

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director



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

July 15, 2015

Perry Pineda
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039
(Sent via E-mail to: perry.pineda@shell.com)

Chris Panaitescu
Orkin dba Thrifty Oil Company
13116 Imperial Highway
Santa Fe Springs, CA 90670-00138
(Sent via E-mail to: panaitescu@thriftyoil.com)

Subject: Case Closure for Fuel Leak Case No. RO0000026 and GeoTracker Global ID T0600101270,
Shell#13-5699, 5755 Broadway, Oakland, CA 94618

Dear Mr. Pineda and Mr. Panaitescu:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25296.10[g]). 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>).

Due to residual contamination, the site was closed with Site Management Requirements that limit future land use to the current commercial land use. Site Management Requirements are further described in Additional Information of the attached Case Closure Summary.

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

Sincerely,

Dilan Roe, P.E.
LOP and SCP Program Manager

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

Responsible Parties
RO0000026
July 15, 2015
Page 2

Cc w/enc.:

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

Gopakumar Nair, City of Oakland Public Works Environmental Services, 250 Frank Ogawa Plaza,
Suite 4314, Oakland, CA 94612 (Sent via E-mail to: gnair@oaklandnet.com)

Bruce Miller, P.O. Box 11165, Oakland, CA 94611

Simon Tregurtha, Thrifty Oil Company, 13116 Imperial Highway, Santa Fe Springs, CA 90670-00138
(Sent via E-mail to: tregurtha@thriftyoil.com)

Jerry Wickham, ACEH (Sent via E-mail to: jerry.wickham@acgov.org)
GeoTracker, eFile

ALAMEDA COUNTY
**HEALTH CARE SERVICES
AGENCY**

ALEX BRISCOE, Agency Director



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

REMEDIAL ACTION COMPLETION CERTIFICATION

July 15, 2015

Perry Pineda
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039
(Sent via E-mail to: perry.pineda@shell.com)

Chris Panaitescu
Orkin dba Thrifty Oil Company
13116 Imperial Highway
Santa Fe Springs, CA 90670-00138
(Sent via E-mail to: panaitescu@thriftyoil.com)

Subject: Case Closure for Fuel Leak Case No. RO0000026 and GeoTracker Global ID T0600101270, Shell#13-5699, 5755 Broadway, Oakland, CA 94618

Dear Mr. Pineda and Mr. Panaitescu:

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

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

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

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

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

Sincerely,

Ronald Browder
Acting Director
Department of Environmental Health

UST Case Closure Summary Form

Agency Information

Date: March 30, 2015

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

Case Information

Facility Name: Shell#13-5699/Thrifty Oil #38		
Facility Address: 5755 Broadway, Oakland, CA 94618		
RB LUSTIS Case No: ----	Local Case No.: ---	LOP Case No.: RO000026
URF Filing Date: 02/28/1991	GeoTracker Global ID: T0600101270	
APN: 48A-7050-4-1	Current Land Use: Active fueling station	
Responsible Party(s):	Address:	Phone:
Perry Pineda Shell Oil Products US	20945 S. Wilmington Ave. Carson, CA 90810-1039	
Chris Panaitescu Orkin dba Thrifty Oil Company	13116 Imperial Highway Santa Fe Springs, CA 90670	

Tank Information

Tank No.	Size (gal)	Contents	Closed in-Place/ Removed/Active	Date
1	10,000 gallons	Gasoline	Removed	12/17/2004
2	10,000 gallons	Gasoline	Removed	12/17/2004
3	10,000 gallons	Gasoline	Removed	12/17/2004

Conceptual Site Model (Attachment 1, 2 pages)

Closure Criteria Met (Attachment 2, 1 page)

LTCP Groundwater Specific Criteria (Attachment 3, 1 page)

LTCP Vapor Specific Criteria (Attachment 4, 1 page)

LTCP Direct Contact and Outdoor Air Exposure Criteria (Attachment 5, 1 page)

Optional Site Map(s) (Attachment 6, 5 pages)

Analytical Data (Attachment 7, 23 pages)

UST Case Closure Summary Form

Additional Information:

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). Elevated concentrations of petroleum hydrocarbons were detected in soil vapor beneath the site. Under the current land use as an active fueling station, the site is not required to meet media-specific criteria for vapor intrusion to indoor air. 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 redevelopment occurs, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. Due to the potential for vapor intrusion to indoor air for future buildings, 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.

Additional Comments: Benzene was detected in one soil vapor sample (VP-1) collected beneath the site at a concentration of 370,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). If the site is redeveloped in the future, the potential for vapor intrusion should be evaluated. Shallow soil vapor samples were also collected beneath the concrete walkway of the apartment building at the adjacent property of 5606 Taft Avenue. Benzene was not detected above a reporting limit of 16 micrograms per cubic meter in the two soil vapor samples collected at 5606 Taft Avenue. Total petroleum hydrocarbons as gasoline and tert butyl alcohol (TBA) were detected in the soil vapor samples collected from 5606 Taft Avenue at concentrations of 10,000 and 1,800 $\mu\text{g}/\text{m}^3$, respectively, which are below residential human health screening levels for these chemicals.

RWQCB Notification

Notification Date: February 5, 2015

RWQCB Staff Name: Cherie McCaulou	Title: Engineering Geologist
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Local Agency Representative

Prepared by: Jerry Wickham	Title: Senior Hazardous Materials Specialist
Signature: 	Date: 5/28/2015
Approved by: Dylan Roe	Title: LOP and SCP Program Manager
Signature: 	Date: 5/28/2015

This Case Closure Summary along with the Case Closure Transmittal letter and the Remedial Action Completion Certification provides documentation of the case closure. 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. The Conceptual Site Model may not contain all available data. Additional information on the case can be viewed in the online case file. The entire case file can be viewed over the Internet on the Alameda County Environmental Health (ACEH) website (<http://www.acgov.org/aceh/lop/ust.htm>) or the State of California Water Resources Control Board GeoTracker website (<http://geotracker.waterboards.ca.gov>). Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the ACEH website.

ATTACHMENT 1

CSM REPORT FOR PUBLIC NOTICING

PROJECT INFORMATION (DATA PULLED FROM GEOTRACKER) - [MAP THIS SITE](#)

<u>SITE NAME / ADDRESS</u>	<u>STATUS</u>	<u>STATUS DATE</u>	<u>RELEASE REPORT DATE</u>	<u>AGE OF CASE</u>	<u>CLEANUP OVERSIGHT AGENCIES</u>
SHELL #13-5699 / THRIFTY OIL #38 (Global ID: T0600101270) 5755 BROADWAY OAKLAND, CA 94618	Open - Eligible for Closure	2/5/2015	2/28/1991	24	ALAMEDA COUNTY LOP (LEAD) - CASE #: RO0000026 CASEWORKER: Jerry Wickham - SUPERVISOR: DILAN ROE SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-1375 CASEWORKER: Cherie McCaulou - SUPERVISOR: Cheryl L. Prowell

SITE HISTORY

A defective pipe fitting was replaced in December 1992. Approximately 200 gallons of product was estimated to have been released. Tank backfill wells were purged daily from December 24, 1992 through January 7, 1993. An estimated 40,000 gallons of water mixed with gasoline were pumped from the backfill wells. The sanitary sewer system was replaced with piping that is resistant to hydrocarbons and a horizontal well was installed in 1993. Interim remediation activities consisting of groundwater extraction took place between 2001 and 2003. Fuel system upgrades took place in 2004 and 2005.

Site investigation, cleanup, and groundwater monitoring activities have been completed and site is under consideration for potential case closure.

RESPONSIBLE PARTIES

<u>NAME</u>	<u>ORGANIZATION</u>	<u>ADDRESS</u>	<u>CITY</u>	<u>EMAIL</u>
DENIS BROWN	SHELL OIL PRODUCTS US	20945 S WILMINGTON AVE	CARSON	
SIMON TREGURTHA	Thrifty Oil Co / Golden West Refining Co	13116 IMPERIAL HWY	SANTA FE SPRINGS	tregurtha@thriftyoil.com

CLEANUP ACTION INFO

<u>ACTION TYPE</u>	<u>BEGIN DATE</u>	<u>END DATE</u>	<u>PHASE</u>	<u>CONTAMINANT MASS REMOVED</u>	<u>DESCRIPTION</u>
OTHER (USE DESCRIPTION FIELD)	10/28/2003	11/10/2004	Water		A horizontal groundwater well and grout barrier was installed in a sewer trench to prevent off-site migration.
SOIL VAPOR EXTRACTION (SVE)	2/7/2001	2/7/2001			Dual-phase vacuum extraction event
EXCAVATION	3/1/1993	6/2/1993	Soil		Approximately 126 cubic yards of soil were excavated during sewer upgrade activities.

RISK INFORMATION[VIEW LTCP CHECKLIST](#)[VIEW PATH TO CLOSURE PLAN](#)[VIEW CASE REVIEWS](#)

<u>CONTAMINANTS OF CONCERN</u>	<u>CURRENT LAND USE</u>	<u>BENEFICIAL USE</u>	<u>DISCHARGE SOURCE</u>	<u>DATE REPORTED</u>	<u>STOP METHOD</u>	<u>NEARBY / IMPACTED WELLS</u>	
Gasoline	Commercial	GW - Municipal and Domestic Supply		2/28/1991	Other Means	0	
<u>FREE PRODUCT</u>	<u>OTHER CONSTITUENTS</u>	<u>NAME OF WATER SYSTEM</u>	<u>LAST REGULATORY ACTIVITY</u>	<u>LAST ESI UPLOAD</u>	<u>LAST EDF UPLOAD</u>	<u>EXPECTED CLOSURE DATE</u>	<u>MOST RECENT CLOSURE REQUEST</u>
NO	NO	EBMUD	2/5/2015	2/11/2015	11/14/2014		12/22/2014

CDPH WELLS WITHIN 1500 FEET OF THIS SITE

NONE

CALCULATED FIELDS (BASED ON LATITUDE / LONGITUDE)

<u>APN</u>	<u>GW BASIN NAME</u>	<u>WATERSHED NAME</u>
048A705000401		South Bay - East Bay Cities (204.20)
<u>COUNTY</u>	<u>PUBLIC WATER SYSTEM(S)</u>	
Alameda	• EAST BAY MUD - 375 ELEVENTH STREET, OAKLAND, CA 94607	

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN GROUNDWATER - [SHOWHIDE](#) [VIEW ESI SUBMITTALS](#)

FIELD PT NAME	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE	TBA
H-1	2/11/2014	OTHER	53 UG/L	0.72 UG/L	13 UG/L	19 UG/L	27 UG/L	
S-1	8/29/2014	OTHER	ND	ND	ND	ND	4.6 UG/L	ND
S-2	8/29/2014	OTHER	250 UG/L	ND	ND	ND	96 UG/L	520 UG/L
S-3	8/29/2014	OTHER	ND	ND	ND	ND	ND	ND
T-2	8/12/2004		ND	ND	ND	ND	33 UG/L	
TP-1	12/17/2004	640 UG/L	11 UG/L	3.2 UG/L	6.1 UG/L	47 UG/L	38 UG/L	8.7 UG/L

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN SOIL - [SHOWHIDE](#) [VIEW ESI SUBMITTALS](#)

FIELD PT NAME	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE	TBA
CRA-1A	9/9/2013		ND	ND	ND	ND		
DS-1	2/24/2005		ND	ND	ND	0.034 MG/KG	0.035 MG/KG	0.06 MG/KG
DS-2	2/24/2005		ND	ND	13 MG/KG	24 MG/KG	1.7 MG/KG	ND
DS-3	2/24/2005		ND	ND	0.0073 MG/KG	0.013 MG/KG	0.13 MG/KG	0.13 MG/KG
DS-4	2/24/2005		ND	ND	ND	0.066 MG/KG	ND	0.093 MG/KG
P-1	2/24/2005	0.66 MG/KG	ND	ND	5.2 MG/KG	8.2 MG/KG	1.9 MG/KG	ND
P-2	2/24/2005		ND	ND	1.5 MG/KG	6 MG/KG	ND	ND
P-3	2/24/2005		ND	ND	4.1 MG/KG	3.9 MG/KG	0.61 MG/KG	ND
SB-12	11/18/2005		ND	ND	ND	ND	ND	ND
SB-13	11/18/2005		ND	ND	0.84 MG/KG	1.9 MG/KG	ND	ND
SB-14	11/18/2005		ND	ND	ND	ND	ND	ND
SP-1	11/18/2005		ND	ND	0.013 MG/KG	0.022 MG/KG		
SP-2	11/22/2004		ND	ND	ND	0.012 MG/KG		
SP-3	1/31/2005		ND	ND	ND	ND		
SP-5	2/1/2005		ND	ND	3.7 MG/KG	ND		
SP-6	2/1/2005		ND	ND	4.2 MG/KG	12 MG/KG		
SP-7	4/4/2005		ND	ND	ND	ND		
SP-8	6/10/2005		ND	ND	ND	ND		
TP-1	1/31/2005		ND	ND	ND	ND	ND	ND
TP-2	1/31/2005		ND	ND	ND	ND	ND	ND
TP-3	1/31/2005		ND	ND	ND	ND	0.082 MG/KG	ND
TP-4	1/31/2005		ND	ND	ND	ND	ND	ND
TP-5	2/9/2005		ND	ND	ND	ND	ND	ND
TP-6	2/9/2005		ND	ND	ND	ND	ND	ND
TP-7	2/9/2005		ND	ND	ND	ND	ND	ND
TP-8	2/9/2005		ND	ND	ND	ND	ND	ND
VP-1	9/9/2013		0.0072 MG/KG	ND	0.24 MG/KG	0.27 MG/KG	0.32 MG/KG	
VP-2	9/9/2013		ND	ND	ND	ND	ND	

MOST RECENT GEO_WELL DATA - [SHOWHIDE](#) [VIEW ESI SUBMITTALS](#)

FIELD PT NAME	DATE	DEPTH TO WATER (FT)	SHEEN	DEPTH TO FREE PRODUCT (FT)
H-1	8/29/2014	5.74	N	
S-1	8/29/2014	4.18	N	
S-2	8/29/2014	4.29	N	
S-3	8/29/2014	4.37	N	
T-1	5/5/2006			
T-2	5/5/2006			
T-3	5/5/2006			

ATTACHMENT 2

LTCP Checklist

[GEOTRACKER HOME](#) | [MANAGE PROJECTS](#) | [REPORTS](#) | [SEARCH](#) | [LO](#)

SHELL #13-5699 / THRIFTY OIL #38 (T0600101270) - [MAP THIS SITE](#)

OPEN - ELIGIBLE FOR CLOSURE

5755 BROADWAY
OAKLAND, CA 94618
ALAMEDA COUNTY

[ACTIVITIES REPORT](#)
[PUBLIC WEBPAGE](#)

[VIEW PRINTABLE CASE SUMMARY FOR THIS SITE](#)

CLEANUP OVERSIGHT AGENCIES

ALAMEDA COUNTY LOP (LEAD) - CASE #: R00000026
CASEWORKER: [Jerry Wickham](#) - SUPERVISOR: [DILAN ROE](#)
SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-1375
CASEWORKER: [Cherie McCaulou](#) - SUPERVISOR: [Cheryl L. Prowell](#)

CUF Claim #: 4949 CUF Priority Assigned: D CUF Amount Paid: [\\$280,613](#)

CR Site ID #: NOT SPECIFIED

THIS PROJECT WAS LAST MODIFIED BY [JERRY WICKHAM](#) ON 2/5/2015 3:42:58 PM - [HISTORY](#)

THIS SITE HAS SUBMITTALS. CLICK [HERE](#) TO OPEN A NEW WINDOW WITH THE SUBMITTAL APPROVAL PAGE FOR THIS SITE.

