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

December 27, 2012

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

Mr. Richard Burge
Burge-Pacific Enterprises, Inc.
490 Grand Avenue, Suite 200
Oakland, CA 94610

Subject: Case Closure for Fuel Leak Case No. RO0000505 and GeoTracker Global ID T0600102237, 7-Eleven #20009, 2350 Harrison Street, Oakland, CA 94612

Dear Mr. Brown and Mr. Burge:

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 diesel remains in soil at concentrations up to 22,000 ppm.
- Total Petroleum hydrocarbons as gasoline remains in groundwater at concentrations up to 3,500 ppb.
- As described in section IV of the attached Case Closure Summary, the case was closed with Site Management Requirements that limit future land use to the current commercial land use as a convenience store and the existing building only.

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

Sincerely,

Donna L. Drogos, P.E.
Division Chief

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

cc:

Leroy Griffin (w/enc)
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*

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

December 27, 2012

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

Mr. Richard Burge
Burge-Pacific Enterprises, Inc.
490 Grand Avenue, Suite 200
Oakland, CA 94610

Subject: Case Closure for Fuel Leak Case No. RO0000505 and GeoTracker Global ID T0600102237, 7-Eleven #20009, 2350 Harrison Street, Oakland, CA 94612

Dear Mr. Brown and Mr. Burge:

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,

Anu Levi
Director

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

I. AGENCY INFORMATION

Date: July 19, 2012

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 / 7-Eleven #20009		
Site Facility Address: 2350 Harrison Street, Oakland, CA 94612		
RB Case No.: 01-2428	Local Case No.: STiD 4596	LOP Case No.: RO0000505
URF Filing Date: 7/1/2008	Geotracker ID: T0600102237	APN: 10-768-1

Responsible Parties	Addresses	Phone Numbers
Richard Burge	Burge Pacific Enterprises 490 Grand Avenue, Suite #20 Oakland, CA 94610-5057	---
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
---	10,000	Gasoline	Removed	March 1977
---	8,000	Gasoline	Removed	March 1977
---	5,000	Gasoline	Removed	March 1977
---	550	Waste Oil	Removed	March 1977
Piping			Removed	March 1977

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. Petroleum hydrocarbons in the gasoline and diesel range were detected in soil and groundwater in the area of the former USTs. Petroleum hydrocarbons in the motor oil, kerosene, and hydraulic oil range were detected outside the area of the former USTs. The source of the heavier hydrocarbons is not known.		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? Yes	Number: 6	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 3.13 fbgs	Lowest Depth: 10.92 fbgs	Flow Direction: Variable on site; regional flow is to the south towards Lake Merritt.
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: Four water supply wells or unknown wells are located within 2,000 feet of the site. The nearest water supply wells are two domestic and irrigation wells located approximately 1,300 feet southwest of the site. Based on the distance from the site, the domestic and irrigation wells are not expected to be receptors for the site. A third unknown well is located approximately 1,350 feet south of the site and a fourth unknown water supply is located approximately 1,900 feet northwest of the site. Based on the distance from the site, the unknown wells are not expected to be receptors for the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: Glen Echo Creek flows underground along Harrison Street and surfaces 280 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 City of Oakland Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tanks	1-10,000-gallon 1-8,000-gallon 1-5,000-gallon 1-550-gallon	Not Reported	March 1977
Piping	Not Reported	Not Reported	March 1977
Free Product	----	----	----
Soil	----	----	----
Groundwater	----	----	----

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)	2,700	2,700	8,000(1)	3,500(1)
TPH (Diesel)	22,000	22,000	3,000(2)	728(2)
TPH (Motor Oil)	23,000	23,000	< 250	<250
Oil and Grease	8,600	8,600	4,400(3)	< 3,880(3)
Benzene	2.4	2.4	270(4)	160(4)
Toluene	0.0063	0.0063	25(5)	2.77(5)
Ethylbenzene	0.0082	0.0082	78(6)	53.9(6)
Xylenes	0.0485	0.0485	19.1(5)	3.2(5)
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	10.8(7)	10.8(7)	Not Analyzed	Not Analyzed
MTBE	<0.005(8)	<0.0005(8)	<5(9)	<2(10)
Other (8240/8270)	0.2(11)	0.2(11)	Not Analyzed	Not Analyzed

1) The maximum concentration before cleanup is from a groundwater sample from well S-6 on 09/17/2008; the maximum concentration after cleanup is from a groundwater sample collected from well S-1 during the most recent groundwater monitoring event on 12/15/2011.
(2) The maximum concentration before cleanup is from a groundwater sample from well S-6 on 09/17/2008; the maximum concentration after cleanup is from a groundwater sample collected from well S-2 during the most recent groundwater monitoring event on 12/15/2011.
(3) The maximum concentration before cleanup is from a groundwater sample from well S-4 on 12/11/2008; the maximum concentration after cleanup is from a groundwater sample collected from well S-4 during the most recent groundwater monitoring event on 12/15/2011.
(4) The maximum concentration before cleanup is from a groundwater sample from well S-1 on 02/25/2009; the maximum concentration after cleanup is from a groundwater sample collected from well S-1 during the most recent groundwater monitoring event on 12/15/2011.
(5) The maximum concentration before cleanup is from a groundwater sample from well S-6 on 06/11/2008; the maximum concentration after cleanup is from a groundwater sample collected from well S-1 during the most recent groundwater monitoring event on 12/15/2011.
(6) The maximum concentration before cleanup is from a groundwater sample from well S-1 on 09/17/2008; the maximum concentration after cleanup is from a groundwater sample collected from well S-1 during the most recent groundwater monitoring event on 12/15/2011
(7) Total lead = 10.8 ppm; Cadmium <0.005 ppm; Chromium = 33 ppm; Nickel = 51.5 ppm; and Zinc = 38.6 ppm.
(8) MTBE <0.005 ppm; TBA<0.05 ppm; DIPE, TAME, ETBE<0.01 ppm; EDB and EDC<0.005 ppm.
(9) MTBE <5.0 ppb; TBA = 190 ppb; DIPE = 22 ppb; ETBE and TAME <2.0 ppb; EDC <0.5 ppb; and EDB <1.0 ppb.
(10) MTBE <2.0 ppb; TBA = 130 ppb; DIPE = 22 ppb; ETBE and TAME <4.0 ppb; EDC <1.0 ppb; and EDB <2.0 ppb.
(11) Napthalene = 0.2 ppm; 1-methylnapthalene = 1.4 ppm; PCBs <0.05 ppm.

Site History and Description of Corrective Actions:

The site is a small triangular commercial property located at the intersection of Harrison Street and Bay Place in Oakland, CA. The site was previously a Shell gas station and auto repair facility equipped with three underground storage tanks (USTs), one 550-gallon waste oil tank UST, three dispenser islands, a drive-on hoist, and a station building. The USTs were removed from the center of the property in March 1977, but no records are available that document their removal. Three dispenser islands existed to the west, north, and east of the former USTs. Currently, the site is occupied by a 7-Eleven convenience store and the surrounding area is predominantly a mix of commercial and residential use.

During a light pole installation at the site, petroleum impacted soil was observed. Composite stockpile soil samples were collected on November 2, 1992 from the soil generated during the light pole work and analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), lubricating oil, and other heavier petroleum hydrocarbons. The soil sample collected from Soil Pile 1 contained the highest concentrations of 3,200 parts per million (ppm) lubricating oil and 35 ppm Oil and grease (O&G).

On March 4, 1993, four soil borings (#1 through #4) were advanced at locations across the site. One soil sample from each boring was analyzed for TPHg, TPHd, BTEX, O&G, Total Petroleum Hydrocarbons as kerosene (TPHk), Total Petroleum Hydrocarbons as mineral spirits (TPHms), and lubricating oil. The maximum concentrations of 7,900 ppm TPHmo and 620 ppm TPHg were detected in the soil sample from boring #4, in the east portion of the site.

Six monitoring wells (S-1 through S-6) were installed throughout the site on June 2 through 5, 2008. Soil samples were collected from each boring between 5.5 and 15.5 fbgs, along with one groundwater sample. Groundwater was first encountered at the site between 8.2 and 19 fbgs. The soil samples indicated that the highest concentration of petroleum hydrocarbons occurred in shallow soils between 7 and 10 fbgs. Shallow soils in the southeast portion of the site contained up to 2,300 ppm TPHg, 22,000 ppm TPHd, and 8,600 ppm O&G. Shallow soils near the western-most dispenser contained up to 2,700 ppm TPHg and 270 ppm TPHd. Groundwater samples collected from the former UST area and southeast corner of the site contained TPHg concentrations of 6,500 parts per billion (ppb) and 1,300 ppb, respectively.

To investigate the potential for the petroleum plume to extend off-site, two grab groundwater samples (HP-1 and HP-2) were collected down gradient along Harrison Street on May 19 through 21, 2009. The grab groundwater sample collected furthest from the site (HP-2) contained 715,000 ppb O& G, 14,000 ppb TPHg, and 58,000 ppb TPHd, while the closer groundwater sample (HP-1) contained 111,000 ppb O&G. 11,000 ppb TPHg and 36,000 ppb TPHd. The grab groundwater samples indicated the potential for an offsite plume of heavier hydrocarbons. In addition to the off-site samples, four soil borings (B-1 through B-4) were advanced in the former waste oil tank area. The shallow soil sample collected from boring B-1 at 5.5 fbgs contained the highest concentration of O&G at 3,000 ppm. TPHg and TPHd were detected in all borings at maximum concentrations of 920 ppm and 700 ppm, respectively. Three soil vapor probes (SVP-1 through SVP-3) were also installed near the former USTs and waste oil UST and sampled on May 28, 2009. The vapor probes contained up to 530,000 micrograms per cubic meter ($\mu g/m^3$) benzene.

On February 27, 2010, one soil vapor probe (SVP-2a) and two near sub-slab vapor probes (SVP-4 and SVP-5) were installed. Sampling of the vapor probes on occurred on March 23, 2010. TPHg and benzene were detected in soil vapor near the former USTs at concentrations up to 75,000,000 $\mu g/m^3$ and 160,000 $\mu g/m^3$, respectively. Soil vapor samples from the two near sub-slab probes did not contain TPHg, benzene, toluene, ethylbenzene, or xylenes (BTEX) at concentrations above the reporting limit.

Site History and Description of Corrective Actions (continued):

On June 25, 2010, six soil borings (B-5 through B-10) were advanced off-site to investigate contamination south of the site. The investigation revealed a large plume of petroleum hydrocarbons south of the site consisting of O&G, TPHd, and TPHg with the highest concentrations detected along Harrison Street approximately 175 feet southwest of the site The plume does not contain BTEX or other VOCs at concentrations above reporting limits. Since the maximum concentrations within the plume were detected approximately 175 feet downgradient from the site and the types of petroleum hydrocarbons are not consistent with the dissolved phase hydrocarbons detected on site, the plume is most likely from an off-site source. In 2011, a review of historical aerial photos and Sanborn maps identified five potential sources for the off-site heavy petroleum hydrocarbon plume.

On March 30, 2011, soil vapor probes SVP-3 through SVP-5 were sampled. Soil vapor probes SVP-1, SVP-2, and SVP-2a could not be sampled due to water in the sampling tubing. Due to anomalous results of up to 190,000 µg/m3 TPHg in near sub-slab vapor probes SVP-4 and SVP-5, the probes were re-sampled on June 8, 2011. The re-sampling of probes SVP-4 and SVP-5 indicated non-detectable concentrations of TPHg and 2.2 $\mu g/m^3$ benzene were present in the near sub-slab wells. Probe SVP-3, located less than five feet north of near sub-slab probe SVP-5, contained 26,000,000 $\mu g/m^3$ TPHg, 1,400 $\mu g/m^3$ benzene, and 1,700 $\mu g/m^3$ xylenes.

An air exchange rate test was performed on the existing convenience store building on December 19, 2011. The initial measurements of the air exchange rate indicated an overall average of 3.11 exchanges per hour. Due to a relatively low air exchange rate, the test was followed by system maintenance which increased the HVAC performance to an air exchange rate of 11.49 exchanges per hour. The minimum required air exchange rate was calculated to determine the potential for intrusion of benzene from soil vapor to indoor air to exceed the commercial indoor air Environmental Screening Level (ESL). Using site data and assumptions from EPA and RWQCB documents, the calculated necessary air exchange rate to prevent benzene vapor intrusion at concentrations exceeding the indoor air ESL is 2.3 exchanges per hour. The current air exchange rate is greater than the calculated minimum air exchange rate by a factor of 5.

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, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: Case closure for this fuel leak site is granted for the current commercial land use as a convenience store and the existing building only. If a change in land use to any residential, commercial other than as a convenience store, or conservative land use, or if any re-development, or if additions to the site building occur, 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. 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: 6
List Enforcement Actions Taken: ---		
List Enforcement Actions Rescinded: ---		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

Elevated concentrations of TPH and benzene were detected in soil vapor at locations immediately north of the existing building beneath the parking lot. Based on results from shallow soil vapor sampling adjacent to the building and air exchange measurements inside the building, there does not appear to be a significant threat of vapor intrusion to indoor air for the existing building. Further evaluation would be required if construction of additional structures was planned in the area of the former USTs.

A plume of petroleum hydrocarbons consisting of O&G, TPHd, and TPHg at maximum groundwater concentrations of 715,000 ppb, 58,000 ppb, and 14,000 ppb extends more than 400 feet south of the site. The highest concentrations were detected along Harrison Street approximately 175 feet southwest of the site. The plume does not contain BTEX or other VOCs at concentrations above reporting limits. Since the maximum concentrations within the plume were detected approximately 175 feet downgradient from the site and the types of petroleum hydrocarbons are not consistent with the dissolved phase hydrocarbons detected on site, the plume is most likely from an off-site source.

Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment under the current commercial land use and the existing building use as a convenience store. No further investigation or cleanup for the fuel leak case is necessary at this time. However, due to the potential for vapor intrusion and as specified in the Site Management Requirements, re-evaluation of this case may be required if land uses changes to any residential land use, commercial land use other than as a convenience store, or other conservative land use scenario; or construction or excavation activities take place or the building structure is otherwise modified. ACEH staff recommend closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham, P.G.	Title: Senior Hazardous Materials Specialist
Signature: Jerry Wickham	Date: 07/19/12
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: Donna L. Drogos	Date: 07/19/12

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: 07/24/12	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 08/23/12	Date of Well Decommissioning Report: 10/10/12	
All Monitoring Wells Decommissioned: (Yes) No	Number Decommissioned: 12	Number Retained: 0
Reason Wells Retained: N A		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: Jerry Wickham		Date: 12/27/12

Attachments:

1. Site Vicinity Maps (2 pp)
2. Site Plans and Groundwater Contour Maps (4 pp)
3. Chemical Concentration Maps (5 pp)
4. Soil and Soil Vapor Analytical Data (13 pp)
5. Groundwater Analytical Data (5 pp)
6. Boring Logs (22 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.

Wickham, Jerry, Env. Health

From: MCcaulou, Cherie@Waterboards [CMccaulou@waterboards.ca.gov]
Sent: Wednesday, July 25, 2012 2:23 PM
To: Wickham, Jerry, Env. Health
Subject: RE: RO505 Pending case closure for RO505 at 2350 Harrison Street, Oakland

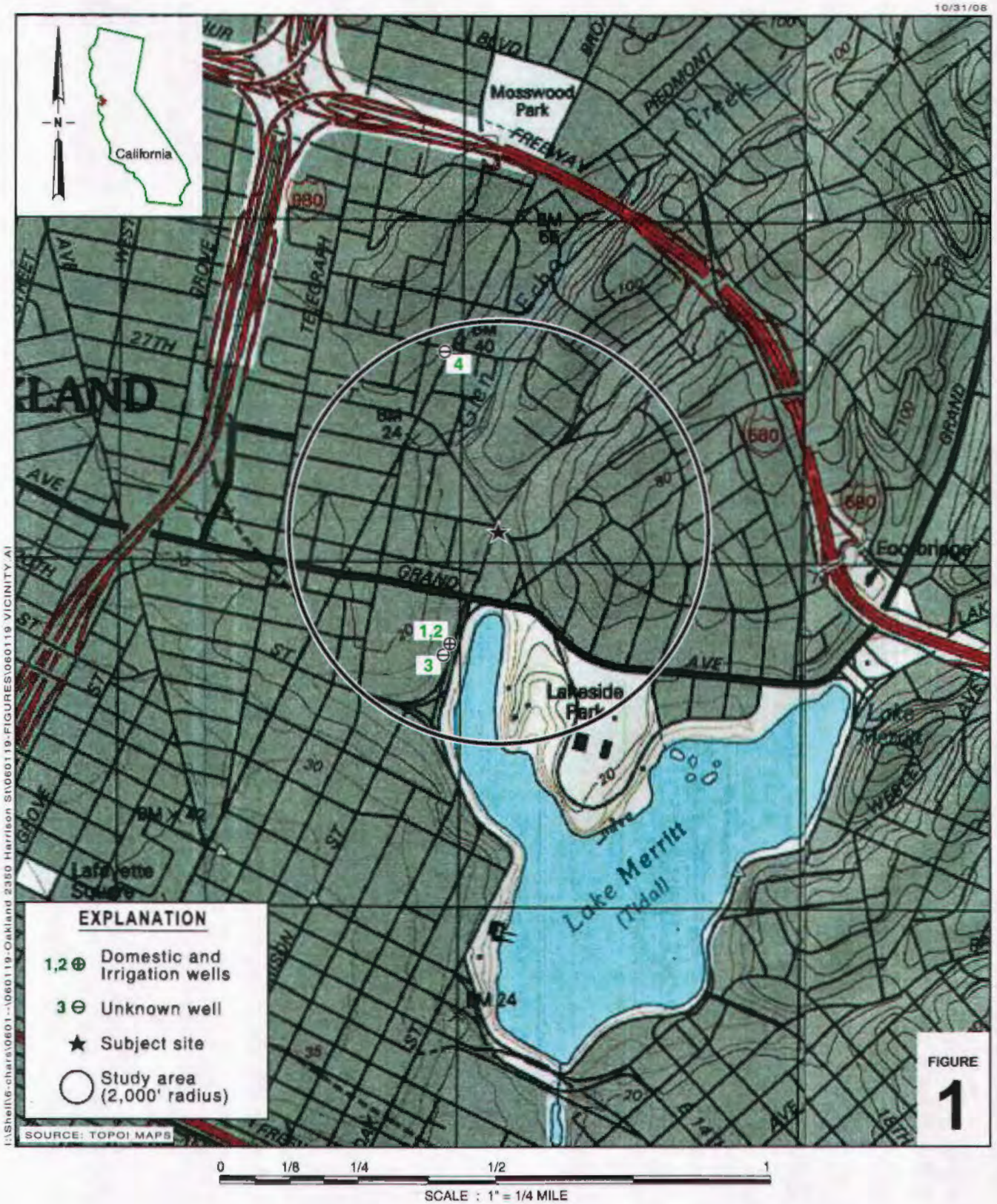
Jerry – Thank you for the notification of case closure for RO505 at 2350 Harrison Street, Oakland. We understand ACWD will proceed with case closure.

From: Jerry Env. Health Wickham [mailto:jerry.wickham@acgov.org]
Sent: Tuesday, July 24, 2012 4:18 PM
To: MCcaulou, Cherie@Waterboards
Subject: RO505 Pending case closure for RO505 at 2350 Harrison Street, Oakland

Hi Cherie,

This email provides notification of pending closure for ACEH case RO505, 2350 Harrison Street, Oakland.

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
phone: 510-567-6791
jerry.wickham@acgov.org



0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Former Shell Service Station

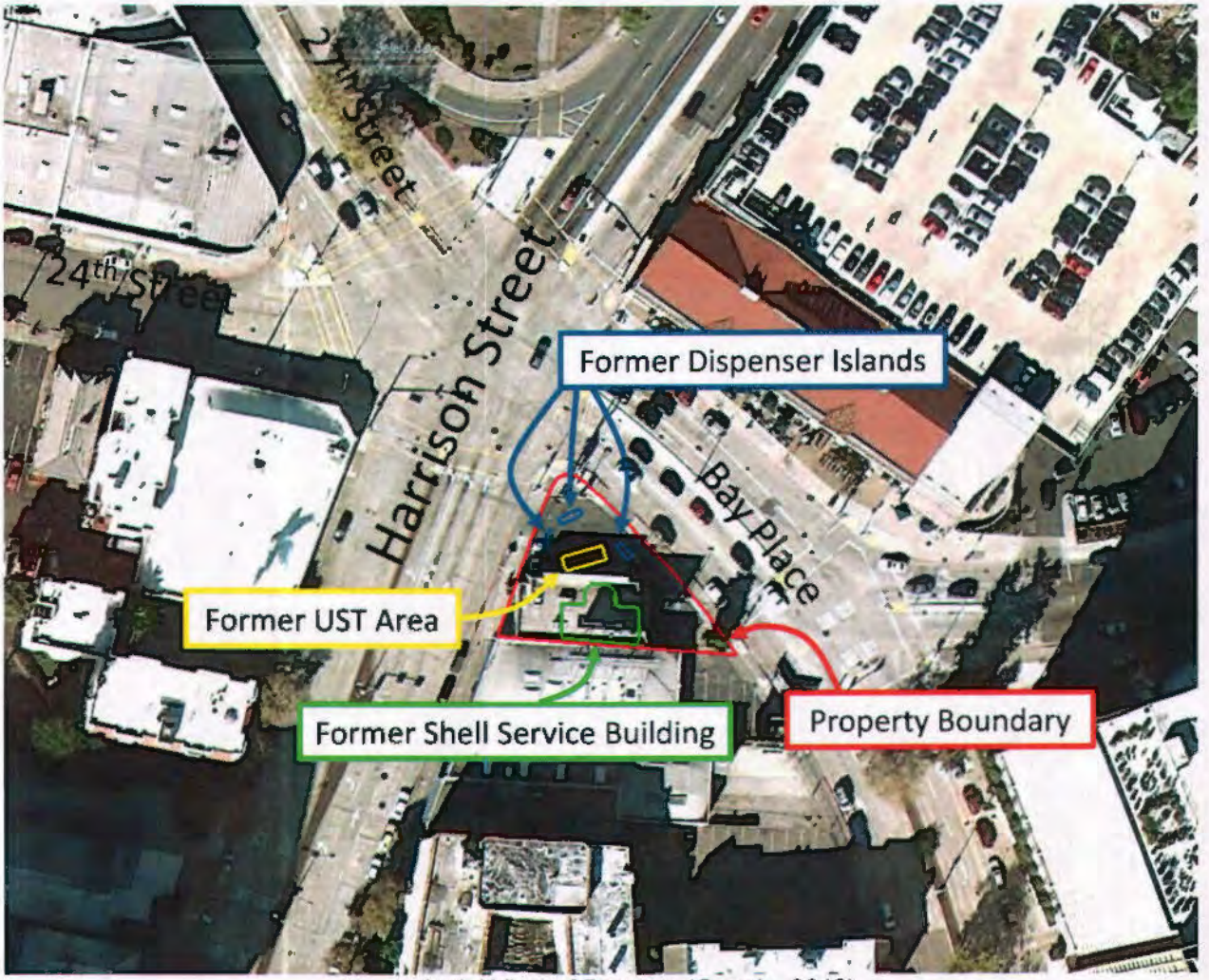
2350 (2368) Harrison Street

Oakland, California

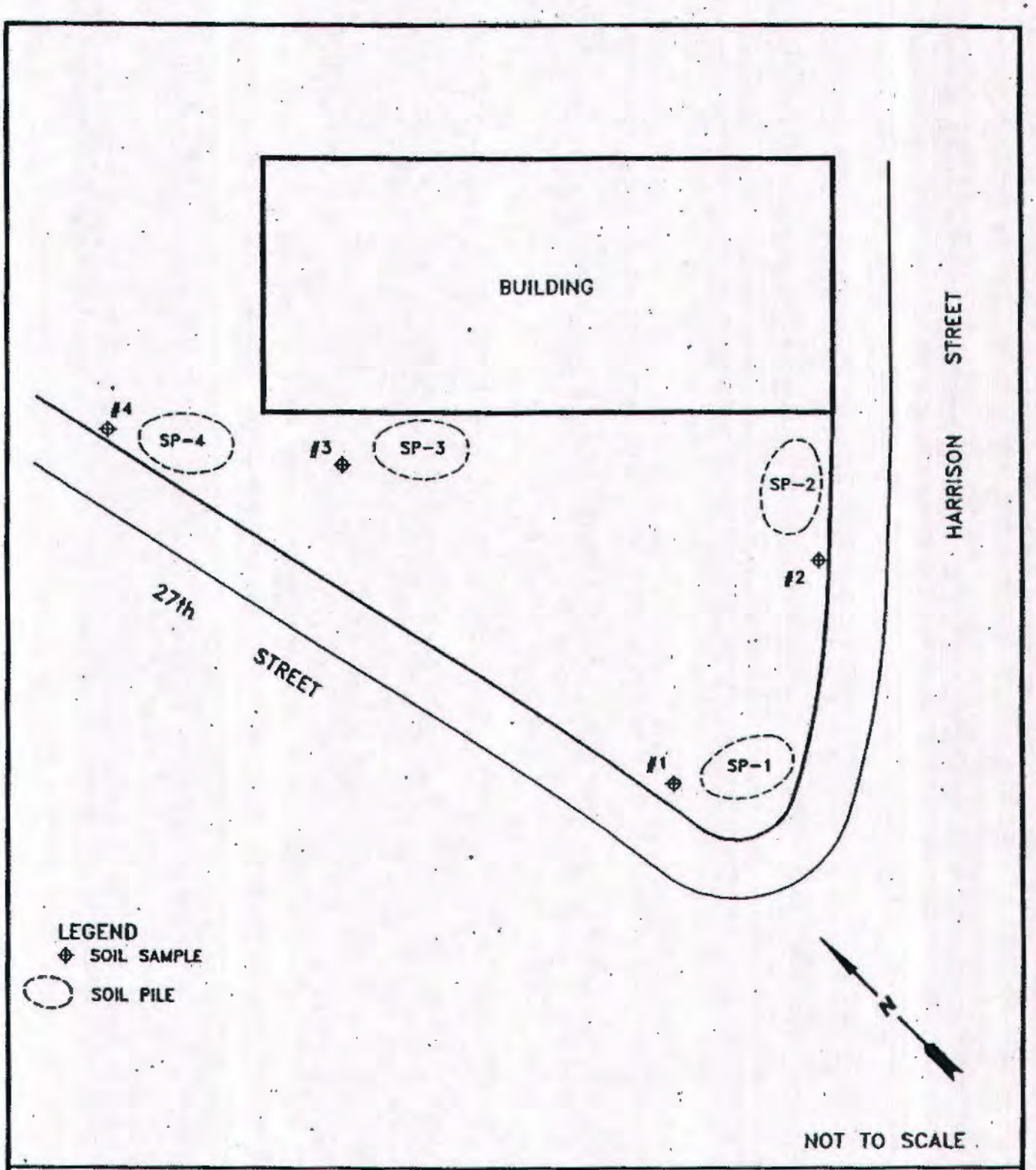
CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

