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

November 26, 2013

Marvin Katz
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039
(*Sent via E-mail to: marvin.katz@shell.com*)

Subject: Case Closure for Fuel Leak Case No. RO0000493 and GeoTracker Global ID T0600102121, Shell#13-5692, 610 Market Street, Oakland, CA 94607

Dear Mr. Katz:

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. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (http://geotracker.swrcb.ca.gov) and the Alameda County Environmental Health website (http://www.acgov.org/aceh/index.htm).

SITE INVESTIGATION AND CLEANUP SUMMARY

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

- Total Petroleum Hydrocarbons as gasoline remains in soil at concentrations up to 6,000 ppm at a depth of 15.5 feet below ground surface (bgs).
- Benzene remains in soil at concentrations up to 8.3 ppm at a depth of 10.5 feet bgs.

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

Sincerely,

Donna Drogos, P.E.
Division Chief

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

cc:

Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (*Sent via E-mail to:* lgriffin@oaklandnet.com)

Closure Unit
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120
(uploaded to GeoTracker)

Peter Schaefer
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608 2032
(*Sent via E-mail to: pschaefer@craworld.com*)

Virginia Rawson Trust
1860 Tice Creek Drive, #1353
Walnut Creek, CA 94592
(property owner for APN 1-223-1)

Robert A. Oyster
DARCKK Pearl Investments, LLC
610 Market Street
Oakland, CA 94607

Donna Drogos, ACEH (*Sent via E-mail to: donna.drogos@acgov.org*)
Jerry Wickham, ACEH (*Sent via E-mail to: jerry.wickham@acgov.org*)

GeoTracker (w/enc)
eFile (w/orig enc)

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, 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

November 26, 2013

Marvin Katz
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039
(*Sent via E-mail to: marvin.katz@shell.com*)

Subject: Case Closure for Fuel Leak Case No. RO0000493 and GeoTracker Global ID T0600102121, Shell#13-5692, 610 Market Street, Oakland, CA 94607

Dear Mr. Katz:

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.

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 (h) of Section 25299.37 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Ariu Levi
Director

Alameda County Environmental Health

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

I. AGENCY INFORMATION

Date: August 7, 2013

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: Senior Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Shell #13-5692		
Site Facility Address: 610 Market Street, Oakland, CA 94607		
RB Case No.: 01-2306	Local Case No.: STiD 4017	LOP Case No.: RO0000493
URF Filing Date: 08/14/1995	Geotracker ID: T0600102121	APN: 1-223-5

Responsible Parties	Addresses	Phone Numbers
Denis Brown Shell Oil Products, US	20945 S. Wilmington Avenue Carson, CA 90810-1039	(707) 865-0251

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
----	----	----	----	----
Piping			Removed	August 1995

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. No holes or other signs of failure were observed in the dispensers or piping during replacement in August 1995.		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? Yes	Number: 9	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 9.2 feet bgs	Lowest Depth: 15.6 feet bgs	Flow Direction: Southwest
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: No water supply wells were identified within 2,000 feet of the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: The Oakland Inner Harbor is located approximately 2,500 feet south of the site
Off-Site Beneficial Use Impacts (Addresses/Locations): None identified.	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and Oakland Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	No tanks were removed	----	----
Piping	Not Reported	Not Reported	August 1995
Free Product	----	----	----
Soil	48 cubic yards	Disposal to Laidlaw Environmental Buttonwillow, CA	October 11, 1995
Groundwater	45,421 gallons	Groundwater from periodic mobile extraction was recycled at the Shell Martinez refinery	March 2000 to January 2003
	2,228,010 gallons	Discharged to sanitary sewer under permit	February 2003 to November 2006

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)	6,000	6,000	68,000 [1]	1,200 [1]
TPH (Diesel)	----	----	----	----
Oil and Grease	260	260	Not Analyzed	Not Analayzed
Benzene	8.3	8.3	19,000 [2]	300 [2]
Toluene	180	180	600 [3]	13 [3]
Ethylbenzene	88	88	1,450 [4]	17 [4]
Xylenes	520	520	4,300 [5]	19 [5]
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	400 [6]	400 [6]	Not Analyzed	Not Analyzed
MTBE	16 [7]	16 [7]	610,000 [8]	42 [9]
Other (8240/8270)	ND [10]	ND [10]	Not Analyzed	Not Analyzed

Notes:

[1] Maximum concentration before cleanup is a grab groundwater sample from boring SB-D collected on April 16, 2002; maximum concentration after cleanup is from the groundwater monitoring event on September 14, 2012.

[2] Maximum concentration before cleanup is a grab groundwater sample from boring SB-E collected on April 16, 2002; maximum concentration after cleanup is from the groundwater monitoring event on September 14, 2012.

[3] Maximum concentration before cleanup is a groundwater sample from monitoring well MW-8, collected on December 29, 2004; maximum concentration after cleanup is from the groundwater monitoring event on September 14, 2012.

[4] Maximum concentration before cleanup is a groundwater sample from monitoring well MW-3, collected on March 6, 2001; maximum concentration after cleanup is from the groundwater monitoring event on September 14, 2012.

[5] Maximum concentration before cleanup is a groundwater sample from monitoring well MW-3, collected on December 17, 1998; maximum concentration after cleanup is from the groundwater monitoring event on September 14, 2012.

[6] Lead = 400 ppm; Cadmium = 2.9 ppm; Chromium = 52 ppm; Nickel = 39 ppm; and Zinc = 320 ppm.

[7] MTBE = 16 ppm; TBA; DIPE, ETBE, TAME, EDB, and EDC not analyzed in soil

[8] MTBE = 610,000 ppb (Sample collected from MW-3 on June 28, 2001); TBA = 82,000 ppb, DIPE = 7.9 ppb; TAME, ETBE <2.0 ppm; EDB and EDC not analyzed.

[9] From the groundwater monitoring event on September 14, 2012: MTBE = 42 ppb; TBA = 54,000 ppb; TAME = 1.3 ppb; DIPE and ETBE <2.5 ppb; EDB and EDC not analyzed.

[10] VOCs and SVOCs were not detected at various reporting limits.

Site History and Description of Corrective Actions:

The site is an active retail service station located on the southeastern corner of Market and 7th Streets in Oakland, CA. The service station consists of property parcels APN 1-223-5 and 1-223-1. The underground storage tank system and the unauthorized releases appear to have occurred within APN 1-223-5. Surrounding land use is mixed commercial and residential.

The site is bordered to the east by the Francis Plating site (781-785 7th Street), ACEH Site Cleanup Program case RO0002586. A plume of hexavalent chromium and chlorinated solvents extends southwest from the Francis Plating site. The plume likely extends beneath the southeastern corner of the Shell site. Hexavalent chromium and chlorinated solvents have been detected in an off-site well (MW-9) that is located along 6th Street, immediately southeast of the site. Ownership of the well has been transferred from Shell to the responsible parties of the Francis Plating site for future groundwater sampling. Investigation and cleanup of the hexavalent chromium and chlorinated solvents is being conducted as part of the Francis Plating Site Cleanup Program case, which is ACEH case RO0002586.

In August 1995, gasoline dispensers and piping were replaced or removed. Petroleum hydrocarbons were detected in 11 of 18 confirmation soil samples collected beneath the dispensers and product piping. Total Petroleum Hydrocarbons as gasoline (TPHg) and benzene were detected at concentrations up to 2,700 parts per million (ppm) and 0.7 ppm, respectively. Approximately 33 cubic yards of soil was removed during dispenser upgrades and an additional 15 cubic yards was over-excavated from the southern end of the middle dispenser and piping of the easternmost dispenser islands. Lead was detected in shallow soil at concentrations up to 400 ppm.

In March 1998, three soil borings (S-A through S-C) were advanced on site. Soil sample analysis from the three borings detected up to 1.3 ppm TPHg, 0.063 ppm benzene, and 1.8 ppm MTBE. Grab groundwater samples from the borings detected up to 2,100 parts per billion (ppb) TPHg, 490 ppb benzene, and 14,000 ppb MTBE.

In November 1998, three groundwater monitoring wells (MW-1, MW-2, and MW-3) were installed. TPHg, BTEX, or MTBE were not detected at concentrations above reporting limits in any soil samples collected from well boring MW-1. Soil sample analysis from well borings MW-2 and MW-3 detected up to 1,700 ppm TPHg, 8.3 ppm benzene (10.5 feet bgs), and 16 ppm MTBE.

From March 2000 to January 2003, mobile dual-phase extraction (DPE) and groundwater extraction (GWE) was conducted from wells MW-2, MW-3, and T-1. Approximately 45,421 gallons of water were removed containing an estimated 3.4 pounds of TPHg, 0.087 pounds of benzene, and 71 pounds of MTBE. Vapor extraction removed an estimated 53 pounds of TPHg, 1.5 pounds of benzene, and 43 pounds of MTBE.

A one-day DPE event was performed on well MW-3 and a one-day SVE event was performed on tank backfill well T-1 in March 2001. The cumulative mass removed was an estimated 2.0 pounds of TPHg and 3.3 pounds of MTBE
In October 2001, a 5-day SVE pilot test was performed on tank backfill well T-1. Approximately 16 pounds of TPHg, 1.3 pounds of benzene, and 36 pounds of MTBE were removed during the pilot test.

In April 2002, three soil borings (SB-D through SB-F) were advanced and two monitoring wells (MW-4 and MW-5) were installed. Soil sample analysis from the borings detected up to 6.1 ppm MTBE. TPHg and benzene were not detected at concentrations above reporting limits in the soil samples. Grab groundwater samples from the borings detected up to 68,000 ppb TPHg, 340 ppb benzene, and 19,000 ppb MTBE.

Four additional groundwater monitoring wells (MW-6 through MW-9) were installed in November 2002 and January 2003. Soil sample analysis from the three borings detected up to 6,000 ppm TPHg, 7.4 ppm benzene (15.5 feet bgs), and 10 ppm MTBE.

From February 2003 to November 2006, a GWE system extracted groundwater from wells MW-2, MW-3, MW-6 through MW-8, and tank backfill well T-1. The GWE system extracted 2,228,010 gallons of water containing an estimated 48 pounds of TPHg, 0.38 pounds of benzene, and 140 pounds of MTBE.

Site History and Description of Corrective Actions (continued):

Groundwater monitoring has been conducted since the fourth quarter of 1998. During the groundwater monitoring event on September 14, 2012, the maximum concentrations of TPHg, benzene, and MTBE in groundwater were 1,200, 300 and 42 ppb, respectively. TBA concentrations remain in groundwater from four on-site wells ranging from 3,800 to 54,000 ppb during the September 14, 2012 sampling event. The maximum concentration of TBA in the on-site wells is 54,000 ppb; the maximum off-site concentration is 120 ppb.

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 State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy 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). Lead was detected in shallow soil at concentrations that exceed Environmental Screening Levels (San Francisco Bay Regional Water Quality Control Board, February 2013) for residential and commercial land use. Under the current commercial land use, most of the site is paved with minor landscaped areas near the site boundaries resulting in a low potential for direct exposure under the current land use. Therefore, case closure is granted for the current commercial land use. If a change in land use to any residential or other conservative land use, or if any re-development occurs, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. Due to the potential for direct exposure if the site is redeveloped, ACEH will re-evaluate the case upon receipt of approved development/construction plans. 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 This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.		
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: 9
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: ----		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

EDB and EDC were not analyzed in soil or groundwater.

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

The site meets the groundwater media-specific criteria for closure under the LTCP based on the following:

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 3,000 ppb.
5. The dissolved concentration of MTBE is less than 1,000 ppb.
6. No water supply wells or surface water bodies are within 1,000 feet of the plume boundary.

TBA concentrations within the interior of the site are up to 54,000 ppb. Based on the limited extent of the TBA plume and the distance to potential receptors, the TBA plume appears to pose a low risk to potential receptors. TBA concentrations in groundwater are not one of the conditions directly considered within the LTCP.

Because the site is an active commercial fueling station, the LTCP does not require evaluation of the potential for vapor intrusion to indoor air for the on-site building. Based on the apparent horizontal distance between off-site buildings and the residual contamination and the criteria for consideration of bioattenuation zones described in the LTCP, evaluation of the potential for vapor intrusion to indoor air does not appear to be warranted for the off-site buildings.

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, napthalene concentrations are not likely to exceed the media-specific criteria in Table 1 of the LTCP. Therefore, the site appears to meet the media-specific criteria for direct contact and outdoor air exposure under the LTCP.

Six soil samples collected from beneath the dispensers on August 7, 1995 were analyzed for metals. The concentration of lead in three of the six confirmation soil samples exceeded the Environmental Screening Level (ESL) for residential land use of 80 ppm. The concentration of lead in one of the six confirmation soil samples was 400 ppm, which exceeds the Environmental Screening Level (ESL) for commercial land use of 320 ppm. Under the current commercial land use, most of the site is paved with minor landscaped areas near the site boundaries resulting in a low potential for direct exposure under the current land use. Future risks from direct contact can be mitigated through the use of a land use restriction as described under Site Management Requirements. Therefore, case closure is granted for the current commercial land use.

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. However, as specified in the Site Management Requirements, re-evaluation of this case is required if land uses changes to any residential or other conservative land use.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham, P.G.	Title: Senior Hazardous Materials Specialist
Signature: Jerry Wickham	Date: 8/7/13
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: Donna L. Drogos	Date: 8/7/13

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: 8/7/13	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 8/7/13	Date of Well Decommissioning Report: 11/18/13	
All Monitoring Wells Decommissioned: (Yes) No	Number Decommissioned: 8*	Number Retained: 0
Reason Wells Retained: *Ownership of well MW-9 transferred from Shell to the responsible party of the adjacent Francis Plating Site Cleanup Program site (RO0002586) for future groundwater monitoring.		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: Jerry Wickham		Date: 11/26/13

Attachments:

1. Site Vicinity Map and Aerial Photo (2 pp)
2. Site Plans (2 pp)
3. Groundwater Contour and Chemical Concentration Map (1 p)
4. Soil Analytical Data (4 pp)
5. Groundwater Analytical Data (17 pp)
6. Boring Logs (15 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.