CLOSURE POLICY

THIS VERSION IS FINAL AS OF 2/5/2015

CHECKLIST INITIATED ON 1/14/2013

[CLOSURE POLICY HISTO](#)

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

a. Is the unauthorized release located within the service area of a public water system?

Name of Water System:

EBMUD

YES

b. The unauthorized release consists only of petroleum ([info](#)).

YES

c. The unauthorized ("primary") release from the UST system has been stopped.

YES

d. Free product has been removed to the maximum extent practicable ([info](#)).

FP Not Encountered YES

e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed ([info](#)).

YES

f. Secondary source has been removed to the extent practicable ([info](#)).

YES

g. Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15.

Not Required YES

h. Does a nuisance exist, as defined by [Water Code section 13050](#).

YES

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

EXEMPTION - Soil Only Case (Release has not Affected Groundwater - [Info](#))

YES

Does the site meet any of the Groundwater specific criteria scenarios?

YES

1.2 - The contaminant plume that exceeds water quality objectives is <250 feet in length. There is no free product. The nearest existing water supply well or surface water body is >1,000 feet from the defined plume boundary. The dissolved concentration of benzene is <3,000 µg/L. The dissolved concentration of MTBE is <1,000 µg/L.

YES

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

EXEMPTION - Active Commercial Petroleum Fueling Facility

YES

3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure - The site is considered low-threat for direct contact and outdoor air exposure if it meets 1, 2, or 3 below. - [CLEAR SECTION ANSWERS](#)

EXEMPTION - The upper 10 feet of soil is free of petroleum contamination

YES

Does the site meet any of the Direct Contact and Outdoor Air Exposure criteria scenarios?

YES

3.1 - Maximum concentrations of petroleum constituents in soil are less than or equal to those listed in the following table ([LINK](#)) for the specified depth below ground surface.

YES

Additional Information

This case should be kept OPEN in spite of meeting policy criteria.

YES

Has this LTCP Checklist been updated for FY 14/15?

YES

[SPELL CHECK](#)

LOGGED IN AS JMWCKHAM

[CONTACT GEOTRACKER](#)

ATTACHMENT 3

**ATTACHMENT 3
LTCP GROUNDWATER SPECIFIC CRITERIA**

LTCP Groundwater Specific Scenario under which case was closed: Scenario 2

Site Data		LTCP Scenario 1 Criteria	LTCP Scenario 2 Criteria	LTCP Scenario 3 Criteria	LTCP Scenario 4 Criteria
Plume Length	120 feet	<100 feet	<250 feet	<250 feet	<1,000 feet
Free Product	No free product	No free product	No free product	Removed to maximum extent practicable	No free product
Plume Stable or Decreasing	Decreasing	Stable or decreasing	Stable or decreasing	Stable or decreasing for minimum of 5 Years	Stable or decreasing
Distance to Nearest Water Supply Well	1,700 feet	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet
Distance to Nearest Surface Water and Direction	1,100 feet upgradient	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet
Property Owner Willing to Accept a Land Use Restriction?	Not applicable for groundwater specific criteria; however, see Site Management Requirements in Additional Information.	Not applicable	Not applicable	Yes	Not applicable

GROUNDWATER CONCENTRATIONS

Constituent	Historic Site Maximum (µg/L)	Current Site Maximum (µg/L)	LTCP Scenario 1 Criteria (µg/L)	LTCP Scenario 2 Criteria (µg/L)	LTCP Scenario 3 Criteria (µg/L)	LTCP Scenario 4 Criteria (µg/L)
Benzene	1,500	250	No criteria	<3,000	No criteria	<1,000
MTBE	51,000	96	No criteria	<1,000	No criteria	<1,000

Scenario 5: If the site does not meet scenarios 1 through 4, has a determination been made that under current and reasonably expected future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame?

Water Supply Wells in Vicinity: There are no water supply wells within 1,000 feet of the site. The nearest well is a domestic well approximately 1,700 feet north (upgradient) of the site.

ATTACHMENT 4

**ATTACHMENT 4
LTCP VAPOR SPECIFIC CRITERIA**

LTCP Vapor Specific Scenario under which case was closed: Active fueling station exempt from vapor specific criteria

Active Fueling Station		Active as of December 12, 2015					
Site Data		LTCP Scenario 1 Criteria	LTCP Scenario 2 Criteria	LTCP Scenario 3A Criteria	LTCP Scenario 3B Criteria	LTCP Scenario 3C Criteria	LTCP Scenario 4 Criteria
Unweathered LNAPL	No LNAPL	LNAPL in groundwater	LNAPL in soil	No LNAPL	No LNAPL	No LNAPL	No criteria
Thickness of Bioattenuation Zone Beneath Foundation	<3 feet	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥5 feet	≥5 feet
Total TPH in Soil in Bioattenuation Zone	1,300 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg	<100 mg/kg
Maximum Current Benzene Concentration in Groundwater	250 µg/L	No criteria	No criteria	<100 µg/L	≥100 and <1,000 µg/L	<1,000 µg/L	No criteria
Oxygen Data within Bioattenuation Zone	No oxygen data	No criteria	No criteria	No oxygen data or <4%	No oxygen data or <4%	≥4% at lower end of zone	≥4% at lower end of zone
Depth of soil vapor measurement beneath foundation	3 feet	No criteria	No criteria	No criteria	No criteria	No criteria	≥5 feet

SCENARIO 4 DIRECT MEASUREMENT OF SOIL VAPOR CONCENTRATIONS

Site Soil Vapor Data			No Bioattenuation Zone		Bioattenuation Zone	
Constituent	Historic Maximum (µg/m ³)	Current Maximum (µg/m ³)	Residential	Commercial	Residential	Commercial
Benzene	370,000	370,000	<85	<280	<85,000	<280,000
Ethylbenzene	180	180	<1,100	<3,600	<1,100,000	<3,600,000
Naphthalene	<210,000	<210,000	<93	<310	<93,000	<310,000

If the site does not meet scenarios 1 through 4, does a site-specific risk assessment for the vapor intrusion pathway demonstrate that human health is protected? -----

If the site does not meet scenarios 1 through 4, has a determination been made that petroleum vapors from soil or groundwater will have no significant risk of adversely affecting human health? -----

Comments: Benzene was detected in one soil vapor sample (VP-1) collected beneath the site at a concentration of 370,000 micrograms per cubic meter (µg/m³). If the site is redeveloped in the future, the potential for vapor intrusion should be evaluated. Shallow soil vapor samples were also collected beneath the concrete walkway of the apartment building at the adjacent property of 5606 Taft Avenue. Benzene was not detected above a reporting limit of 16 micrograms per cubic meter in the two soil vapor samples collected at 5606 Taft Avenue. Total petroleum hydrocarbons as gasoline was detected in the soil vapor samples collected from 5606 Taft Avenue at concentrations of 10,000 and 1,800 µg/m³, respectively, which are below residential human health screening levels for these chemicals.

ATTACHMENT 5

**ATTACHMENT 5
LTCP DIRECT CONTACT AND OUTDOOR AIR EXPOSURE CRITERIA**

LTCP Direct Contact and Outdoor Air Exposure Specific Scenario under which case was closed: Maximum concentrations of petroleum hydrocarbons are less than or equal to those in Table 1 below

Are maximum concentrations less than those in Table 1 below? **Yes**

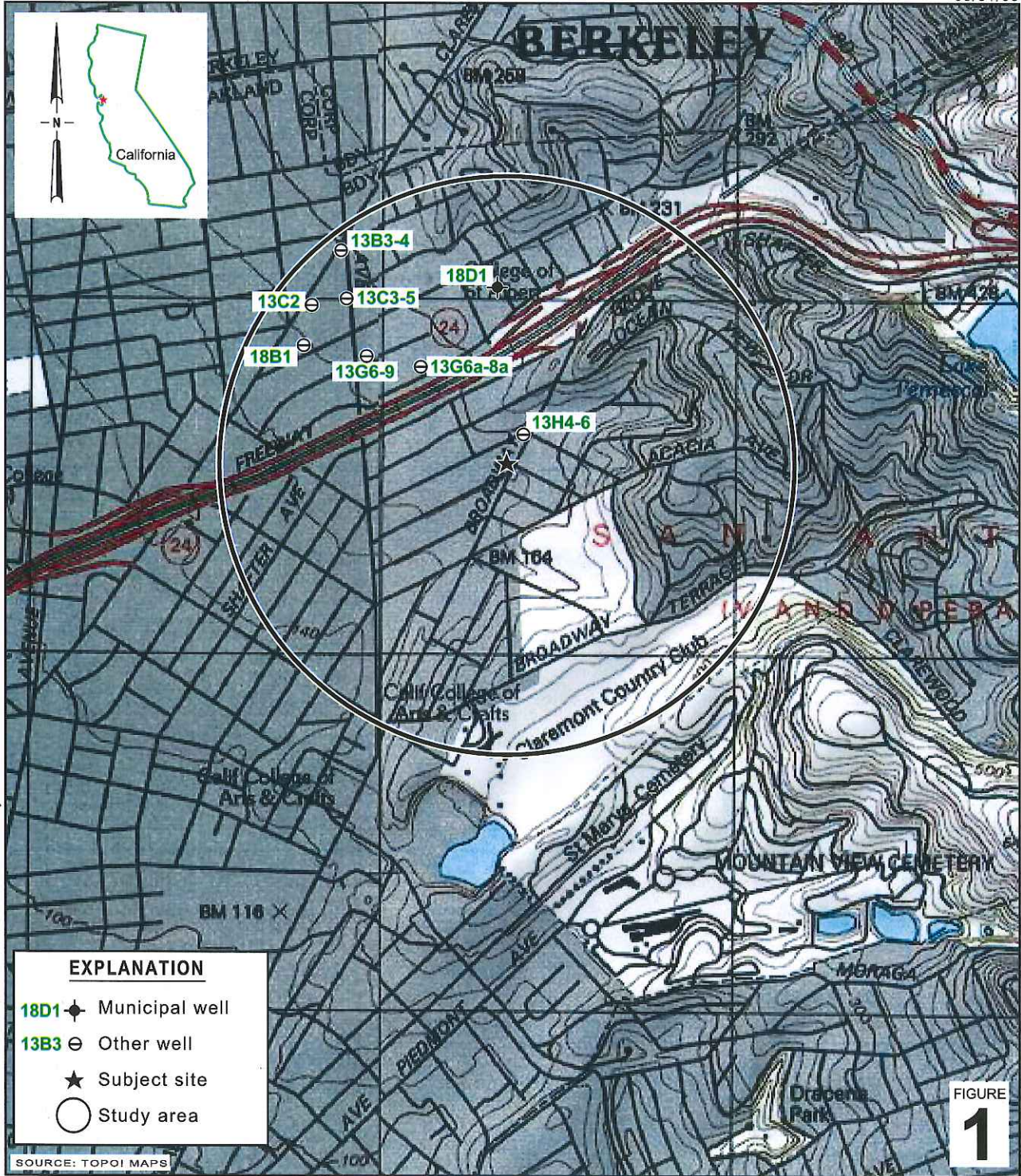
Constituent		Residential		Commercial/Industrial		Utility Worker
		0 to 5 feet bgs (mg/kg)	Volatilization to outdoor air (5 to 10 feet bgs) mg/kg	0 to 5 feet bgs (mg/kg)	Volatilization to outdoor air (5 to 10 feet bgs) mg/kg	0 to 10 feet bgs (mg/kg)
Site Maximum	Benzene	1.8	0.99	1.8	0.99	1.8
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14
Site Maximum	Ethylbenzene	13	13	13	13	13
LTCP Criteria	Ethylbenzene	≤21	≤32	≤89	≤134	≤314
Site Maximum	Naphthalene	----	----	----	----	----
LTCP Criteria	Naphthalene	≤9.7	≤9.7	≤45	≤45	≤219
Site Maximum	PAHs	----	----	----	----	----
LTCP Criteria	PAHs	≤0.063	NA	≤0.68	NA	≤4.5

If maximum concentrations are greater than those in Table 1, are they less than levels from a site-specific risk assessment? -----

If maximum concentrations are greater than those in Table 1, has a determination been made that the concentrations of petroleum in soil will have no significant risk of adversely affecting human health as a result of controlling exposure through the use of mitigation measures or through the use of institutional controls? -----

Comments: -----

ATTACHMENT 6

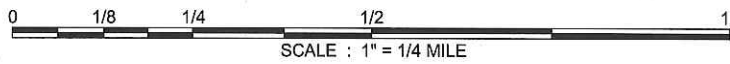


EXPLANATION	
18D1	Municipal well
13B3	Other well
★	Subject site
○	Study area

FIGURE 1

I:\16-chars\2404--\240483-Oakland 5755 Broadway\240483-FIGURES\240483 VICINITY.AI