ATTACHMENT 1

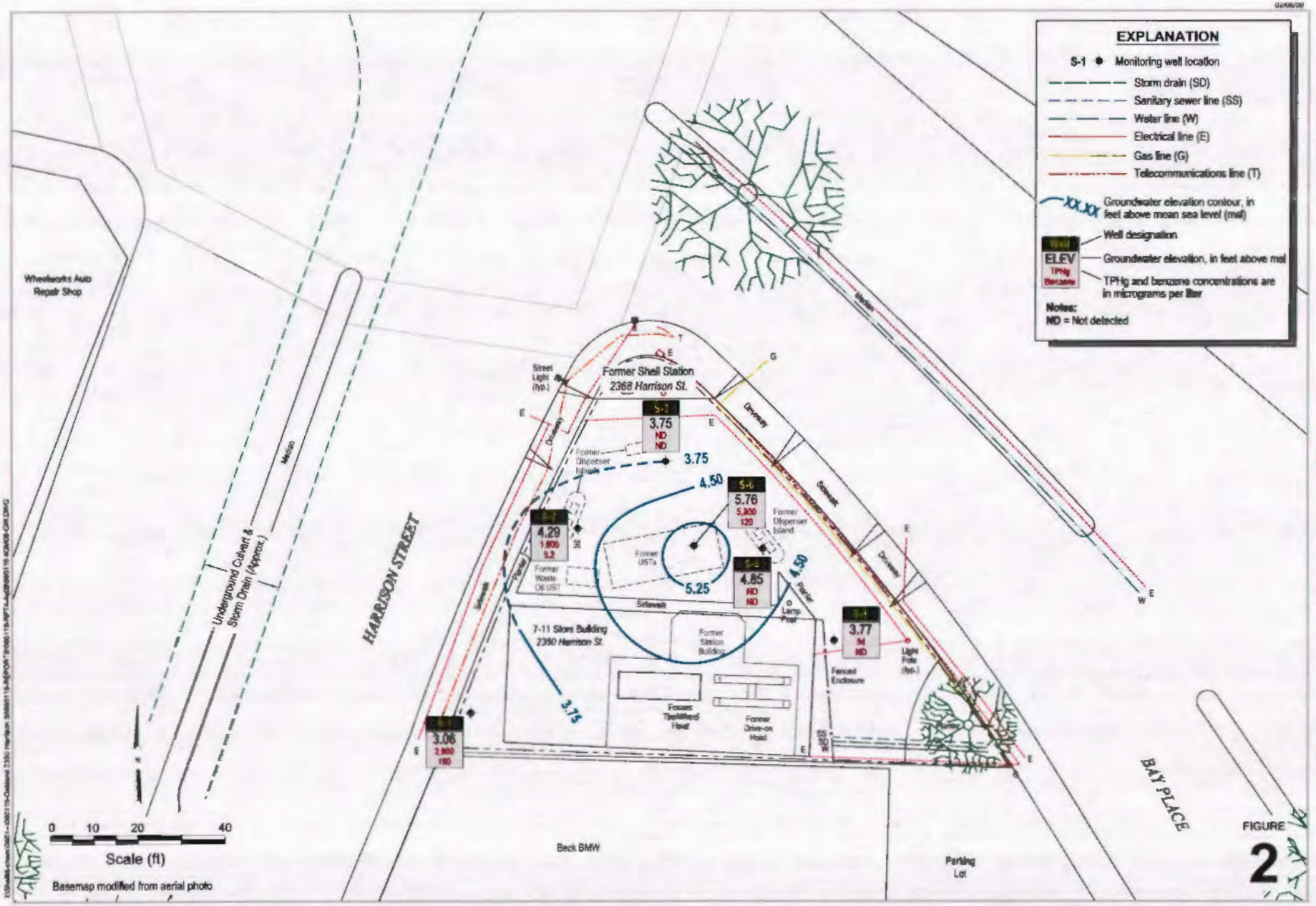


Aerial View of Property (Google, 2012)



GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY. CONCORD, CA 94520 (510) 671-2387				SOIL SAMPLE LOCATION MAP		
CLIENT: BURGE DEVELOPEMENT COMPANY				LOCATION: 2350 HARRISON STREET OAKLAND, CALIFORNIA	REV. NO.: 0	DATE: 4/12/93
PM	PE/RG	DESIGNED SL	DETAILED CY	ACAD FILE: SSLM493	ATTACHMENT 2	

EXPLANATION
S-1 Monitoring well location
B-1 Soil boring location
B-5 Soil boring location, abandoned after 2' due to utility conflict
SVP-1 Soil vapor probe location
HP-3 Hydropunch location
Storm drain (STM)
Sanitary sewer line (SAN)
Water line (W)
Electrical line (E)
Gas line (G)
Telecommunications line (T)
Unknown utility line, indicated by private utility locator
XX.XX Groundwater elevation contour, in feet above mean sea level (msl)
Well designation
ELEV Groundwater elevation, in feet above msl
TPHg and benzene concentrations are in micrograms per liter
Notes:
NA = Not available; well inaccessible
ND = Not detected
NS = Not sampled
Former Shell Station
2368 Harrison St.
HARRISON STREET
BAY PLACE
Underground Culvert & Storm Drain (Approx.)
7-11 Store Building
2390 Harrison St.
Former Station Building
Former Drive-on Hoist
Beck BMW
Parking Lot
Rouse Tire Store
Rouse Tire Store
Offices
Parking Lot
HP-1
HP-2
Scale (ft)
0 10 20 40
FIGURE
2
Former Shell Service Station
2350 (2368) Harrison Street
Oakland, California
Groundwater Contour and Chemical Concentration Map
May 26, 2009
CONESTOGA-ROVERS & ASSOCIATES



Groundwater Contour and Chemical Concentration Map

December 11, 2008

CONESTOGA-ROVERS & ASSOCIATES

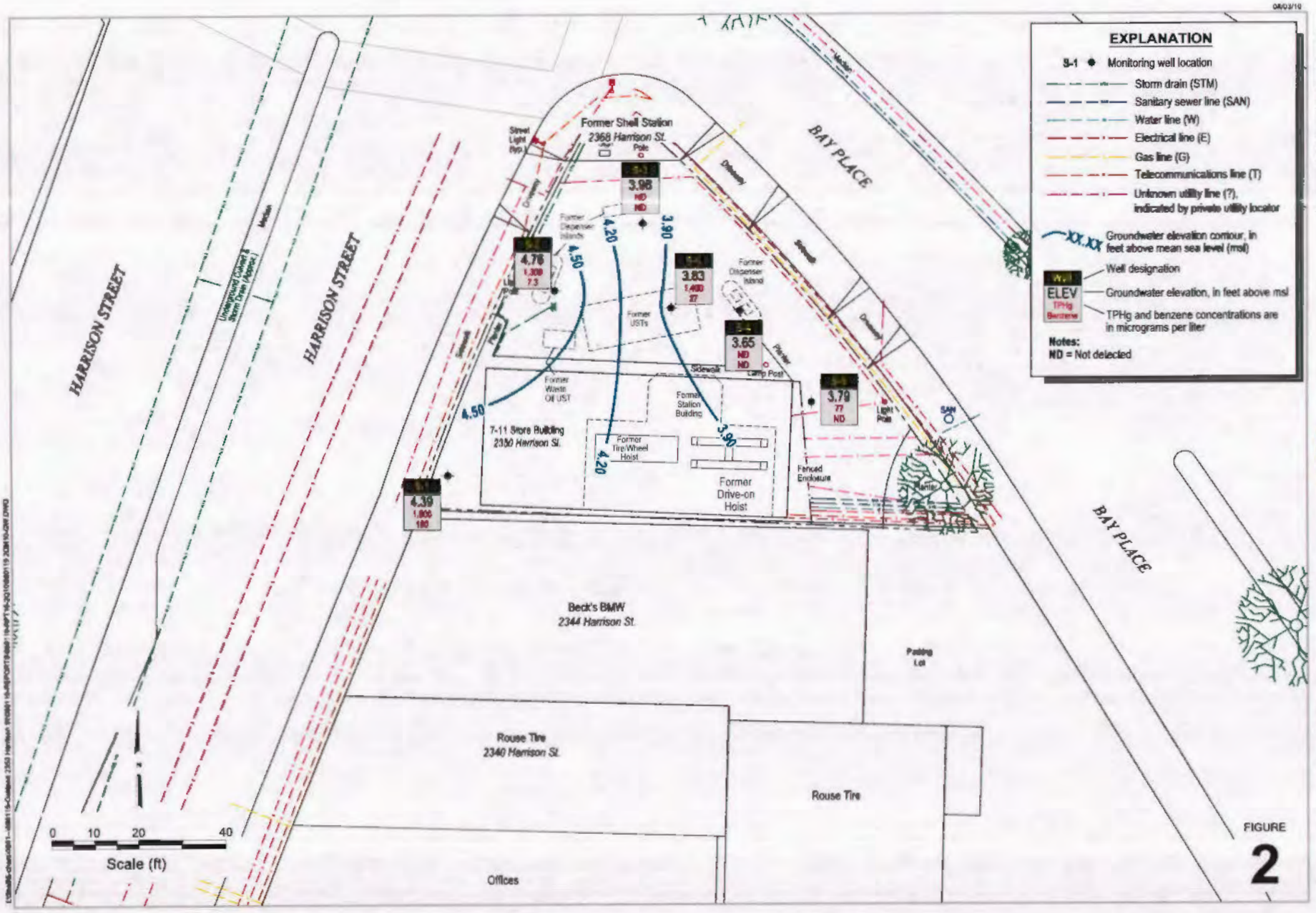
Former Shell Service Station

2350 (2368) Harrison Street

Oakland, California

FIGURE

2



Groundwater Contour and Chemical Concentration Map

May 18, 2010

CONESTOGA-ROVERS & ASSOCIATES

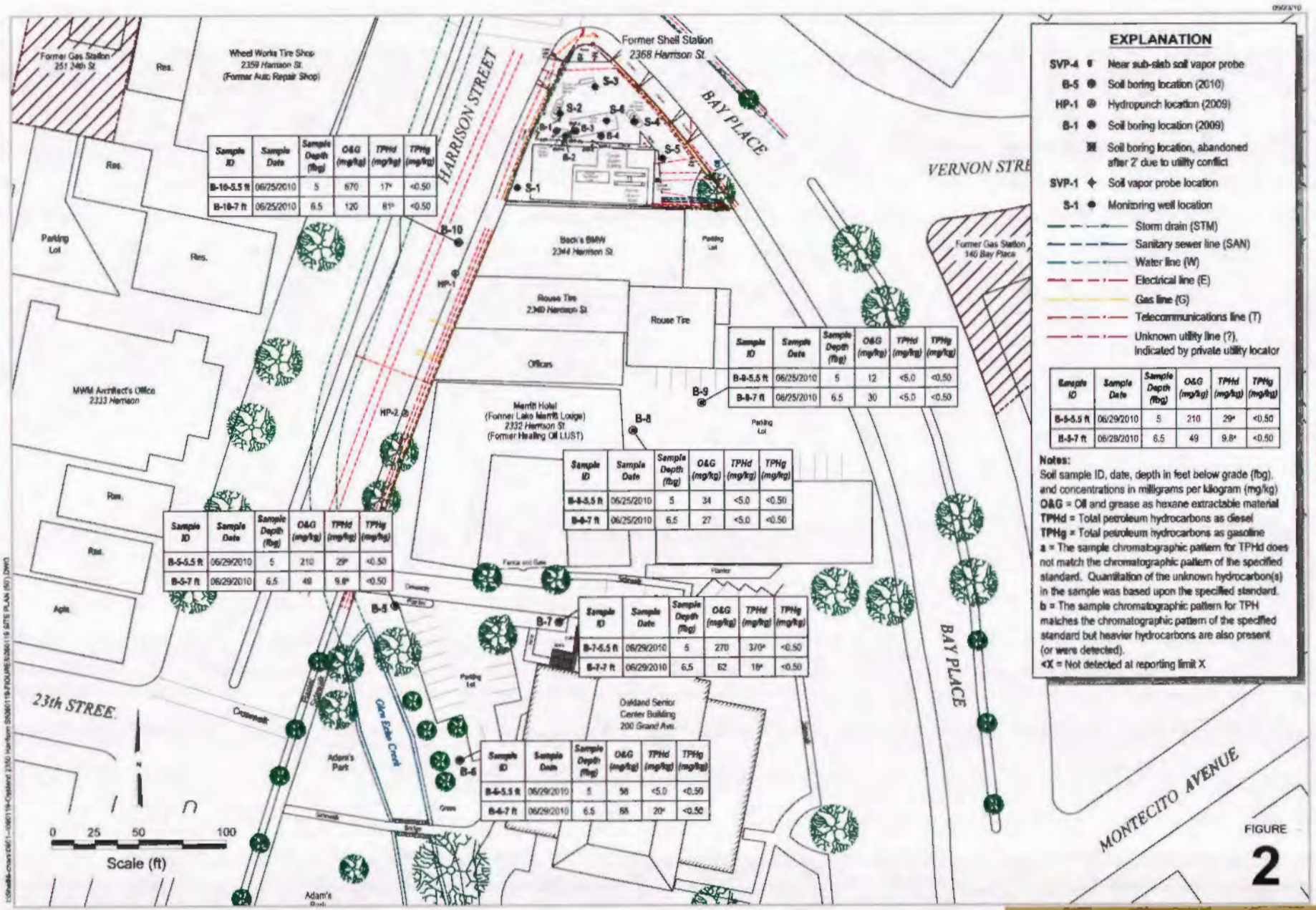
Former Shell Service Station

2350 (2368) Harrison Street

Oakland, California

FIGURE

2



Sample ID	Sample Date	Sample Depth (fbg)	O&G (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)
B-10-5.5 ft	06/25/2010	5	670	17a	<0.50
B-10-7 ft	06/25/2010	6.5	120	81a	<0.50

