detected. Detection limits vary by compound, see laboratory report for specifics.

Table 5. Ground Water Analytic Data - Other Components - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Sample ID	Sample Location	Date Sampled	TEPH (µg/L)	TRPH (µg/L)	VOCs (µg/L)	SVOCs (µg/L)
WO	Waste Oil Tank Pit	9/4/1997	12,000	150	a	ND

TEPH = Total extractable petroleum hydrocarbons (diesel) by modified EPA Method 8015

TRPH = Total recoverable petroleum hydrocarbons (oil and grease) by Standard Method 5520 E&F

VOCs = Volatile Organic Compounds by EPA Method 8010

SVOCs = Semi-Volatile Organic Compounds by EPA Method 8270

µg/L = Micrograms per liter

<n = Below detection limit of n µg/L

ND = Not detected. Detection limits vary by compound, see laboratory report for specifics.

a = 3.7 µg/L chloroform and 77 µg/L methylene chloride detected

Table 2. Ground Water Analytic Data - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Sample ID	Sample Location	Date Sampled	TPPH (µg/L)	TEPH (µg/L)	TRPH (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (8020) (µg/L)	MTBE (8260) (µg/L)
G-1	Down gradient of UST pit	12/17/97	2,900	---	---	240	<25	85	240	890	920
G-2	Down gradient of dispensers	12/17/97	780	---	---	110	3.0	21	5.5	46	57
G-3	Down gradient of waste oil tank	12/17/97	<50	<50 *	5,600	<0.50	<0.50	<0.50	<0.50	<2.5	---
G-5	North corner	12/17/97	<50	---	---	<0.50	<0.50	<0.50	<0.50	<2.5	---

µg/L = Micrograms per liter

TPPH = Total purgable petroleum hydrocarbons (gasoline) by modified EPA Method 8015

TEPH = Total extractable petroleum hydrocarbons (diesel) by modified EPA Method 8015

TRPH = Total recoverable petroleum hydrocarbons (oil and grease) by Standard Method 5520 E&F

MTBE = Methyl tert-butyl ether by EPA Method 8020 and EPA Method 8260

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

UST = Underground storage tank

<n = Below detection limit of n µg/L

* = TEPH analysis not completed within standard holding time

--- = Not analyzed

Table 2. Groundwater Analytical Data - Former Shell Service Station, Incident # 98995140, 2160 Otis Drive, Alameda, California

Sample ID	Depth (ft)	Date Sampled	TPHg	TPHd	TPHmo	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
Concentrations reported in milligrams per kilogram (mg/kg or ppm)										
S-1-5.0	5	11/30/2000	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
S-2-4.5	4.5	11/30/2000	<1.0	NA	NA	0.13	<0.0050	<0.0050	<0.0050	<0.0050
S-3-4.5	4.5	11/30/2000	<1.0	<1.0	<10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
S-4-4.5	4.5	11/30/2000	<1.0	<1.0	<10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
S-5-4.5	4.5	11/30/2000	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
S-6-4.5	4.5	11/30/2000	<1.0	NA	NA	0.020	<0.0050	<0.0050	<0.0050	<0.0050
S-7-4.5	4.5	11/30/2000	<1.0	<1.0	76	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
S-8-4.5	4.5	11/30/2000	<1.0	<1.0	<10	0.0090	<0.0050	<0.0050	<0.0050	<0.0050
S-9-4.5	4.5	11/30/2000	<1.0	<1.0	<10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline

TPHd = Total petroleum hydrocarbons as diesel

TPHmo = Total petroleum hydrocarbons as motor oil

All analyses performed by EPA Method 8260B

<n = Below detection limit of n mg/kg

NA = not analyzed

Table 3. Groundwater Analytical Data, Former Shell Service Station, 2160 Otis Drive, Alameda, California