SOURCE: TOPOI MAPS

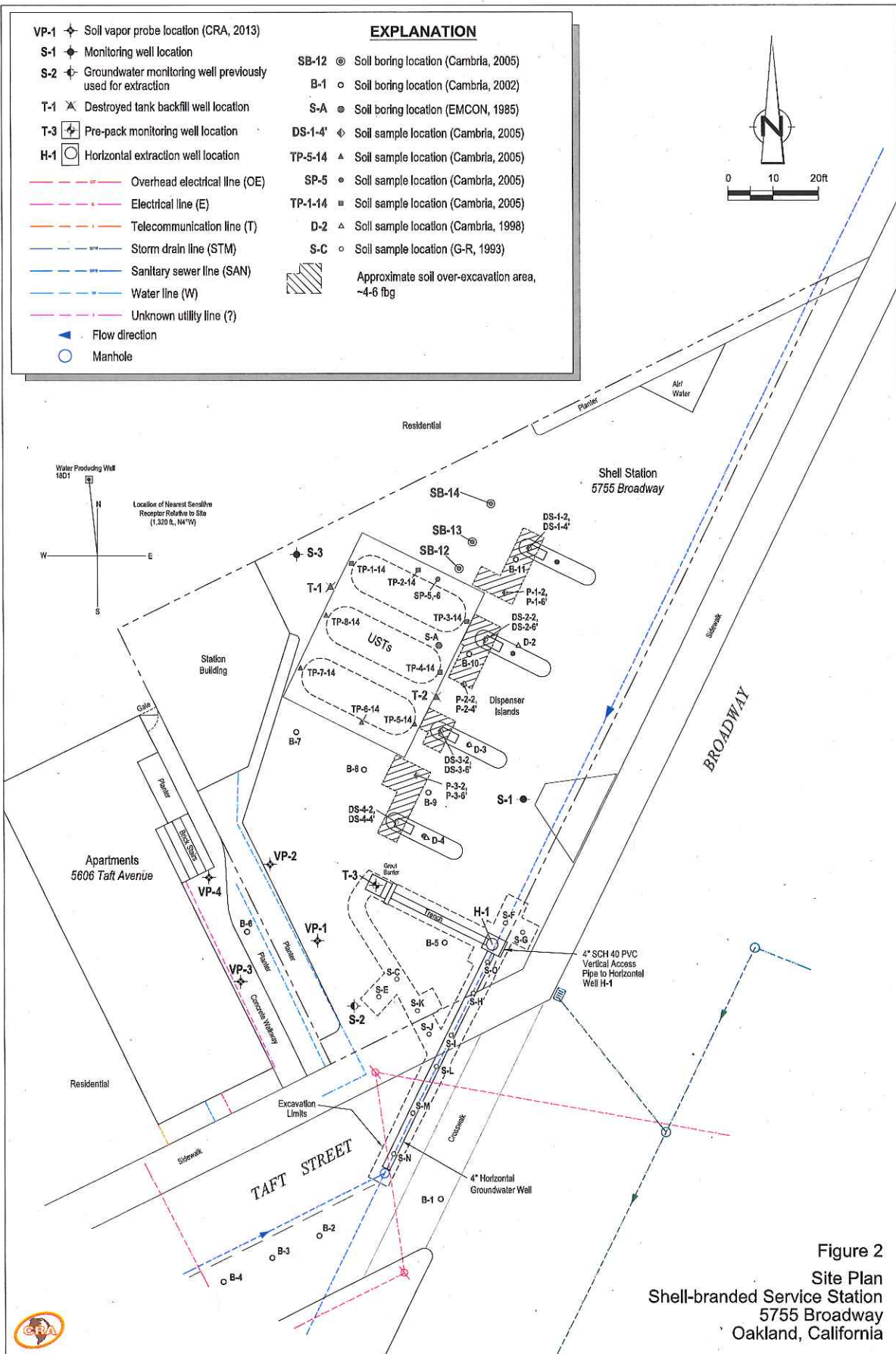


Shell-branded Service Station
 5755 Broadway
 Oakland, California



**CONESTOGA-ROVERS
 & ASSOCIATES**

Vicinity Map



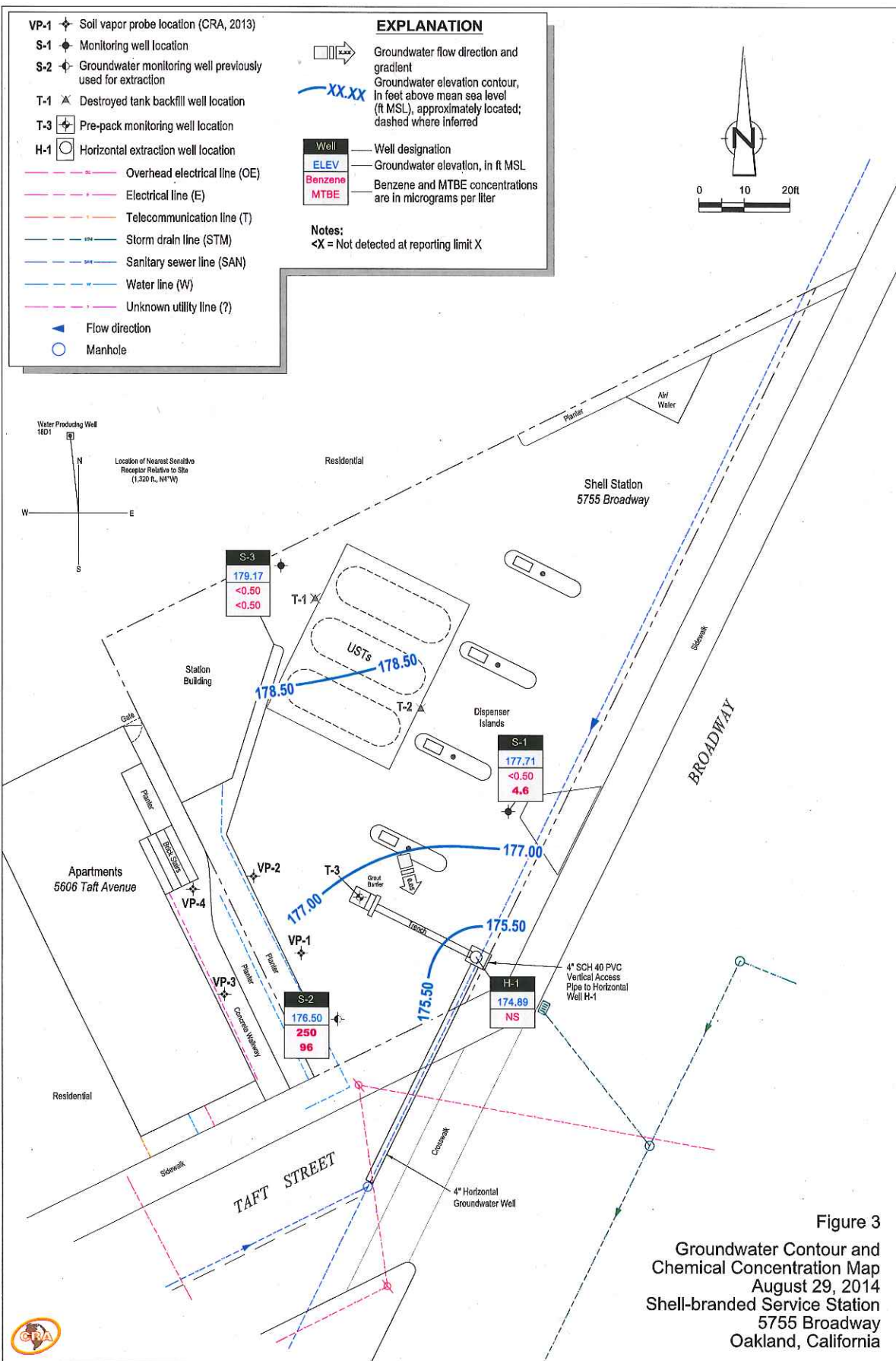


Figure 3
 Groundwater Contour and
 Chemical Concentration Map
 August 29, 2014
 Shell-branded Service Station
 5755 Broadway
 Oakland, California

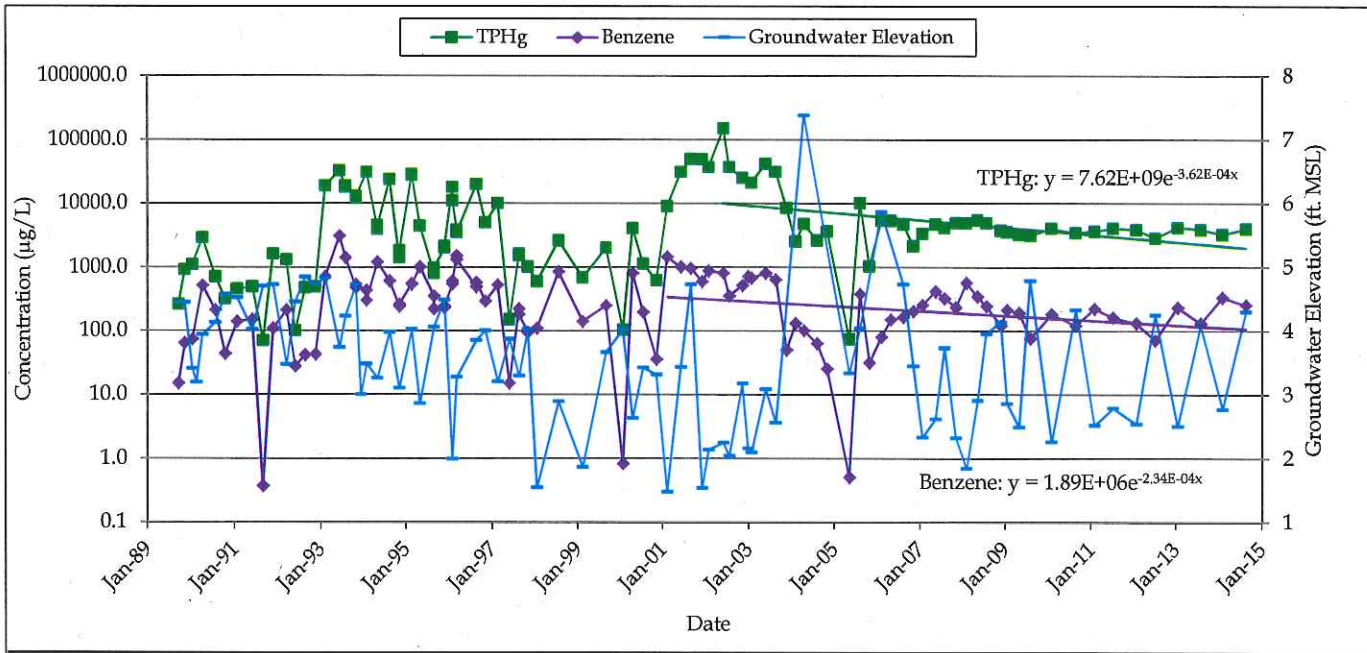
Predicted Time to Reach Water Quality Objective (WQO) in Well S-2
Shell-Branded Service Station, 5755 Broadway, Oakland, California

$$y = be^{ax} \quad \implies \quad x = \ln(y/b) / a$$

where: y = concentration in µg/L a = decay constant
 b = concentration at time (x) x = time (x) in days

Given	Constituent	Total Petroleum Hydrocarbons as Gasoline (TPHg)	Benzene
Water Quality Objective (WQO):	y	500	27
Constant:	b	7.62E+09	1.89E+06
Constant:	a	-3.62E-04	-2.34E-04
Starting date for current trend:		6/4/2002	2/12/2001

Calculate		TPHg	Benzene
Attenuation Half Life (years):	$(-\ln(2)/a)/365.25$	5.24	8.12
Estimated Date to Reach WQO:	$(x = \ln(y/b) / a)$	Dec 2024	Aug 2030



SHELL-BRANDED SERVICE STATION
 5755 BROADWAY
 OAKLAND, CA


CONESTOGA-ROVERS & ASSOCIATES

FIGURE 4
 S-2: TPHG AND BENZENE
 CONCENTRATIONS AND
 GROUNDWATER ELEVATIONS

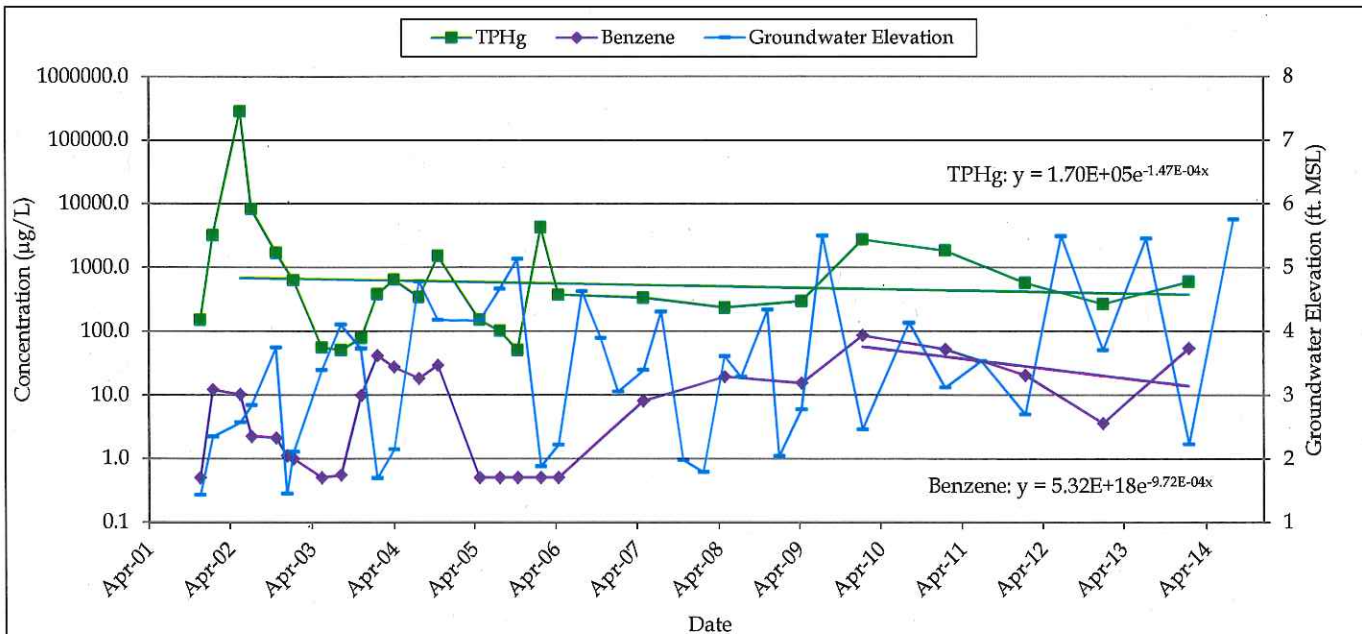
Predicted Time to Reach Water Quality Objective (WQO) in Well H-1
Shell-Branded Service Station, 5755 Broadway, Oakland, California

$$y = b e^{ax} \quad \implies \quad x = \ln(y/b) / a$$

where: y = concentration in $\mu\text{g/L}$ a = decay constant
 b = concentration at time (x) x = time (x) in days