Sample ID	Sample Date	Sample Depth (fbg)	O&G (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)
B-9-5.5 ft	06/25/2010	5	12	<5.0	<0.50
B-9-7 ft	06/25/2010	6.5	30	<5.0	<0.50

Sample ID	Sample Date	Sample Depth (fbg)	O&G (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)
B-8-5.5 ft	06/25/2010	5	34	<5.0	<0.50
B-8-7 ft	06/25/2010	6.5	27	<5.0	<0.50

Sample ID	Sample Date	Sample Depth (fbg)	O&G (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)
B-5-5.5 ft	06/29/2010	5	210	29a	<0.50
B-5-7 ft	06/29/2010	6.5	49	9.8a	<0.50

Sample ID	Sample Date	Sample Depth (fbg)	O&G (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)
B-7-5.5 ft	06/29/2010	5	270	370a	<0.50
B-7-7 ft	06/29/2010	6.5	62	18a	<0.50

Sample ID	Sample Date	Sample Depth (fbg)	O&G (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)
B-6-5.5 ft	06/29/2010	5	56	<5.0	<0.50
B-6-7 ft	06/29/2010	6.5	68	20a	<0.50

EXPLANATION

- SVP-4 — Near sub-slab soil vapor probe
- B-5 — Soil boring location (2010)
- HP-1 — Hydropunch location (2009)
- B-1 — Soil boring location (2009)
- Soil boring location, abandoned after 2' due to utility conflict
- SVP-1 — Soil vapor probe location
- S-1 — Monitoring well location
- Storm drain (STM)
- Sanitary sewer line (SAN)
- Water line (W)
- Electrical line (E)
- Gas line (G)
- Telecommunications line (T)
- Unknown utility line (?), Indicated by private utility locator

Notes:
Soil sample ID, date, depth in feet below grade (fbg), and concentrations in milligrams per kilogram (mg/kg)
O&G = Oil and grease as hexane extractable material
TPHd = Total petroleum hydrocarbons as diesel
TPHg = Total petroleum hydrocarbons as gasoline
a = The sample chromatographic pattern for TPHd 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.
b = The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons are also present (or were detected).
<X = Not detected at reporting limit X

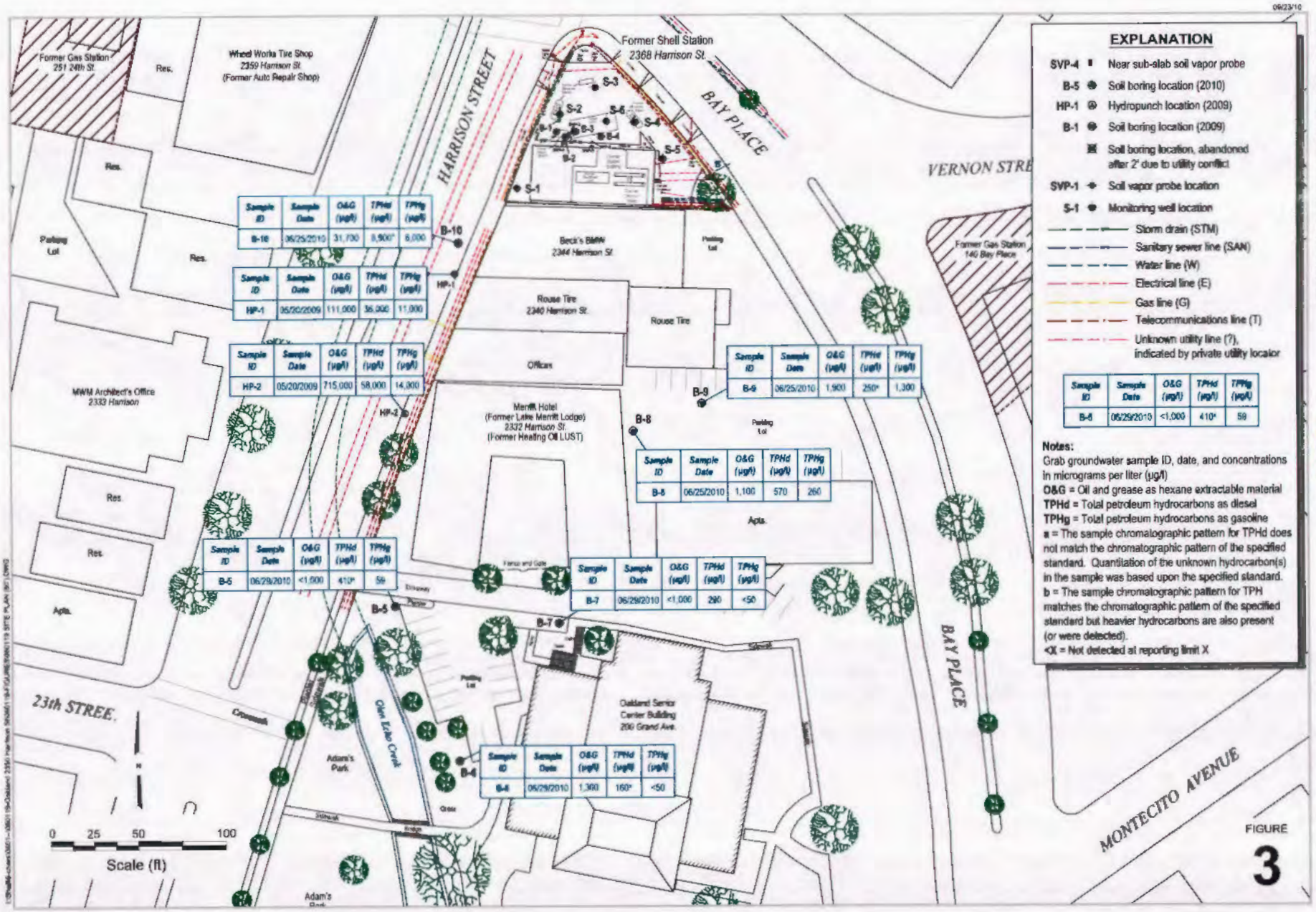
Soil Chemical Concentrations Map

CONESTOGA-ROVERS & ASSOCIATES

Former Shell Service Station
2350 (2368) Harrison Street
Oakland, California

FIGURE
2

ATTACHMENT 3



Sample ID	Sample Date	O&G (µg/l)	TPHd (µg/l)	TPHg (µg/l)
B-10	06/25/2010	31,700	8,900^	6,000

Sample ID	Sample Date	O&G (µg/l)	TPHd (µg/l)	TPHg (µg/l)
HP-1	05/20/2009	111,000	36,000	11,000

Sample ID	Sample Date	O&G (µg/l)	TPHd (µg/l)	TPHg (µg/l)
HP-2	05/20/2009	715,000	58,000	14,000

Sample ID	Sample Date	O&G (µg/l)	TPHd (µg/l)	TPHg (µg/l)
B-9	06/25/2010	1,900	250^	1,300

Sample ID	Sample Date	O&G (µg/l)	TPHd (µg/l)	TPHg (µg/l)
B-8	06/25/2010	1,100	570	260

Sample ID	Sample Date	O&G (µg/l)	TPHd (µg/l)	TPHg (µg/l)
B-5	06/29/2010	<1,000	410^	59

Sample ID	Sample Date	O&G (µg/l)	TPHd (µg/l)	TPHg (µg/l)
B-7	06/29/2010	<1,000	290	<50

Sample ID	Sample Date	O&G (µg/l)	TPHd (µg/l)	TPHg (µg/l)
B-6	06/29/2010	1,300	160^	<50

EXPLANATION

- SVP-4 — Near sub-slab soil vapor probe
- B-5 — Soil boring location (2010)
- HP-1 — Hydropunch location (2009)
- B-1 — Soil boring location (2009)
- Soil boring location, abandoned after 2' due to utility conflict
- SVP-1 — Soil vapor probe location
- S-1 — Monitoring well location
- Storm drain (STM)
- Sanitary sewer line (SAN)
- Water line (W)
- Electrical line (E)
- Gas line (G)
- Telecommunications line (T)
- Unknown utility line (?), indicated by private utility locator

Sample ID	Sample Date	O&G (µg/l)	TPHd (µg/l)	TPHg (µg/l)
B-6	06/29/2010	<1,000	410^	59

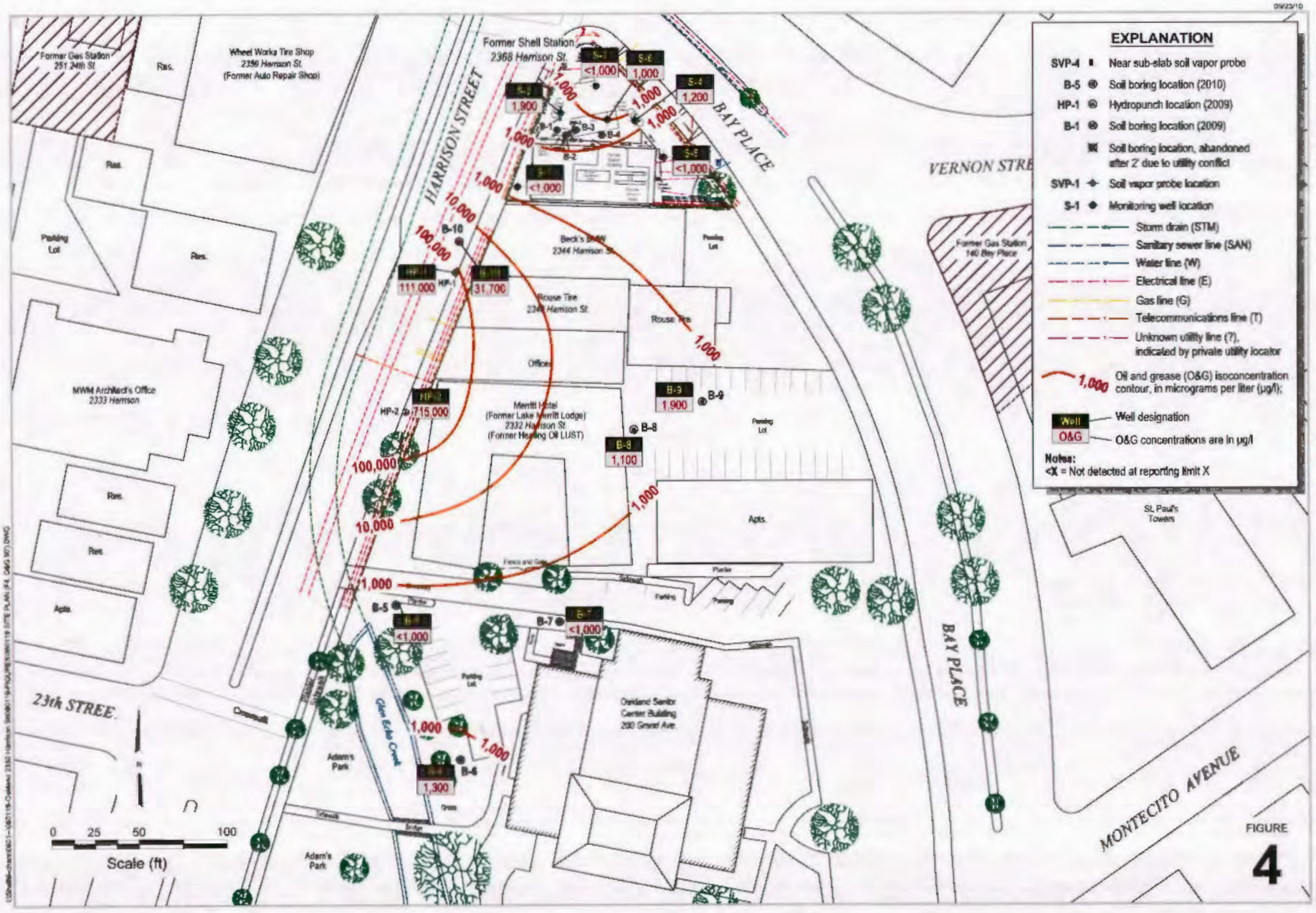
Notes:
Grab groundwater sample ID, date, and concentrations in micrograms per liter (µg/l)
O&G = Oil and grease as hexane extractable material
TPHd = Total petroleum hydrocarbons as diesel
TPHg = Total petroleum hydrocarbons as gasoline
a = The sample chromatographic pattern for TPHd does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
b = The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons are also present (or were detected).
<X = Not detected at reporting limit X