Sample ID	Date Sampled	TPHg μg/L	Benzene μg/L	Toluene μg/L	Ethyl benzene μg/L	Total xylenes μg/L	MTBE μg/L
SB-1-W	09-Dec-03	<50	<0.50	<0.50	<0.50	<1.0	<0.50
SB-2-W	09-Dec-03	62	<0.50	<0.50	<0.50	<1.0	<0.50
SB-3-W	09-Dec-03	<50	<0.50	<0.50	<0.50	<1.0	<0.50
SB-4-W	09-Dec-03	<50	<0.50	<0.50	<0.50	<1.0	<0.50
SB-5-W	09-Dec-03	57	<0.50	<0.50	<0.50	1.8	<0.50

Abbreviations:

TPHg = Total petroleum hydrocarbon as gasoline by EPA Method 8260

Benzene, toluene, ethyl benzene, total xylenes by EPA Method 8260

MTBE = Methyl tertiary butyl ether, analyzed by EPA Method 8260

μg/L = Micrograms per liter

<x = Not detected at detection limit x

WELL CONCENTRATIONS
Former Shell Service Station
2160 Otis Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
S-1	9/4/1987	NA	NA	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-1	9/11/1989	<50	<100	<0.5	<1	<1	<3	NA	NA	NA	NA	NA	NA	5.1	4.29	0.81
S-1	4/11/1990	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4	1.1
S-1	7/10/1990	<90	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.25	0.85
S-1	10/9/1990	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.46	0.64
S-1	1/17/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.53	0.57
S-1	4/9/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.2	0.9
S-1	7/10/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.42	0.68
S-1	10/9/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.87	0.23
S-1	1/24/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.9	0.2
S-1	4/23/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.86	0.44
S-1	7/1/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.85	0.25
S-1	10/2/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.8	0.3
S-1	1/5/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	5.38	-0.28
S-1	4/8/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	3.69	1.41
S-1	7/20/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	4.2	0.9
S-1	10/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	4.38	0.72
S-1	1/7/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.19	0.91
S-1 (D)	1/7/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.03	1.07
S-1	7/26/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	4.76	0.34
S-1	11/1/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.84	0.26
S-1	1/13/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	4.07	1.03
S-1	4/20/1995	<50	NA	2.2	0.6	2.2	2.5	NA	NA	NA	NA	NA	NA	5.1	4.14	0.96
S-1	5/23/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	3.51	1.59
S-1	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	4/11/1990	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.23	0.77
MW-1	7/10/1990	100	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.4	0.6
MW-1	10/9/1990	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.61	0.39
MW-1	1/17/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.66	0.34
MW-1	4/9/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	4.96	1.04
MW-1	7/10/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.52	0.48
MW-1	10/9/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.7	0.3
MW-1	1/24/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.51	0.49
MW-1	4/23/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.14	0.86
MW-1	7/1/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	4.48	1.52
MW-1	10/2/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.8	0.2