Given	Constituent	Total Petroleum Hydrocarbons as Gasoline (TPHg)	Benzene
Water Quality Objective (WQO):	y	500	27
Constant:	b	$1.70\text{E}+05$	$5.32\text{E}+18$
Constant:	a	$-1.47\text{E}-04$	$-9.72\text{E}-04$
Starting date for current trend:		6/4/2002	2/3/2010

Calculate		TPHg	Benzene
Attenuation Half Life (years):	$(-\ln(2)/a)/365.25$	12.88	1.95
Estimated Date to Reach WQO:	$(x = \ln(y/b) / a)$	May 2008	Feb 2012



SHELL-BRANDED SERVICE STATION
 5755 BROADWAY
 OAKLAND, CA



FIGURE 5
 H-1: TPHG AND BENZENE
 CONCENTRATIONS AND
 GROUNDWATER ELEVATIONS

ATTACHMENT 7

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Sample ID	Date	Depth (fbg)	Total Oil &												1,2-DCA (mg/kg)	EDB (mg/kg)	Lead (mg/kg)
			Grease (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)			
S-A	6/12/1985	4	--	--	3 a	--	--	--	--	--	--	--	--	--	--	--	--
S-A	6/12/1985	8.5	--	--	2 a	--	--	--	--	--	--	--	--	--	--	--	--
S-A	6/12/1985	10	--	--	<2.0 a	--	--	--	--	--	--	--	--	--	--	--	--
S-2-1	9/18/1993	3	--	--	92 b	0.12 b	0.80 b	0.58 b	4.2 b	--	--	--	--	--	--	--	--
S-3-1	9/18/1993	3	--	--	<10 b	<0.025 b	0.062 b	<0.025 b	0.12 b	--	--	--	--	--	--	--	--
S-C	2/2/1993	1.5	--	--	7.9	0.094	0.0098	0.12	1.1	--	--	--	--	--	--	--	--
S-E	2/4/1993	3.5	--	--	150	0.90	2.3	1.5	7.7	--	--	--	--	--	--	--	--
S-F	2/4/1993	5	--	--	<1	0.021	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--
S-G	2/4/1993	2.5	--	--	<1	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--
S-H	2/4/1993	3.5	--	--	<1	0.024	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--
S-H	2/4/1993	5	--	--	290	0.55	1.8	1.8	6.5	--	--	--	--	--	--	--	--
S-H	2/12/1993	8	--	--	2	0.074	0.0064	0.0097	0.075	--	--	--	--	--	--	--	--
S-H	2/12/1993	10	--	--	<1	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--
S-H	2/12/1993	11.5	--	--	<1	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--
S-I	2/4/1993	5	--	--	1.7	0.074	0.095	0.0038	0.10	--	--	--	--	--	--	--	--
S-I	2/11/1993	8	--	--	<1	0.011	0.0079	<0.0025	0.013	--	--	--	--	--	--	--	--
S-I	2/11/1993	10	--	--	<1	0.021	0.011	<0.0025	0.021	--	--	--	--	--	--	--	--
S-I	2/11/1993	12	--	--	<1	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--
S-J	2/9/1993	2	--	--	140	0.40	1.1	0.71	4.1	--	--	--	--	--	--	--	--
S-J	2/9/1993	4	--	--	1,300	1.1	9.5	8.1	44	--	--	--	--	--	--	--	--
S-K	2/9/1993	6.5	--	--	1.0	0.35	0.23	0.31	0.64	--	--	--	--	--	--	--	--
S-L	2/10/1993	2	--	--	<1	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--
S-L	2/10/1993	4	--	--	<1	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Sample ID	Date	Depth (fbg)	Total Oil & Grease		TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Lead (mg/kg)
			(mg/kg)	(mg/kg)														
S-L	2/10/1993	6	--	--	320	0.99	2.0	1.5	5.2	--	--	--	--	--	--	--	--	--
S-L	2/11/1993	7.5	--	--	<1	0.039	0.042	0.0074	0.045	--	--	--	--	--	--	--	--	--
S-L	2/11/1993	10	--	--	<1	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--	--
S-L	2/11/1993	12	--	--	<1	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--	--
S-M	2/10/1993	2	--	--	<1	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--	--
S-M	2/10/1993	4	--	--	<1	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--	--
S-M	2/10/1993	7.5	--	--	<1	0.020	0.028	0.0072	0.053	--	--	--	--	--	--	--	--	--
S-M	2/11/1993	10	--	--	5.9	0.020	0.038	0.023	0.17	--	--	--	--	--	--	--	--	--
S-M	2/11/1993	12	--	--	<1	0.0026	0.0069	0.0028	0.027	--	--	--	--	--	--	--	--	--
S-N	2/10/1993	2	--	--	<1	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--	--
S-N	2/10/1993	4	--	--	<1	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--	--
S-N	2/10/1993	7.5	--	--	11	0.067	0.51	0.18	1.1	--	--	--	--	--	--	--	--	--
S-N	2/10/1993	10	--	--	<1	0.0035	0.0061	0.0033	0.019	--	--	--	--	--	--	--	--	--
S-N	2/10/1993	12	--	--	1.2	<0.0025	<0.0025	<0.0025	0.025	--	--	--	--	--	--	--	--	--
S-O	2/12/1993	7.5	--	--	<1	0.021	<0.0025	<0.0025	0.0043	--	--	--	--	--	--	--	--	--
S-O	2/12/1993	10	--	--	<1	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--	--
S-O	2/12/1993	11.5	--	--	1.3	0.013	0.0046	<0.0025	0.032	--	--	--	--	--	--	--	--	--
S-O	2/12/1993	14	--	--	<1	<0.0025	<0.0025	<0.0025	<0.0025	--	--	--	--	--	--	--	--	--
D-2	3/12/1998	2	--	--	260	1.7	<0.50	3.3	5.4	<2.5	--	--	--	--	--	--	--	--
D-3	3/12/1998	2	--	--	750	<0.50	3.4	6.5	41	9.8	--	--	--	--	--	--	--	--
D-4	3/12/1998	2	--	--	990	1.8	2.3	13	68	25	--	--	--	--	--	--	--	--
B-1-5.0	8/6/2002	5	--	--	<1.0	<0.005	<0.005	<0.005	<0.010	<0.5	--	--	--	--	--	--	--	--
B-1-9.0	8/6/2002	9	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--	--
B-1-15.5	8/6/2002	15.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--	--
B-2-5.0	8/6/2002	5	--	--	<1.0	<0.005	<0.005	<0.005	<0.010	<0.5	--	--	--	--	--	--	--	--
B-2-10.0	8/6/2002	10	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--	--

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Sample ID	Date	Depth (fbg)	Total Oil & Grease		TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Lead (mg/kg)
			(mg/kg)	(mg/kg)														
B-2-15.5	8/6/2002	15.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
B-3-5.0	8/6/2002	5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
B-3-10.0	8/6/2002	10	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
B-3-15.5	8/6/2002	15.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
B-4-5.0	8/6/2002	5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
B-4-10.0	8/6/2002	10	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
B-4-15.5	8/6/2002	15.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
B-5-5.5	8/6/2002	5.5	--	--	260	<0.005	<0.005	1.6	6.7	<0.5	<0.5	--	--	--	--	--	--	--
B-5-10.0	8/6/2002	10	--	--	4.5	<0.005	<0.005	0.018	0.021	<0.5	<0.5	--	--	--	--	--	--	--
B-5-15.5	8/6/2002	15.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
B-6-5.0	8/7/2002	5	--	--	110	0.039	<0.025	1.5	0.3	<0.5	<0.5	--	--	--	--	--	--	--
B-6-10.0	8/7/2002	10	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
B-6-15.5	8/7/2002	15.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
B-7-5.0	8/7/2002	5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
B-7-10.5	8/7/2002	10.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
B-8-5.0	8/6/1998	5	--	--	210	<0.025	<0.025	2.2	3.8	<0.5	<0.5	--	--	--	--	--	--	--
B-8-10.5	8/6/1998	10.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
B-9-5.0	8/7/2002	5	--	--	82	0.096	0.028	0.85	4.3	0.9	<0.5	--	--	--	--	--	--	--
B-9-10.5	8/7/2002	10.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
B-10-5.0	8/7/2002	5	--	--	29	0.016	<0.005	0.060	0.018	<0.5	<0.5	--	--	--	--	--	--	--
B-10-10.5	8/7/2002	10.5	--	--	<1.0	<0.005	<0.005	<0.005	0.014	<0.5	<0.5	--	--	--	--	--	--	--
B-11-5.0	8/7/2002	5	--	--	1.7	0.0063	<0.005	0.019	0.018	<0.5	<0.5	--	--	--	--	--	--	--
B-11-10.5	8/7/2002	10.5	--	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Sample ID	Date	Depth (fbg)	Total Oil & Grease													1,2-DCA (mg/kg)	EDB (mg/kg)	Lead (mg/kg)
			TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)					
TP-1-14	1/31/2005	14	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	---	---	---	
TP-2-14	1/31/2005	14	---	---	1.5	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	---	---	---	
TP-3-14	1/31/2005	14	---	---	32	<0.023	<0.023	<0.023	<0.023	0.082	<0.047	<0.047	<0.023	<0.023	---	---	---	
TP-4-14	1/31/2005	14	---	---	29	<0.024	<0.024	<0.024	<0.024	<0.024	<0.049	<0.049	<0.024	<0.024	---	---	---	
TP-5-14	2/9/2005	14	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	---	---	---	
TP-6-14	2/9/2005	14	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	---	---	---	
TP-7-14	2/9/2005	14	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	---	---	---	
TP-8-14	2/9/2005	14	---	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	---	---	---	
DS-1-2	2/17/2005	2	---	---	190	<0.50	<0.50	1.1	1.0	<0.50	<2.5	<1.0	<0.50	<0.50	---	---	6.1	
DS-2-2	2/17/2005	2	---	---	150	<0.50	<0.50	0.51	0.55	<0.50	<2.5	<1.0	<0.50	<0.50	---	---	6.5	
DS-3-2	2/17/2005	2	---	---	1,100	<0.50	0.63	10	75	<0.50	<2.5	<1.0	<0.50	<0.50	---	---	6.8	
DS-4-2	2/17/2005	2	---	---	460	<0.50	<0.50	1.8	3.5	<0.50	<2.5	<1.0	<0.50	<0.50	---	---	7.4	
P-1-1	2/17/2005	1	---	---	180	<0.50	<0.50	0.97	1.4	<0.50	<2.5	<1.0	<0.50	<0.50	---	---	5.9	
P-2-2	2/17/2005	2	---	---	130	<0.50	<0.50	<0.50	<0.50	<0.50	4.1	<1.0	<0.50	<0.50	---	---	7.3	
P-3-2	2/17/2005	2	---	---	420	<0.50	<0.50	6.2	23	0.84	<2.5	<1.0	<0.50	<0.50	---	---	17	
DS-1-4'	2/24/2005	4	---	---	26	<0.025	<0.025	<0.025	0.034	0.035	0.060	<0.050	<0.025	<0.025	---	---	6.7	
DS-2-6'	2/24/2005	6	---	---	1,000	<0.50	<0.50	13	24	1.7	<2.5	<1.0	<0.50	<0.50	---	---	6.5	
DS-3-6'	2/24/2005	6	---	---	1.8	<0.0050	<0.0050	0.0073	0.013	0.13	0.13	<0.010	<0.0050	<0.0050	---	---	5.5	
DS-4-4'	2/24/2005	4	---	---	44	<0.025	<0.025	<0.025	0.066	<0.025	0.093	<0.050	<0.025	<0.025	---	---	6.4	
P-1-6'	2/24/2005	6	---	---	410	0.66	<0.50	5.2	8.2	1.9	<2.5	<1.0	<0.50	<0.50	---	---	5.6	
P-2-4'	2/24/2005	4	---	---	260	<0.50	<0.50	1.5	6.0	<0.50	<2.5	<1.0	<0.50	<0.50	---	---	7.3	
P-3-6'	2/24/2005	6	---	---	480	<0.50	<0.50	4.1	3.9	0.61	<2.5	<1.0	<0.50	<0.50	---	---	6.0	
SB-12-2	11/18/2005	2	210	8.7 c	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	
SB-12-5	11/18/2005	5	<100	34 d	100	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	---	

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Sample ID	Date	Depth (fbg)	Total Oil & Grease (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Lead (mg/kg)
SB-13-2	11/18/2005	2	<100	2.2 e	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---
SB-13-5	11/18/2005	5	<100	68 d	180	<0.50	<0.50	0.84	1.9	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	---
SB-13-8	11/18/2005	8	<100	2.2 c	<1.0	<0.0050	0.0072	0.014	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---
SB-14-2	11/18/2005	2	300	9.9 c	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---
SB-14-5	11/18/2005	5	<100	9.2 d	99	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	---
SB-14-8	11/18/2005	8	<100	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---
VP-1-1.5	9/9/2013	1.5	---	---	<0.11	<0.0022	<0.0022	<0.0022	<0.0022	0.0096	---	---	---	---	---	---	---
VP-1-3	9/9/2013	3	---	---	37 f	0.0072	<0.0016	0.24 f	0.27	0.32	---	---	---	---	---	---	---
VP-2-1.5	9/9/2013	1.5	---	---	<0.11	<0.0022	<0.0022	<0.0022	<0.0022	<0.0055	---	---	---	---	---	---	---
VP-2-3	9/9/2013	3	---	---	0.24	<0.0021	<0.0021	<0.0021	<0.0021	<0.0052	---	---	---	---	---	---	---
<i>Policy Soil Criteria (0-5 fbg)^g:</i>			NA	NA	NA	8.2	NA	89	NA	NA	NA	NA	NA	NA	NA	NA	NA
<i>Policy Soil Criteria(5-10 fbg)^g:</i>			NA	NA	NA	12	NA	134	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Total oil and grease analyzed by EPA Method 9071B

TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; before August 6, 2002, analyzed by EPA Method 8015 unless otherwise noted.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; before August 6, 2002, analyzed by EPA Method 8020.