05/01/09

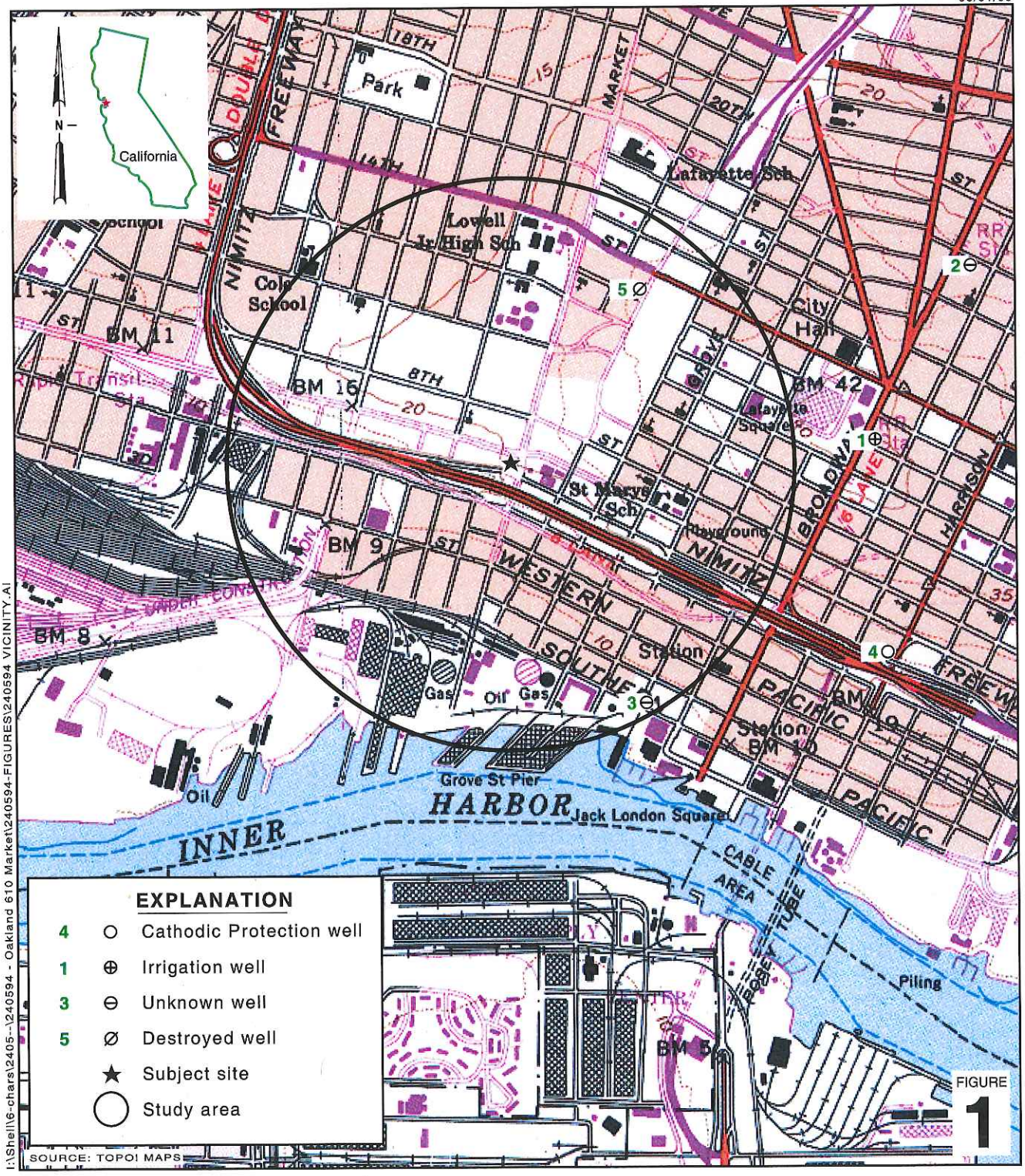

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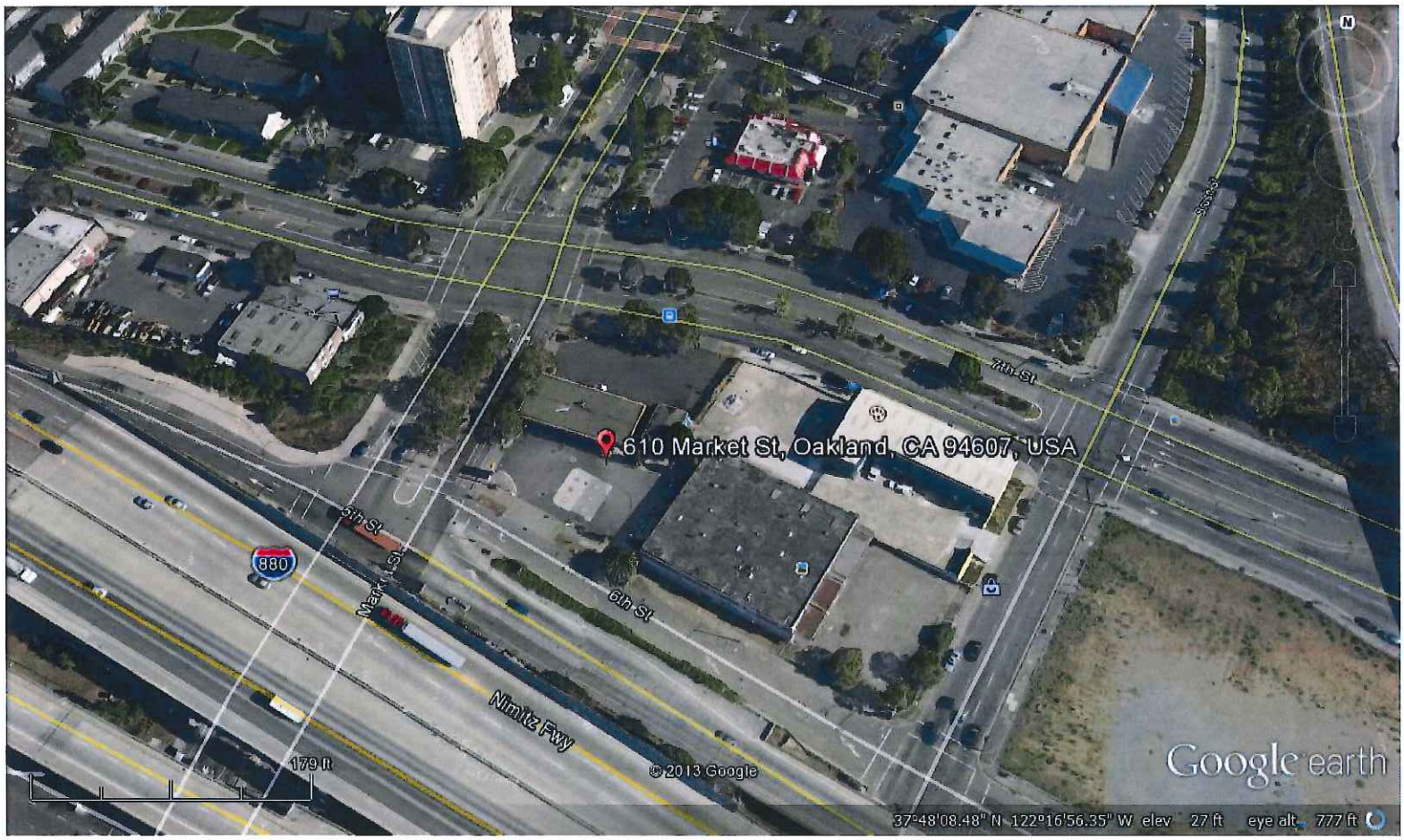
FIGURE 1

Shell-branded Service Station
610 Market Street
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

ATTACHMENT 1


610 Market St, Oakland, CA 94607, USA
7th St
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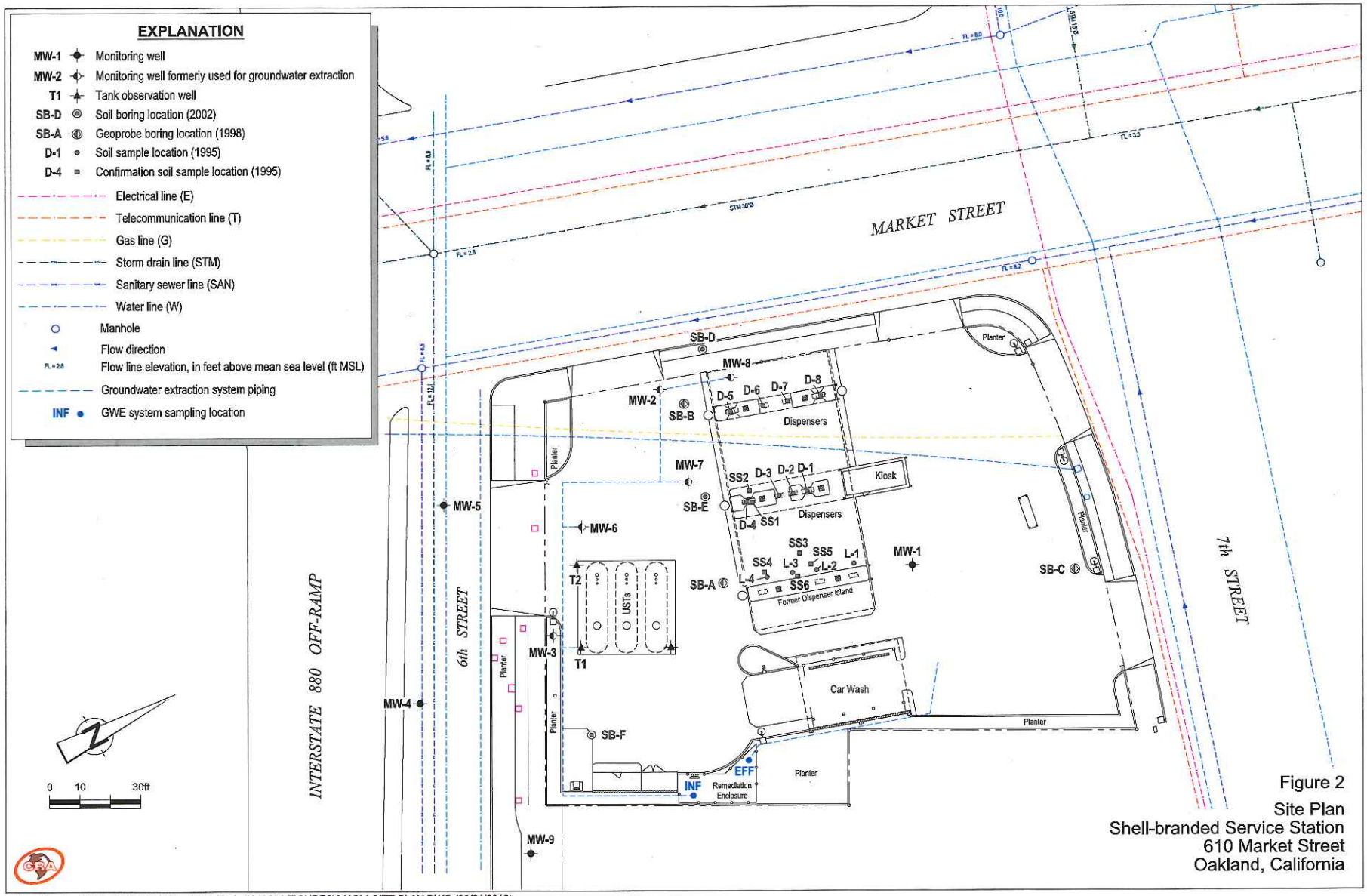

Figure 2
Site Plan
Shell-branded Service Station
610 Market Street
Oakland, California

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ATTACHMENT 2

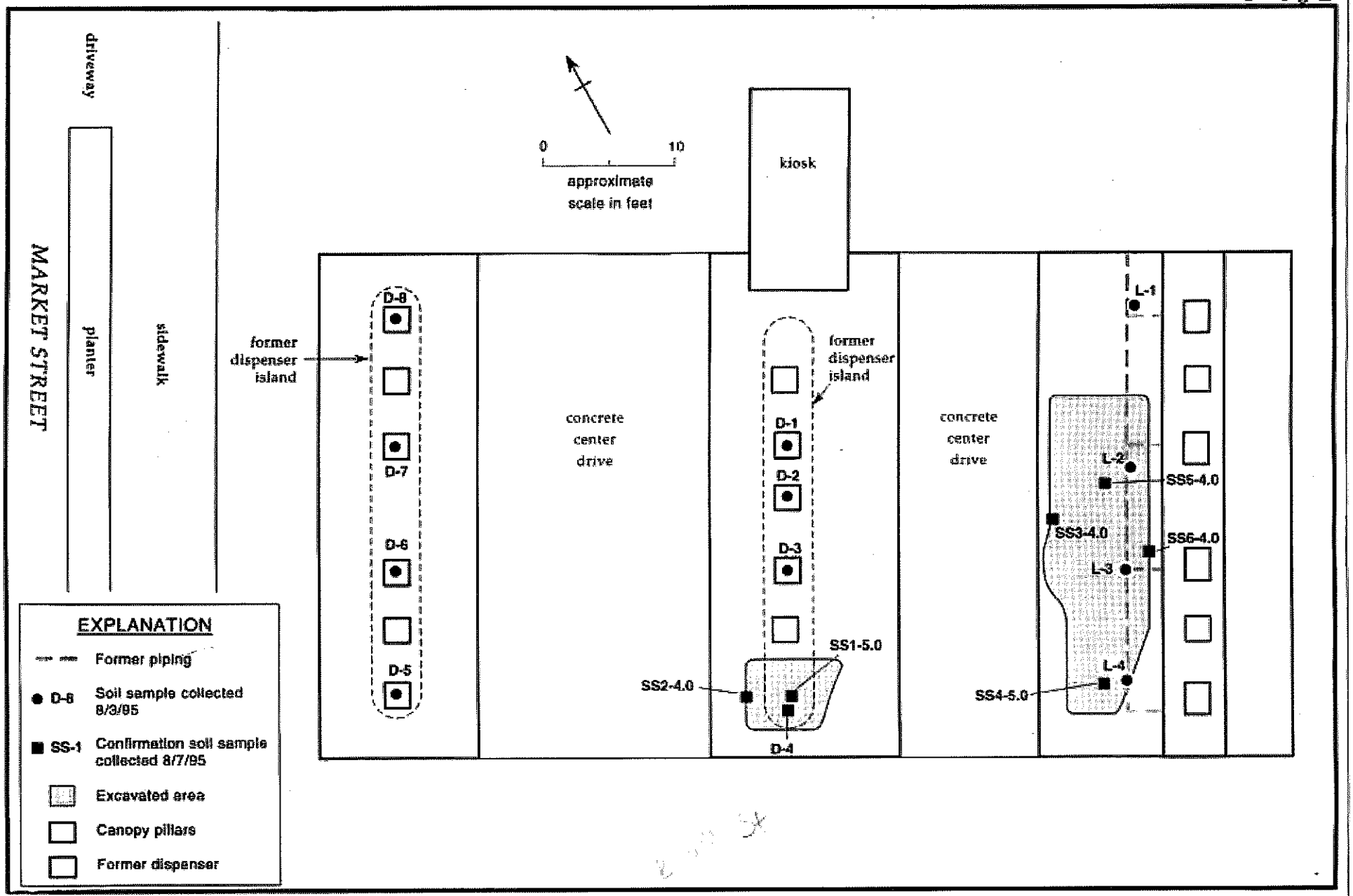
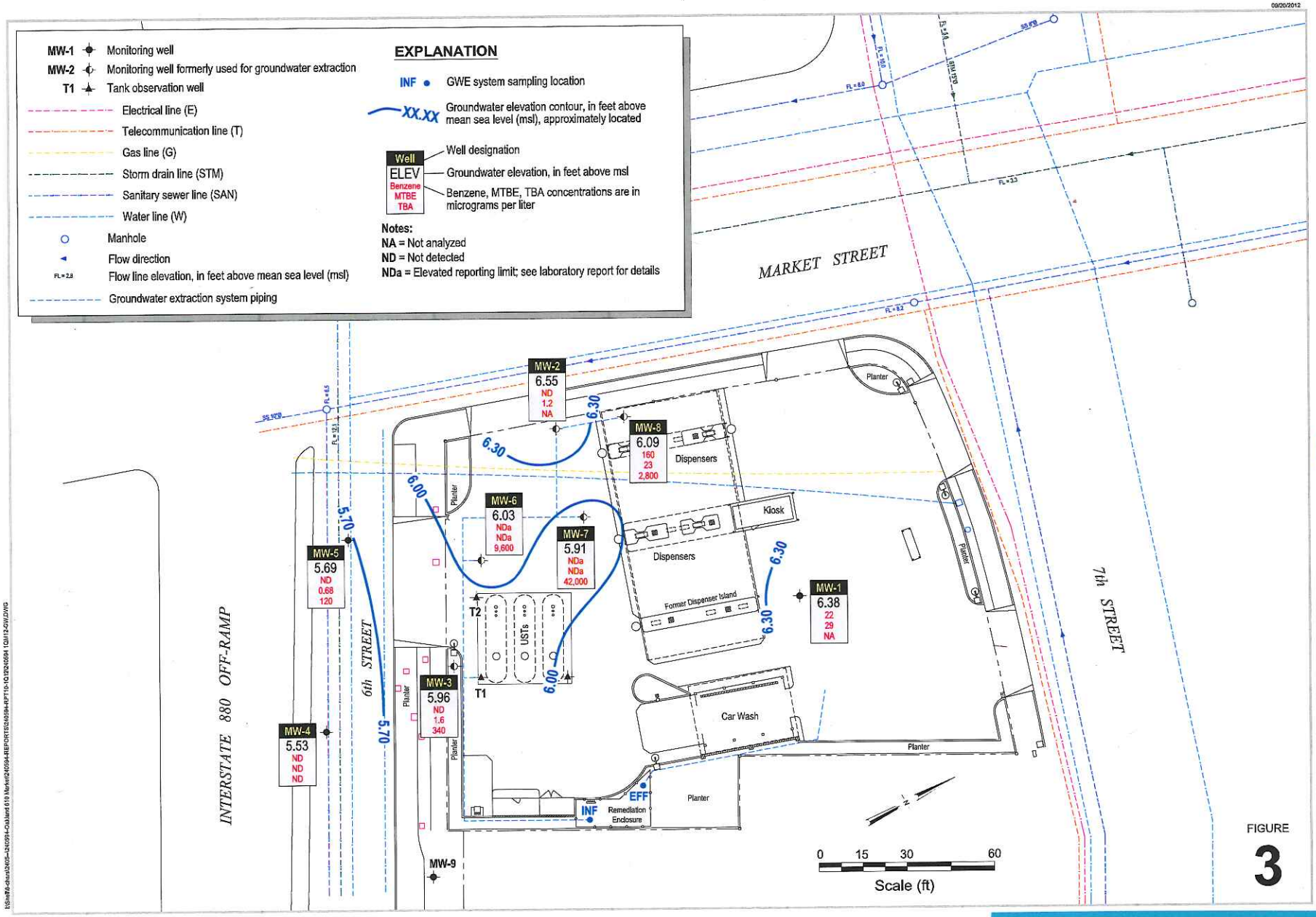