WELL CONCENTRATIONS
Former Shell Service Station
2160 Otis Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	1/5/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.34	0.66
MW-1 (D)	1/5/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	NA	NA
MW-1	4/8/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	4.62	1.38
MW-1	7/20/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5.2	0.8
MW-1	10/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	4.37	1.63
MW-1	1/7/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.26	0.74
MW-1	4/13/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5.01	0.99
MW-1	7/26/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5.38	0.62
MW-1	8/18/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.4	0.6
MW-1	10/11/1994	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.6	0.4
MW-1	1/13/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5.56	0.44
MW-1	4/20/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	4.4	1.6
MW-1	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	4/11/1990	200a	220	2.7	<0.5	0.5	2.4	NA	NA	NA	NA	NA	NA	3.29	4.51	-1.22
MW-2	7/10/1990	570a	450	150	<0.5	0.9	3.1	NA	NA	NA	NA	NA	NA	3.29	4.61	-1.32
MW-2	10/9/1990	190a	51	55	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.74	-1.45
MW-2	1/17/1991	350a	<50	51	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.73	-1.44
MW-2	4/9/1991	NA	<50	21	<5	<5	<5	NA	NA	NA	NA	NA	NA	3.29	4.09	-0.8
MW-2	7/10/1991	50a	<50	8.4	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.66	-1.37
MW-2	10/9/1991	150	NA	22	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.81	-1.52
MW-2	1/24/1992	<50	NA	4.8	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.66	-1.37
MW-2	4/23/1992	<50	NA	2.3	1.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.51	-1.22
MW-2	7/1/1992	130a	NA	19	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.57	-1.28
MW-2	10/2/1992	120a	NA	7.8	<0.5	<0.5	<0.8	NA	NA	NA	NA	NA	NA	3.29	4.8	-1.51
MW-2	1/5/1993	200a	NA	9	<0.5	0.6	1.8	NA	NA	NA	NA	NA	NA	3.29	4.39	-1.1
MW-2	4/8/1993	170a	NA	9.6	<0.5	<0.5	1.6	NA	NA	NA	NA	NA	NA	3.29	4.15	-0.86
MW-2	7/20/1993	80a	NA	16	1.3	1.4	6.1	NA	NA	NA	NA	NA	NA	3.29	4.4	-1.11
MW-2	10/15/1993	400a	NA	37	0.6	1.1	4.7	NA	NA	NA	NA	NA	NA	3.29	5.41	-2.12
MW-2	1/7/1994	86a	NA	12	<0.5	<0.5	1.1	NA	NA	NA	NA	NA	NA	3.29	4.34	-1.05
MW-2	4/13/1994	<50	NA	14	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.29	-1
MW-2	7/26/1994	290	NA	51	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.56	-1.27
MW-2	11/1/1994	<50	NA	3.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.68	-1.39
MW-2	1/13/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	3.48	-0.19
MW-2	4/20/1995	<50	NA	<0.5	<0.5	1	3.6	NA	NA	NA	NA	NA	NA	3.29	3.78	-0.49
MW-2 (D)	4/20/1995	<50	NA	9.9	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	NA	NA
MW-2	5/23/1995	<50	NA	5.8	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	3.87	-0.58

BORING LOG

Client: **Shell Oil Products Company**

Project No: **24-627**

Phase

Task **111**

Boring ID **G-1**

Location **2160 Oaks Drive, Alameda**

Surface Elev. **NA** ft,

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface						0	
			Silty SAND; (SM); brown; loose; damp; 20% silt, 80% fine to medium sand; no plasticity; high estimated permeability.					
			green to black; moist.					
5			wet; fine sand; low plasticity.				5	Water level @ 4 feet
10			black; damp; 15% silt, 85% fine to medium sand with shells.				10	
								Bottom of boring @ 12 feet

Driller **Vironex**

Drilling Started **12/17/97**

Notes: **see site map**

Logged By **Paul Walte**

Drilling Completed **12/17/97**

Water-Bearing Zones **NA**

Grout Type **Portland Type I/II**

BORING LOG

Client: **Shell Oil Products Company**

Boring ID **G-2**

Project No: **24-627**

Phase

Task **111**

Location **2160 Otis Drive, Alameda**

Surface Elev. **NA ft.**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface						0	
			Silty SAND; (SM); brown; loose; damp; 20% silt, 80% medium sand; no plasticity; high estimated permeability.					
			green; wet; 30% silt, 70% fine sand; low plasticity.					
5							5	Water level @ 5 feet
			SILT; (ML); green to brown; soft; damp; 95% silt, 5% fine sand; low to medium plasticity; moderate estimated permeability.					
10			Silty SAND; (SM); green to brown; loose; wet; 30% silt, 70% fine sand; low plasticity; high estimated permeability. black; moist; 20% silt, 80% fine to medium sand with shells.				10	
								Bottom of boring @ 12 feet

Driller **Vironex**

Drilling Started **12/17/97**

Notes: **see site map**

Logged By **Paul Waite**

Drilling Completed **12/17/97**

Water-Bearing Zones **NA**

Grout Type **Portland Type I/II**

BORING LOG

Client: **Shell Oil Products Company**

Boring ID **G-3**

Project No: **24-627**

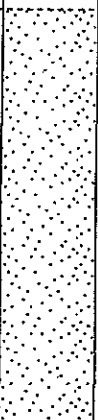
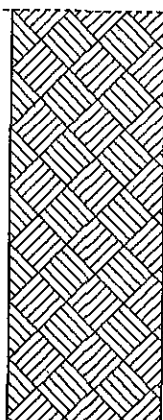
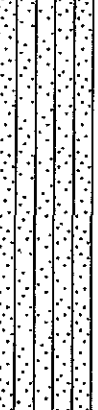
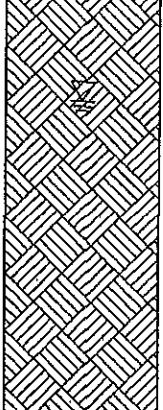
Phase