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B; before August 6, 2002, analyzed by EPA Method 8020.

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

1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B

EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B

Lead analyzed by EPA Method 6010B

fbg = Feet below grade

mg/kg = Milligrams per kilogram

HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA

<x = Not detected at reporting limit x

--- = Not analyzed

NA = No applicable Policy criteria

Shading indicates that soil sample location was subsequently excavated; results are not representative of residual soil.

a = Analyzed by GC/FID

b = Analytical method unknown

c = Hydrocarbon reported is in the late Diesel range, and does not match laboratory Diesel standard

d = Hydrocarbon reported is in the early Diesel range, and does not match laboratory Diesel standard

e = Hydrocarbon reported does not match the pattern of laboratory Diesel standard

f = Result exceeded calibration range

g = California State Water Resources Control Board *Low-Threat Underground Storage Tank Case Closure Policy* media-specific direct contact and outdoor air exposure criteria for sites with commercial land use.

TABLE 2

**HISTORICAL SOIL VAPOR ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Sample ID	Date	Depth (fbg)	TPHg ($\mu\text{g}/\text{m}^3$)	B ($\mu\text{g}/\text{m}^3$)	T ($\mu\text{g}/\text{m}^3$)	E ($\mu\text{g}/\text{m}^3$)	X ($\mu\text{g}/\text{m}^3$)	MTBE ($\mu\text{g}/\text{m}^3$)	TBA ($\mu\text{g}/\text{m}^3$)	Naphthalene ($\mu\text{g}/\text{m}^3$)	Methane (%v)	Carbon Dioxide (%v)	Oxygen + Argon (%v)	Helium (%v)
VP-1	9/25/2013	3	210,000,000	370,000	<75,000	<87,000	<87,000	<140,000	<120,000	<210,000	—	8.55	4.66	0.622
VP-2	9/24/2013	3	100,000	180	<75	180	<87	<140	<120	<210	—	3.07	14.8	1.35
VP-3	6/24/2014	0.3	<3,800	<16	<19	<22	<22	<36	1,800	<52	<0.500	<0.500	19.3	7.09
VP-3	7/22/2014	0.3	10,000	<16	<19	<22	<22	<36	460	<52	<0.500	0.608	21.0	0.225
VP-4	6/24/2014	0.3	<3,800	<16	<19	<22	<22	<36	800	<52	<0.500	<0.500	21.6	1.14
Commercial Land Use ESLs^a:			2,500,000	420	1,300,000	4,900	440,000	47,000	NA	360	NA	NA	NA	NA
Residential Land Use ESLs^a:			300,000	42	160,000	490	52,000	4,700	NA	36	NA	NA	NA	NA

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method TO-3M

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

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B (M)

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B (M)

Naphthalene analyzed by EPA Method 8260B (M)

Methane, carbon dioxide, and oxygen + argon analyzed by ASTM D-1946

Helium analyzed by ASTM D-1946 (M)

fbg = Feet below grade

 $\mu\text{g}/\text{m}^3$ = Micrograms per cubic meter

%v = Percent by volume

<x = Not detected at reporting limit x

ESL = Environmental screening level

NA = No applicable ESL

Results in bold exceed ESL for commercial land use

Shading indicates that the sample is not valid because the helium concentration detected in the sample was greater than 5 percent of the concentration in the sampling shroud.

a = San Francisco Bay Regional Water Quality Control Board (RWQCB) shallow soil gas screening level for evaluation of potential vapor intrusion concerns from RWQCB's *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 (Revised May 2008) - Updated December 2013.

TABLE 3

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water (ft TOC)	Elevation (ft MSL)	Reading (mg/L)
S-1	07/03/1985	2,400 a	240 a	9.8 a	380 a,b	380 a,b	--	--	--	--	--	--	--	--	--	--
S-1	08/15/1989	170 a	0.6 a	<0.5 a	<1.5 a	<1.5 a	--	--	--	--	--	--	--	--	--	--
S-1	10/05/1989	--	--	--	--	--	--	--	--	--	--	100.00 c	3.80	96.20	--	
S-1	11/13/1989	90 a	1.2 a	<0.5 a	<1.5 a	<1.5 a	--	--	--	--	--	100.00	3.72	96.28	--	
S-1	01/18/1990	<50 a	57 a	3.1 a	5.7 a	10 a	--	--	--	--	--	100.00	2.87	97.13	--	
S-1	02/20/1990	--	--	--	--	--	--	--	--	--	--	100.00	2.71	97.29	--	
S-1	04/11/1990	520 a	120 a	2.2 a	0.44 a	6.0 a	--	--	--	--	--	100.00	3.36	96.64	--	
S-1	07/27/1990	<30 a	2.7 a	0.31 a	<0.3 a	0.47 a	--	--	--	--	--	100.00	3.60	96.40	--	
S-1	10/17/1990	<30 a	0.99 a	<0.3 a	<0.3 a	<0.3 a	--	--	--	--	--	100.00	4.09	95.91	--	
S-1	01/25/1991	<30	<0.3	<0.3	<0.3	<0.3	--	--	--	--	--	100.00	3.88	96.12	--	
S-1	06/03/1991	<30	<0.3	<0.3	<0.3	<0.3	--	--	--	--	--	100.00	3.51	96.49	--	
S-1	08/30/1991	<30	<0.3	<0.3	<0.3	<0.3	--	--	--	--	--	100.00	4.24	95.76	--	
S-1	11/22/1991	<30	2.3	<0.46	0.3	<0.65	--	--	--	--	--	100.00	4.29	95.71	--	
S-1	03/13/1992	<30	<0.52	<0.3	<0.3	<0.3	--	--	--	--	--	100.00	2.87	97.13	--	
S-1	05/28/1992	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	100.00	3.79	96.21	--	
S-1	08/19/1992	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	100.00	4.43	95.57	--	
S-1	11/18/1992	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	100.00	4.34	95.66	--	
S-1	02/10/1993	51	1.4	<0.5	<0.5	<0.5	--	--	--	--	--	100.00	4.20	95.80	--	
S-1 (D)	02/10/1993	<50	1.2	<0.5	<0.5	<0.5	--	--	--	--	--	100.00	--	--	--	
S-1	06/11/1993	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	100.00	3.39	96.61	--	
S-1	08/03/1993	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	100.00	3.69	96.31	--	
S-1	11/02/1993	70 d	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	100.00	4.26	95.74	--	
S-1	12/16/1993	--	--	--	--	--	--	--	--	--	--	100.00	2.73	97.27	--	
S-1	02/01/1994	60 d	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	100.00	3.38	96.62	--	
S-1	05/04/1994	<50	1.1	<0.5	<0.5	<0.5	--	--	--	--	--	100.00	3.00	97.00	--	
S-1	08/18/1994	<50	0.60	<0.5	<0.5	<0.5	--	--	--	--	--	100.00	3.70	96.30	--	
S-1 (D)	08/18/1994	60 d	0.50	<0.5	<0.5	<0.5	--	--	--	--	--	100.00	--	--	--	
S-1	11/09/1994	<50	4.0	<0.5	<0.5	<0.5	--	--	--	--	--	100.00	2.52	97.48	--	
S-1	02/22/1995	50	0.80	0.70	<0.5	1.3	--	--	--	--	--	100.00	4.08	95.92	--	
S-1	05/02/1995	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	100.00	2.58	97.42	--	

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE	MTBE	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water	Elevation	Reading
S-1	08/30/1995	<50	1.7	<0.5	<0.5	<0.5	--	--	--	--	--	--	100.00	3.48	96.52	--
S-1	11/28/1995	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	100.00	3.99	96.01	--
S-1	02/02/1996	<50	11	<0.5	0.9	<0.5	--	--	--	--	--	--	100.00	2.00	98.00	--
S-1	03/09/1996	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	100.00	3.38	96.62	--
S-1	08/22/1996	<50	1.5	<0.5	<0.5	<0.5	130	--	--	--	--	--	100.00	3.43	96.57	--
S-1	11/07/1996	<50	<0.5	<0.5	<0.5	<0.5	57	--	--	--	--	--	100.00	3.70	96.30	4.33
S-1	02/20/1997	<50	0.64	<0.50	<0.50	1.6	6.5	--	--	--	--	--	100.00	3.60	96.40	2
S-1	05/30/1997	<50	<0.50	<0.50	<0.50	<0.50	46	--	--	--	--	--	100.00	3.47	96.53	7
S-1 (D)	05/30/1997	<50	<0.50	<0.50	<0.50	<0.50	47	--	--	--	--	--	100.00	--	--	--
S-1	08/21/1997	<50	<0.50	<0.50	<0.50	0.84	26	--	--	--	--	--	100.00	3.01	96.99	3.1
S-1	11/03/1997	<50	<0.50	1.1	<0.50	1.3	190	--	--	--	--	--	100.00	3.66	96.34	2
S-1	01/20/1998	110	7.9	2.8	4.4	13	53	--	--	--	--	--	100.00	1.84	98.16	4.6
S-1 (D)	01/20/1998	130	9.2	6.9	5.2	15	93	--	--	--	--	--	100.00	--	--	--
S-1	02/16/1999	<50	<0.50	<0.50	<0.50	<0.50	8.6	--	--	--	--	--	100.00	2.43	97.57	2.2
S-1	09/07/1999	--	--	--	--	--	--	--	--	--	--	--	100.00	2.84	97.16	--
S-1	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	202	--	--	--	--	--	100.00	3.10	96.90	2.1
S-1	04/26/2000	--	--	--	--	--	--	--	--	--	--	--	100.00	2.91	97.09	--
S-1	07/25/2000	<50.0	<0.500	<0.500	<0.500	<0.500	811	--	--	--	--	--	100.00	3.21	96.79	1.8
S-1	11/15/2000	--	--	--	--	--	--	--	--	--	--	--	100.00	3.18	96.82	--
S-1	02/12/2001	<50.0	<0.500	<0.500	<0.500	<0.500	209	--	--	--	--	--	100.00	1.34	98.66	2.2
S-1	06/07/2001	--	--	--	--	--	--	--	--	--	--	--	100.00	1.27	98.73	--
S-1	08/31/2001	<50	<0.50	<0.50	<0.50	<0.50	--	<5.0	--	--	--	--	100.00	3.16	96.84	4.0
S-1	12/05/2001	--	--	--	--	--	--	2.6	--	--	--	--	100.00	1.90	98.10	--
S-1	01/31/2002	<50	<0.50	<0.50	<0.50	<0.50	--	<5.0	--	--	--	--	100.00	2.67	97.33	--
S-1	06/04/2002	--	--	--	--	--	--	--	--	--	--	--	100.00	1.87	98.13	--
S-1	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	--	<5.0	--	--	--	--	100.00	2.01	97.99	--
S-1	11/07/2002	--	--	--	--	--	--	--	--	--	--	--	181.89	3.01	178.88	--
S-1	11/14/2002	--	--	--	--	--	--	--	--	--	--	--	181.89	3.40	178.49	--
S-1	01/30/2003	<50	<0.50	<0.50	<0.50	<0.50	--	27	--	--	--	--	181.89	2.12	179.77	--
S-1	06/03/2003	--	--	--	--	--	--	--	--	--	--	--	181.89	1.83	180.06	--