Figure 3. Soil Sample Locations - August 3 and 7, 1995 - Shell Service Station WIC# 204-5508-5702 - 610 Market Street, Oakland, California



Groundwater Contour and Chemical Concentration Map

March 5, 2012

CONESTOGA-ROVERS & ASSOCIATES

Shell-branded Service Station
610 Market Sreet
Oakland, California

FIGURE
3

ATTACHMENT 3

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*POG (mg/kg)*	*TPHg (mg/kg)*	*B (mg/kg)*	*T (mg/kg)*	*E (mg/kg)*	*X (mg/kg)*	*MTBE (mg/kg)*	*VOCs (mg/kg)*	*SVOCs (mg/kg)*	*Cd (mg/kg)*	*Cr (mg/kg)*	*Pb (mg/kg)*	*Ni (mg/kg)*	*Zn (mg/kg)*
D-1	8/3/1995	2.5	---	**2,700**	<5.0	**130**	**46**	**320**	---	---	---	---	---	---	---	---
D-2	8/3/1995	2.5	---	66	<0.050	0.11	0.36	1.9	---	---	---	---	---	---	---	---
D-3	8/3/1995	2.5	---	76	0.70	4.7	0.79	8.7	---	---	---	---	---	---	---	---
D-4	8/3/1995	2.5	---	7.7	<0.010	0.017	0.043	0.082	---	---	---	---	---	---	---	---
D-5	8/3/1995	2.5	---	33	<0.025	0.16	0.10	3.0	---	---	---	---	---	---	---	---
D-6	8/3/1995	2.5	---	**1,400**	<5.0	<5.0	<5.0	4.2	---	---	---	---	---	---	---	---
D-7	8/3/1995	2.5	---	**1,600**	<2.0	<2.0	3.4	**25**	---	---	---	---	---	---	---	---
D-8	8/3/1995	2.5	---	<1.0	<0.005	<0.0072	<0.005	<0.025	---	---	---	---	---	---	---	---
L-1	8/3/1995	2.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---	---
L-2	8/3/1995	2.5	---	2.2	<0.005	0.036	0.0068	0.064	---	---	---	---	---	---	---	---
L-3	8/3/1995	2.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---	---
L-4	8/3/1995	2.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---	---
SS-1	8/7/1995	5	<50	<1.0	<0.005	<0.005	<0.005	<0.005	---	ND	ND	<0.050	52	<5.0	39	26
SS-2	8/7/1995	4	<50	<1.0	<0.005	<0.005	<0.005	<0.005	---	ND	ND	<0.050	36	<5.0	16	11
SS-3	8/7/1995	4	<50	<1.0	<0.005	<0.005	<0.005	<0.005	---	ND	ND	<0.050	36	10	24	31
SS-4	8/7/1995	5	220	2.0	<0.005	0.0057	0.0076	0.019	---	ND	ND	<0.050	34	110	21	110
SS-5	8/7/1995	5	260	10	<0.005	<0.005	0.034	0.086	---	ND	ND	2.9	38	290	25	320
SS-6	8/7/1995	4	170	28	<0.012	<0.012	<0.029	<0.084	---	ND	ND	0.86	35	400	22	260
SB-A-5.0'	3/31/1998	5	---	<1.0	---	---	---	---	---	---	---	---	---	---	---	---
SB-A-10.0'	3/31/1998	10	---	<1.0	---	---	---	---	---	---	---	---	---	---	---	---
SB-A-13.5'	3/31/1998	13.5	---	1.3	0.063	<0.0050	<0.0050	<0.0050	1.8	---	---	---	---	---	---	---
SB-B-5.0'	3/31/1998	5	---	<1.0	---	---	---	---	---	---	---	---	---	---	---	---
SB-B-10.0'	3/31/1998	10	---	<1.0	<0.0050	0.0051	<0.0050	<0.0050	1.3	---	---	---	---	---	---	---
										---	---	---	---	---	---	---
SB-C-5.0'	3/31/1998	5	---	<1.0	---	---	---	---	---	---	---	---	---	---	---	---
SB-C-6.5'	3/31/1998	6.5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---	---	---	---	---	---	---
SB-C-10.0'	3/31/1998	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025							

ATTACHMENT 4

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*POG (mg/kg)*	*TPHg (mg/kg)*	*B (mg/kg)*	*T (mg/kg)*	*E (mg/kg)*	*X (mg/kg)*	*MTBE (mg/kg)*	*VOCs (mg/kg)*	*SVOCs (mg/kg)*	*Cd (mg/kg)*	*Cr (mg/kg)*	*Pb (mg/kg)*	*Ni (mg/kg)*	*Zn (mg/kg)*
										---	---	---	---	---	---	---
MW-1 5.5	11/17/1998	5.5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025							
MW-1 9.5	11/17/1998	9.5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---	---	---	---	---	---	---
										---	---					
MW-2 5.5	11/17/1998	5.5	---	8.3	<0.0050	0.016	0.010	0.14	2.9	---	---	---	---	---	---	---
MW-2 10.5	11/17/1998	10.5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	2.0	---	---	---	---	---	---	---
MW-3 5.5	11/17/1998	5.5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.032							
MW-3 10.5	11/17/1998	10.5	---	**1,700**	**8.3**	**11**	<1.2	**19**	**16**	---	---	---	---	---	---	---
										---	---	---	---	---	---	---
SB-D-5.0	4/16/2002	5	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5							
SB-D-10.0	4/16/2002	10	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
SB-D-11.5	4/16/2002	11.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
SB-E-5.0	4/16/2002	5	---	<5.0	<0.025	<0.025	<0.025	<0.025	6.1	---	---	---	---	---	---	---
SB-E-10.0	4/16/2002	10	---	<1.0	<0.005	<0.005	<0.005	<0.010	2.7	---	---	---	---	---	---	---
SB-E-12.5	4/16/2002	12.5	---	<1.0	<0.005	<0.005	<0.005	<0.010	4.8							
SB-F-5.0	4/16/2002	5	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
SB-F-10.0	4/16/2002	10	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
SB-F-11.2	4/16/2002	11.2	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
MW4-6.5	4/17/2002	6.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
MW-4-9.5	4/17/2002	9.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
MW-4-14.5	4/17/2002	14.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
MW-4-19.0	4/17/2002	19	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
MW-5-6.5	4/17/2002	6.5	---	<1.0	<0.005	<0.005	<0.005	<0.025	<0.5	---	---	---	---	---	---	---
MW-5-9.5	4/17/2002	9.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
MW-5-14.5	4/17/2002	14.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
MW-5-19.5	4/17/2002	19.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	3.0	---	---	---	---	---	---	---

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*POG (mg/kg)*	*TPHg (mg/kg)*	*B (mg/kg)*	*T (mg/kg)*	*E (mg/kg)*	*X (mg/kg)*	*MTBE (mg/kg)*	*VOCs (mg/kg)*	*SVOCs (mg/kg)*	*Cd (mg/kg)*	*Cr (mg/kg)*	*Pb (mg/kg)*	*Ni (mg/kg)*	*Zn (mg/kg)*
MW-5-24.5	4/17/2002	24.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
MW-6-5.5	11/15/2002	5.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
MW-6-10.5	11/15/2002	10.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
MW-6-15.5	11/15/2002	15.5	---	**6,000**	**7.4**	**180**	**88**	**520**	<1.0	---	---	---	---	---	---	---
MW-6-19.0	11/15/2002	19	---	<1.0	0.017	<0.005	<0.005	0.0079	<0.5	---	---	---	---	---	---	---
MW-7-10.5	11/15/2002	10.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	0.7	---	---	---	---	---	---	---
MW-7-15.5	11/15/2002	15.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
MW-7-19.0	11/15/2002	19	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
MW-8-6	11/14/2002	6	---	<1.0	<0.005	<0.005	<0.005	<0.005	4.1	---	---	---	---	---	---	---
MW-8-11	11/14/2002	11	---	<1.0	<0.005	<0.005	<0.005	<0.005	4.3	---	---	---	---	---	---	---
MW-8-16	11/14/2002	16	---	<1.0	<0.005	<0.005	<0.005	<0.005	**10**	---	---	---	---	---	---	---
MW-8-19.5	11/14/2002	19.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
MW-9-5.5	01/28/2003	5.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
MW-9-10.5	01/28/2003	10.5	---	<1.0	<0.005	<0.005	<0.005	<0.025	<0.5	---	---	---	---	---	---	---
MW-9-15.5	01/28/2003	15.5	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
MW-9-19.0	01/28/2003	19	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	---	---	---	---	---	---	---
Shallow Soil (≤10 fbg) ESL [a]:			NA	180	0.27	9.3	4.7	11	8.4	Various	Various	7.4	750	750	150	600
Deep Soil (>10 fbg) ESL [a]:			NA	180	2.0	9.3	4.7	11	8.4	Various	Various	39	5,000	750	260	1,500

Notes:
POG = Non-polar petroleum oil and grease analyzed by EPA Method 5520 E&F
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; before April 16, 2002, analyzed by EPA Method 8015.
Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B; before April 16, 2002, analyzed by EPA Method 8020.
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B; before April 16, 2002, analyzed by EPA Method 8020
VOCs = Volatile organic compounds analyzed by EPA Method 8240
SVOCs = Semi-volatile organic compounds analyzed by EPA Method 8240

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*POG (mg/kg)*	*TPHg (mg/kg)*	*B (mg/kg)*	*T (mg/kg)*	*E (mg/kg)*	*X (mg/kg)*	*MTBE (mg/kg)*	*VOCs (mg/kg)*	*SVOCs (mg/kg)*	*Cd (mg/kg)*	*Cr (mg/kg)*	*Pb (mg/kg)*	*Ni (mg/kg)*	*Zn (mg/kg)*

Cd = Cadmium analyzed by EPA Method 6010
Cr = Chromium analyzed by EPA Method 6010
Pb = Lead analyzed by EPA Method 6010
Ni = Nickel analyzed by EPA Method 6010
Zn = Zinc analyzed by EPA Method 6010
fbg = Feet below grade
mg/kg = Milligrams per kilogram
ND = Not detected; see laboratory report for specific detection limits.
<x = Not detected at reporting limit x
--- = Not analyzed
ESL = Environmental screening level
NA = No applicable ESLs
Results in **bold** equal or exceed applicable ESL
Shading indicates that soil sample location was subsequently excavated; results are not representative of residual soil.

a = San Francisco Bay Regional Water Quality Control Board commercial/industrial ESL for soil where groundwater is not a source of drinking water (Tables B and D of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater* , California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-1	12/17/1998	2,200	20	<10	110	420	<50	—	—	—	—	—	21.70	13.71	7.99
MW-1	03/09/1999	4,320	25.8	<10.0	338	474	<100	—	—	—	—	—	21.70	13.03	8.67
MW-1	06/16/1999	6,150	107	84.0	615	1,050	<250	—	—	—	—	—	21.70	13.82	7.88
MW-1	09/29/1999	3,440	97.3	58.7	433	578	89.1	—	—	—	—	—	21.70	14.45	7.25
MW-1	12/22/1999	1,370	34.5	4.38	196	49	29.3	—	—	—	—	—	21.70	15.39	6.31
MW-1	03/21/2000	2,550	10.3	3.36	164	312	65.6	—	—	—	—	—	21.70	11.94	9.76
MW-1	06/20/2000	4,770	64.3	18.6	387	732	51.3	—	—	—	—	—	21.70	13.15	8.55
MW-1	09/21/2000	7,490	350	229	690	1,490	160	—	—	—	—	—	21.70	13.65	8.05
MW-1	11/30/2000	5,410	420	168	494	1,170	167	—	—	—	—	—	21.70	14.20	7.50
MW-1	03/06/2001	965	25.7	9.14	13.3	9.12	<25.0	—	—	—	—	—	21.70	12.99	8.71
MW-1	06/28/2001	5,900	190	71	360	910	—	110	—	—	—	—	21.70	13.98	7.72
MW-1	09/12/2001	7,400	240	110	460	1,300	—	130	—	—	—	—	21.70	14.15	7.55
MW-1	12/12/2001	1,700	100	30	120	300	—	98	—	—	—	—	21.70	13.75	7.95
MW-1	03/08/2002	1,100	63	12	74	83	—	50	—	—	—	—	21.70	13.22	8.48
MW-1	06/06/2002	2,300	95	31	130	290	—	49	—	—	—	—	21.70	13.57	8.13
MW-1	09/09/2002	3,600	150	44	200	590	—	54	—	—	—	—	21.70	14.05	7.65
MW-1	12/12/2002	2,200	130	14	120	310	—	46	—	—	—	—	21.70	14.20	7.50
MW-1	02/26/2003	580	30	2.9	25	48	—	27	—	—	—	—	21.70	13.57	8.13
MW-1	04/15/2003	—	—	—	—	—	—	—	—	—	—	—	21.70	13.67	8.03
MW-1	06/13/2003	440	18	6.1	33	88	—	24	—	—	—	—	21.70	13.85	7.85
MW-1	09/26/2003	54	3.8	0.51	4.7	7.5	—	11	—	—	—	—	21.70	14.63	7.07
MW-1	11/24/2003	120	5.6	0.87	8.4	20	—	17	—	—	—	—	21.70	14.86	6.84
MW-1	03/01/2004	350	20	3.8	38	100	—	18	—	—	—	—	21.70	12.85	8.85
MW-1	06/15/2004	100	1.8	<0.50	2.6	6.1	—	15	—	—	—	—	21.70	14.27	7.43
MW-1	09/16/2004	200	20	0.75	7.8	16	—	27	<5.0	<2.0	<2.0	<2.0	21.70	14.60	7.10
MW-1	12/29/2004	67	1.8	<0.50	1.8	3.5	—	15	—	—	—	—	21.70	14.27	7.43
MW-1	02/28/2005	60	1.8	<0.50	1.9	3.6	—	22	—	—	—	—	21.70	12.45	9.25
MW-1	03/23/2005	—	—	—	—	—	—	—	—	—	—	—	21.70	12.50	9.20
MW-1	05/18/2005	92	5.3	<0.50	5.4	12	—	9.7	—	—	—	—	21.70	12.22	9.48