Historical Grab Groundwater Chemical Concentrations Map

CONESTOGA-ROVERS & ASSOCIATES

Former Shell Service Station
2350 (2368) Harrison Street
Oakland, California

FIGURE
3

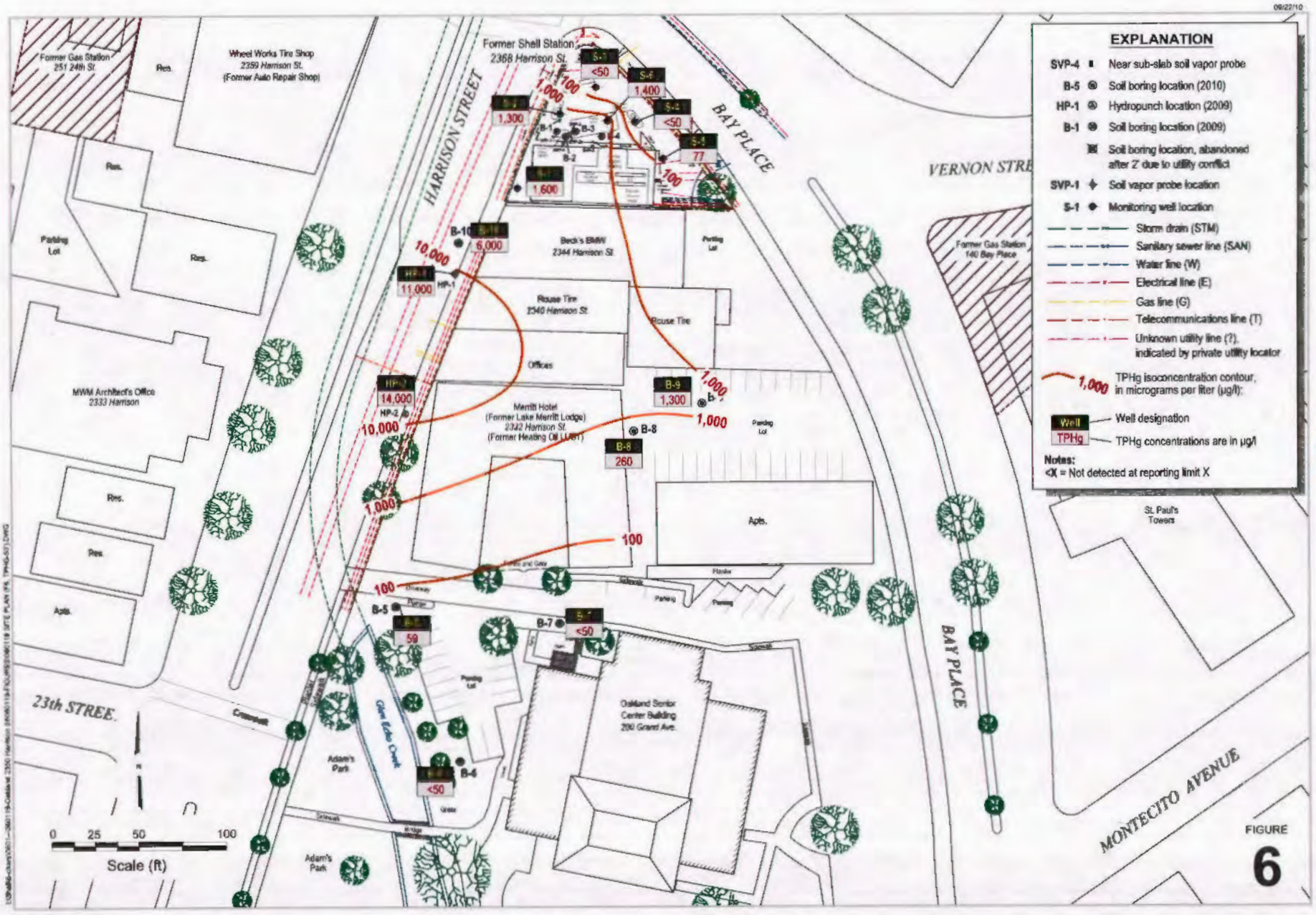


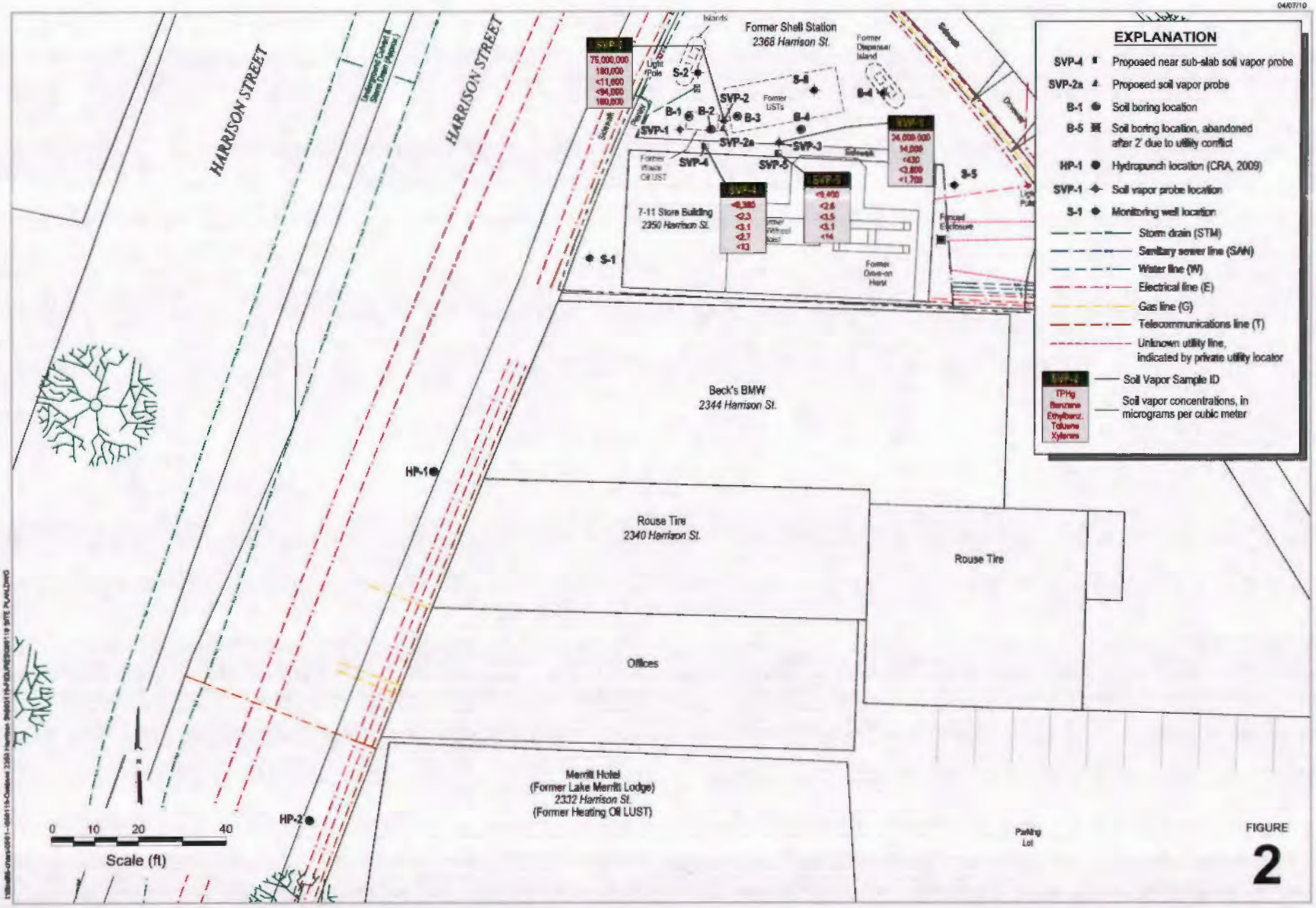
O&G in Groundwater
Isoconcentration Contour Map

CONESTOGA-ROVERS & ASSOCIATES

Former Shell Service Station
2350 (2368) Harrison Street
Oakland, California

FIGURE
4


09/22/10
EXPLANATION
SVP-4 Near sub-slab soil vapor probe
B-5 Soil boring location (2010)
HP-1 Hydropunch location (2009)
B-1 Soil boring location (2009)
Soil boring location, abandoned after 2' due to utility conflict
SVP-1 Soil vapor probe location
S-1 Monitoring well location
Storm drain (STM)
Sanitary sewer line (SAN)
Water line (W)
Electrical line (E)
Gas line (G)
Telecommunications line (T)
Unknown utility line (?), indicated by private utility locator
1,000 TPHg isoconcentration contour, in micrograms per liter (µg/l):
Well designation
TPHg concentrations are in µg/l
Notes:
<X = Not detected at reporting limit X
Former Shell Station
2368 Harrison St.
HARRISON STREET
BAY PLACE
VERNON STRE
23th STREE
MONTECITO AVENUE
Former Gas Station
251 24th St.
Wheel Works Tire Shop
2359 Harrison St.
(Former Auto Repair Shop)
Beck's BMW
2344 Harrison St.
Rouse Tire
2340 Harrison St.
Offices
MWM Architect's Office
2333 Harrison
Merritt Hotel
(Former Lake Merritt Lodge)
2342 Harrison St.
(Former Heating Oil UST)
Former Gas Station
140 Bay Place
St. Paul's Towers
Oakland Senior Center Building
200 Grand Ave.
Adam's Park
Glen Echo Creek
Parking Lot
Apts.
Res.
S-1 <50
S-2 1,400
S-3 <50
S-4 77
S-5 1,300
S-6 1,600
B-1 6,000
HP-1 11,000
HP-2 14,000
B-8 260
B-9 1,300
B-5 59
B-4 <50
B-7 <50
100
1,000
10,000
0 25 50 100
Scale (ft)
TPHg in Groundwater
Isoconcentration Contour Map
Former Shell Service Station
2350 (2368) Harrison Street
Oakland, California
CONESTOGA-ROVERS & ASSOCIATES
FIGURE
6



Soil Vapor Data Map

March 23, 2010

CONESTOGA-ROVERS & ASSOCIATES

Former Shell Service Station

2350 (2368) Harrison Street

Oakland, California

FIGURE

2

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	O&G	TPHd	TPHg	TPHmo	TPHms	TPHk	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Oxygenates	1,2-DCA	EDB	Cd	Cr	Pb	Ni	Zn	PCBs
#1	3/4/1993	UNK	10[f]	<10[d]	<10[d]	<100[d]	<10	<10	—	—	—	—	—	—	—	—	—	—	—	—	—
#2	3/4/1993	UNK	22[f]	<10[d]	220[d]	<100[d]	<10	<10	—	—	—	—	—	—	—	—	—	—	—	—	—
#3	3/4/1993	UNK	64[f]	<10[d]	110[d]	<100[d]	<10	<10	—	—	—	—	—	—	—	—	—	—	—	—	—
#4	3/4/1993	UNK	5,000[f]	<100[d]	620[d]	7,900[d]	<100	<100	—	—	—	—	—	—	—	—	—	—	—	—	—
S-1-5.5	6/5/2008	5.5	<10	21[a]	5.4	26	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	<0.0050	<0.0050	—	—	—	—	—	—
S-1-7.5	6/5/2008	7.5	130	120[a]	860	99	—	—	<0.0050	<0.0050	<0.0050	0.0086	ND	<0.0050	<0.0050	—	—	—	—	—	—
S-2-5.5	6/5/2008	5.5	<10	13[a]	<0.50	<25	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	<0.0050	<0.0050	<0.500	28.9	5.40	27.2	21.7	<0.050
S-2-7.0	6/5/2008	7	26	270[a]	2,700	<25	—	—	<0.50	<0.50	<0.50	<0.50	ND	<0.50	<0.50	<0.500	20.2	4.80	19.8	25.1	<0.050
S-2-10.0	6/5/2008	10	<10	150[a]	1,900	<25	—	—	<1.2	<1.2	<1.2	<1.2	ND	<1.2	<1.2	<0.500	33.0	10.8	51.5	38.6	<0.050
S-2-15.5	6/5/2008	15.5	22	14[a]	18	<25	—	—	<0.0050	<0.0050	0.0067	0.0063	ND	<0.0050	<0.0050	<0.500	28.2	5.98	30.1	25.7	<0.050
S-3-5	6/4/2008	5	<10	22[a]	5.9	<25	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	<0.0050	<0.0050	—	—	—	—	—	—
S-3-10	6/4/2008	10	<10	11[a]	<0.50	<25	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	<0.0050	<0.0050	—	—	—	—	—	—
S-4-5	6/4/2008	5	600	630[a]	6.8	660	—	—	0.012	<0.0050	<0.0050	0.012	ND	<0.0050	<0.0050	—	—	—	—	—	—
S-4-10	6/4/2008	10	28	41[a]	<0.50	54	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	<0.0050	<0.0050	—	—	—	—	—	—
S-5-6.0	6/5/2008	6	8,600	22,000[a]	2,300	23,000	—	—	0.016	0.0063	0.0082	0.0485	ND	<0.0050	<0.0050	—	—	—	—	—	—
S-5-9.0	6/5/2008	9	<10	42[a]	<0.50	49	—	—	<0.0050	<0.0050	0.014	0.0094	ND	<0.0050	<0.0050	—	—	—	—	—	—
S-5-12.5	6/5/2008	12.5	<10	8.7[a]	<0.50	<25	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	<0.0050	<0.0050	—	—	—	—	—	—
S-5-15.5	6/5/2008	15.5	<10	25[a]	<0.50	37	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	<0.0050	<0.0050	—	—	—	—	—	—
S-6-6.0	6/5/2008	6	140	53 a	9.2	85	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	<0.0050	<0.0050	—	—	—	—	—	—
S-6-7.5	6/5/2008	7.5	24	39 a	12	44	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	<0.0050	<0.0050	—	—	—	—	—	—
B-1-5.5'	5/20/2009	5.5	3,000	700[a]	100	—	—	—	<0.50	<0.50	<0.50	<0.50	ND	<0.50	<0.50	—	—	—	—	—	—
B-1-7'	5/20/2009	7	290	510[a]	230	—	—	—	<10	<10	<10	<10	ND	<10	<10	—	—	—	—	—	—
B-1-10'	5/20/2009	10	<10	81[a]	170	—	—	—	<0.50	<0.50	<0.50	<0.50	ND	<0.50	<0.50	—	—	—	—	—	—
B-1-13'	5/20/2009	13	11	89[a]	160	—	—	—	<0.50	<0.50	<0.50	<0.50	ND	<0.50	<0.50	—	—	—	—	—	—
B-1-15'	5/20/2009	15	<10	100[a]	180	—	—	—	<0.50	<0.50	<0.50	<0.50	ND	<0.50	<0.50	—	—	—	—	—	—