Task **111**

Location **2160 Otis Drive, Alameda**

Surface Elev. **NA ft,**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface						0	
			SAND: (SP); light brown; loose; damp; 5% silt, 95% fine to medium sand; no plasticity; high estimated permeability.					
			Silty SAND: (SM); light brown; loose; wet; 20% silt, 80% fine to medium sand; no plasticity; high estimated permeability.				5	Water level @ 5 feet
			dark brown; damp.					
			light brown; wet.					
10			black; damp; sand with shells.				10	
								Bottom of boring @ 12 feet

Driller **Vironex**

Drilling Started **12/17/97**

Notes: **see site map**

Logged By **Paul Waite**

Drilling Completed **12/17/97**

Water-Bearing Zones **NA**

Grout Type **Portland Type I/II**

BORING LOG

Client: **Shell Oil Products Company**

Project No: **24-627**

Phase

Task **111**

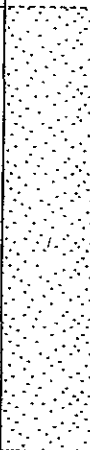
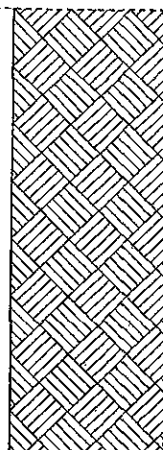
Boring ID

G-4

Location **2160 Otis Drive, Alameda**

Surface Elev. **NA ft,**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface						0	
			SAND; (SP); brown; loose; damp; 10% silt, 90% fine to medium sand; no plasticity; high estimated permeability.					
6							6	Bottom of boring @ 4.3 feet
10							10	

Driller **Vironex**

Drilling Started **12/17/97**

Notes: **see site map**

Logged By **Paul Waite**

Drilling Completed **12/17/97**

Water-Bearing Zones **NA**

Grout Type **Portland Type I/II**

BORING LOG

Client: **Shell Oil Products Company**

Boring ID **G-5**

Project No: **24-627**

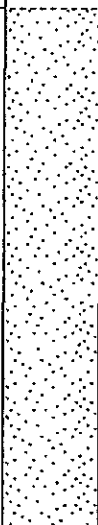
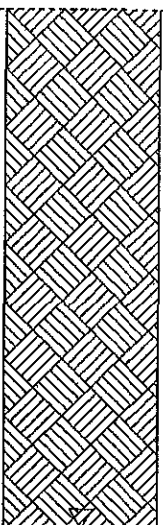
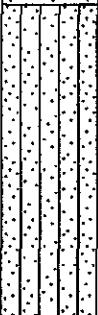
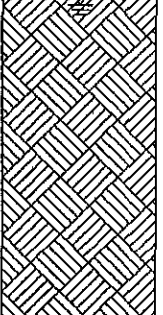
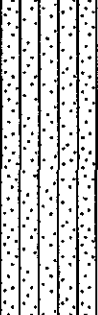
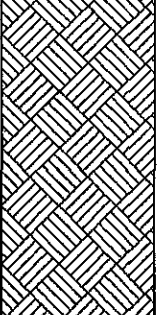
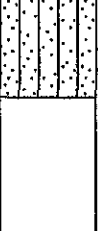
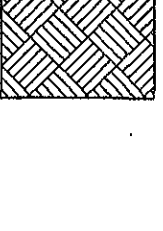
Phase