ATTACHMENT 5

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-1	08/16/2005	—	—	—	—	—	—	—	—	—	—	—	21.70	13.51	8.19
MW-1	09/15/2005	210	16	<0.50	4.3	19	—	19	320	<2.0	<2.0	<2.0	21.70	14.00	7.70
MW-1	10/26/2005	—	—	—	—	—	—	—	—	—	—	—	21.70	14.30	7.40
MW-1	12/13/2005	<50.0	7.55	2.14	2.39	2.73	—	18.6	—	—	—	—	21.70	14.27	7.43
MW-1	03/08/2006	<50.0	1.95	<0.500	1.29	2.42	—	13.6	—	—	—	—	21.70	12.10	9.60
MW-1	06/27/2006	180	22	1.9	8.0	25	—	34	—	—	—	—	21.70	12.70	9.00
MW-1	09/25/2006	160	16	<0.50	2.1	11	—	23	<10	<1.0	<1.0	<1.0	21.70	14.07	7.63
MW-1	12/21/2006	120	3.2	<0.50	<0.50	<1.0	—	27	—	—	—	—	21.70	14.27	7.43
MW-1	03/20/2007	<50	1.8	<0.50	<0.50	<1.0	—	15	—	—	—	—	21.70	13.61	8.09
MW-1	06/18/2007	98	7.5	0.27 1	0.52 I	1.4	—	19	—	—	—	—	21.70	14.42	7.28
MW-1	08/30/2007	94 n	6.6	<1.0	<1.0	0.82 1	—	19	<10	<2.0	<2.0	<2.0	21.70	14.84	6.86
MW-1	12/28/2007	67 n	4.8	<1.0	<1.0	<1.0	—	23	—	—	—	—	21.70	15.01	6.69
MW-1	03/26/2008	<50	3.7	<1.0	<1.0	<1.0	—	12	—	—	—	—	21.70	14.16	7.54
MW-1	05/29/2008	310	20	1.3	13	39	—	22	—	—	—	—	21.70	14.76	6.94
MW-1	09/25/2008	66	3.8	<1.0	<1.0	<1.0	—	14	<10	<2.0	<2.0	<2.0	21.70	15.31	6.39
MW-1	12/16/2008	<50	2.6	<1.0	<1.0	<1.0	—	17	—	—	—	—	21.70	14.30	7.40
MW-1	02/26/2009	79	5.9	<1.0	<1.0	<1.0	—	20	—	—	—	—	21.70	14.51	7.19
MW-1	05/26/2009	160	15	<1.0	6.2	15	—	28	—	—	—	—	21.70	14.74	6.96
MW-1	09/02/2009	220	28	<1.0	<1.0	22	—	28	<10	<2.0	<2.0	<2.0	21.70	15.61	6.09
MW-1	03/10/2010	99	12	<1.0	<1.0	<1.0	—	27	—	—	—	—	21.70	13.85	7.85
MW-1	08/31/2010	170	23	<1.0	<1.0	18	—	20	13	<2.0	<2.0	<2.0	21.70	15.08	6.62
MW-1	03/08/2011	120	15	0.60	1.2	1.5	—	17	—	—	—	—	21.70	13.35	8.35
MW-1	09/19/2011	290	46	1.4	0.60	14	—	45	<10	<1.0	<1.0	1.8	21.70	14.71	6.99
MW-1	03/05/2012	150	22	0.61	<0.50	1.0	—	29	—	—	—	—	21.70	15.32	6.38
MW-1	09/14/2012	450	72	2.3	1.9	17	—	34	<10	<0.50	<0.50	1.3	21.70	15.15	6.55
MW-2	12/17/1998	<5,000	<50	<50	<50	<50	11,000	—	—	—	—	—	19.61	12.07	7.54
MW-2	03/09/1999	<250	5.20	<2.50	<2.50	<2.50	9,870	—	—	—	—	—	19.61	11.46	8.15
MW-2	06/16/1999	<50.0	0.569	<0.500	<0.500	<0.500	3,440	—	—	—	—	—	19.61	12.26	7.35

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-2	09/29/1999	58.6	2.51	0.978	<0.500	<0.500	3,930	—	—	—	—	—	19.61	12.51	7.10
MW-2	12/22/1999	<2,000	50.4	<20.0	<20.0	<20.0	15,000	—	—	—	—	—	19.61	13.40	6.21
MW-2	03/21/2000	<5,000	94.7	<50.0	<50.0	<50.0	13,900	—	—	—	—	—	19.61	10.36	9.25
MW-2	06/20/2000	101	5.95	<0.500	<0.500	0.552	7,670	—	—	—	—	—	19.61	11.12	8.49
MW-2	09/21/2000	<2,000	<20.0	<20.0	<20.0	<20.0	4,460	—	—	—	—	—	19.61	11.95	7.66
MW-2	11/30/2000	81.1	4.46	0.924	0.841	3.23	3,450	—	—	—	—	—	19.61	12.48	7.13
MW-2	03/06/2001	<500	183	<5.00	<5.00	<5.00	14,000	—	—	—	—	—	19.61	11.10	8.51
MW-2	06/28/2001	<1,000	<10	<10	<10	<10	—	4,200	—	—	—	—	19.61	12.40	7.21
MW-2	09/12/2001	<2,000	120	<20	<20	<20	—	17,000	—	—	—	—	19.61	12.45	7.16
MW-2	12/12/2001	<1,000	<10	<10	<10	<10	—	3,000	—	—	—	—	19.61	12.14	7.47
MW-2	03/08/2002	<250	<2.5	<2.5	<2.5	<2.5	—	1,100	—	—	—	—	19.61	11.68	7.93
MW-2	06/06/2002	<500	<5.0	<5.0	<5.0	<5.0	—	2,000	—	—	—	—	19.61	11.95	7.66
MW-2	09/09/2002	<200	<2.0	<2.0	<2.0	<2.0	—	740	—	—	—	—	19.62	12.38	7.24
MW-2	12/12/2002	<200	<2.0	<2.0	<2.0	<2.0	—	1,000	—	—	—	—	19.62	12.40	7.22
MW-2	02/26/2003	<500	<5.0	<5.0	<5.0	<5.0	—	1,600	—	—	—	—	19.62	12.69	6.93
MW-2	04/15/2003	—	—	—	—	—	—	—	—	—	—	—	19.62	12.81	6.81
MW-2	06/13/2003	<500	<5.0	<5.0	<5.0	<10	—	790	—	—	—	—	19.62	12.65	6.97
MW-2	09/26/2003	<250	<2.5	<2.5	<2.5	<5.0	—	250	—	—	—	—	18.20	12.95	5.25
MW-2	11/24/2003	<50	<0.50	<0.50	<0.50	<1.0	—	87	—	—	—	—	18.20	12.89	5.31
MW-2	03/01/2004	<50	<0.50	<0.50	<0.50	<1.0	—	35	—	—	—	—	18.20	10.08	8.12
MW-2	06/15/2004	66 b	<0.50	<0.50	<0.50	<1.0	—	110	—	—	—	—	18.20	12.85	5.35
MW-2	09/16/2004	<50	<0.50	<0.50	<0.50	<1.0	—	26	<5.0	<2.0	<2.0	<2.0	18.20	12.00	6.20
MW-2	12/29/2004	<50	<0.50	0.73	<0.50	<1.0	—	43	—	—	—	—	18.20	11.60	6.60
MW-2	02/28/2005	—	—	—	—	—	—	—	—	—	—	—	18.20	9.71	8.49
MW-2	03/23/2005	340 f	3.9	<2.0	<2.0	<4.0	—	370	—	—	—	—	18.20	10.10	8.10
MW-2	05/18/2005	<100	4.6	<1.0	<1.0	3.3	—	160	—	—	—	—	18.20	10.21	7.99
MW-2	08/16/2005	—	—	—	—	—	—	—	—	—	—	—	18.20	10.53	7.67
MW-2	09/15/2005	<50	<0.50	<0.50	<0.50	<1.0	—	11	520	<2.0	<2.0	<2.0	18.20	11.98	6.22
MW-2	10/26/2005	—	—	—	—	—	—	—	—	—	—	—	18.20	11.38	6.82

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-2	12/13/2005	<50.0	<0.500	1.66	<0.500	<0.500	—	2.11	—	—	—	—	18.20	10.71	7.49
MW-2	03/08/2006	<50.0	<0.500	<0.500	<0.500	<0.500	—	<0.500	—	—	—	—	18.20	9.50	8.70
MW-2	06/27/2006	<100 i	<1.0 i	<1.0 i	<1.0 i	<1.0 i	—	9.1 i	—	—	—	—	18.20	9.73	8.47
MW-2	09/25/2006	83 j	<2.5	<2.5	<2.5	<5.0	—	<5.0	4,500	<5.0	<5.0	<5.0	18.20	11.08	7.12
MW-2	12/21/2006	160	<0.50	<0.50	<0.50	<1.0	—	1.6	—	—	—	—	18.20	11.30	6.90
MW-2	03/20/2007	<50	0.98	<0.50	<0.50	<1.0	—	18	—	—	—	—	18.20	10.76	7.44
MW-2	06/18/2007	86 m	<0.50	<1.0	<1.0	<1.0	—	2.4	—	—	—	—	18.20	11.35	6.85
MW-2	08/30/2007	110 n	<0.50	<1.0	<1.0	<1.0	—	2.2	2,700	6.3	0.30 l	<2.0	18.20	11.80	6.40
MW-2	12/28/2007	<50 n	<2.5	<5.0	<5.0	<5.0	—	2.1 l	—	—	—	—	18.20	11.69	6.51
MW-2	03/26/2008	<50	<0.50	<1.0	<1.0	<1.0	—	<1.0	—	—	—	—	18.20	11.23	6.97
MW-2	05/29/2008	130	<0.50	<1.0	<1.0	<1.0	—	3.0	—	—	—	—	18.20	11.83	6.37
MW-2	09/25/2008	380	<0.50	<1.0	<1.0	<1.0	—	3.7	4,200	7.9	<2.0	<2.0	18.20	13.21	4.99
MW-2	12/16/2008	220	<1.0	<2.0	<2.0	<2.0	—	2.1	—	—	—	—	18.20	12.40	5.80
MW-2	02/26/2009	<50	<0.50	<1.0	<1.0	<1.0	—	1.9	—	—	—	—	18.20	10.56	7.64
MW-2	05/26/2009	140	<0.50	<1.0	<1.0	<1.0	—	2.6	—	—	—	—	18.20	11.03	7.17
MW-2	09/02/2009	270	<0.50	<1.0	<1.0	<1.0	—	2.2	4,600	4.9	<2.0	<2.0	18.20	12.01	6.19
MW-2	03/10/2010	<50	<0.50	<1.0	<1.0	<1.0	—	37	—	—	—	—	18.20	9.96	8.24
MW-2	08/31/2010	110	<0.50	<1.0	<1.0	<1.0	—	6.2	3,300	2.8	<2.0	<2.0	18.20	11.30	6.90
MW-2	03/08/2011	<50	0.66	<0.50	<0.50	<1.0	—	28	—	—	—	—	18.20	9.86	8.34
MW-2	09/19/2011	<250	<5.0 o	<5.0 o	<5.0 o	<10 o	—	15 o	5,700 o	<10 o	<10 o	<10 o	18.20	11.22	6.98
MW-2	03/05/2012	100	<0.50	<0.50	<0.50	<1.0	—	1.2	—	—	—	—	18.20	11.65	6.55
MW-2	09/14/2012	<250	<2.5	<2.5	<2.5	<5.0	—	5.9	7,900	<2.5	<2.5	<2.5	18.20	10.90	7.30
MW-3	12/17/1998	30,000	890	110	2,100	4,300	42,000	43,000	—	—	—	—	19.05	11.65	7.40
MW-3	03/09/1999	22,700	536	<200	1,030	1,510	35,400	38,500	—	—	—	—	19.05	11.03	8.02
MW-3	06/16/1999	19,300	625	129	805	1,210	42,400	51,600	—	—	—	—	19.05	11.89	7.16
MW-3	09/29/1999	20,200	727	155	1,000	1,180	84,100	136,000 a	—	—	—	—	19.05	12.35	6.70
MW-3	12/22/1999	44,500	767	64.4	1,810	2,090	191,000	186,000 a	—	—	—	—	19.05	13.45	5.60
MW-3	03/21/2000	<25,000	466	<250	727	2,280	126,000	155,000	—	—	—	—	19.05	10.00	9.05

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-3	06/20/2000	16,200	1,140	98.8	1,140	1,410	579,000	376,000 a	—	—	—	—	19.05	11.15	7.90
MW-3	09/21/2000	<50,000	712	<500	520	795	293,000	298,000	—	—	—	—	19.05	11.58	7.47
MW-3	11/30/2000	18,000	1,050	124	1,120	2,010	543,000 a	403,000 a	—	—	—	—	19.05	12.10	6.95
MW-3	03/06/2001	19,900	1,290	115	1,450	1,760	706,000	149,000	—	—	—	—	19.05	11.00	8.05
MW-3	06/28/2001	<50,000	1,200	<250	1,100	1,300	—	610,000	—	—	—	—	19.05	11.96	7.09
MW-3	09/12/2001	<20,000	430	<200	230	480	—	390,000	—	—	—	—	19.05	12.05	7.00
MW-3	10/23/2001	11,000	350	<100	210	440	—	290,000	—	—	—	—	19.05	12.62	6.43
MW-3	12/12/2001	<20,000	280	<200	<200	<200	—	160,000	—	—	—	—	19.05	11.83	7.22
MW-3	03/08/2002	<20,000	270	<200	<200	<200	—	340,000	—	—	—	—	19.05	11.26	7.79
MW-3	06/06/2002	<50,000	290	<250	<250	<250	—	290,000	—	—	—	—	19.05	11.50	7.55
MW-3	09/09/2002	<20,000	<200	<200	<200	<200	—	230,000	—	—	—	—	19.06	11.92	7.14
MW-3	12/12/2002	<50,000	<200	<200	<200	<500	—	190,000	—	—	—	—	19.06	10.95	8.11
MW-3	02/26/2003	<25,000	<250	<250	<250	<250	—	210,000	—	—	—	—	19.06	15.01	4.05
MW-3	04/15/2003	—	—	—	—	—	—	—	—	—	—	—	19.06	15.12	3.94
MW-3	06/13/2003	<25,000	<250	<250	<250	<500	—	27,000	—	—	—	—	19.06	15.25	3.81
MW-3	09/26/2003	<10,000	<100	<100	<100	<200	—	15,000	—	—	—	—	18.08	c	—
MW-3	11/24/2003	<10,000	<100	<100	<100	<200	—	9,900	—	—	—	—	18.08	15.13	2.95
MW-3	03/01/2004	<10,000	<100	<100	<100	<200	—	8,000	—	—	—	—	18.08	9.97	8.11
MW-3	06/15/2004	<10,000	<100	<100	<100	<200	—	6,900	—	—	—	—	18.08	15.05	3.03
MW-3	09/16/2004	<500	<5.0	<5.0	<5.0	<10	—	1,000	75	<20	<20	<20	18.08	14.70	3.38
MW-3	12/29/2004	<250	2.8	<2.5	<2.5	<5.0	—	580	—	—	—	—	18.08	14.83	3.25
MW-3	02/28/2005	—	—	—	—	—	—	—	—	—	—	—	18.08	9.60	8.48
MW-3	03/23/2005	<1,000	<10	<10	<10	<20	—	1500	—	—	—	—	18.08	12.68	5.40
MW-3	05/18/2005	1200	49	<10	47	<20	—	3400	—	—	—	—	18.08	10.60	7.48
MW-3	08/16/2005	—	—	—	—	—	—	330	—	—	—	—	18.08	15.22	2.86
MW-3	09/15/2005	<1,000	<10	<10	<10	<20	—	140	180	<40	<40	<40	18.08	15.30	2.78
MW-3	10/26/2005	—	—	—	—	—	—	48	—	—	—	—	18.08	15.00	3.08
MW-3	12/13/2005	482	4.56	1.64 h	<0.500	<0.500	—	72.5	273	—	—	—	18.08	11.18	6.90
MW-3	03/08/2006	627	2.62	<0.500	1.71	1.25	—	175	483	—	—	—	18.08	14.95	3.13