TABLE 3

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE	MTBE	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water	Elevation	Reading
S-1	08/27/2003	<50	0.50	1.5	<0.50	2.0	--	130	--	--	--	--	181.89	3.32	178.57	--
S-1	11/25/2003	--	--	--	--	--	--	--	--	--	--	--	181.89	3.28	178.61	--
S-1	02/05/2004	270	2.4	6.4	5.8	19	--	8.3	--	--	--	--	181.89	2.09	179.80	--
S-1	04/21/2004	--	--	--	--	--	--	--	--	--	--	--	181.89	2.61	179.28	--
S-1	08/12/2004	<500	<5.0	<5.0	<5.0	<10	--	1,100	<50	<20	<20	<20	181.89	3.70	178.19	--
S-1	11/08/2004	--	--	--	--	--	--	--	--	--	--	--	181.89	3.04	178.85	--
S-1	05/16/2005	<50	<0.50	<0.50	<0.50	<1.0	--	4.9	--	--	--	--	181.89	3.10	178.79	--
S-1	08/16/2005	<50	<0.50	<0.50	<0.50	<1.0	--	64	52	<2.0	<2.0	<2.0	181.89	0.73	181.16	--
S-1	11/03/2005	--	--	--	--	--	--	--	--	--	--	--	181.89	3.49	178.40	--
S-1	02/16/2006	<50.0	<0.500	<0.500	<0.500	<0.500	--	22.7	--	--	--	--	181.89	0.73	181.16	--
S-1	05/05/2006	--	--	--	--	--	--	--	--	--	--	--	181.89	0.71	181.18	--
S-1	08/21/2006	<50.0	0.630	<0.500	<0.500	1.71	--	44.6	<10.0	<0.500	<0.500	<0.500	181.89	3.34	178.55	--
S-1	11/13/2006	--	--	--	--	--	--	--	--	--	--	--	181.89	2.55	179.34	--
S-1	01/30/2007	<50	<0.50	<0.50	<0.50	<1.0	--	24	--	--	--	--	181.89	0.91	180.98	--
S-1	05/23/2007	--	--	--	--	--	--	--	--	--	--	--	181.89	2.50	179.39	--
S-1	08/09/2007	<50 i	0.35 j	<1.0	<1.0	<1.0	--	33	<10	<2.0	<2.0	<2.0	181.89	0.81	181.08	--
S-1	11/13/2007	--	--	--	--	--	--	--	--	--	--	--	181.89	0.55	181.34	--
S-1	02/13/2008	<50 i	0.56	<1.0	<1.0	<1.0	--	2.9	--	--	--	--	181.89	0.45	181.44	--
S-1	05/20/2008	--	--	--	--	--	--	--	--	--	--	--	181.89	1.00	180.89	--
S-1	08/04/2008	66	<0.50	<1.0	<1.0	<1.0	--	3.6	<10	<2.0	<2.0	<2.0	181.89	0.72	181.17	--
S-1	12/02/2008	--	--	--	--	--	--	--	--	--	--	--	181.89	0.89	181.00	--
S-1	01/23/2009	<50	<0.50	<1.0	<1.0	2.1	--	4.8	--	--	--	--	181.89	0.81	181.08	--
S-1	05/05/2009	--	--	--	--	--	--	--	--	--	--	--	181.89	0.81	181.08	--
S-1	08/07/2009	53	0.86	<1.0	<1.0	<1.0	--	34	11	<2.0	<2.0	<2.0	181.89	4.33	177.56	--
S-1	02/03/2010	140	15	48	1.6	15	--	2.4	--	--	--	--	181.89	0.62	181.27	--
S-1	08/31/2010	<50	<0.50	<1.0	<1.0	<1.0	--	6.3	<10	<2.0	<2.0	<2.0	181.89	1.00	180.89	--
S-1	02/10/2011	<50	<0.50	<0.50	<0.50	<1.0	--	1.9	--	--	--	--	181.89	0.51	181.38	--
S-1	07/22/2011	<50	<0.50	<0.50	<0.50	<1.0	--	1.0	<10	<1.0	<1.0	<1.0	181.89	0.98	180.91	--
S-1	02/07/2012	<50	<0.50	<0.50	<0.50	<1.0	--	1.3	--	--	--	--	181.89	0.80	181.09	--
S-1	07/19/2012	<50	0.90	<0.50	<0.50	<1.0	--	2.8	<10	<0.50	<0.50	<0.50	181.89	3.49	178.40	--

TABLE 3

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water (ft TOC)	Elevation (ft MSL)	Reading (mg/L)
S-1	01/25/2013	<50	<0.50	<0.50	<0.50	<1.0	—	1.5	—	—	—	—	181.89	0.65	181.24	—
S-1	08/08/2013	<50	<0.50	<0.50	<0.50	<1.0	—	2.5	<10	<0.50	<0.50	<0.50	181.89	4.01	177.88	—
S-1	02/11/2014	<50	<0.50	<0.50	<0.50	<1.0	—	<0.50	—	—	—	—	181.89	0.55	181.34	—
S-1	08/29/2014	<50	<0.50	<0.50	<0.50	<1.0	—	4.6	<10	<0.50	<0.50	<0.50	181.89	4.18	177.71	—
S-2	09/22/1989	260 a	15 a	2 a	1 a	13 a	—	—	—	—	—	—	—	—	—	—
S-2	10/05/1989	—	—	—	—	—	—	—	—	—	—	—	98.92	4.44	94.48	—
S-2	11/13/1989	910 a	64 a	5.8 a	13 a	84 a	—	—	—	—	—	—	98.92	4.44	94.48	—
S-2	01/18/1990	1,100 a	74 a	5.6 a	13 a	45 a	—	—	—	—	—	—	98.92	3.41	95.51	—
S-2	02/20/1990	—	—	—	—	—	—	—	—	—	—	—	98.92	3.19	95.73	—
S-2	04/11/1990	2,900 a	510 a	6.5 a	29 a	120 a	—	—	—	—	—	—	98.92	3.94	94.98	—
S-2	07/27/1990	700 a	210 a	2.5 a	18 a	33 a	—	—	—	—	—	—	98.92	4.13	94.79	—
S-2	10/17/1990	320 a	44 a	0.75 a	7.9 a	4.6 a	—	—	—	—	—	—	98.92	4.57	94.35	—
S-2	01/25/1991	450	140	1.8	6.2	15	—	—	—	—	—	—	98.92	4.52	94.40	—
S-2	06/03/1991	490	150	2.7	8.2	7.0	—	—	—	—	—	—	98.92	4.02	94.90	—
S-2	08/30/1991	70	0.37	<0.3	<0.3	<0.3	—	—	—	—	—	—	98.92	4.70	94.22	—
S-2	11/22/1991	1,600	110	9.3	29	150	—	—	—	—	—	—	98.92	4.72	94.20	—
S-2	03/13/1992	1,300	210	5.7	34	79	—	—	—	—	—	—	98.92	3.47	95.45	—
S-2	05/28/1992	100	28	<0.5	<0.5	<0.5	—	—	—	—	—	—	98.92	4.45	94.47	—
S-2	08/19/1992	470	42	<0.5	8.3	4.0	—	—	—	—	—	—	98.92	4.84	94.08	—
S-2	11/18/1992	490	43	39	17	29	—	—	—	—	—	—	98.92	4.73	94.19	—
S-2	02/10/1993	19,000	710	760	80	370	—	—	—	—	—	—	98.92	4.83	94.09	—
S-2	06/11/1993	33,000	3,100	1,600	370	1,100	—	—	—	—	—	—	98.92	3.74	95.18	—
S-2	08/03/1993	18,000	1,400	130	81	130	—	—	—	—	—	—	98.92	4.23	94.69	—
S-2 (D)	08/03/1993	19,000	1,400	140	86	150	—	—	—	—	—	—	98.92	—	—	—
S-2	11/02/1993	12,000 d	470	47	31	92	—	—	—	—	—	—	98.92	4.72	94.20	—
S-2 (D)	11/02/1993	13,000 d	530	47	35	96	—	—	—	—	—	—	98.92	—	—	—
S-2	12/16/1993	—	—	—	—	—	—	—	—	—	—	—	98.92	3.00	95.92	—
S-2	02/01/1994	31,000 d	430	46	50	130	—	—	—	—	—	—	98.92	3.48	95.44	—
S-2 (D)	02/01/1994	31,000 d	300	33	30	100	—	—	—	—	—	—	98.92	—	—	—

TABLE 3

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water (ft TOC)	Elevation (ft MSL)	Reading (mg/L)
S-2	05/04/1994	3,900	1,200	31	53	71	---	---	---	---	---	---	98.92	3.26	95.66	---
S-2 (D)	05/04/1994	4,500	1,200	37	57	110	---	---	---	---	---	---	98.92	---	---	---
S-2	08/18/1994	24,000	600	8.3	15	27	---	---	---	---	---	---	98.92	3.98	94.94	---
S-2	11/09/1994	1,400 d	240	9.3	13	20	---	---	---	---	---	---	98.92	3.10	95.82	---
S-2 (D)	11/09/1994	1,800	260	8.5	13	21	---	---	---	---	---	---	98.92	---	---	---
S-2	02/22/1995	29,000	550	18	12	63	---	---	---	---	---	---	98.92	4.02	94.90	---
S-2 (D)	02/22/1995	28,000	530	17	10	60	---	---	---	---	---	---	98.92	---	---	---
S-2	05/02/1995	4,400	1,000	25	38	77	---	---	---	---	---	---	98.92	2.86	96.06	---
S-2 (D)	05/02/1995	4,400	1,000	26	41	83	---	---	---	---	---	---	98.92	---	---	---
S-2	08/30/1995	800	350	20	6.7	16	---	---	---	---	---	---	98.92	4.06	94.86	---
S-2 (D)	08/30/1995	960	220	22	12	48	---	---	---	---	---	---	98.92	---	---	---
S-2	11/28/1995	2,000	230	220	50	230	---	---	---	---	---	---	98.92	4.48	94.44	---
S-2 (D)	11/28/1995	2,100	240	230	51	230	---	---	---	---	---	---	98.92	---	---	---
S-2	02/02/1996	18,000	540	18	12	22	---	---	---	---	---	---	98.92	1.99	96.93	---
S-2 (D)	02/02/1996	11,000	600	18	13	28	---	---	---	---	---	---	98.92	---	---	---
S-2	03/09/1996	3,800	1,500	27	30	58	---	---	---	---	---	---	98.92	3.27	95.65	---
S-2 (D)	03/09/1996	3,500	1,300	24	21	53	---	---	---	---	---	---	98.92	---	---	---
S-2	08/22/1996	<20,000	490	<200	<200	<200	43,000	---	---	---	---	---	98.92	3.85	95.07	---
S-2 (D)	08/22/1996	<20,000	570	<200	<200	<200	59,000	51,000	---	---	---	---	98.92	---	---	---
S-2	11/07/1996	<5,000	290	<50	<50	<50	32,000	---	---	---	---	---	98.92	4.00	94.92	3.51
S-2 (D)	11/07/1996	<5,000	290	<50	<50	<50	32,000	---	---	---	---	---	98.92	---	---	---
S-2	02/20/1997	<10,000	520	<100	<100	<100	28,000	---	---	---	---	---	98.92	3.20	95.72	1
S-2 (D)	02/20/1997	<10,000	520	<100	<100	<100	35,000	---	---	---	---	---	98.92	---	---	---
S-2	05/30/1997	150	15	11	3.5	15	11	---	---	---	---	---	98.92	3.87	95.05	6
S-2	08/21/1997	1,600	220	<10	20	<10	18,000	---	---	---	---	---	98.92	3.29	95.63	3.3
S-2 (D)	08/21/1997	1,500	180	<10	16	<10	21,000	---	---	---	---	---	98.92	---	---	---
S-2	11/03/1997	1,000	94	<10	<10	<10	<50	---	---	---	---	---	98.92	4.02	94.90	1.8
S-2	01/20/1998	590	110	8.3	18	23	7,800	---	---	---	---	---	98.92	1.54	97.38	3.2
S-2	07/23/1998	2,600	840	<10	44	22	15,000	---	---	---	---	---	98.92	2.89	96.03	---
S-2	02/16/1999	680	140	6.1	10	18	19,000	---	---	---	---	---	98.92	1.86	97.06	2.0

TABLE 3

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water (ft TOC)	Elevation (ft MSL)	Reading (mg/L)
S-2	09/07/1999	<2,000	248	<20.0	<20.0	<20.0	22,800	—	—	—	—	—	98.92	3.66	95.26	1.8
S-2	02/02/2000	103	0.825	<0.500	<0.500	<0.500	11,700	10,500	—	—	—	—	98.92	4.02	94.90	2.0
S-2	04/26/2000	4,040	799	<20.0	40.9	255	19,000	17,100 e	—	—	—	—	98.92	2.63	96.29	2.3
S-2	07/25/2000	1,120	195	5.94	5.62	11.3	26,600	21,100	—	—	—	—	98.92	3.42	95.50	0.6
S-2	11/15/2000	613 e	35.6 e	<5.00 e	<5.00 e	7.36 e	18,100 e	17,800 e	—	—	—	—	98.92	3.31	95.61	1.8
S-2	02/12/2001	9,010	1,430	<20.0	219	848	28,300	17,000	—	—	—	—	98.92	1.47	97.45	2.0
S-2	06/07/2001	31,000	1,000	<25	630	3,200	—	17,000	—	—	—	—	98.92	3.43	95.49	10.4
S-2	08/31/2001	50,000	950	<20	1,500	6,000	—	17,000	—	—	—	—	98.92	4.72	94.20	0.9
S-2	12/05/2001	49,000	590	7.2	1,400	4,900	—	11,000	—	—	—	—	98.92	1.53	97.39	—
S-2	01/31/2002	37,000	860	<25	1,100	4,000	—	14,000	—	—	—	—	98.92	2.13	96.79	—
S-2	06/04/2002	150,000	800	<20	1,200	4,000	—	9,200	—	—	—	—	98.92	2.24	96.68	—
S-2	07/25/2002	37,000	350	<20	660	2,400	—	10,000	—	—	—	—	98.92	2.03	96.89	—
S-2	11/14/2002	25,000	510	<25	590	2,000	—	10,000	—	—	—	—	180.79	3.17	177.62	—
S-2	01/02/2003	—	710	<25	560	2,074	—	—	—	—	—	—	180.79	2.15	178.64	—
S-2	01/30/2003	21,000	670	<20	360	1,200	—	9,300	—	—	—	—	180.79	2.09	178.70	—
S-2	06/03/2003	42,000	800	<50	660	1,500	—	9,600	—	—	—	—	180.79	3.08	177.71	—
S-2	08/27/2003	31,000	630	<100	510	1,200	—	15,000	—	—	—	—	180.79	2.55	178.24	—
S-2	11/25/2003 f	8,400 d	<50	<50	<50	<100	—	4,500	—	—	—	—	180.79	—	—	—
S-2	02/05/2004	Well inaccessible	—	—	—	—	—	—	—	—	—	—	180.79	—	—	—
S-2	02/10/2004 f	<2,500	130	<25	<25	<50	—	3,800	—	—	—	—	180.79	—	—	—
S-2	04/21/2004	4,700	100	<25	<25	<50	—	2,900	—	—	—	—	180.79	7.38	173.41	—
S-2	08/12/2004	2,600	63	<13	<13	<25	—	1,400	1,200	<50	<50	<50	180.79	g	—	—
S-2	11/08/2004	3,600	<25	<25	<25	<50	—	1,300	—	—	—	—	180.79	g	—	—
S-2	05/16/2005	73 h	<0.50	<0.50	<0.50	<1.0	—	3.3	—	—	—	—	180.79	3.33	177.46	—
S-2	08/16/2005	10,000	370	<13	60	63	—	1,300	2,900	<50	<50	<50	180.79	4.03	176.76	—
S-2	11/03/2005	1,010	31.4	<0.500	2.81	31.4	—	349	880	—	—	—	180.79	—	—	—
S-2	02/16/2006	5,350	79.0	<0.500	2.90	59.5	—	687	690	—	—	—	180.79	5.86	174.93	—
S-2	05/05/2006	5,240	148	<0.500	17.1	48.8	—	815	478	—	—	—	180.79	—	—	—
S-2	08/21/2006	4,640	162	0.910	25.8	27.2	—	519	711	<0.500	<0.500	0.780	180.79	4.72	176.07	—
S-2	11/13/2006	2,100	200	<5.0	58	21	—	820	1,300	—	—	—	180.79	3.44	177.35	—