ATTACHMENT 4

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	O&G	TPHd	TPHg	TPHmo	TPHms	TPHk	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Oxygenates	1,2-DCA	EDB	Cd	Cr	Pb	Ni	Zn	PCBs
B-2-5.5'	5/21/2009	5.5	40	<5.0	64	—	—	—	1.5	<0.50	<0.50	<0.50	ND	<0.50	<0.50	—	—	—	—	—	—
B-2-7'	5/21/2009	7	600	190[a]	2.8	—	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	<0.0050	<0.0050	—	—	—	—	—	—
B-2-10'	5/21/2009	10	<10	39[a]	870	—	—	—	<2.0	<2.0	<2.0	<2.0	ND	<2.0	<2.0	—	—	—	—	—	—
B-2-15'	5/21/2009	15	24	5.2[a]	200	—	—	—	<0.50	<0.50	<0.50	<0.50	ND	<0.50	<0.50	—	—	—	—	—	—
B-3-5.5'	5/21/2009	5.5	38	6.4[a]	56	—	—	—	2.4	<0.50	0.87	<0.50	ND	<0.50	<0.50	—	—	—	—	—	—
B-3-10'	5/21/2009	10	230	44[a]	920	—	—	—	<2.5	<2.5	<2.5	<2.5	ND	<2.5	<2.5	—	—	—	—	—	—
B-3-15'	5/21/2009	15	<10	<5.0	2.1	—	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	<0.0050	<0.0050	—	—	—	—	—	—
B-4-5.5'	5/20/2009	5.5	190	200[a]	—	230	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
B-4-10'	5/20/2009	10	68	170[a]	—	140	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
B-4-15'	5/20/2009	15	<10	10	—	<25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
B-5-5.5 ft	6/29/2010	5	210	29[a]	<0.50	—	—	—	<0.0050	<0.0050	0.0059	0.057	ND	—	—	—	—	—	—	—	—
B-5-7 ft	6/29/2010	6.5	49	9.8[a]	<0.50	—	—	—	<0.0050	<0.0050	<0.0050	0.0074	ND	—	—	—	—	—	—	—	—
B-6-5.5 ft	6/29/2010	5	58	<5.0	<0.50	—	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	—	—	—	—	—	—	—	—
B-6-7 ft	6/29/2010	6.5	88	20[a]	<0.50	—	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	—	—	—	—	—	—	—	—
B-7-5.5 ft	6/29/2010	5	270	370[a]	<0.50	—	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	—	—	—	—	—	—	—	—
B-7-7 ft	6/29/2010	6.5	62	18[a]	<0.50	—	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	—	—	—	—	—	—	—	—
B-8-5.5 ft	6/25/2010	5	34	<5.0	<0.50	—	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	—	—	—	—	—	—	—	—
B-8-7 ft	6/25/2010	6.5	27	<5.0	<0.50	—	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	—	—	—	—	—	—	—	—
B-9-5.5 ft	6/25/2010	5	12	<5.0	<0.50	—	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	—	—	—	—	—	—	—	—
B-9-7 ft	6/25/2010	6.5	30	<5.0	<0.50	—	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	—	—	—	—	—	—	—	—
B-10-5.5 ft	6/25/2010	5	670	17[a]	<0.50	—	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	—	—	—	—	—	—	—	—
B-10-7 ft	6/25/2010	6.5	120	81[a]	<0.50	—	—	—	<0.0050	<0.0050	<0.0050	<0.0050	ND	—	—	—	—	—	—	—	—

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	O&G	TPHd	TPHg	TPHmo	TPHms	TPHk	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Oxygenates	1,2-DCA	EDB	Cd	Cr	Pb	Ni	Zn	PCBs
Shallow Soil (<10 fbg) ESL			NA	180	180	NA	NA	NA	0.27	93	4.7	11	Varies	0.48	0.044	7.4	NA	750	150	600	0.74
Deep Soil (>10 fbg) ESL			NA	180	180	NA	NA	NA	2.9	93	4.7	11	Varies	1.8	1.0	39	5,000	750	260	5,000	6.3

Notes:

All results in milligrams per kilogram (mg/kg) unless otherwise indicated.
fbg = Feet below grade
O&G = Oil and grease as hexane extractable material analyzed by EPA Method 1664 A (Modified) unless otherwise indicated.
TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015B unless otherwise indicated.
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B unless otherwise indicated.
TPHmo = Total petroleum hydrocarbons as motor oil analyzed by EPA Method 8015B Modified unless otherwise indicated.
TPHms = Total petroleum hydrocarbons as mineral spirits analyzed by gas chromatograph - flame ionization detector per Test Methods for Evaluating Solid Waste, SW-846, Revision O, United States Environmental Protection Agency, November 1986
TPHk = Total petroleum hydrocarbons as kerosene analyzed by gas chromatograph - flame ionization detector per Test Methods for Evaluating Solid Waste, SW-846, Revision O, United States Environmental Protection Agency, November 1986
Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B.
Oxygenates = Methyl tertiary-butyl ether, di-isopropyl ether, ethyl tertiary-butyl ether, tertiary-amyl methyl ether, and tertiary-butanol 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
Cd = Cadmium analyzed by EPA Method 6010B
Cr = Chromium (total) analyzed by EPA Method 6010B
Pb = Lead analyzed by EPA Method 6010B
Ni = Nickel analyzed by EPA Method 6010B
Zn = Zinc analyzed by EPA Method 6010B
PCBs = Polychlorinated biphenyls analyzed by EPA Method 8082; see laboratory analytical report for a complete list of specific constituents
UNK = Unknown
<x = Not detected at reporting limit x
--- = Not analyzed
ND = Not detected; see laboratory analytical report for constituent-specific reporting limits
ESL = Environmental screening level
NA = No applicable environmental screening level

a = The 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 on the specified standard.

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	O&G	TPHd	TPHg	TPHmo	TPHms	TPHk	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Oxygenates	1,2-DCA	EDB	Cd	Cr	Pb	Ni	Zn	PCBs

b = San Francisco Bay Regional Water Quality Control Board (RWQCB) commercial land use ESL for soil where groundwater is not a current or 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]).

c = O&G analyzed by EPA Method 3550 (modified)/EPA Method 413.2

d = Analyzed by gas chromatograph - flame ionization detector per Test Methods for Evaluating Solid Waste, SW-846, Revision O, United States Environmental Protection Agency, November 1986.

e = The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons are also present (or were detected).

Data in **BOLD** equals or exceeds applicable RWQCB ESL.

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA - VOCS AND PAHS
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	Acetone	n-Butyl-benzene	sec-Butyl-benzene	1,2-Dichloro-propane	Isopropyl-benzene	n-Propyl-benzene	1,1,2,2-Tetra-chloroethane	Naphthalene	1-Methyl-naphthalene	2-Methyl-naphthalene
S-2-5.5	6/5/2008	5.5	<0.12	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.020	<0.020	<0.020
S-2-7.0	6/5/2008	7.0	<12	2.7	2.3	<0.50	2.9	1.2	18	<0.020	1.4	0.036
S-2-10.0	6/5/2008	10.0	<31	2.5	1.9	<1.2	2.4	3.4	13	<0.020	0.048	0.063
S-2-15.5	6/5/2008	15.5	0.13	0.044	0.032	0.026	0.039	0.041	0.22	0.20[a]	0.15	0.17
B-1-5.5'	5/20/2009	5.5	<12	<0.50	<0.50	<0.50	<0.50	0.68	<0.50	<5.0	—	—
B-1-7'	5/20/2009	7	<250	<10	<10	<10	<10	<10	<10	<100	—	—
B-1-10'	5/20/2009	10	<12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—
B-1-13'	5/20/2009	13	<12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—
B-1-15'	5/20/2009	15	<12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—
B-2-5.5'	5/21/2009	5.5	<12	<0.50	<0.50	<0.50	<0.50	0.57	<0.50	<5.0	—	—
B-2-7'	5/21/2009	7	<0.12	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	—	—
B-2-10'	5/21/2009	10	<50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20	—	—
B-2-15'	5/21/2009	15	<12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—
B-3-5.5'	5/21/2009	5.5	<12	<0.50	<0.50	<0.50	<0.50	0.75	<0.50	<5.0	—	—
B-3-10'	5/21/2009	10	<62	<2.5	<2.5	<2.5	<2.5	2.5	<2.5	<25	—	—
B-3-15'	5/21/2009	15	<0.12	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	—	—
B-5-5.5 ft	6/29/2010	5	—	—	—	—	—	—	—	<0.050[c]	—	—
B-5-7 ft	6/29/2010	6.5	—	—	—	—	—	—	—	<0.050[c]	—	—
B-6-5.5 ft	6/29/2010	5	—	—	—	—	—	—	—	<0.050[c]	—	—

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA - VOCS AND PAHS
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*Acetone*	*n-Butyl-benzene*	*sec-Butyl-benzene*	*1,2-Dichloro-propane*	*Isopropyl-benzene*	*n-Propyl-benzene*	*1,1,2,2-Tetra-chloroethane*	*Naphthalene*	*1-Methyl-naphthalene*	*2-Methyl-naphthalene*
B-6-7 ft	6/29/2010	6.5	—	—	—	—	—	—	—	<0.050[c]	—	—
B-7-5.5 ft	6/29/2010	5	—	—	—	—	—	—	—	<0.050[c]	—	—
B-7-7 ft	6/29/2010	6.5	—	—	—	—	—	—	—	<0.050[c]	—	—
B-8-5.5 ft	6/25/2010	5	—	—	—	—	—	—	—	<0.050[c]	—	—
B-8-7 ft	6/25/2010	6.5	—	—	—	—	—	—	—	<0.050[c]	—	—
B-9-5.5 ft	6/25/2010	5	—	—	—	—	—	—	—	<0.050[c]	—	—
B-9-7 ft	6/25/2010	6.5	—	—	—	—	—	—	—	<0.050[c]	—	—
B-10-5.5 ft	6/25/2010	5	—	—	—	—	—	—	—	<0.050[c]	—	—
B-10-7 ft	6/25/2010	6.5	—	—	—	—	—	—	—	<0.050[c]	—	—
Shallow Soil (≤10 fbg) ESL[a]			0.5	NA	NA	1.0	NA	NA	0.6	2.8	NA	0.25
Deep Soil (>10 fbg) ESL[a]			0.5	NA	NA	2.5	NA	NA	16	4.8	NA	0.25

Notes:

All results in miligrams per kilogram (mg/kg) unless otherwise indicated.
VOCs = Volatile organic compounds analyzed by EPA Method 8260B. All detected constiuents tablulated; see laboratory analytical report for a complete list of specific constituents and results
PAHs = Polynuclear aromatic hydrocarbons analyzed by EPA Method 8270C. All detected constiuents tablulated; see laboratory analytical report for a complete list of specific constituents and results.
fbg = Feet below grade
<x = Not detected at reporting limit x

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA - VOCS AND PAHS
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*Acetone*	*n-Butyl-benzene*	*sec-Butyl-benzene*	*1,2-Dichloro-propane*	*Isopropyl-benzene*	*n-Propyl-benzene*	*1,1,2,2-Tetra-chloroethane*	*Naphthalene*	*1-Methyl-naphthalene*	*2-Methyl-naphthalene*

— = Not analyzed
ESL = Environmenal screening level
NA = No applicable environmental screening level

a = When analyzed by EPA Method 8260B, naphthalene was detected in this sample at 0.079 mg/kg.
b = San Francisco Bay Regional Water Quality Control Board (RWQCB) commerical land use ESL for soil where groundwater is not a current or 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]).
c = Naphthalene analyzed by EPA Method 8260B.

Data in **BOLD** equals or exceeds applicable RWQCB ESL.

Client Number: 0201
Project ID: 2360 Harrison St., Oakland
Work Order Number: C3-03-0114

Table 1 (Continued)

ANALYTICAL RESULTS

Total Oil and Grease in Soil by Infrared Spectrometry

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

GTEL Sample Number		05	06		
Client Identification		#2	#1		
Date Sampled		03/04/93	03/04/93		
Date Prepared		03/15/93	03/15/93		
Date Analyzed		03/15/93	03/15/93		
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
Total Oil and Grease	5	22	10		
Detection Limit Multiplier		1	1		
Percent solids		80.4	76.2		

1. Test Methods for Evaluating Solid Waste, SW-846, 3rd edition, Rev. 0, U.S. EPA, November, 1986.
2. Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020. Revised March 1983, U.S. Environmental Protection Agency.
3. Standard Methods for the Examination of Water and Wastewater, 17th ed., 1989, American Public Health Association.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: 0201
Project ID: 2350 Harrison St., Oakland
Work Order Number: C3-03-0114

Table 1 (Continued)

ANALYTICAL RESULTS

Hydrocarbons in Soil

Method: GC-FID[a]

GTEL Sample Number		05	06		
Client Identification		#2	#1		
Date Sampled		03/04/93	03/04/93		
Date Extracted		03/10/93	03/10/93		
Date Analyzed		03/17/93	3/17/93		
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
TPH as gasoline	10	220	<10		
TPH as mineral spirits	10	<10	<10		
TPH as kerosene	10	<10	<10		
TPH as diesel fuel	10	<10	<10		
TPH as lubricating oil	100	<100	<100		
Detection Limit Multiplier		1	1		
Percent solids		80.4	76.2		

a. "Test Methods for Evaluating Solid Waste, SW-846, 3rd edition, Rev. 0, U.S. EPA, November, 1986."