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-3	06/27/2006	530	8.3	<2.5	9.5	3.5	—	100	—	—	—	—	18.08	14.63	3.45
MW-3	09/25/2006	520	12	<2.5	6.5	<5.0	—	110	2,900	<5.0	<5.0	<5.0	18.08	11.23	6.85
MW-3	12/21/2006	120	2.2	<0.50	<0.50	<1.0	—	1.7	120	—	—	—	18.08	11.22	6.86
MW-3	03/20/2007	150	0.96	1.2	<0.50	<1.0	—	19	300	—	—	—	18.08	11.35	6.73
MW-3	06/18/2007	180	2.2	<1.0	<1.0	<1.0	—	14	780	—	—	—	18.08	11.22	6.86
MW-3	08/30/2007	200 n	3.5	<1.0	<1.0	0.29 l	—	29	1,500	<2.0	<2.0	<2.0	18.08	13.59	4.49
MW-3	12/28/2007	140 n	2.7	0.34 l	<1.0	<1.0	—	<1.0	98	—	—	—	18.08	11.79	6.29
MW-3	03/26/2008	120	1.3	1.6	<1.0	<1.0	—	3.4	150	—	—	—	18.08	11.05	7.03
MW-3	05/29/2008	130	2.4	<1.0	<1.0	<1.0	—	6.0	250	—	—	—	18.08	11.69	6.39
MW-3	09/25/2008	410	9.3	<1.0	<1.0	<1.0	—	13	1,200	<2.0	<2.0	<2.0	18.08	12.00	6.08
MW-3	12/16/2008	410	14	<1.0	<1.0	<1.0	—	5.5	560	—	—	—	18.08	11.71	6.37
MW-3	02/26/2009	640	3.1	<1.0	<1.0	<1.0	—	1.3	10	—	—	—	18.08	10.71	7.37
MW-3	05/26/2009	250	1.8	<1.0	<1.0	<1.0	—	2.2	59	—	—	—	18.08	11.53	6.55
MW-3	09/02/2009	260	5.3	<1.0	<1.0	<1.0	—	7.0	350	<2.0	<2.0	<2.0	18.08	12.34	5.74
MW-3	03/10/2010	89	<0.50	<1.0	<1.0	1.0	—	<1.0	<10	—	—	—	18.08	10.29	7.79
MW-3	08/31/2010	81	1.1	<1.0	<1.0	<1.0	—	5.5	230	<2.0	<2.0	<2.0	18.08	11.80	6.28
MW-3	03/08/2011	<50	<0.50	<0.50	<0.50	<1.0	—	<1.0	<10	—	—	—	18.08	10.37	7.71
MW-3	09/19/2011	100	<0.50	<0.50	<0.50	<1.0	—	6.4	490	<1.0	<1.0	<1.0	18.08	11.51	6.57
MW-3	03/05/2012	64	<0.50	<0.50	<0.50	<1.0	—	1.6	340	—	—	—	18.08	12.12	5.96
MW-3	09/14/2012	110	<0.50	<0.50	<0.50	<1.0	—	2.4	370	<0.50	<0.50	<0.50	18.08	11.80	6.28
MW-4	05/13/2002	—	—	—	—	—	—	—	—	—	—	—	—	10.64	—
MW-4	05/20/2002	<1,000	<10	<10	<10	<10	—	4,600	—	—	—	—	—	10.64	—
MW-4	06/06/2002	<1,000	<10	<10	<10	<10	—	4,800	—	—	—	—	—	10.61	—
MW-4	09/09/2002	Unable to sample		—	—	—	—	—	—	—	—	—	18.03	11.07	6.96
MW-4	09/18/2002	<250	<2.5	<2.5	<2.5	<2.5	—	1,000	—	—	—	—	18.03	11.15	6.88
MW-4	12/12/2002	<100	<1.0	<1.0	<1.0	<1.0	—	370	—	—	—	—	18.03	11.13	6.90
MW-4	02/26/2003	<50	<0.50	<0.50	<0.50	<0.50	—	<5.0	—	—	—	—	18.03	10.61	7.42
MW-4	04/15/2003	—	—	—	—	—	—	—	—	—	—	—	18.03	10.73	7.30

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-4	06/13/2003	180 b	<0.50	110	<0.50	<1.0	—	2.3	—	—	—	—	18.03	10.88	7.15
MW-4	09/26/2003	<5,000	<50	<50	<50	<100	—	13,000	—	—	—	—	18.03	11.58	6.45
MW-4	11/24/2003	<13,000	<130	<130	<130	<250	—	11,000	—	—	—	—	18.03	11.78	6.25
MW-4	03/01/2004	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	18.03	9.47	8.56
MW-4	06/15/2004	<500	<5.0	<5.0	<5.0	<10	—	630	—	—	—	—	18.03	11.38	6.65
MW-4	09/16/2004	<100	<1.0	12	<1.0	<2.0	—	280	280	<4.0	<4.0	<4.0	18.03	11.80	6.23
MW-4	12/29/2004	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	18.03	10.63	7.40
MW-4	02/28/2005	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	18.03	9.20	8.83
MW-4	03/23/2005	—	—	—	—	—	—	—	—	—	—	—	18.03	9.43	8.60
MW-4	05/18/2005	1,900	<5.0	<5.0	16	97	—	910	—	—	—	—	18.03	9.75	8.28
MW-4	08/16/2005	—	—	—	—	—	—	—	—	—	—	—	18.03	10.85	7.18
MW-4	09/15/2005	<2,500	<25	<25	<25	85	—	5,100	400	<100	<100	<100	18.03	11.30	6.73
MW-4	10/26/2005	—	—	—	—	—	—	—	—	—	—	—	18.03	11.45	6.58
MW-4	12/13/2005	3,480	<0.500	1.54 h	<0.500	<0.500	—	2,490 a	201	—	—	—	18.03	11.70	6.33
MW-4	03/08/2006	1,560	<0.500	0.910	<0.500	3.39	—	0.870	<10.0	—	—	—	18.03	9.25	8.78
MW-4	06/27/2006	75	<0.50	18	<0.50	<0.50	—	63	<20	—	—	—	18.03	10.12	7.91
MW-4	09/25/2006	670 j	<10	<10	<10	<20	—	1,400	430	<20	<20	<20	18.03	11.23	6.80
MW-4	12/21/2006	<50	<0.50	<0.50	<0.50	<1.0	—	2.0	6.8	—	—	—	18.03	10.37	7.66
MW-4	03/20/2007	<50	<0.50	<0.50	<0.50	<1.0	—	<1.0	<10	—	—	—	18.03	9.84	8.19
MW-4	06/18/2007	<50	<0.50	<1.0	<1.0	<1.0	—	<1.0	7.1 l	—	—	—	18.03	10.62	7.41
MW-4	08/30/2007	<50 n	<0.50	<1.0	<1.0	<1.0	—	<1.0	<10	<2.0	<2.0	<2.0	18.03	11.93	6.10
MW-4	12/28/2007	160 n,m	<0.50	130	<1.0	<1.0	—	<1.0	<10	—	—	—	18.03	11.97	6.06
MW-4	03/26/2008	<50	<0.50	<1.0	<1.0	<1.0	—	<1.0	<10	—	—	—	18.03	11.34	6.69
MW-4	05/29/2008	<50	<0.50	<1.0	<1.0	<1.0	—	3.4	<10	—	—	—	18.03	11.87	6.16
MW-4	09/25/2008	<50	<0.50	1.3	<1.0	<1.0	—	4.5	<10	<2.0	<2.0	<2.0	18.03	12.35	5.68
MW-4	12/16/2008	630	<0.50	360	<1.0	<1.0	—	<1.0	<10	—	—	—	18.03	12.47	5.56
MW-4	02/26/2009	<50	<0.50	<1.0	<1.0	<1.0	—	<1.0	<10	—	—	—	18.03	10.29	7.74
MW-4	05/26/2009	<50	<0.50	3.6	<1.0	<1.0	—	<1.0	<10	—	—	—	18.03	11.74	6.29
MW-4	09/02/2009	<50	<0.50	<1.0	<1.0	<1.0	—	5.9	<10	<2.0	<2.0	<2.0	18.03	12.60	5.43

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-4	03/10/2010	<50	<0.50	1.6	<1.0	<1.0	—	<1.0	<10	—	—	—	18.03	9.95	8.08
MW-4	08/31/2010	400	<0.50	<1.0	<1.0	<1.0	—	1.1	30	<2.0	<2.0	<2.0	18.03	12.12	5.91
MW-4	03/08/2011	73 j	<0.50	44	<0.50	<1.0	—	<1.0	<10	—	—	—	18.03	10.66	7.37
MW-4	09/19/2011	<50	<0.50	<0.50	<0.50	<1.0	—	<1.0	<10	<1.0	<1.0	<1.0	18.03	11.71	6.32
MW-4	03/05/2012	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	<10	—	—	—	18.03	12.50	5.53
MW-4	09/14/2012	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	<10	<0.50	<0.50	<0.50	18.03	12.05	5.98
MW-5	05/13/2002	—	—	—	—	—	—	—	—	—	—	—	—	10.40	—
MW-5	05/20/2002	<2,500	<25	<25	<25	<25	—	17,000	—	—	—	—	—	10.41	—
MW-5	06/06/2002	<5,000	<50	<50	<50	<50	—	15,000	—	—	—	—	—	10.36	—
MW-5	09/09/2002	Unable to sample		—	—	—	—	—	—	—	—	—	17.78	10.82	6.96
MW-5	09/18/2002	<2,500	<25	<25	<25	<25	—	16,000	—	—	—	—	17.78	10.81	6.97
MW-5	12/12/2002	<2,500	<25	<25	<25	<25	—	13,000	—	—	—	—	17.78	10.83	6.95
MW-5	02/26/2003	<2,000	<20	<20	<20	<20	—	7,500	—	—	—	—	17.78	10.57	7.21
MW-5	04/15/2003	—	—	—	—	—	—	—	—	—	—	—	17.78	10.69	7.09
MW-5	06/13/2003	<2,500	<25	<25	<25	<50	—	4,400	—	—	—	—	17.78	10.82	6.96
MW-5	09/26/2003	<2,500	<25	<25	<25	<50	—	4,700	—	—	—	—	17.78	11.49	6.29
MW-5	11/24/2003	<10,000	<100	<100	<100	<200	—	7,100	—	—	—	—	17.78	11.70	6.08
MW-5	03/01/2004	<2,000	<20	<20	<20	<40	—	2,800	—	—	—	—	17.78	9.68	8.10
MW-5	06/15/2004	<2,000	<20	<20	<20	<40	—	2,100	—	—	—	—	17.78	11.28	6.50
MW-5	09/16/2004	<2,000	<20	<20	<20	<40	—	2,200	2,800	<80	<80	<80	17.78	11.62	6.16
MW-5	12/29/2004	<2,000	<20	<20	<20	<40	—	3,700	—	—	—	—	17.78	11.11	6.67
MW-5	02/28/2005	<200	<2.0	<2.0	<2.0	<4.0	—	740	—	—	—	—	17.78	9.50	8.28
MW-5	03/23/2005	—	—	—	—	—	—	—	—	—	—	—	17.78	9.70	8.08
MW-5	05/18/2005	<50 g	<0.50	<0.50	<0.50	<1.0	—	180	—	—	—	—	17.78	9.49	8.29
MW-5	06/17/2005	—	—	—	—	—	—	270	—	—	—	—	17.78	9.89	7.89
MW-5	07/15/2005	—	—	—	—	—	—	350	—	—	—	—	17.78	10.20	7.58
MW-5	08/16/2005	—	—	—	—	—	—	270	—	—	—	—	17.78	10.50	7.28
MW-5	09/15/2005	<250	<2.5	<2.5	<2.5	<5.0	—	500	670	<10	<10	<10	17.78	10.96	6.82

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	*Date*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*
MW-5	10/26/2005	—	—	—	—	—	—	260	—	—	—	—	17.78	11.22	6.56
MW-5	12/13/2005	438	<0.500	1.49 h	<0.500	<0.500	—	167	452	—	—	—	17.78	11.05	6.73
MW-5	03/08/2006	330	<0.500	<0.500	<0.500	<0.500	—	169	206	—	—	—	17.78	9.30	8.48
MW-5	06/27/2006	<50	<0.50	<0.50	<0.50	<0.50	—	60	75	—	—	—	17.78	9.83	7.95
MW-5	09/25/2006	<50	<0.50	<0.50	<0.50	<1.0	—	22	<10	<1.0	<1.0	<1.0	17.78	10.96	6.82
MW-5	12/21/2006	<50	<0.50	<0.50	<0.50	<1.0	—	2.4	<5.0	—	—	—	17.78	11.00	6.78
MW-5	03/20/2007	<50	<0.50	<0.50	<0.50	<1.0	—	1.7	<10	—	—	—	17.78	10.51	7.27
MW-5	06/18/2007	<50	<0.50	<1.0	<1.0	<1.0	—	2.0	61	—	—	—	17.78	11.18	6.60
MW-5	08/30/2007	<50 n	<0.50	<1.0	<1.0	<1.0	—	2.3	170	<2.0	<2.0	<2.0	17.78	11.65	6.13
MW-5	12/28/2007	<50 n	<0.50	<1.0	<1.0	<1.0	—	3.0	830	—	—	—	17.78	11.90	5.88
MW-5	03/26/2008	<50	<0.50	<1.0	<1.0	<1.0	—	1.7	55	—	—	—	17.78	11.11	6.67
MW-5	05/29/2008	65	<0.50	<1.0	<1.0	<1.0	—	3.9	940	—	—	—	17.78	11.52	6.26
MW-5	09/25/2008	64	<0.50	<1.0	<1.0	<1.0	—	3.3	560	<2.0	<2.0	<2.0	17.78	12.00	5.78
MW-5	12/16/2008	63	<0.50	<1.0	<1.0	<1.0	—	3.3	850	—	—	—	17.78	12.30	5.48
MW-5	02/26/2009	<50	<0.50	<1.0	<1.0	<1.0	—	2.1	850	—	—	—	17.78	11.08	6.70
MW-5	05/26/2009	<50	<0.50	<1.0	<1.0	<1.0	—	1.2	19	—	—	—	17.78	11.43	6.35
MW-5	09/02/2009	<50	<0.50	<1.0	<1.0	<1.0	—	1.6	180	<2.0	<2.0	<2.0	17.78	12.24	5.54
MW-5	03/10/2010	<50	<0.50	<1.0	<1.0	<1.0	—	1.3	170	—	—	—	17.78	10.59	7.19
MW-5	08/31/2010	<50	<0.50	<1.0	<1.0	<1.0	—	1.8	490	<2.0	<2.0	<2.0	17.78	11.75	6.03
MW-5	03/08/2011	<50	<0.50	<0.50	<0.50	<1.0	—	1.0	270	—	—	—	17.78	10.44	7.34
MW-5	09/19/2011	<50	<0.50	<0.50	<0.50	<1.0	—	1.2	240	<1.0	<1.0	<1.0	17.78	11.50	6.28
MW-5	03/05/2012	<50	<0.50	<0.50	<0.50	<1.0	—	0.68	120	—	—	—	17.78	12.09	5.69
MW-5	09/14/2012	<50	<0.50	<0.50	<0.50	<1.0	—	0.57	36	<0.50	<0.50	<0.50	17.78	11.90	5.88
MW-6	03/28/2003	Well inaccessible		—	—	—	—	—	—	—	—	—	18.10	—	—
MW-6	04/07/2003	—	—	—	—	—	—	—	—	—	—	—	18.10	13.80	4.30
MW-6	04/15/2003	14,000	<250	<250	<250	<500	—	41,000	—	—	—	—	18.10	15.05	3.05
MW-6	06/13/2003	<10,000	<100	<100	<100	<200	—	27,000	—	—	—	—	18.10	14.42	3.68
MW-6	09/26/2003	<5,000	<50	<50	<50	<100	—	11,000	—	—	—	—	18.05	c	—