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE	MTBE	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water (ft TOC)	Elevation (ft MSL)	Reading (mg/L)
S-2	01/30/2007	3,300	250	<5.0	59	17	—	1,100	1,600	—	—	—	180.79	2.32	178.47	—
S-2	05/23/2007	4,600 i	410	2.3 j	92	24.8 j	—	890	620	—	—	—	180.79	2.61	178.18	—
S-2	08/09/2007	4,100 i	320	<10	30	11	—	650	1,400	<20	<20	<20	180.79	3.72	177.07	—
S-2	11/13/2007	4,900 i	230	<10	33	12	—	540	590	<20	<20	<20	180.79	2.31	178.48	—
S-2	02/13/2008	4,800 i	560	<10	67	37	—	1,500	610	—	—	—	180.79	1.83	178.96	—
S-2	05/20/2008	5,400	340	<10	11	17	—	460	310	—	—	—	180.79	2.90	177.89	—
S-2	08/04/2008	4,800	240	<10	<10	<10	—	390	640	<20	<20	<20	180.79	3.95	176.84	—
S-2	12/02/2008	3,700	120	<5.0	<5.0	<5.0	—	280	810	—	—	—	180.79	4.13	176.66	—
S-2	01/23/2009	3,500	210	<10	26	<10	—	640	650	—	—	—	180.79	2.85	177.94	—
S-2	05/05/2009	3,200	190	<5.0	7.6	5.5	—	340	350	—	—	—	180.79	2.48	178.31	—
S-2	08/07/2009	3,100	76	<1.0	<1.0	2.3	—	81	310	<2.0	<2.0	<2.0	180.79	4.78	176.01	—
S-2	02/03/2010	4,000	180	<1.0	34	9.1	—	420	190	—	—	—	180.79	2.25	178.54	—
S-2	08/31/2010	3,400	120	<1.0	<1.0	1.8	—	83	380	<2.0	<2.0	<2.0	180.79	4.32	176.47	—
S-2	02/10/2011	3,600	220	<2.0	13	<4.0	—	330	450	—	—	—	180.79	2.51	178.28	—
S-2	07/22/2011	4,000	160	<1.2	5.0	6.4	—	200	270	<2.5	<2.5	<2.5	180.79	2.78	178.01	—
S-2	02/07/2012	3,800	130	<2.5	6.3	<5.0	—	200	170	—	—	—	180.79	2.53	178.26	—
S-2	07/19/2012	2,800	70	<1.3	<1.3	<2.5	—	120	170	<1.3	<1.3	<1.3	180.79	4.24	176.55	—
S-2	01/25/2013	4,100	230	<1.0	25	4.6	—	280	370	—	—	—	180.79	2.49	178.30	—
S-2	08/08/2013	3,800	130	<2.5	<2.5	<5.0	—	160	390	<2.5	<2.5	<2.5	180.79	4.07	176.72	—
S-2	02/11/2014	3,200	330	<2.5	4.5	<5.0	—	180	580	—	—	—	180.79	2.76	178.03	—
S-2	08/29/2014	3,900	250	<2.5	<2.5	<5.0	—	96	520	<2.5	<2.5	<2.5	180.79	4.29	176.50	—
S-3	09/22/1989	<50 a	<0.5 a	<0.5 a	<1.5 a	<1.5 a	—	—	—	—	—	—	—	—	—	—
S-3	10/05/1989	—	—	—	—	—	—	—	—	—	—	—	101.67	3.97	97.70	—
S-3	11/13/1989	<50 a	<0.5 a	<0.5 a	<1.5 a	<1.5 a	—	—	—	—	—	—	101.67	3.76	97.91	—
S-3	01/18/1990	<50 a	<0.5 a	<0.5 a	<0.5 a	<0.5 a	—	—	—	—	—	—	101.67	2.43	99.24	—
S-3	02/20/1989	—	—	—	—	—	—	—	—	—	—	—	101.67	2.27	99.40	—
S-3	04/11/1990	<50 a	<0.3 a	<0.3 a	<0.3 a	<0.3 a	—	—	—	—	—	—	101.67	2.88	98.79	—
S-3	07/27/1990	<50 a	<0.3 a	<0.3 a	<0.3 a	<0.3 a	—	—	—	—	—	—	101.67	3.55	98.12	—
S-3	10/17/1990	<50 a	<0.3 a	<0.3 a	<0.3 a	<0.3 a	—	—	—	—	—	—	101.67	4.29	97.38	—

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ÉTBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water (ft TOC)	Elevation (ft MSL)	Reading (mg/L)
S-3	01/25/1991	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	101.67	3.84	97.83	---
S-3	06/03/1991	<30	<0.3	0.3	0.3	0.3	---	---	---	---	---	---	101.67	3.25	98.42	---
S-3	08/03/1991	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	101.67	4.73	96.94	---
S-3	11/22/1991	<30	<0.3	<0.3	<0.3	<0.3	---	---	---	---	---	---	101.67	4.81	96.86	---
S-3	03/13/1992	<30	<0.3	0.3	0.3	0.3	---	---	---	---	---	---	101.67	2.29	99.38	---
S-3	05/28/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.62	98.05	---
S-3	08/19/1992	<50	<0.5	<0.5	<0.5	0.5	---	---	---	---	---	---	101.67	4.66	97.01	---
S-3	11/18/1992	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	4.51	97.16	---
S-3	02/10/1993	30	1.9	3.2	2.4	5.6	---	---	---	---	---	---	101.67	4.36	97.31	---
S-3	06/11/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.91	98.76	---
S-3 (D)	06/11/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	---	---	---
S-3	08/03/1993	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.70	97.97	---
S-3	11/02/1993	Well inaccessible		---	---	---	---	---	---	---	---	---	101.67	---	---	---
S-3	12/16/1993	---	---	---	---	---	---	---	---	---	---	---	101.67	2.12	99.55	---
S-3	02/01/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.90	98.77	---
S-3	05/04/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.54	99.13	---
S-3	08/18/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.51	98.16	---
S-3	11/09/1994	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.44	99.23	---
S-3	02/22/1995	80	<0.5	0.50	<0.5	0.5	---	---	---	---	---	---	101.67	4.12	97.55	---
S-3	05/02/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.83	98.84	---
S-3	08/30/1995	<50	0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.16	98.51	---
S-3	11/28/1995	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.87	97.80	---
S-3	02/02/1996	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	2.24	99.43	---
S-3	03/09/1996	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	101.67	3.05	98.62	---
S-3	08/22/1996	<50	0.8	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---	101.67	2.85	98.82	4.6
S-3	11/07/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	---	---	---	---	---	101.67	3.35	98.32	4.6
S-3	02/20/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	101.67	3.00	98.67	1
S-3	05/30/1997	140	14	10	3.3	14	8.6	---	---	---	---	---	101.67	3.00	98.67	8
S-3	08/21/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	101.67	2.94	98.73	3.3
S-3	11/03/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	101.67	3.36	98.31	2.4

TABLE 3

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water	Elevation	Reading
													(ft TOC)	(ft MSL)	(mg/L)	
S-3 (D)	11/03/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	101.67	---	---	---
S-3	01/20/1998	Well inaccessible		---	---	---	---	---	---	---	---	---	101.67	---	---	---
S-3	07/23/1998	---	---	---	---	---	---	---	---	---	---	---	101.67	2.69	98.98	---
S-3	02/16/1999	<50	<0.50	0.92	0.59	3.9	3.7	---	---	---	---	---	101.67	2.20	99.47	2.8
S-3	09/07/1999	---	---	---	---	---	---	---	---	---	---	---	101.67	2.81	98.86	---
S-3	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	101.67	3.97	97.70	2.7
S-3	04/26/2000	---	---	---	---	---	---	---	---	---	---	---	101.67	2.96	98.71	---
S-3	07/25/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	101.67	3.00	98.67	0.8
S-3	11/15/2000	---	---	---	---	---	---	---	---	---	---	---	101.67	2.86	98.81	---
S-3	02/12/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	---	---	---	---	---	101.67	2.47	99.20	2.3
S-3	06/07/2001	---	---	---	---	---	---	---	---	---	---	---	101.67	2.78	98.89	---
S-3	08/31/2001	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	101.67	3.94	97.73	0.5
S-3	12/05/2001	---	---	---	---	---	---	---	---	---	---	---	101.67	2.05	99.62	---
S-3	01/31/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	101.67	2.29	99.38	---
S-3	06/04/2002	---	---	---	---	---	---	---	---	---	---	---	101.67	2.56	99.11	---
S-3	07/25/2002	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	101.67	2.70	98.97	---
S-3	11/14/2002	---	---	---	---	---	---	---	---	---	---	---	183.54	3.43	180.11	---
S-3	01/30/2003	<50	<0.50	<0.50	<0.50	<0.50	---	<5.0	---	---	---	---	183.54	2.16	181.38	---
S-3	01/30/2003	---	---	---	---	---	---	---	---	---	---	---	183.54	2.65	180.89	---
S-3	08/27/2003	<50	<0.50	<0.50	<0.50	<1.0	---	0.55	---	---	---	---	183.54	2.75	180.79	---
S-3	11/25/2003	---	---	---	---	---	---	---	---	---	---	---	183.54	2.85	180.69	---
S-3	02/05/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	183.54	2.04	181.50	---
S-3	04/21/2004	---	---	---	---	---	---	---	---	---	---	---	183.54	2.50	181.04	---
S-3	08/12/2004	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	<5.0	<2.0	<2.0	<2.0	183.54	3.91	179.63	---
S-3	11/08/2004	---	---	---	---	---	---	---	---	---	---	---	183.54	2.84	180.70	---
S-3	05/16/2005	<50	<0.50	<0.50	<0.50	<1.0	---	<0.50	---	---	---	---	183.54	3.05	180.49	---
S-3	08/16/2005	<100	<1.0	<1.0	<1.0	<2.0	---	<1.0	<10	<4.0	<4.0	<4.0	183.54	3.42	180.12	---
S-3	11/03/2005	---	---	---	---	---	---	---	---	---	---	---	183.54	4.09	179.45	---
S-3	02/16/2006	<50.0	<0.500	<0.500	<0.500	<0.500	---	<0.500	---	---	---	---	183.54	2.25	181.29	---
S-3	05/05/2006	---	---	---	---	---	---	---	---	---	---	---	183.54	2.27	181.27	---

TABLE 3

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE	MTBE	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water	Elevation	Reading
S-3	08/21/2006	<50.0	<0.500	<0.500	<0.500	<0.500	--	<0.500	36.4	<0.500	<0.500	0.570	183.54	3.17	180.37	--
S-3	11/13/2006	--	--	--	--	--	--	--	--	--	--	--	183.54	3.42	180.12	--
S-3	01/30/2007	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	183.54	2.36	181.18	--
S-3	05/23/2007	--	--	--	--	--	--	--	--	--	--	--	183.54	2.65	180.89	--
S-3	08/09/2007	<50 i	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	<2.0	<2.0	<2.0	183.54	2.93	180.61	--
S-3	11/13/2007	--	--	--	--	--	--	--	--	--	--	--	183.54	2.04	181.50	--
S-3	02/13/2008	<50 i	<0.50	<1.0	<1.0	<1.0	--	<1.0	--	--	--	--	183.54	2.03	181.51	--
S-3	05/20/2008	--	--	--	--	--	--	--	--	--	--	--	183.54	2.75	180.79	--
S-3	08/04/2008	<50	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	<2.0	<2.0	<2.0	183.54	3.52	180.02	--
S-3	12/02/2008	--	--	--	--	--	--	--	--	--	--	--	183.54	3.68	179.86	--
S-3	01/23/2009	<50	<0.50	<1.0	<1.0	<1.0	--	<1.0	--	--	--	--	183.54	2.52	181.02	--
S-3	05/05/2009	--	--	--	--	--	--	--	--	--	--	--	183.54	2.02	181.52	--
S-3	08/07/2009	<50	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	<2.0	<2.0	<2.0	183.54	4.61	178.93	--
S-3	02/03/2010	<50	<0.50	<1.0	<1.0	<1.0	--	<1.0	--	--	--	--	183.54	1.89	181.65	--
S-3	08/31/2010	<50	<0.50	<1.0	<1.0	<1.0	--	<1.0	<10	<2.0	<2.0	<2.0	183.54	3.44	180.10	--
S-3	02/10/2011	<50	<0.50	<0.50	<0.50	<1.0	--	<1.0	--	--	--	--	183.54	1.91	181.63	--
S-3	07/22/2011	<50	<0.50	<0.50	<0.50	<1.0	--	<1.0	<10	<1.0	<1.0	<1.0	183.54	2.42	181.12	--
S-3	02/07/2012	<50	<0.50	<0.50	<0.50	<1.0	--	<1.0	--	--	--	--	183.54	1.97	181.57	--
S-3	07/19/2012	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<10	<0.50	<0.50	<0.50	183.54	3.49	180.05	--
S-3	01/25/2013	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	--	--	--	--	183.54	2.30	181.24	--
S-3	08/08/2013	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<10	<0.50	<0.50	<0.50	183.54	4.10	179.44	--
S-3	02/11/2014	<50	7.4	0.67	0.61	2.2	--	<0.50	--	--	--	--	183.54	1.62	181.92	--
S-3	08/29/2014	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	<10	<0.50	<0.50	<0.50	183.54	4.37	179.17	--
H-1	12/05/2001	150	<0.50	8.3	1.6	16	--	52	--	--	--	--	--	1.43	--	--
H-1	01/31/2002	3,200	12	<0.50	5.7	3.7	--	650	--	--	--	--	--	2.34	--	--
H-1	06/04/2002	280,000	<10	150	62	9,500	--	<100	--	--	--	--	--	2.56	--	--
H-1	07/25/2002	8,200	2.2	46	5.3	99	--	<10	--	--	--	--	--	2.83	--	--
H-1	11/14/2002	1,700	2.1	2.6	1.5	14	--	380	--	--	--	--	180.63	3.74	176.89	--
H-1	01/02/2003	--	1.1	<0.50	<0.50	3.6	--	--	--	--	--	--	180.63	1.45	179.18	--