Task **111**

Location **2160 Otis Drive, Alameda**

Surface Elev. **NA ft,**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface						0	
			SAND ; (SP); brown; loose; damp; 10% silt, 90% fine to medium sand; no plasticity; high estimated permeability.					
5			Silty SAND ; (SM); green; loose; wet; 20% silt, 80% fine sand; low plasticity; high estimated permeability.				5	Water level @ 5 feet
			brown; fine to medium sand; no plasticity.					
10			black; damp.				10	
								Bottom of boring @ 12 feet

Driller Vironex	Drilling Started 12/17/97	Notes: see site map
Logged By Paul Walte	Drilling Completed 12/17/97	
Water-Bearing Zones NA	Grout Type Portland Type I/II	

BORING LOG

Client: **Shell Oil Products Company**

Project No: **24-627**

Phase

Task **111**

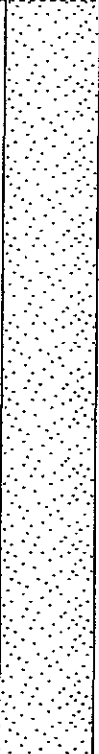
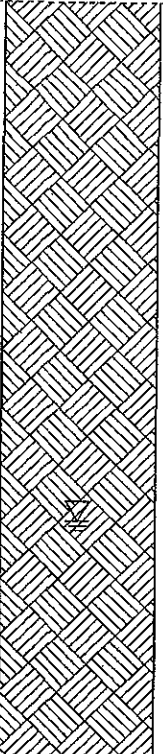


Boring ID

G-6

Location **2160 Otis Drive, Alameda**

Surface Elev. **NA ft.**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface						0	
			SAND; (SP); brown; loose; damp; 10% silt, 90% fine to medium sand; no plasticity; high estimated permeability.					
			green; wet.					
5							5	Water level @ 5 feet
			Silty SAND; (SM); brown; loose; wet; 25% silt, 75% fine sand; low plasticity; high estimated permeability.					
								Bottom of boring @ 8 feet
10							10	

Driller **Vironex**

Drilling Started **12/17/97**

Notes: **see site map**

Logged By **Paul Waite**

Drilling Completed **12/17/97**

Water-Bearing Zones **NA**

Grout Type **Portland Type I/II**

BORING LOG

Client: **Shell Oil Products Compa**

Boring ID **G-7**

Project No: **24-627**


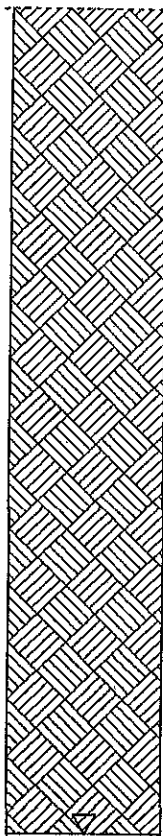
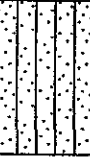
Phase

Task **111**

Location **2160 ... Drive, Alameda**

Surface Elev. **NA ft,**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface						0	
			SAND ; (SP); brown; loose; damp; 10% silt, 90% fine to medium sand; no plasticity; high estimated permeability.					
			green.					
5							5	
			Silty SAND ; (SM); brown; loose; wet; 20% silt, 80% fine sand; low plasticity; high estimated permeability.					
10							10	
								Water level @ 8 feet Bottom of boring @ 8 feet