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-6	11/24/2003	<10,000	<100	<100	<100	<200	—	5,000	—	—	—	—	18.05	14.68	3.37
MW-6	03/01/2004	<1,000	<10	<10	<10	<20	—	2,500	—	—	—	—	18.05	9.84	8.21
MW-6	06/15/2004	<1,000	<10	<10	<10	<20	—	2,800	—	—	—	—	18.05	14.82	3.23
MW-6	09/16/2004	<1,000	<10	<10	<10	<20	—	830	610	<40	<40	<40	18.05	14.20	3.85
MW-6	12/29/2004	<200	<2.0	<2.0	<2.0	<4.0	—	530	—	—	—	—	18.05	14.78	3.27
MW-6	02/28/2005	—	—	—	—	—	—	—	—	—	—	—	18.05	9.58	8.47
MW-6	03/23/2005	290 f	<2.0	<2.0	<2.0	<4.0	—	590	—	—	—	—	18.05	14.22	3.83
MW-6	05/18/2005	390	8.7	<0.50	0.93	9.0	—	68	—	—	—	—	18.05	9.79	8.26
MW-6	08/16/2005	—	—	—	—	—	—	34	—	—	—	—	18.05	10.64	7.41
MW-6	09/15/2005	<500	<5.0	<5.0	<5.0	<10	—	45	21,000 e	<20	<20	<20	18.05	11.83	6.22
MW-6	10/26/2005	—	—	—	—	—	—	31	—	—	—	—	18.05	11.31	6.74
MW-6	12/13/2005	982	<0.500	1.36 h	<0.500	<0.500	—	35.1	11,300 e	—	—	—	18.05	11.22	6.83
MW-6	03/08/2006	2,110	<0.500	<0.500	<0.500	<0.500	—	29.6	21,800	—	—	—	18.05	9.50	8.55
MW-6	06/27/2006	510	<0.50	<0.50	<0.50	<0.50	—	94	<20	—	—	—	18.05	9.84	8.21
MW-6	09/25/2006	730 j	<25	<25	<25	<50	—	<50	16,000	<50	<50	<50	18.05	11.08	6.97
MW-6	12/21/2006	890	<0.50	<0.50	<0.50	<1.0	—	30	33,000	—	—	—	18.05	11.12	6.93
MW-6	03/20/2007	<1,200 k	<12	<12	<12	<25	—	30	33,000	—	—	—	18.05	10.66	7.39
MW-6	06/18/2007	400	<0.50	<1.0	<1.0	<1.0	—	34	82,000	—	—	—	18.05	11.30	6.75
MW-6	08/30/2007	650 n	<50	<100	<100	<100	—	38 l	32,000	<200	<200	<200	18.05	11.81	6.24
MW-6	12/28/2007	170 n	<25	<50	<50	<50	—	28 l	36,000	—	—	—	18.05	11.97	6.08
MW-6	03/26/2008	1,300	<5.0	<10	<10	<10	—	26	36,000	—	—	—	18.05	10.83	7.22
MW-6	05/29/2008	2,500	<25	<50	<50	<50	—	<50	41,000	—	—	—	18.05	11.80	6.25
MW-6	09/25/2008	4,100	<25	<50	<50	<50	—	<50	44,000	<100	<100	<100	18.05	12.23	5.82
MW-6	12/16/2008	1,900	<10	<20	<20	<20	—	<20	28,000	—	—	—	18.05	12.40	5.65
MW-6	02/26/2009	1,500	<10	<20	<20	<20	—	<20	27,000	—	—	—	18.05	11.05	7.00
MW-6	05/26/2009	1,500	<10	<20	<20	<20	—	<20	29,000	—	—	—	18.05	11.52	6.53
MW-6	09/02/2009	1,800	<10	<20	<20	<20	—	<20	35,000	<40	<40	<40	18.05	12.25	5.80
MW-6	03/10/2010	<1,000	<10	<20	<20	<20	—	<20	25,000	—	—	—	18.05	10.94	7.11
MW-6	08/31/2010	610	<5.0	<10	<10	<10	—	15	20,000	<20	<20	<20	18.05	11.90	6.15

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-6	12/21/2010	<1,000	<10	<20	<20	<20	—	<20	19,000	—	—	—	18.05	11.01	7.04
MW-6	03/08/2011	<1,200	<12	<12	<12	<25	—	<25	8,200	—	—	—	18.05	10.59	7.46
MW-6	06/01/2011	<500	<5.0	<5.0	<5.0	<10	—	<10	11,000	—	—	—	18.05	10.65	7.40
MW-6	09/19/2011	1,000 j	<10	<10	<10	<20	—	<20	16,000	<20	<20	<20	18.05	11.56	6.49
MW-6	12/02/2011	150	<0.500	<0.500	<0.500	<0.500	—	6.91	4,170	—	—	—	18.05	11.95	6.10
MW-6	03/05/2012	<1,000	<10	<10	<10	<20	—	<10	9,600	—	—	—	18.05	12.02	6.03
MW-6	06/12/2012	<250	<2.5	<2.5	<2.5	<5.0	—	3.5	5,000	—	—	—	18.05	11.16	6.89
MW-6	09/14/2012	<500	<5.0	<5.0	<5.0	<10	—	<5.0	8,200	<5.0	<5.0	<5.0	18.05	12.02	6.03
MW-6	**12/28/2012**	**<1,300**	**<13**	**<13**	**<13**	**<25**	**—**	**<13**	**4,400**	**—**	**—**	**—**	**18.05**	**10.28**	7.77
MW-7	03/28/2003	Well inaccessible		—	—	—	—	—	—	—	—	—	19.16	—	—
MW-7	04/07/2003	—	—	—	—	—	—	—	—	—	—	—	19.16	13.85	5.31
MW-7	04/15/2003	6,000	<100	<100	<100	<200	—	19,000	—	—	—	—	19.16	13.95	5.21
MW-7	06/13/2003	<5,000	<50	<50	<50	<100	—	5,700	—	—	—	—	19.16	13.92	5.24
MW-7	09/26/2003	<250	<2.5	<2.5	<2.5	<5.0	—	110	—	—	—	—	19.13	13.85	5.28
MW-7	11/24/2003	<50	<0.50	0.59	<0.50	1.7	—	7.6	—	—	—	—	19.13	13.99	5.14
MW-7	03/01/2004	67 b	<0.50	<0.50	<0.50	<1.0	—	120	—	—	—	—	19.13	10.85	8.28
MW-7	06/15/2004	120 b	<0.50	<0.50	<0.50	<1.0	—	89	—	—	—	—	19.13	13.27	5.86
MW-7	09/16/2004	<500	<5.0	<5.0	<5.0	<10	—	130	4,700	<20	<20	<20	19.13	12.83	6.30
MW-7	12/29/2004	<500	<5.0	<5.0	<5.0	<10	—	130	—	—	—	—	19.13	11.82	7.31
MW-7	02/28/2005	—	—	—	—	—	—	—	—	—	—	—	19.13	10.59	8.54
MW-7	03/23/2005	<1,000	<10	<10	<10	<20	—	16	—	—	—	—	19.13	11.16	7.97
MW-7	05/18/2005	67 g	<0.50	<0.50	<0.50	<1.0	—	12	—	—	—	—	19.13	10.42	8.71
MW-7	08/16/2005	—	—	—	—	—	—	—	—	—	—	—	19.13	11.52	7.61
MW-7	09/15/2005	<500	<5.0	<5.0	<5.0	<10	—	75	16,000	<20	<20	<20	19.13	11.95	7.18
MW-7	10/26/2005	—	—	—	—	—	—	—	—	—	—	—	19.13	12.23	6.90
MW-7	12/13/2005	1,210	<0.500	<0.500	<0.500	<0.500	—	19.1	14,600 e	—	—	—	19.13	12.15	6.98
MW-7	03/08/2006	989	<0.500	<0.500	<0.500	<0.500	—	7.29	14,000	—	—	—	19.13	10.70	8.43
MW-7	06/27/2006	370	<0.50	<0.50	<0.50	<0.50	—	16	20,000 a	—	—	—	19.13	10.77	8.36

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-7	09/25/2006	840 j	<10	<10	<10	<20	—	<20	22,000	<20	<20	<20	19.13	12.04	7.09
MW-7	12/21/2006	740	<0.50	<0.50	<0.50	<1.0	—	7.5	27,000	—	—	—	19.13	12.18	6.95
MW-7	03/20/2007	460 j	<50	<50	<50	<100	—	<100	24,000	—	—	—	19.13	11.67	7.46
MW-7	06/18/2007	310 m	<5.0	<10	<10	<10	—	2.7 l	32,000	—	—	—	19.13	12.31	6.82
MW-7	08/30/2007	560 n	<25	<50	<50	<50	—	<50	28,000	<100	<100	<100	19.13	12.76	6.37
MW-7	12/28/2007	74 n	<25	<50	<50	<50	—	<50	26,000	—	—	—	19.13	12.85	6.28
MW-7	03/26/2008	1,400	<5.0	<10	<10	<10	—	<10	32,000	—	—	—	19.13	12.04	7.09
MW-7	05/29/2008	3,000	<25	<50	<50	<50	—	<50	44,000	—	—	—	19.13	12.80	6.33
MW-7	09/25/2008	3,600	<25	<50	<50	<50	—	<50	36,000	<100	<100	<100	19.13	13.14	5.99
MW-7	12/16/2008	1,700	<10	<20	<20	<20	—	<20	29,000	—	—	—	19.13	13.34	5.79
MW-7	02/26/2009	1,300	<10	<20	<20	<20	—	<20	19,000	—	—	—	19.13	12.16	6.97
MW-7	05/26/2009	1,600	<10	<20	<20	<20	—	<20	32,000	—	—	—	19.13	12.56	6.57
MW-7	09/02/2009	1,800	<10	<20	<20	<20	—	<20	33,000	<40	<40	<40	19.13	13.44	5.69
MW-7	03/10/2010	<1,000	<10	<20	<20	<20	—	<20	25,000	—	—	—	19.13	11.62	7.51
MW-7	08/31/2010	<1,000	<10	<20	<20	<20	—	<20	27,000	<40	<40	<40	19.13	12.90	6.23
MW-7	12/21/2010	<2,500	<25	<50	<50	<50	—	<50	22,000	—	—	—	19.13	12.11	7.02
MW-7	03/08/2011	<2,000	<20	<20	<20	<40	—	<40	9,600	—	—	—	19.13	11.51	7.62
MW-7	06/01/2011	620	<20	<20	<20	<40	—	<40	35,000	—	—	—	19.13	11.56	7.57
MW-7	09/19/2011	2,700	<25	<25	<25	<50	—	<50	48,000	<50	<50	<50	19.13	12.58	6.55
MW-7	12/02/2011	370	<0.500	<0.500	<0.500	<0.500	—	4.21	14,300	—	—	—	19.13	12.90	6.23
MW-7	03/05/2012	<2,500	<25	<25	<25	<50	—	<25	42,000	—	—	—	19.13	13.22	5.91
MW-7	06/12/2012	<2,500	<25	<25	<25	<50	—	<25	39,000	—	—	—	19.13	12.06	7.07
MW-7	09/14/2012	<5,000	<50	<50	<50	<100	—	<50	54,000	<50	<50	<50	19.13	12.86	6.27
MW-7	**12/28/2012**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**—**	**<0.50**	**1,300**	**—**	**—**	**—**	**19.13**	**11.29**	**7.84**
MW-8	03/28/2003	Well inaccessible		—	—	—	—	—	—	—	—	—	18.72	—	—
MW-8	04/07/2003	—	—	—	—	—	—	—	—	—	—	—	18.72	14.13	4.59
MW-8	04/15/2003	890	29	22	15	71	—	430	—	—	—	—	18.72	14.10	4.62
MW-8	06/13/2003	—	—	—	—	—	—	—	—	—	—	—	18.72	13.94	4.78

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-8	09/26/2003	<250	55	51	33	140	—	330	—	—	—	—	18.71	14.21	4.50
MW-8	11/24/2003	<5,000	<50	<50	<50	<100	—	5,600	—	—	—	—	18.71	14.16	4.55
MW-8	03/01/2004	<50	<0.50	<0.50	<0.50	<1.0	—	12	—	—	—	—	18.71	10.34	8.37
MW-8	06/15/2004	2,800	170	240	140	560	—	440	—	—	—	—	18.71	13.88	4.83
MW-8	09/16/2004	2,500	180	200	120	490	—	480	260	<10	<10	<10	18.71	13.92	4.79
MW-8	12/29/2004	4,400	360	600	280	1,400	—	690	—	—	—	—	18.71	13.44	5.27
MW-8	02/28/2005	—	—	—	—	—	—	—	—	—	—	—	18.71	10.15	8.56
MW-8	03/23/2005	2,800	120	190	110	420	—	300	—	—	—	—	18.71	13.79	4.92
MW-8	05/18/2005	250	34	3.4	6.6	27	—	110	—	—	—	—	18.71	10.85	7.86
MW-8	08/16/2005	—	—	—	—	—	—	—	—	—	—	—	18.71	10.95	7.76
MW-8	09/15/2005	460 f	54	21	24	92	—	250	130	<4.0	<4.0	<4.0	18.71	11.38	7.33
MW-8	10/26/2005	—	—	—	—	—	—	—	—	—	—	—	18.71	11.75	6.96
MW-8	12/13/2005	1,180	49.6	4.89 h	15.2	76.0	—	320 a	1,870	—	—	—	18.71	11.80	6.91
MW-8	03/08/2006	1,040	48.0	1.82	5.07	19.9	—	271	190	—	—	—	18.71	10.50	8.21
MW-8	06/27/2006	730	80	<2.5	8.6	28	—	360	500 a	—	—	—	18.71	10.00	8.71
MW-8	09/25/2006	830	120	4.1	3.0	15	—	260	420	3.7	<2.5	<2.5	18.71	11.42	7.29
MW-8	12/21/2006	1,200	140	3.8	2.3	12	—	190	1,100	—	—	—	18.71	12.08	6.63
MW-8	03/20/2007	660	100	2.3	1.3	2.9	—	280	660	—	—	—	18.71	11.56	7.15
MW-8	06/18/2007	1,200	270	4.9	2.0	6.21	—	230	1,300	—	—	—	18.71	11.72	6.99
MW-8	08/30/2007	1,100 n	160	3.8	2.3	7.64 l	—	150	840	5.2	<2.0	<2.0	18.71	12.22	6.49
MW-8	12/28/2007	610 n	89	1.8	0.58 l	2.33 l	—	140	820	—	—	—	18.71	12.26	6.45
MW-8	03/26/2008	240	19	<1.0	<1.0	<1.0	—	58	390	—	—	—	18.71	11.45	7.26
MW-8	05/29/2008	290	25	<1.0	<1.0	<1.0	—	99	800	—	—	—	18.71	12.13	6.58
MW-8	09/25/2008	500	32	<1.0	<1.0	1.3	—	63	930	2.5	<2.0	<2.0	18.71	15.31	3.40
MW-8	12/16/2008	550	71	1.4	<1.0	1.8	—	46	1,400	—	—	—	18.71	12.92	5.79
MW-8	02/26/2009	120	0.97	<1.0	<1.0	<1.0	—	4.9	62	—	—	—	18.71	11.50	7.21
MW-8	05/26/2009	200	18	<1.0	<1.0	<1.0	—	39	710	—	—	—	18.71	11.91	6.80
MW-8	09/02/2009	480	55	1.6	<1.0	3.4	—	48	1,200	2.6	<2.0	<2.0	18.71	12.90	5.81
MW-8	03/10/2010	<50	<0.50	<1.0	<1.0	<1.0	—	1.6	14	—	—	—	18.71	11.02	7.69