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE	MTBE	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water	Elevation	Reading
H-1	01/30/2003	630	0.99	2.0	1.6	12	—	21	—	—	—	—	180.63	2.10	178.53	—
H-1	06/03/2003	55	<0.50	1.3	<0.50	2.4	—	2.6	—	—	—	—	180.63	3.38	177.25	—
H-1	08/27/2003	<50	0.55	<0.50	<0.50	1.2	—	2.8	—	—	—	—	180.63	4.10	176.53	—
H-1	11/25/2003	77 d	9.7	<0.50	<0.50	<1.0	—	21	—	—	—	—	180.63	3.72	176.91	—
H-1	02/05/2004	380	41	1.2	5.1	8.0	—	21	—	—	—	—	180.63	1.69	178.94	—
H-1	04/21/2004	640	27	0.63	2.0	2.3	—	33	—	—	—	—	180.63	2.14	178.49	—
H-1	08/12/2004	340	18	0.75	<0.50	1.7	—	43	—	—	—	—	180.63	4.78	175.85	—
H-1	11/08/2004	1,500	29	<1.0	1.7	<2.0	—	57	—	—	—	—	180.63	4.17	176.46	—
H-1	05/16/2005	150 h	<0.50	<0.50	<0.50	<1.0	—	48	—	—	—	—	180.63	4.16	176.47	—
H-1	08/16/2005	100 h	<0.50	<0.50	<0.50	<1.0	—	57	—	—	—	—	180.63	4.66	175.97	—
H-1	11/03/2005	<50.0	<0.500	<0.500	<0.500	<0.500	—	12.1	—	—	—	—	180.63	5.13	175.50	—
H-1	02/16/2006	4,230	<0.500	<0.500	37.7	80.5	—	7.12	—	—	—	—	180.63	1.87	178.76	—
H-1	05/05/2006	368	<0.500	<0.500	2.56	<0.500	—	22.2	—	—	—	—	180.63	2.21	178.42	—
H-1	08/21/2006	—	—	—	—	—	—	—	—	—	—	—	180.63	4.62	176.01	—
H-1	11/13/2006	—	—	—	—	—	—	—	—	—	—	—	180.63	3.89	176.74	—
H-1	01/30/2007	—	—	—	—	—	—	—	—	—	—	—	180.63	3.04	177.59	—
H-1	05/23/2007	330 i	7.9	0.32 j	0.48 j	0.61 j	—	74	—	—	—	—	180.63	3.38	177.25	—
H-1	08/09/2007	—	—	—	—	—	—	—	—	—	—	—	180.63	4.30	176.33	—
H-1	11/13/2007	—	—	—	—	—	—	—	—	—	—	—	180.63	1.97	178.66	—
H-1	02/13/2008	—	—	—	—	—	—	—	—	—	—	—	180.63	1.78	178.85	—
H-1	05/20/2008	230	19	<1.0	2.8	2.2	—	23	—	—	—	—	180.63	3.60	177.03	—
H-1	08/04/2008	—	—	—	—	—	—	—	—	—	—	—	180.63	3.27	177.36	—
H-1	12/02/2008	—	—	—	—	—	—	—	—	—	—	—	180.63	4.33	176.30	—
H-1	01/23/2009	—	—	—	—	—	—	—	—	—	—	—	180.63	2.03	178.60	—
H-1	05/05/2009	290	15	<1.0	7.1	4.2	—	36	—	—	—	—	180.63	2.76	177.87	—
H-1	08/07/2009	—	—	—	—	—	—	—	—	—	—	—	180.63	5.49	175.14	—
H-1	02/03/2010	2,700	85	1.5	130	62	—	24	—	—	—	—	180.63	2.45	178.18	—
H-1	08/31/2010	—	—	—	—	—	—	—	—	—	—	—	180.63	4.12	176.51	—
H-1	02/10/2011	1,800	51	1.3	120	65	—	36	—	—	—	—	180.63	3.10	177.53	—
H-1	07/22/2011	—	—	—	—	—	—	—	—	—	—	—	180.63	3.52	177.11	—

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water	Elevation	Reading
H-1	02/07/2012	560	20	<0.50	26	6.0	---	23	---	---	---	---	180.63	2.68	177.95	---
H-1	07/19/2012	---	---	---	---	---	---	---	---	---	---	---	180.63	5.48	175.15	---
H-1	01/25/2013	260	3.5	<0.50	1.1	<1.0	---	20	---	---	---	---	180.63	3.69	176.94	---
H-1	08/08/2013	---	---	---	---	---	---	---	---	---	---	---	180.63	5.44	175.19	---
H-1	02/11/2014	580	53	0.72	13	19	---	27	---	---	---	---	180.63	2.21	178.42	---
H-1	08/29/2014	---	---	---	---	---	---	---	---	---	---	---	180.63	5.74	174.89	---
T-1	05/30/1997	---	---	---	---	---	---	---	---	---	---	---	---	2.65	---	---
T-1	08/21/1997	---	---	---	---	---	---	---	---	---	---	---	---	2.69	---	---
T-1	11/03/1997	---	---	---	---	---	---	---	---	---	---	---	---	3.09	---	---
T-1	01/20/1998	---	---	---	---	---	---	---	---	---	---	---	---	0.61	---	---
T-1	07/23/1998	---	---	---	---	---	---	---	---	---	---	---	---	2.32	---	---
T-1	02/16/1999	---	---	---	---	---	---	---	---	---	---	---	---	1.95	---	---
T-1	09/07/1999	---	---	---	---	---	---	---	---	---	---	---	---	2.48	---	---
T-1	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	---	2.66	---	2.5
T-1	04/26/2000	---	---	---	---	---	---	---	---	---	---	---	---	2.56	---	---
T-1	07/25/2000	---	---	---	---	---	---	---	---	---	---	---	---	2.60	---	---
T-1	11/15/2000	---	---	---	---	---	---	---	---	---	---	---	---	2.47	---	---
T-1	02/12/2001	---	---	---	---	---	---	---	---	---	---	---	---	1.20	---	---
T-1	06/07/2001	---	---	---	---	---	---	---	---	---	---	---	---	2.36	---	---
T-1	08/31/2001	---	---	---	---	---	---	---	---	---	---	---	---	3.45	---	---
T-1	01/09/2002	---	---	---	---	---	---	---	---	---	---	---	183.08	---	---	---
T-2	05/30/1997	---	---	---	---	---	---	---	---	---	---	---	---	1.81	---	---
T-2	08/21/1997	---	---	---	---	---	---	---	---	---	---	---	---	1.89	---	---
T-2	11/03/1997	---	---	---	---	---	---	---	---	---	---	---	---	2.25	---	---
T-2	01/20/1998	---	---	---	---	---	---	---	---	---	---	---	---	0.55	---	---
T-2	07/23/1998	---	---	---	---	---	---	---	---	---	---	---	---	1.21	---	---
T-2	02/16/1999	---	---	---	---	---	---	---	---	---	---	---	---	1.08	---	---
T-2	09/07/1999	---	---	---	---	---	---	---	---	---	---	---	---	0.72	---	---

TABLE 3

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water (ft TOC)	Elevation (ft MSL)	Reading (mg/L)
T-2	02/02/2000	1,540	53.4	20.8	11.4	21.8	1,330	---	---	---	---	---	---	0.98	---	3.0
T-2	04/26/2000	---	---	---	---	---	---	---	---	---	---	---	---	1.02	---	---
T-2	07/25/2000	815	17.6	10.8	1.63	3.47	133	---	---	---	---	---	---	1.80	---	0.8
T-2	11/15/2000	---	---	---	---	---	---	---	---	---	---	---	---	1.68	---	---
T-2	02/12/2001	310	7.48	7.76	0.693	2.28	301	---	---	---	---	---	---	1.45	---	1.6
T-2	06/07/2001	---	---	---	---	---	---	---	---	---	---	---	---	1.57	---	---
T-2	08/31/2001	720	30	0.67	<0.50	2.3	---	540	---	---	---	---	---	2.69	---	0.8
T-2	12/05/2001	---	---	---	---	---	---	---	---	---	---	---	---	0.58	---	---
T-2	01/31/2002	---	---	---	---	---	---	---	---	---	---	---	---	1.32	---	---
T-2	02/04/2002	1,000	41	30	4.6	20	---	1,200	---	---	---	---	---	1.46	---	---
T-2	06/04/2002	---	---	---	---	---	---	---	---	---	---	---	---	1.50	---	---
T-2	07/25/2002	660	11	0.59	<0.50	2.6	---	97	---	---	---	---	---	1.53	---	---
T-2	11/14/2002	---	---	---	---	---	---	---	---	---	---	---	182.30	2.39	179.91	---
T-2	01/30/2003	560	11	<0.50	<0.50	0.53	---	160	---	---	---	---	182.30	1.01	181.29	---
T-2	06/03/2003	---	---	---	---	---	---	---	---	---	---	---	182.30	1.55	180.75	---
T-2	08/27/2003	180 d	1.6	<0.50	<0.50	<1.0	---	10	---	---	---	---	182.30	1.60	180.70	---
T-2	11/25/2003	---	---	---	---	---	---	---	---	---	---	---	182.30	1.64	180.66	---
T-2	02/05/2004	940	110	10	2.4	14	---	67	---	---	---	---	182.30	0.66	181.64	---
T-2	04/21/2004	---	---	---	---	---	---	---	---	---	---	---	182.30	1.50	180.80	---
T-2	08/12/2004	450	<0.50	<0.50	<0.50	<1.0	---	33	---	---	---	---	182.30	2.72	179.58	---
T-2	11/08/2004	---	---	---	---	---	---	---	---	---	---	---	182.30	1.72	180.58	---
T-3	05/30/1997	---	---	---	---	---	---	---	---	---	---	---	---	2.31	---	---
T-3	08/21/1997	---	---	---	---	---	---	---	---	---	---	---	---	1.57	---	---
T-3	11/03/1997	---	---	---	---	---	---	---	---	---	---	---	---	3.50	---	---
T-3	01/20/1998	---	---	---	---	---	---	---	---	---	---	---	---	0.76	---	---
T-3	07/23/1998	---	---	---	---	---	---	---	---	---	---	---	---	0.82	---	---
T-3	02/16/1999	---	---	---	---	---	---	---	---	---	---	---	---	0.55	---	---
T-3	09/07/1999	---	---	---	---	---	---	---	---	---	---	---	---	2.89	---	---
T-3	02/02/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	---	---	---	---	---	---	3.02	---	2.9

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE		TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to	GW	DO
							8020 (µg/L)	8260 (µg/L)						Water (ft TOC)	Elevation (ft MSL)	Reading (mg/L)
T-3	04/26/2000	--	--	--	--	--	--	--	--	--	--	--	--	2.81	--	--
T-3	07/25/2000	--	--	--	--	--	--	--	--	--	--	--	--	3.00	--	--
T-3	11/15/2000	--	--	--	--	--	--	--	--	--	--	--	--	1.70	--	--
T-3	02/12/2001	--	--	--	--	--	--	--	--	--	--	--	--	2.11	--	--
T-3	06/07/2001	--	--	--	--	--	--	--	--	--	--	--	--	1.68	--	--
T-3	08/31/2001	--	--	--	--	--	--	--	--	--	--	--	--	3.14	--	--
T-3	01/09/2002	--	--	--	--	--	--	--	--	--	--	--	180.95	--	--	--

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to June 7, 2001, analyzed by EPA Method 8015 unless otherwise noted.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to June 7, 2001, analyzed by EPA Method 8020 unless otherwise noted.

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

SPH = Separate-phase hydrocarbon

GW = Groundwater

DO = Dissolved oxygen

µg/L = Micrograms per liter

ft = Feet

MSL = Mean sea level

mg/L = Milligrams per liter

<x = Not detected at reporting limit x

-- = Not analyzed or not available

(D) = Duplicate sample

a = Analytical method unknown

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

b = Ethylbenzene and total xylenes combined

c = Temporary datum of 100.00 feet assigned to TOC

d = Chromatogram pattern indicated an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.

e = Sample analyzed outside of EPA recommended hold time.

f = Sampled by client (Cambria Environmental Technology)

g = Unable to gauge depth to water

h = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

i = Analyzed by EPA Method 8015B (M).

j = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

Site wells surveyed January 9, 2002 by Virgil Chavez Land Surveying

TABLE 4

**HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
5755 BROADWAY, OAKLAND, CALIFORNIA**

ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
B-1-W	8/6/2002	<1,000	<10	<10	<10	<10	3,500	---	---	---	---
B-2-W	8/6/2002	<50	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---
B-3-W	8/6/2002	<50	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---
B-4-W	8/6/2002	<50	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---
B-5-W	8/6/2002	12,000	4.5	<2.0	350	340	380	---	---	---	---
B-6-W	8/7/2002	680	15	<0.50	49	18	30	---	---	---	---
B-7-W	8/7/2002	370	<0.50	<0.50	3.4	11	42	---	---	---	---
B-8-W	8/7/2002	66,000	990	78	2,600	12,000	930	---	---	---	---
B-9-W	8/7/2002	21,000	1,100	47	650	3,300	7,100	---	---	---	---
B-10-W	8/7/2002	31,000	1,800	66	1,300	4,200	9,100	---	---	---	---
B-11-W	8/7/2002	28,000	900	<10	980	2,500	1,200	---	---	---	---
TP-GW-1	12/17/2004	640	11	3.2	6.1	47	38	8.7	<0.50	<0.50	<0.50
<i>Groundwater ESL^a:</i>		500	27	130	43	100	1,800	18,000	NA	NA	NA

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B

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

µg/L = Micrograms per liter

<x = Not detected at reporting limit x

--- = Not analyzed

ESL = Environmental screening level

NA = No applicable ESL

Results in **bold** equal or exceed applicable ESL

a = San Francisco Bay Regional Water Quality Control Board ESL for groundwater where groundwater is a source of drinking water (Table C 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] - Updated December 2013).