Driller **Vironex**

Drilling Started **12/17/97**

Notes: **see site map**

Logged By **Paul Walte**

Drilling Completed **12/17/97**

Water-Bearing Zones **NA**

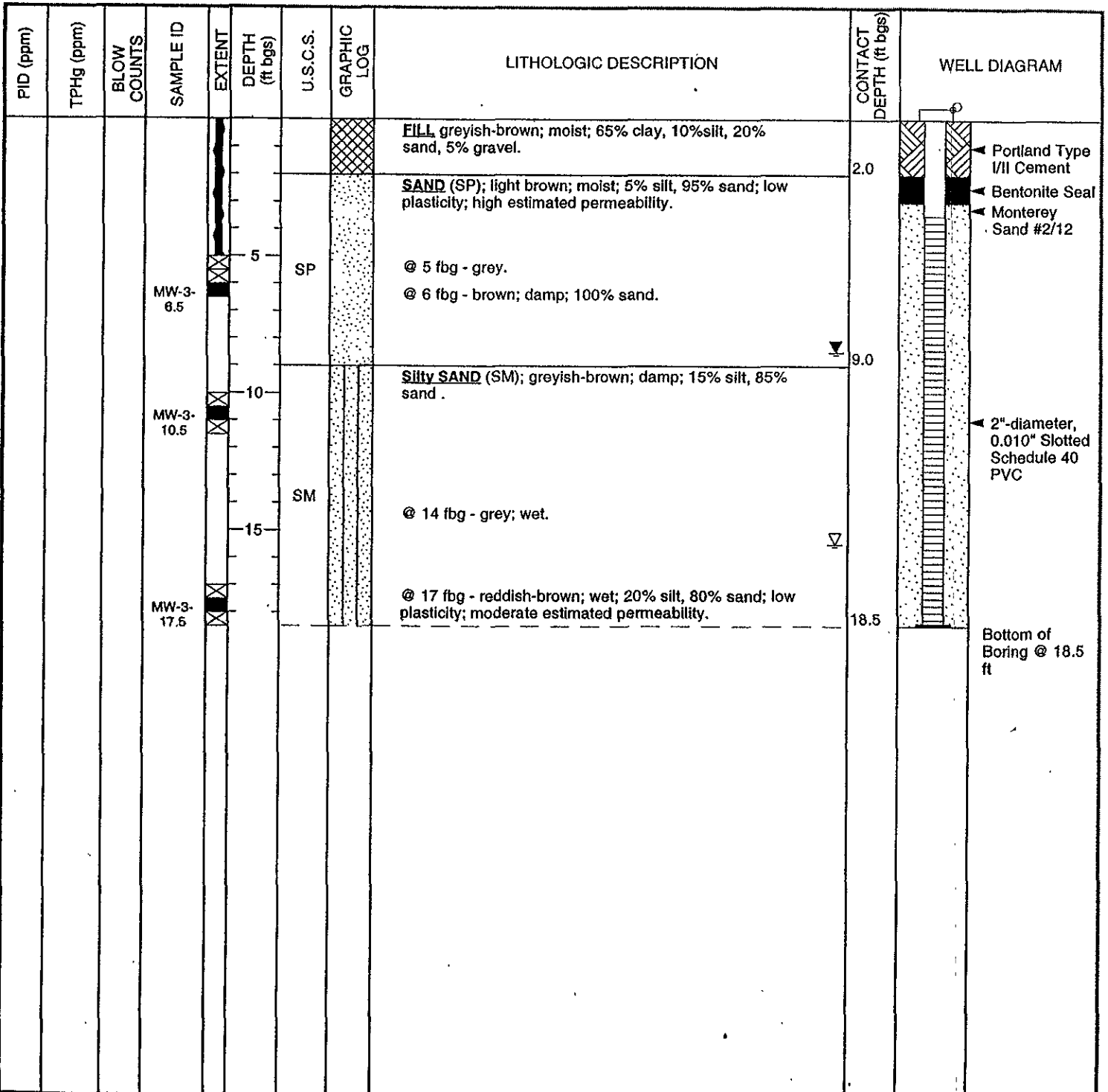
Grout Type **Portland Type I/II**



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	<u>Equiva Services LLC</u>	BORING/WELL NAME	<u>MW-3</u>
JOB/SITE NAME	<u>Office Max</u>	DRILLING STARTED	<u>02-Nov-00</u>
LOCATION	<u>2160 Otis Drive, Alameda, CA</u>	DRILLING COMPLETED	<u>02-Nov-00</u>
PROJECT NUMBER	<u>242-0627</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u> </u>
DRILLING METHOD	<u>Hollow-stem auger</u>	TOP OF CASING ELEVATION	<u>NA</u>
BORING DIAMETER	<u>8"</u>	SCREENED INTERVAL	<u>3.5 to 18.5 ft bgs</u>
LOGGED BY	<u>S. Couch</u>	DEPTH TO WATER (First Encountered)	<u>15.5 ft (02-Nov-00)</u> ▽
REVIEWED BY	<u>S. Bork, RG# 5620</u>	DEPTH TO WATER (Static)	<u>8.5 ft (02-Nov-00)</u> ▽
REMARKS	<u>Hand augered to 5 fbg. Located 71 feet north of the northwest corner of South Shore Center and Otis Drive in the planter, 18 feet</u>		