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	*Date*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE 8020 (µg/L)*	*MTBE 8260 (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*
MW-8	08/31/2010	650	110	11	6.5	25	—	48	1,200	2.2	<2.0	<2.0	18.71	12.20	6.51
MW-8	03/08/2011	97	<0.50	<0.50	<0.50	<1.0	—	3.7	23	—	—	—	18.71	10.80	7.91
MW-8	09/19/2011	1,200	370 o	13 o	3.3 o	30 o	—	53 o	2,500 o	<5.0 o	<5.0 o	<5.0 o	18.71	11.94	6.77
MW-8	03/05/2012	700	160	<2.5	<2.5	<5.0	—	23	2,800	—	—	—	18.71	12.62	6.09
MW-8	09/14/2012	1,200	300	13	17	19	—	42	3,600	<2.5	<2.5	<2.5	18.71	12.70	6.01
MW-9	03/28/2003	—	—	—	—	—	—	—	—	—	—	—	18.78	11.19	7.59
MW-9	04/15/2003	420	<2.5	<2.5	<2.5	6.3	—	37	—	—	—	—	18.78	11.24	7.54
MW-9	06/13/2003	290 b	<0.50	<0.50	<0.50	2.6	—	34	—	—	—	—	18.78	11.39	7.39
MW-9	09/26/2003	540 b	<0.50	<0.50	<0.50	9.2	—	21	—	—	—	—	18.78	12.12	6.66
MW-9	11/24/2003	650 d	<0.50	<0.50	<0.50	6.3	—	14	—	—	—	—	18.78	12.30	6.48
MW-9	03/01/2004	230 d	<0.50	<0.50	<0.50	1.7	—	7.7	—	—	—	—	18.78	10.45	8.33
MW-9	06/15/2004	280	<0.50	<0.50	<0.50	1.9	—	8.3	—	—	—	—	18.78	11.88	6.90
MW-9	09/16/2004	260	<0.50	<0.50	<0.50	1.5	—	3.9	<5.0	<2.0	<2.0	<2.0	18.78	12.26	6.52
MW-9	12/29/2004	220	<0.50	<0.50	<0.50	1.2	—	3.5	—	—	—	—	18.78	11.76	7.02
MW-9	02/28/2005	140 g	<0.50	<0.50	<0.50	<1.0	—	1.5	—	—	—	—	18.78	10.21	8.57
MW-9	03/23/2005	—	—	—	—	—	—	—	—	—	—	—	18.78	10.14	8.64
MW-9	05/18/2005	210 g	<0.50	<0.50	<0.50	<1.0	—	2.8	—	—	—	—	18.78	10.21	8.57
MW-9	08/16/2005	—	—	—	—	—	—	—	—	—	—	—	18.78	11.25	7.53
MW-9	09/15/2005	230 g	<0.50	<0.50	<0.50	1.1	—	2.6	<5.0	<2.0	<2.0	<2.0	18.78	11.75	7.03
MW-9	10/26/2005	—	—	—	—	—	—	—	—	—	—	—	18.78	11.97	6.81
MW-9	12/13/2005	504	<0.500	<0.500	<0.500	2.53	—	2.88	—	—	—	—	18.78	11.92	6.86
MW-9	03/08/2006	205	<0.500	<0.500	<0.500	<0.500	—	1.45	—	—	—	—	18.78	10.05	8.73
MW-9	06/27/2006	260	<0.50	<0.50	<0.50	<0.50	—	1.9	—	—	—	—	18.78	10.64	8.14
MW-9	09/25/2006	160	<0.50	<0.50	<0.50	<1.0	—	1.6	<10	<1.0	<1.0	<1.0	18.78	11.78	7.00
MW-9	12/21/2006	300	<0.50	<0.50	<0.50	<1.0	—	1.4	—	—	—	—	18.78	11.86	6.92
MW-9	03/20/2007	150 j	<0.50	<0.50	<0.50	<1.0	—	1.2	—	—	—	—	18.78	11.34	7.44
MW-9	06/18/2007	81	0.18 l	<1.0	<1.0	0.27 l	—	1.2	—	—	—	—	18.78	12.01	6.77
MW-9	08/30/2007	52 n	<0.50	<1.0	<1.0	0.31 l	—	1.6	<10	<2.0	<2.0	<2.0	18.78	12.49	6.29

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-9	12/28/2007	61 n	<0.50	<1.0	<1.0	0.271	—	1.9	—	—	—	—	18.78	12.84	5.94
MW-9	03/26/2008	89	<0.50	<1.0	<1.0	<1.0	—	1.6	—	—	—	—	18.78	12.30	6.48
MW-9	05/29/2008	130	<0.50	<1.0	<1.0	<1.0	—	7.4	—	—	—	—	18.78	12.61	6.17
MW-9	09/25/2008	63	<0.50	<1.0	<1.0	<1.0	—	17	<10	<2.0	<2.0	<2.0	18.78	12.92	5.86
MW-9	12/16/2008	74	<0.50	<1.0	<1.0	<1.0	—	13	—	—	—	—	18.78	13.03	5.75
MW-9	02/26/2009	81	<0.50	<1.0	<1.0	<1.0	—	14	—	—	—	—	18.78	11.94	6.84
MW-9	05/26/2009	140	<0.50	<1.0	<1.0	<1.0	—	5.8	—	—	—	—	18.78	12.47	6.31
MW-9	09/02/2009	54	<0.50	<1.0	<1.0	<1.0	—	16	<10	<2.0	<2.0	<2.0	18.42	13.00	5.42
MW-9	03/10/2010	<50	<0.50	<1.0	<1.0	<1.0	—	1.4	—	—	—	—	18.42	11.05	7.37
MW-9	08/31/2010	<50	<0.50	<1.0	<1.0	<1.0	—	12	<10	<2.0	<2.0	<2.0	18.42	12.35	6.07

Notes:
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to June 28, 2001, analyzed by EPA Method 8015 unless
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to June 28, 2001, analyzed by EPA Method 8020.
MTBE = Methyl tertiary-butyl ether analyzed by method noted
TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
TOC = Top of casing elevation, in feet relative to mean sea level
GW = Groundwater
µg/L = Micrograms per liter
ft = Feet
MSL = Mean sea level
<x = Not detected at reporting limit x
— = Not analyzed or not available

a = Sample was analyzed outside the EPA recommended holding time.
b = Hydrocarbon reported does not match the laboratory standard.

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE 8020 (µg/L)	MTBE 8260 (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)

c = Unable to gauge
d = Sample contains discrete peaks in addition to gasoline.
e = Estimated value. The concentration exceeded the calibration of analysis.
f = Quantity of unknown hydrocarbon(s) in sample based on gasoline.
g = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.
h = Analyte was detected in the associated Method Blank.
i = Sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
j = Hydrocarbon result partly due to individual peak(s) in quantitation range.
k = Reporting limit raised due to high concentrations of non-target analytes.
l = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
m = Sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
n = Analyzed by the EPA method 8015B(M)
o = Sample container contained headspace

Wells MW-1, MW-2, and MW-3 surveyed December 9, 1998 by Virgil Chavez Land Surveying
Wells MW-6 through MW-9 surveyed April 10, 2003 by Virgil Chavez Land Surveying
Wells MW-2, MW-3, MW-6, MW-7, and MW-8 surveyed September 23, 2003 by Virgil Chavez Land Surveying
Well MW-9 surveyed October 20, 2009 by Virgil Chavez Land Surveying

TABLE 3

HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
610 MARKET STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE (µg/L)*
SB-A	3/31/1998	**2,100**	**490**	<10	<10	19	**11,000 a/ 14,000**
SB-B	3/31/1998	120	5.8	<0.50	<0.50	<0.50	**5,300 a/6,200**
SB-C	3/31/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5 a
SB-D	4/16/2002	**68,000**	<250	**340**	**44**	**3,200**	**10,000**
SB-E	4/16/2002	<2,500	**19,000**	34	<25	<25	<25
SB-F	4/16/2002	<500	**3,300**	<5.0	<5.0	<5.0	<5.0
MW-4	5/20/2002	<1,000	**4,600**	<10	<10	<10	<10
MW-5	5/20/2002	<2,500	**17,000**	<25	<25	<25	<25
Groundwater ESL [b]*:*		210	46	130	43	100	1,800

Notes:
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; before April 16, 2002 analyzed by EPA Method 8015B (M).
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; before April 16, 2002 analyzed by EPA Method 8020.
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B unless otherwise noted
µg/L = Micrograms per liter
<x = Not detected at reporting limit x
ESL = Environmental screening level
Results in **bold** equal or exceed applicable ESL

a = Analyzed by EPA Method 8020
b = San Francisco Bay Regional Water Quality Control Board ESL for groundwater where groundwater is not a potential source of drinking water (Tables B and D of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

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

BORING/WELL LOG

CLIENT NAME	Equilon Enterprises LLC	**BORING/WELL NAME**	MW-1
JOB/SITE NAME	Shell-Branded Service Station	**DRILLING STARTED**	17-Nov-98
LOCATION	610 Market, Oakland CA	**DRILLING COMPLETED**	17-Nov-98
PROJECT NUMBER	240-0594	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	21.70 ft
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	10.25"	**SCREENED INTERVAL**	5 to 25 ft bgs
LOGGED BY	B. Busch	**DEPTH TO WATER (First Encountered)**	10.0 ft (17-Nov-98)
REVIEWED BY		**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5' bgs.		

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
								ASPHALT.	0.5
						SW		**SAND**; (SW); brown; medium dense; damp; 10% silt, 90% sand; no plasticity; moderate estimated permeability.	
0			MW1 - 5.5		5				7.5
1.6			MW1 - 9.5		10	SM		**Silty SAND**; (SM); brown, grey; medium dense; damp; 20% silt, 80% sand; no plasticity; moderate estimated permeability. 11/17/98 ▽	
58			MW1 - 16.0		15			@ 15' - 15% silt, 85% sand.	15.0
NT			MW1 - 19.5		20	SM			
0.3			MW1 - 24.0		25				25.0

WELL DIAGRAM: Portland Type I/II Cement; Bentonite Seal; Monterey Sand #2/16; 4"-diam., 0.010" Slotted Schedule 40 PVC; Bottom of Boring @ 25 ft

WELL LOG (PID) G:\CAMBRIA\SHELL\240594\240594.GPJ DEFAULT.GDT 12/2/98

ATTACHMENT 6

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

BORING/WELL LOG

CLIENT NAME	Equilon Enterprises LLC	**BORING/WELL NAME**	MW-2
JOB/SITE NAME	Shell-Branded Service Station	**DRILLING STARTED**	17-Nov-98
LOCATION	610 Market, Oakland CA	**DRILLING COMPLETED**	17-Nov-98
PROJECT NUMBER	240-0584	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	19.61 ft
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	10.25"	**SCREENED INTERVAL**	5 to 20.5 ft bgs
LOGGED BY	B. Busch	**DEPTH TO WATER (First Encountered)**	10.0 ft (17-Nov-98)
REVIEWED BY		**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5' bgs.		

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								ASPHALT	0.5	Portland Type I/II Cement
1.0			MW2 - 5.5		5	SW		**SAND**; (SW); brown to grey; loose; damp; 5% silt, 95% sand; no plasticity; high estimated permeability.		Bentonite Seal
										Monterey Sand #2/16
									7.5	
11.0			MW2 - 10.5		10	SM		**Silty SAND**; (SM); grey; loose; moist; 15% silt, 85% fine grained sand; no plasticity; moderate estimated permeability. 11/17/98 ▽		
										4"-diam., 0.010" Slotted Schedule 40 PVC
3.0			MW2 - 15.5		15	SM		@ 15' - 15% silt, 85% fine to medium grained sand.	15.0	
									17.5	
1.0			MW2 - 19.5		20	SW		**SAND**; (SW); brown; loose; wet; 10% silt, 90% sand; no plasticity; high estimated permeability.	20.5	Bottom of Boring @ 20.5 ft

WELL LOG (PID) G:\OAKLAND\CAD\BLOG.GPJ DEFAULT.GDT 12/21/98

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

BORING/WELL LOG

CLIENT NAME	Equilon Enterprises LLC	**BORING/WELL NAME**	MW-3
JOB/SITE NAME	Shell-Branded Service Station	**DRILLING STARTED**	17-Nov-98
LOCATION	610 Market, Oakland CA	**DRILLING COMPLETED**	17-Nov-98
PROJECT NUMBER	240-0594	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	19.05 ft
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	10.25"	**SCREENED INTERVAL**	5 to 20.5 ft bgs
LOGGED BY	B. Busch	**DEPTH TO WATER (First Encountered)**	10.0 ft (17-Nov-98)
REVIEWED BY		**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5' bgs.		

PID (ppm)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
								TOPSOIL.	1.0	Portland Type I/II Cement
								Silty SAND; (SM); grey; loose; damp; 15% silt, 85% sand; no plasticity; moderate estimated permeability.		Bentonite Seal
					5					Monterey Sand #2/16
12.0			MW3 - 5.5			SM				
					10			11/17/98 ▽		
204			MW3 - 10.5							4"-diam., 0.010" Slotted Schedule 40 PVC
					15			@ 15' - wet.	15.0	
15.0			MW3 - 15.5			SM				
17.0			MW3 - 19.5		20				20.0	Bottom of Boring @ 20.5 ft

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Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-4
JOB/SITE NAME	Shell-Branded Service Station	**DRILLING STARTED**	17-Apr-02
LOCATION	610 Market, Oakland CA	**DRILLING COMPLETED**	17-Apr-02
PROJECT NUMBER	244-0594	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	10"	**SCREENED INTERVAL**	5 to 20 ft bgs
LOGGED BY	J. Gerke	**DEPTH TO WATER (First Encountered)**	10.2 ft (17-Apr-02)
REVIEWED BY	D. Lundquist, PE	**DEPTH TO WATER (Static)**	10.61 ft (20-May-02)

REMARKS Hand augered to 5' bgs. Located within 6th Street, approximately 43 feet SW of the site and 103 feet SE of Market St.