GTEL ENVIRONMENTAL LABORATORIES, INC

Client Number: 0201
Project ID: 2360 Harrison St., Oakland
Work Order Number: C3-03-0114

Table 1

ANALYTICAL RESULTS

Hydrocarbons in Soil

Method: GC-FID[a]

GTEL Sample Number		01	02	03	04
Client Identification		SP #3	SP #4	#4	#3
Date Sampled		03/04/93	03/04/93	03/04/93	03/04/93
Date Extracted		03/10/93	03/10/93	03/10/93	03/10/93
Date Analyzed		03/17/93	03/17/93	03/18/93	03/17/93
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
TPH as gasoline	10	540	140	620	110
TPH as mineral spirits	10	540	<10	<100	<10
TPH as kerosene	10	<10	<10	<100	<10
TPH as diesel fuel	10	<10	<10	<100	<10
TPH as lubricating oil	100	<100	670	7900	<100
Detection Limit Multiplier		1	1	25*	1
Percent solids		68.3	72.9	68.6	61.2

a. "Test Methods for Evaluating Solid Waste, SW-846, 3rd edition, Rev. 0, U.S. EPA, November, 1986."
* Detection limit raised due to high levels of target compound.

GTEL ENVIRONMENTAL LABORATORIES, INC.

Client Number: 0201
Project ID: 2360 Harrison St., Oakland
Work Order Number: C3-03-0114

Table 1

ANALYTICAL RESULTS

Total Oil and Grease in Soil by Infrared Spectrometry

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

GTEL Sample Number		01	02	03	04
Client Identification		SP #3	SP #4	#4	#3
Date Sampled		03/04/93	03/04/93	03/04/93	03/04/93
Date Prepared		03/15/93	03/15/93	03/15/93	03/15/93
Date Analyzed		03/15/93	03/15/93	03/15/93	03/15/93
Analyte	Detection Limit, mg/Kg	Concentration, mg/Kg			
Total Oil and Grease	5	41	440	5000	64
Detection Limit Multiplier		1	1	1	1
Percent solids		68.3	72.9	68.6	61.2

1. Test Methods for Evaluating Solid Waste, SW-846, 3rd edition, Rev. 0, U.S. EPA, November, 1986.
2. Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Revised March 1983, U.S. Environmental Protection Agency.
3. Standard Methods for the Examination of Water and Wastewater, 17th ed., 1989, American Public Health Association.

GTEL ENVIRONMENTAL LABORATORIES, INC.

TABLE 1

HISTORICAL SOIL VAPOR ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Screened Interval (fbg)	TPHg	Acetone	Benzene	Carbon Disulfide	Chloroform	Dichlorodifluoromethane	Ethylbenzene	4-Ethyltoluene	Toluene	Total Xylenes	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Helium (%v)	Oxygen & Argon (%v)	Carbon Dioxide (%v)	Methane (%v)
SVP-1	5/28/2009	4.4-4.5	—	<3,000	52,000	<3,900	<1,500	<1,600	5,200	<1,500	5,000	6,500	<1,500	<3,100	0.195	—	—	—
SVP-2	5/28/2009	4.4-4.5	—	44,000	530,000	<30,000	<12,000	<12,000	14,000	<12,000	<42,000	11,000	<12,000	<24,000	<0.0177	—	—	—
SVP-2-DUP	5/28/2009	4.4-4.5	—	48,000	520,000	<31,000	<12,000	<12,000	12,000	<12,000	10,000	<43,000	<12,000	<24,000	0.165	—	—	—
SVP-2	3/23/2010	4.4-4.5	75,000,000	<590,000[a]	160,000[a]	<160,000[a]	<12,000[a]	<12,000[a]	<11,000[a]	25,000[a]	<94,000[a]	160,000[a]	32,000[a]	61,000[a]	<0.0100	2.43	9.46	10.8
SVP-3	5/28/2009	4.4-4.5	—	<670	2,400	1,000	<340	<350	370	<350	550	1,400	<350	<690	0.266	—	—	—
SVP-3	3/23/2010	4.4-4.5	24,000,000	<24,000[a]	1,400[a]	<6,200[a]	<490[a]	<490[a]	<430[a]	<490[a]	<3,800[a]	<1,700[a]	<490[a]	<1,500[a]	<0.0100	1.94	10.7	5.59
SVP-3	3/30/2011	4.4-4.5	26,000,000	<15,000[a]	1,400[a]	<3,900[a]	<310[a]	<310[a]	<270[a]	<310[a]	<2,400[a]	1,700[a]	<310[a]	<920[a]	<0.0100	1.81	10.8	6.30
SVP-4[b]	3/23/2010	NA	<8,300	27	<2.3	<9.0	7.2	<3.6[a]	<3.1	<3.5	<2.7	<13	<3.5	<11	<0.0144	14.5	<0.720	<0.720
SVP-4[b]	3/30/2011	NA	190,000	<1,200[a]	950[a]	<310[a]	100[a]	<25[a]	<22[a]	<25[a]	<190[a]	<87[a]	<25[a]	<74[a]	<0.0100	19.6	0.654	<0.500
SVP-4[b]	6/8/2011	NA	<7,000	<120[a]	2.2[a]	<31[a]	19[a]	2.6[a]	3.9[a]	<2.5[a]	<19[a]	17[a]	<2.5[a]	<7.4[a]	<0.0100	19.8	1.01	<0.500
SVP-5[b]	3/23/2010	NA	<9,400	<7.7	<2.6	<10	7.2	<4.0[a]	<3.5	<4.0	<3.1	<14	<4.0	<12	<0.0163	12.0	1.20	<0.815
SVP-5[b]	3/30/2011	NA	30,000	<120[a]	26[a]	<31[a]	<2.4[a]	<2.5[a]	12[a]	6.7[a]	<19[a]	22[a]	6.3[a]	17[a]	0.0184	16.8	2.41	<0.500
SVP-5[b]	6/8/2011	NA	<7,000	<120[a]	2.0[a]	<31[a]	<2.4[a]	2.6[a]	5.4[a]	<2.5[a]	<19[a]	24[a]	<2.5[a]	<7.4[a]	<0.0100	18.2	1.95	<0.500
Trip Blank	5/28/2009		—	<4.8	<1.6	<6.2	<2.4	<2.5	<2.2	<2.5	<1.9	<8.7	<2.5	<4.9	<0.0100	—	—	—
SFRWQCB ESLs[c] Shallow Soil Gas Commercial			29,000	1,800,000	280	NA	1,500	NA	3,300	NA	180,000	58,000	NA	NA	NA	NA	NA	NA

Notes:

All results in micrograms per cubic meter (µg/m^3) unless otherwise indicated.
fbg = Feet below grade
%v = Percentage by volume
Volatile organic compounds analyzed by EPA TO-15. All detected analytes tabulated; see laboratory report for a complete list of specific constituents and results.
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method TO-3M
Helium analyzed by ASTM D-1946 (M)
Oxygen and argon, carbon dioxide, and methane analyzed by ASTM D-1946.
— = Not analyzed
NA = No applicable ESL
ESL = Environmental screening level

a = Laboratory method EPA TO-15 was modified to use Tedlar® bags instead of Summa canisters.

HISTORICAL SOIL VAPOR ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

b = Near sub-slab soil vapor probes
c = San Francisco Bay Regional Water Quality Control Board commercial land use ESL for soil gas for evaluation of potential vapor intrusion concerns (Table E 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]).

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

TABLE 1

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Well ID	Date	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	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)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
S-1	06/09/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.93	5.92	4.01
S-1	06/11/2008	2,500	<250	540 a	1,300	46	<5.0	14	<5.0	<5.0	130	34	<10	<10	<2.5	<5.0	9.93	7.45	2.48
S-1	09/17/2008	2,400	<250	550 a	3,100	180	2.7	78	8.6	<1.0	150	30	<2.0	<2.0	<0.50	<1.0	9.93	5.05	4.88
S-1	12/11/2008	<1,000	<250	570 a	2,900	190	3.0	57	6.1	<1.0	160	31	<2.0	<2.0	<0.50	<1.0	9.93	6.87	3.06
S-1	02/25/2009	1,000	<250	620 a	3,300	270	<5.0	69	6.8	<5.0	180	26	<10	<10	<2.5	<5.0	9.93	4.05	5.88
S-1	05/26/2009	<1,000	—	660 a	1,700	230	<5.0	51	5.3	<5.0	170	32	<10	<10	<2.5	<5.0	9.93	3.34	6.59
S-1	11/30/2009	<1,000	—	510 a	2,200	200	3.0	42	2.6	<2.0	150	25	<4.0	<4.0	<1.0	<2.0	9.93	3.72	6.21
S-1	05/18/2010	<1,000	—	710 a	1,600	180	3.0	34	2.3	<2.0	150	25	<4.0	<4.0	<1.0	<2.0	9.93	5.54	4.39
S-1	12/09/2010	<1,000	—	590 a	2,500	140	2.4	40	2.2	<2.0	130	22	<4.0	<4.0	<1.0	<2.0	9.93	3.62	6.31
S-1	06/24/2011	<4,900	—	660 b	3,000	140	2.4	45	2.8	—	—	—	—	—	—	—	9.93	3.13	6.80
S-1	**12/15/2011**	**<3,920**	**—**	**631**	**3,500**	**160**	**2.77**	**53.9**	**3.20**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**9.93**	**3.80**	**6.13**
S-2	06/09/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.37	6.60	3.77
S-2	06/11/2008	1,300	<250	800 a	960	3.0	<5.0	<5.0	<5.0	<5.0	<50	20	<10	<10	<2.5	<5.0	10.37	6.80	3.57
S-2	09/17/2008	<1,000	<250	490 a	1,700	3.4	<1.0	8.3	1.1	<1.0	16	7.3	<2.0	<2.0	<0.50	<1.0	10.37	6.16	4.21
S-2	12/11/2008	<1,000	280	210	1,800	5.2	<1.0	6.9	1.2	<1.0	23	11	<2.0	<2.0	<0.50	<1.0	10.37	6.08	4.29
S-2	02/25/2009	<1,000	<250	590 a	2,100	7.7	2.6	3.8	2.0	<1.0	28	12	<2.0	<2.0	<0.50	<1.0	10.37	5.34	5.03
S-2	05/26/2009	<1,000	—	570 a	1,200	6.2	1.5	3.6	1.4	—	—	—	—	—	—	—	10.37	5.63	4.74
S-2	11/30/2009	<1,000	—	480 a	1,200	4.7	1.3	1.5	1.5	—	—	—	—	—	—	—	10.37	6.17	4.20
S-2	05/18/2010	1,900	—	740 a	1,300	7.3	2.3	1.1	1.9	—	—	—	—	—	—	—	10.37	5.61	4.76
S-2	12/09/2010	1,300	—	490 a	1,600	7.2	2.6	<1.0	2.5	—	—	—	—	—	—	—	10.37	6.33	4.04
S-2	06/24/2011	<4,900	—	420 b	1,500	9.9	2.1	0.80	3.0	—	—	—	—	—	—	—	10.37	6.16	4.21
S-2	**12/15/2011**	**<3,880**	**—**	**728**	**1,300**	**5.73**	**1.76**	**0.580**	**2.86**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**10.37**	**7.00**	**3.37**
S-3	06/09/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.49	6.93	3.56
S-3	06/11/2008	2,800	<250	100 a	82	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.49	7.45	3.04
S-3	09/17/2008	1,200	<250	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.49	6.86	3.63
S-3	12/11/2008	<1,000	<250	92	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.49	6.74	3.75
S-3	02/25/2009	<1,000	<250	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.49	6.01	4.48
S-3	05/26/2009	<1,000	—	<50	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	10.49	6.58	3.91
S-3	11/30/2009	<1,000	—	<50	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	10.49	6.72	3.77
S-3	05/18/2010	<1,000	—	<50	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	10.49	6.51	3.98
S-3	12/09/2010	<1,000	—	<50	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	10.49	6.53	3.96
S-3	06/24/2011	<4,900	—	140 b	<50	<0.50	<0.50	<0.50	<1.0	—	—	—	—	—	—	—	10.49	6.51	3.98
S-3	**12/15/2011**	**<3,880**	**—**	**<47.2**	**<50**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**10.49**	**6.75**	**3.74**