WELL LOG (PID/TPHG) G:\ALAMEDA\2000\ALAMEDA\2160.GPJ DEFAULT.GDT 12/18/00



CLIENT NAME Equilon Enterprises LLC dba Shell Oil Products US **BORING/WELL NAME** SB-1
JOB/SITE NAME Former Shell Station **DRILLING STARTED** 09-Dec-03
LOCATION 2160 Otis Drive, Alameda, California **DRILLING COMPLETED** 09-Dec-03
PROJECT NUMBER 0627 **WELL DEVELOPMENT DATE (YIELD)** NA
DRILLER Gregg Drilling **GROUND SURFACE ELEVATION** Not Surveyed
DRILLING METHOD Hand auger **TOP OF CASING ELEVATION** Not Surveyed
BORING DIAMETER 3" **SCREENED INTERVAL** NA
LOGGED BY S. Lewis **DEPTH TO WATER (First Encountered)** 5.0 ft (09-Dec-03)
REVIEWED BY A. Friel, RG 6452 **DEPTH TO WATER (Static)** NA

REMARKS

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (ftg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ftg)	WELL DIAGRAM
0		SB-1-5	0 to 5	ML SP		<p>SILT (ML) ; yellowish brown (10YR 5/4); dry; 90% silt, 10% fine sand.</p> <p>Gravelly SAND (SP) ; yellowish brown (10YR 5/4); dry; 85% fine sand, 15% fine gravel.</p> <p>@ 1' - SAND (SP) ; light brownish gray (10YR 6/2); dry; 100% fine sand.</p> <p>@ 3' - greenish gray (10Y 5/1); moist.</p> <p>@ 5' - wet</p>	0.5 7.0	 Soil Portland Type 1/1 Bottom of Boring @ 7 ft



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BORING/WELL LOG



CLIENT NAME Equilon Enterprises LLC dba Shell Oil Products US **US BORING/WELL NAME** SB-2
JOB/SITE NAME Former Shell Station **DRILLING STARTED** 09-Dec-03
LOCATION 2160 Otis Drive, Alameda, California **DRILLING COMPLETED** 09-Dec-03
PROJECT NUMBER 0627 **WELL DEVELOPMENT DATE (YIELD)** NA
DRILLER Gregg Drilling **GROUND SURFACE ELEVATION** Not Surveyed
DRILLING METHOD Hand auger **TOP OF CASING ELEVATION** Not Surveyed
BORING DIAMETER 3" **SCREENED INTERVAL** NA
LOGGED BY S. Lewis **DEPTH TO WATER (First Encountered)** 5.0 ft (09-Dec-03)
REVIEWED BY A. Friel, RG 6452 **DEPTH TO WATER (Static)** NA
REMARKS


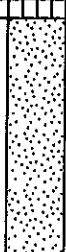

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0		SB-2-5		5	ML SP		<p>SILT (ML) ; light olive brown (2.5Y 5/4); dry; 90% silt, 10% fine sand.</p> <p>SAND (SP) ; light olive brown (2.5Y 5/4); dry; 100% fine sand.</p> <p>@ 3' - greenish gray (10Y 6/1); moist.</p> <p>@ 5' - wet</p>	0.5 7.0	 <p>Soil</p> <p>Portland Type I/II</p> <p>Bottom of Boring @ 7 ft</p>