MTBE (ppm)	BLOW COUNTS	SAMPLE ID	DEPTH (ft bgs)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
			0		**ASPHALT.**		Portland Type I/II Cement
					Silty SAND; (SM); brown; damp; 20% silt, 80% fine with trace medium grained sand; no plasticity.	1.7	Bentonite Seal
			5				Monterey Sand #2/16
<0.5	5 7 8	MW-4-6.5			@ 6 fbg - medium dense; moist.		
<0.5	7 9 12	MW-4-9.5	10	SM	@ 9 fbg - light brown with light gray mottling and oxidization staining. @ 10.2 fbg - wet.		
<0.5	7 7 9	MW-4-14.5	15		@ 14.0 fbg - light brown with light gray mottling.		4"-diam., 0.010" Slotted Schedule 40 PVC
<0.5	6 8 10	MW-4-19.0	20			20.0	Bottom of Boring @ 20 ft

WELL LOG (MTBE) G:\OA5300--1\GINT\OAK610.GPJ DEFAULT.GDT 6/11/02

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-5
JOB/SITE NAME	Shell-Branded Service Station	**DRILLING STARTED**	17-Apr-02
LOCATION	610 Market, Oakland CA	**DRILLING COMPLETED**	17-Apr-02
PROJECT NUMBER	244-0594	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	10"	**SCREENED INTERVAL**	5 to 20 ft bgs
LOGGED BY	J. Gerke	**DEPTH TO WATER (First Encountered)**	12.0 ft (17-Apr-02)
REVIEWED BY	D. Lundquist, PE	**DEPTH TO WATER (Static)**	10.41 ft (20-May-02)

REMARKS Hand augered to 6' bgs. Located within 6th Street, approximately 35 feet SW of the site and 38 feet SE of Market St.

MTBE (ppm)	BLOW COUNTS	SAMPLE ID	DEPTH (ft bgs)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
					ASPHALT.	1.0	Portland Type I/II Cement
				SP	**SAND**; (SP); brown; damp; 5% clay, 10% silt, 85% fine sand; no plasticity.		Bentonite Seal
			5			4.6	Monterey Sand #2/16
				SM	**Silty SAND**; (SM); light gray; damp; 10% clay, 25% silt, 65% sand; no plasticity.	5.6	
<0.5	9 12 16	MW-5-6.5		SP	**SAND**; (SP); brown; medium dense; damp; 10% silt, 90% fine sand; no plasticity. @ 6 fbg - greenish gray; moist.		
<0.5	6 8 11	MW-5-9.5	10				
					@ 12 fbg - wet.	12.3	4"-diam., 0.010" Slotted Schedule 40 PVC
<0.5	7 10 12	MW-5-14.5	15		**Silty SAND**; (SM); light brown with light gray mottling; medium dense; wet; 25% silt, 75% sand; no plasticity.		
3.0	7 9 13	MW-5-19.5	20	SM	@ 19 fbg - light brown.		
<0.5	12 14 17	MW-5-24.5	25		@ 24 fbg - 20% silt, 80% sand.	25.5	Portland Type I/II Cement Bottom of Boring @ 25.5 ft

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-6
JOB/SITE NAME	Shell-Branded Service Station	**DRILLING STARTED**	15-Nov-02
LOCATION	610 Market, Oakland CA	**DRILLING COMPLETED**	15-Nov-02
PROJECT NUMBER	244-0594	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	10"	**SCREENED INTERVAL**	5 to 20.01 ft bgs
LOGGED BY	J. Gerke	**DEPTH TO WATER (First Encountered)**	15.0 ft (15-Nov-02) ▽
REVIEWED BY	M. Derby, PE# 55475	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Hand augered to 5' bgs.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.7	Portland Type I/II Cement
							SAND; (SP); Brown; 5% Silt, 95% Sand.		Bentonite Seal
		MW-6-5.5		5	SP				
		MW-6-10.5		10			Brown with gray mottling.		Monterey Sand #2/16 4"-diam., 0.010" Slotted Schedule 40 PVC
		MW-6-15.5		15	SM		▽ **Silty SAND**; (SM); Gray; 20% Silt, 80% Sand.	15.0	
								17.5	
		MW-6-19.0		20	SP		**SAND**; (SP); 5% Silt, 95% Sand.	20.0	Bottom of Boring @ 20 ft

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-7
JOB/SITE NAME	Shell-Branded Service Station	**DRILLING STARTED**	14-Nov-02
LOCATION	610 Market, Oakland CA	**DRILLING COMPLETED**	15-Nov-02
PROJECT NUMBER	244-0594	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	10"	**SCREENED INTERVAL**	5 to 20.01 ft bgs
LOGGED BY	J. Gerke	**DEPTH TO WATER (First Encountered)**	15.0 ft (14-Nov-02)
REVIEWED BY	M. Derby, PE# 55475	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 8' bgs.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.6	Portland Type I/II Cement
							Silty SAND; (SM); Grayish brown to brown with gray; damp; 5% Clay, 15% Silt, 80% Sand; low plasticity.		Bentonite Seal
				5			Silty SAND; (SM); Brown; damp; 5% Clay, 15%Silt ,80% Sand.		
					SM				
		MW-7-9.0		10			Silty SAND; (SM); Brown with gray streaking; moist.		Monterey Sand #2/16 4"-diam., 0.010" Slotted Schedule 40 PVC
		MW-7-10.5							
				15			▽		
		MW-7-15.5					**Poorly Graded SAND**; (SP); Gray; wet; 5% Silt, 95% Sand.	16.0	
					SP				
		MW-7-19.0					Brown.		
				20				20.0	Bottom of Boring @ 20 ft

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-8
JOB/SITE NAME	Shell-Branded Service Station	**DRILLING STARTED**	14-Nov-02
LOCATION	610 Market, Oakland CA	**DRILLING COMPLETED**	14-Nov-02
PROJECT NUMBER	244-0594	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	10"	**SCREENED INTERVAL**	5 to 20.01 ft bgs
LOGGED BY	J. Gerke	**DEPTH TO WATER (First Encountered)**	10.0 ft (14-Nov-02)
REVIEWED BY	M. Derby, PE# 55475	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5' bgs.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.6	Portland Type I/II Cement
							Silty SAND; (SM); Grayish brown to gray; damp; 15% Silt, 85% Sand.		Bentonite Seal
		MW-8- 6		5			Silty SAND; (SM); grayish brown; damp; Silt 20%, Sand 80%.		
		MW-8- 11		10	SM		Silty SAND; (SM); gray; moist to wet; 20% Silt, 80% Sand.		Monterey Sand #2/16 4"-diam., 0.010" Slotted Schedule 40 PVC
		MW-8- 16		15			Silty SAND; (SM); gray; wet; 15% Silt, 85% Sand.		
		MW-8- 19.5		20	SP		**Poorly Graded SAND**; (SP); Grayish brown; wet; 10% Silt, 90% Sand.	19.0 20.0	Bottom of Boring @ 20 ft

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-9
JOB/SITE NAME	Shell-Branded Service Station	**DRILLING STARTED**	28-Jan-03
LOCATION	610 Market, Oakland CA	**DRILLING COMPLETED**	28-Jan-03
PROJECT NUMBER	244-0594	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	10"	**SCREENED INTERVAL**	5 to 20.01 ft bgs
LOGGED BY	J. Gerke	**DEPTH TO WATER (First Encountered)**	12.5 ft (18-Jan-03)
REVIEWED BY	M. Derby, PE# 55475	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5' bgs.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Surface Planter with debris.; Dark brown; damp; 25% Clay, 40% Silt, 35% Sand.	0.4	Portland Type I/II Cement
							Silty SAND; (SM); Reddish brown to gray; damp; 5% Clay, 40% Silt, 55% Sand.		Bentonite Seal
		MW-9-5.5		5			Silty SAND; (SM); 5% Clay, 35% Silt, 60% Sand.		
		MW-9-10.5		10	SM		Silty SAND; (SM); Brown with 35% gray mottling; moist; 5% Clay, 45% Silt, 50% Sand.		Monterey Sand #2/16 4"-diam., 0.010" Slotted Schedule 40 PVC
		MW-9-15.5		15			Silty SAND; (SM); Wet; 35% Silt, 65% Sand.		
		MW-9-19.0		20			Silty SAND; (SM); Wet; 20% Silt, 80% Sand.	20.0	Bottom of Boring @ 20 ft

WELL LOG (PID) G:\OAKLAND 610 MARKET\GINT\OAK610.GPJ DEFAULT.GDT 3/12/03

BORING LOG

Client: **Shell Oil Products Company**

Project No: **240-0594** Phase Task **2**

Boring ID **SB-A**

Location **610 Market Street, Oakland**

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			Asphalt				0	
				Silty SAND: (SM); brown; loose; dry; 15% silt, 85% fine to medium sand; moderate estimated permeability.					
5								5	
10				grey; damp; 15% silt, 85% fine sand.				10	
15								15	Water encountered @ 14 ft.
									Bottom of boring @ 16 ft.
20								20	
25								25	
30								30	

Driller **Gregg Drilling**

Logged By **Aubrey Cool**

Water-Bearing Zones **NA**

Drilling Started **3/31/98**

Drilling Completed **3/31/98**

Grout Type **Portland Type I/II**

Notes: **See site map.**

BOR 24594 3/31/98

Cambria Environmental Technology, Inc.

BORING LOG

Client: **Shell Oil Products Company**

Project No: **240-0594** Phase Task **2**

Boring ID **SB-B**

Location **610 Market Street, Oakland**

Surface Elev. **NA ft.**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description
0	Ground Surface		
			Asphalt
			SAND; (SW); brown to grey; loose; moist; 5% silt, 95% fine to medium sand; high estimated permeability.
			brown; damp; 10% silt, 90% fine to medium sand; moderate estimated permeability.
5			
			grey.
10			**Silty SAND**; (SM); grey; loose; wet; 15% silt, 85% fine sand; moderate estimated permeability.
			brown to grey; 15% silt, 85% fine to medium sand.
15			
20			
25			
30			

TPHg (ppm) | Graphic Log | Boring Completion Graphics

Depth (feet)	Additional Comments
0	
5	
10	Water encountered @ 10.5 ft.
15	Bottom of boring @ 15 ft.
20	
25	
30	

Driller **Gregg Drilling**

Logged By **Aubrey Cool**

Water-Bearing Zones **NA**

Drilling Started **3/31/98**

Drilling Completed **3/31/98**

Grout Type **Portland Type I/II**

Notes: **See site map.**

BOR 24594 3/31/98

Cambria Environmental Technology, Inc.

BORING LOG

Client: **Shell Oil Products Company**

Project No: **240-0594** Phase Task **2**

Boring ID **SB-C**

Location **610 Market Street, Oakland**

Surface Elev. **NA ft,**

Depth (feet)	Blow Count	Sample	Interval	Lithologic Description
0	Ground Surface			
				Asphalt
				SAND; (SW); brown; loose; damp; 10% silt, 90% fine to medium sand; moderate to high estimated permeability.
5				
				Silty SAND; (SM); brown; loose; moist; 15% silt, 85% fine to medium sand; moderate to high estimated permeability. wet.
10				moist; 20% silt, 80% fine sand; moderate estimated permeability.
15				
20				no recovery.
25				
30				

TPHg (ppm) | Graphic Log | Boring Completion Graphics

Depth (feet)	Additional Comments
0	
5	
10	Water encountered @ 7 ft.
15	
20	
25	Bottom of boring @ 26 ft.
30	

Driller **Gregg Drilling**

Logged By **Aubrey Cool**

Water-Bearing Zones **NA**

Drilling Started **3/31/98**

Drilling Completed **3/31/98**

Grout Type **Portland Type I/II**

Notes: **See site map.**

BOR 24594 3/31/98

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Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-D
JOB/SITE NAME	Shell-Branded Service Station	DRILLING STARTED	16-Apr-02
LOCATION	610 Market, Oakland CA	DRILLING COMPLETED	16-Apr-02
PROJECT NUMBER	244-0594	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	J. Gerke	DEPTH TO WATER (First Encountered)	13.7 ft (16-Apr-02)
REVIEWED BY	D. Lundquist, PE	DEPTH TO WATER (Static)	NA

REMARKS: Hand augered to 5' bgs. Located approximately 20 feet northwest of dispesnser D5/D6.

MTBE (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							FILL.	0.9	
							Silty SAND; (SM); brown; damp; 3% clay, 12% silt, 85% fine grained sand; no plasticity.		
<0.5		SB-D-5.0		5					
					SM				Portland Type I/II Cement
<0.5		SB-D-10.0		10					
<0.5		SB-D-11.5					@ 11.1 fbg - brown with gray mottling; moist; 5% clay, 25% silt, 70% fine grained sand.		
				15			@ 16.0 fbg - bluish gray; wet; 7% clay, 28% silt, 65% fine grained sand; odor.		
								18.8	
					SP		SAND; (SP); bluish gray; wet; 3% clay, 7% silt, 90% fine grained sand; no plasticity; odor.		
				20				20.0	Bottom of Boring @ 20 ft

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	SB-E
JOB/SITE NAME	Shell-Branded Service Station	**DRILLING STARTED**	16-Apr-02
LOCATION	610 Market, Oakland CA	**DRILLING COMPLETED**	16-Apr-02
PROJECT NUMBER	244-0594	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	J. Gerke	**DEPTH TO WATER (First Encountered)**	13.0 ft (16-Apr-02) ▽
REVIEWED BY	D. Lundquist, PE	**DEPTH TO WATER (Static)**	NA ▼

REMARKS Hand augered to 5' bgs. Located approximately 5 feet southwest of dispenser D1/D2.

MTBE (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT.	0.4	
					SP		**SAND**; (SP); bluish gray; damp; 5% clay, 10% silt, 80% fine grained sand; no plasticity.	3.5	
6.1		SB-E-5.0		5	SM		**Silty SAND**; (SM); brown; damp; 10% clay, 15% silt, 75% fine grained sand; no plasticity; odor.	6.5	
2.7		SB-E-10.0		10	SP		**SAND**; (SP); bluish gray; moist; 3% clay, 7% silt, 90% fine grained sand; no plasticity; odor.	12.0	◄ Portland Type I/II Cement
4.8		SB-E-12.5		15	SM		**Silty SAND**; (SM); brown; moist; 3% clay, 17% silt, 80% fine grained sand; no plasticity; odor. ▽ @ 13 fbg - wet.	16.0	Bottom of Boring @ 16 ft

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BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	SB-F
JOB/SITE NAME	Shell-Branded Service Station	**DRILLING STARTED**	16-Apr-02
LOCATION	610 Market, Oakland CA	**DRILLING COMPLETED**	16-Apr-02
PROJECT NUMBER	244-0594	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	J. Gerke	**DEPTH TO WATER (First Encountered)**	11.7 ft (16-Apr-02) ▽
REVIEWED BY	D. Lundquist, PE	**DEPTH TO WATER (Static)**	NA ▼

REMARKS Hand augered to 5' bgs. Located approximately 27 feet south of well MW-3, near the south corner of the site.

MTBE (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT.	0.6	
							Silty SAND; (SM); brown; damp; 5% clay, 15% silt, 80% fine grained sand.		
<0.5		SB-F-5.0		5	SM		@ 5.0 fbg - brown with light gray mottling.		Portland Type I/II Cement
							@ 8.0 fbg - moist, odor.		
<0.5		SB-F-10.0		10			@ 9.8 fbg - bluish gray; 5% clay, 15% silt, 80% sand.		
<0.5		SB-F-11.2					@ 11.7 fbg - wet; 15% silt, 85% sand. ▽	12.0	Bottom of Boring @ 12 ft

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