WELL LOG (PID) I:\ALAMEDA-2\GINT\0627.GPJ DEFAULT.GDT 12/30/03



BORING/WELL LOG

CLIENT NAME Equilon Enterprises LLC dba Shell Oil Products US **BORING/WELL NAME** SB-3
JOB/SITE NAME Former Shell Station **DRILLING STARTED** 09-Dec-03
LOCATION 2180 Otis Drive, Alameda, California **DRILLING COMPLETED** 09-Dec-03
PROJECT NUMBER 0627 **WELL DEVELOPMENT DATE (YIELD)** NA
DRILLER Gregg Drilling **GROUND SURFACE ELEVATION** Not Surveyed
DRILLING METHOD Hand auger **TOP OF CASING ELEVATION** Not Surveyed
BORING DIAMETER 3" **SCREENED INTERVAL** NA
LOGGED BY S. Lewis **DEPTH TO WATER (First Encountered)** 5.0 ft (09-Dec-03) 
REVIEWED BY A. Friel, RG 6452 **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		SB-3-6		ML SP		<p>SILT (ML) ; yellowish brown (10YR 5/4); dry; 90% silt, 10% fine sand.</p> <p>SAND (SP) ; light gray (2.5Y 7/2); dry; 100% fine sand.</p> <p>@ 3' - greenish gray (10Y 5/1); moist.</p> <p>@ 5' - wet</p>	<p>0.5</p> <p>▽</p> <p>7.0</p>	 <p>Soil</p> <p>Portland Type I/II</p> <p>Bottom of Boring @ 7 ft</p>



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BORING/WELL LOG

CLIENT NAME	Equilon Enterprises LLC dba Shell Oil Products US	BORING/WELL NAME	SB-4
JOB/SITE NAME	Former Shell Station	DRILLING STARTED	09-Dec-03
LOCATION	2160 Otis Drive, Alameda, California	DRILLING COMPLETED	09-Dec-03
PROJECT NUMBER	0627	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3"	SCREENED INTERVAL	NA
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	5.0 ft (09-Dec-03)
REVIEWED BY	A. Friel, RG 6452	DEPTH TO WATER (Static)	NA

REMARKS

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ftg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ftg)	WELL DIAGRAM
0		SB-4-5		5	ML SP		<p>SILT (ML) ; yellowish brown (10YR 5/4); dry; 90% silt, 10% fine sand.</p> <p>SAND (SP) ; light gray (2.5Y 7/2); dry; 100% fine sand.</p> <p>@ 3' - greenish gray (10Y 5/1); moist.</p> <p>@ 5' - wet</p>	0.5 ▽ 7.0	 Soil Portland Type I/II Bottom of Boring @ 7 ft



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BORING/WELL LOG

CLIENT NAME Equilon Enterprises LLC dba Shell Oil Products US BORING/WELL NAME SB-5
 JOB/SITE NAME Former Shell Station DRILLING STARTED 09-Dec-03
 LOCATION 2160 Otis Drive, Alameda, California DRILLING COMPLETED 09-Dec-03
 PROJECT NUMBER 0627 WELL DEVELOPMENT DATE (YIELD) NA
 DRILLER Gregg Drilling GROUND SURFACE ELEVATION Not Surveyed
 DRILLING METHOD Hand auger TOP OF CASING ELEVATION Not Surveyed
 BORING DIAMETER 3" SCREENED INTERVAL NA
 LOGGED BY S. Lewis DEPTH TO WATER (First Encountered) 5.0 ft (09-Dec-03)
 REVIEWED BY A. Friel, RG 6452 DEPTH TO WATER (Static) NA

REMARKS

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft)	WELL DIAGRAM
0		SB-5-5		5	ML SP		<p>SILT (ML) ; yellowish brown (10YR 5/4); dry; 90% silt, 10% fine sand.</p> <p>SAND (SP) ; light gray (2.5Y 7/2); dry; 100% fine sand.</p> <p>@ 3' - greenish gray (10Y 5/1); moist.</p> <p>@ 5' - wet</p>	0.5 ▽ 7.0	<p>Soil</p> <p>Portland Type I/II</p> <p>Bottom of Boring @ 7 ft</p>

WELL LOG (PID) : E:\ALAMEDA-21610627.GPJ DEFAULT.GDT 12/30/03