ATTACHMENT 5

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Well ID	Date	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	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)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
S-4	06/09/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.56	7.11	3.45
S-4	06/11/2008	2,400	<250	56 a	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.56	10.92	-0.36
S-4	09/17/2008	<1,000	<250	51	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.56	6.43	4.13
S-4	12/11/2008	4,400	<250	140	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.56	5.71	4.85
S-4	02/25/2009	<1,000	<250	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.56	5.71	4.85
S-4	05/26/2009	<1,000	—	80	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	10.56	5.72	4.84
S-4	11/30/2009	<1,000	—	<50	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	10.56	5.67	4.89
S-4	05/18/2010	1,200	—	<50	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	10.56	6.91	3.65
S-4	12/09/2010	<1,000	—	<50	<50	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	10.56	5.41	5.15
S-4	06/24/2011	<4,900	—	56 b	<50	<0.50	<0.50	<0.50	<1.0	—	—	—	—	—	—	—	10.56	5.70	4.86
S-4	**12/15/2011**	**<3,880**	**—**	**78.2**	**<50**	**<0.500**	**<0.500**	**<0.500**	**<0.500**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**10.56**	**5.50**	**5.06**
S-5	06/09/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.54	6.64	3.90
S-5	06/11/2008	1,700	<250	80 a	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.54	6.67	3.87
S-5	09/17/2008	<1,000	<250	64 a	60	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.54	6.73	3.81
S-5	12/11/2008	<1,000	<250	63	54	<0.50	<1.0	<1.0	1.1	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.54	6.77	3.77
S-5	02/25/2009	<1,000	<250	<50	100	<0.50	<1.0	1.1	1.1	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	10.54	6.65	3.89
S-5	05/26/2009	Well inaccessible		—	—	—	—	—	—	—	—	—	—	—	—	—	10.54	—	—
S-5	11/30/2009	<1,000	—	77	120	<0.50	<1.0	<1.0	1.1	—	—	—	—	—	—	—	10.54	6.91	3.63
S-5	05/18/2010	<1,000	—	140 a	77	<0.50	<1.0	1.1	1.1	—	—	—	—	—	—	—	10.54	6.75	3.79
S-5	12/09/2010	<1,000	—	<50	79	<0.50	<1.0	<1.0	<1.0	—	—	—	—	—	—	—	10.54	6.71	3.83
S-5	06/24/2011	<4,900	—	410 b	<50	<0.50	<0.50	<0.50	<1.0	—	—	—	—	—	—	—	10.54	6.80	3.74
S-5	**12/15/2011**	**<3,920**		**241**	**51**	**<0.500**	**<0.500**	**1.02**	**1.86**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**10.54**	**6.88**	**3.66**
S-6	06/09/2008	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.56	6.98	3.58
S-6	06/11/2008	2,700	<250	2,900 a	6,500	180	25	3.9	19.1	<1.0	190	18	<2.0	<2.0	<0.50	<1.0	10.56	7.04	3.52
S-6	09/17/2008	1,200	260 a	3,000 a	8,000	160	16	3.3	14.4	<1.0	65	8.7	<2.0	<2.0	<0.50	<1.0	10.56	6.92	3.64
S-6	12/11/2008	1,200	<250	2,700 a	5,300	120	7.3	<5.0	5.1	<5.0	92	<10	<10	<10	<2.5	<5.0	10.56	4.80	5.76
S-6	02/25/2009	<1,000	<250	1,700 a	6,100	82	6.3	<5.0	<5.0	<5.0	88	<10	<10	<10	<2.5	<5.0	10.56	6.30	4.26
S-6	05/26/2009	<1,000	—	2,100 a	3,400	50	4.0	<1.0	4.6	<1.0	69	7.8	<2.0	<2.0	<0.50	<1.0	10.56	6.87	3.69
S-6	11/30/2009	<1,000	—	950 a	2,200	33	3.6	<1.0	2.1	<1.0	40	4.6	<2.0	<2.0	<0.50	<1.0	10.56	6.94	3.62
S-6	05/18/2010	1,000	—	820 a	1,400	27	5.6	<1.0	2.9	<1.0	62	6.0	<2.0	<2.0	<0.50	<1.0	10.56	6.73	3.83
S-6	12/09/2010	<1,000	—	440 a	1,300	28	4.8	<1.0	2.7	<1.0	34	4.9	<2.0	<2.0	<0.50	<1.0	10.56	6.71	3.85
S-6	06/24/2011	<4,900	—	410 b	860	4.8	1.2	<0.50	<1.0	—	—	—	—	—	—	—	10.56	7.09	3.47
S-6	**12/15/2011**	**<3,880**	**—**	**459**	**720**	**19.9**	**3.11**	**<0.500**	**2.09**	**—**	**—**	**—**	**—**	**—**	**—**	**—**	**10.56**	**6.03**	**4.53**

GROUNDWATER DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Well ID	Date	Oil & Grease (µg/L)	TPHmo (µg/L)	TPHd (µg/L)	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)	1,2-DCA (µg/L)	EDB (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)

Notes:
Oil & grease (as hexane extractable material) analyzed by EPA Method 1664A
TPHmo = Total petroleum hydrocarbons as motor oil analyzed by EPA Method 8015B (M) with silica gel cleanup
TPHd = Total petroleum hydrocarbons as diesel analyzed by modified EPA Method 8015 with silica gel cleanup unless otherwise noted
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
1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B
EDB = 1,2-Dibromoethane 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 available

a = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specific standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specific standard.
b = The sample extract was not subjected to silica gel treatment prior to analysis.

TABLE 3

HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*O&G*	*TPHg*	*TPHd*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*TBA*	*DIPE*	*ETBE*	*TAME*	*Naphthalene*
HP-1	5/20/2009	111,000	11,000	36,000	<5.0	<10	<10	<10	<10	<100	<20	<20	<20	—
HP-2	5/20/2009	715,000	14,000	58,000	<5.0	<10	<10	<10	<10	<100	<20	<20	<20	—
B-5	6/29/2010	<1,000	59	410[a]	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<10
B-6	6/29/2010	1,300	<50	160[a]	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<10
B-7	6/29/2010	<1,000	<50	290	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<10
B-8	6/25/2010	1,100	260	570	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<10
B-9	6/25/2010	1,900	1,300	250[a]	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<10
B-10	6/25/2010	31,700	6,000	8,900[c]	<2.5	<5.0	<5.0	<5.0	<5.0	<50	<10	<10	<10	<50
[illegible]		NA	210	210	46	130	43	100	1,800	18,000	NA	NA	NA	17

Notes:

All results in micrograms per liter (µg/l) unless otherwise indicated.
O&G = Oil and grease as hexane extractable material analyzed by EPA Method 1664 A (Modified)
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B
TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015B
Benzene, toluene, ethylbenzene, and 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

TABLE 3

HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
FORMER SHELL SERVICE STATION
2350 (2368) HARRISON STREET, OAKLAND, CALIFORNIA

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
Naphthalene analyzed by EPA Method 8260B
<x = Not detected at reporting limit x
— = Not analyzed
ESL = Environmental screening level
NA = No applicable ESL

a = The 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 on the specified standard.
b = San Francisco Bay Regional Water Quality Control Board (RWQCB) commercial land use ESL for groundwater where groundwater is not a current or 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]).
c = The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons are also present (or were detected).

Data in **BOLD** equals or exceeds applicable RWQCB ESL

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BORING/ WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	S-1
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	03-Jun-08
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	05-Jun-08
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	WDC Exploration	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	DP/HSA	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10-inch	SCREENED INTERVALS	6 to 15.5 fbg
LOGGED BY	E. Reinhart-Koylu/P. Schaefer	DEPTH TO WATER (First Encountered)	8.2 fbg (05-Jun-08)
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	8.46 fbg (05-Jun-08)
REMARKS	Cleared to 5 fbg using Water Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Surface: Concrete, 4-inches thick.	0.3	Portland Type I/II
							FILL: Silty CLAY with Gravel: Dark yellowish brown (10YR 4/2); stiff; 55% clay, 20% silt, 15% fine grained sand, 10% angular gravel; medium plasticity; low estimated permeability.	4.0	
12		S-1-5-5		5	CL		**Sandy, Silty CLAY:** Dark yellowish brown (10YR 4/2); stiff; 55% clay, 30% silt, 15% fine grained sand; medium plasticity; low estimated permeability. @ 5-feet: **Silty CLAY with trace Sand:** Olive black (5Y 2/1); moist; 60% clay, 30% silt, 10% very fine grained sand; medium plasticity; low estimated permeability.	7.0	
10.6		S-1-5.5			ML		**Clayey SILT with trace Sand:** Olive black (5Y 2/1); moist; 30% clay, 60% silt, 10% very fine to fine grained sand; low plasticity; moderately low estimated permeability.	8.0	Monterey Sand #3
0									
0				10			**Silty CLAY with trace Sand:** Olive black (5Y 2/1); wet; 65% clay, 25% silt, 10% very fine to fine grained sand; low plasticity; moderately low estimated permeability. @ 10-feet: Mottled dark yellowish orange and dusky yellow green (10YR 6/6 and 5GY 5/2); moist; 60% clay, 30% silt, 10% sand; medium low plasticity; low estimated permeability.		4"-diam., 0.020" Slotted Schedule 40 PVC
0					CL		@ 13.2-feet: **Sandy, Silty CLAY:** Moderate yellowish brown (10YR 5/4); 55% clay, 25% silt, 20% sand; medium plasticity.		
0				15			@ 14-feet: **Silty CLAY with trace Sand:** Mottled dark yellowish orange and dusky yellow green (10YR 6/6 and 5GY 5/2); 60% clay, 30% silt, 10% sand.	16.0	Bottom of Boring @ 16 fbg

WELL LOG (PID) C:\DOCUMENTS AND SETTINGS\EREINHARTKOYLU\DESKTOP\HARRISON B-LOGS.GPJ DEFAULT.GDT 6/19/06

ATTACHMENT 6

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BORING/ WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	S-2
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	02-Jun-08
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	05-Jun-08
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	WDC Exploration	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	DP/HSA	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10-inch	SCREENED INTERVALS	6 to 15.5 fbg
LOGGED BY	E. Reinhart-Koylu/P. Schaefer	DEPTH TO WATER (First Encountered)	9.0 fbg (05-Jun-08)
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	14.55 fbg (05-Jun-08)
REMARKS	Cleared to 5 fbg using Water Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Surface: Asphalt Top/Concrete, 6-inches thick.	0.5	Portland Type I/II
							FILL: Sandy GRAVEL: 25% sand; 75% gravel (up to 3" diameter); high estimated permeability.	3.0	
							Silty CLAY: Dark gray (N3); stiff; moist; 65% clay, 35% silt; medium plasticity; very low estimated permeability.		
1		S-2-5 .5		5	CL		@ 5-feet: Dusky green (5G 3/2); moist; 70% clay, 30% silt; low estimated permeability.		
10.6		S-2-7 .0						8.0	Monterey Sand #3
					SM		Gravelly SAND with trace Silt: Dark greenish gray (5GY 4/1); slightly moist; 10% silt, 60% sand, 30% gravel; non-plastic; high estimated permeability.	9.0	
0		S-2-10.5		10	CL		Silty CLAY with trace Sand: Mottled dark yellowish orange and dusky brown (10YR 6/6 and 5YR 2/2); moist; 60% clay, 30% silt, 10% very fine grained sand; medium plasticity; low estimated permeability. @ 11.5-feet: Black spots. @ 13-feet: Moderate yellowish brown (10YR 5/4) with black spots.		4"-diam., 0.020" Slotted Schedule 40 PVC
0		S-2-15.5		15				16.0	Bottom of Boring @ 16 fbg

WELL LOG (PID) C:\DOCUMENTS AND SETTINGS\EREINHART\KOYLU\DESKTOP\HARRISON B-LOGS.GPJ DEFAULT.GDT 6/19/08

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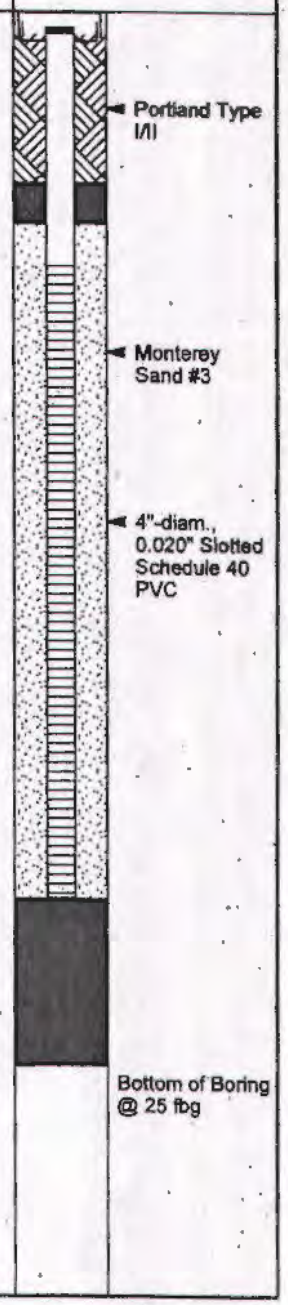
BORING/ WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	S-3
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	03-Jun-08
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	05-Jun-08
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	WDC Exploration	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	DP/HSA	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10-inch	SCREENED INTERVALS	6 to 21 fbg
LOGGED BY	E. Reinhart-Koylu	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	7.87 fbg (05-Jun-08)
REMARKS	Cleared to 5 fbg using Water Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
							Surface: Asphalt Top/ Concrete, 4-inches thick.	0.3
							FILL: Sandy GRAVEL with cobbles :Moderate yellowish brown (10YR 5/4); 30% fine to coarse grained sand; 60% fine to coarse gravel, 10% cobbles. @ 2-feet: Fill contains red brick.	3.0
					CL		Silty, Sandy CLAY; Dark gray (N3); stiff; 65% clay, 20% silt, 15% fine grained sand; medium plasticity; low estimated permeability.	5.0
3.8		S-3-5		5	SM		Silty, Clayey SAND:Grayish black (N2); medium dense; moist; 20% clay, 30% silt, 50% fine grained sand; medium plasticity; moderate estimated permeability.	
							@ 9-feet: Medium dark gray (N4).	10.0
1.4		S-3-10		10			Silty CLAY: Olive gray (5Y 4/1); stiff; moist; 75% clay, 25% silt; high plasticity; low estimated permeability.	
							@ 12-feet: Silty CLAY with Sand: Dark yellowish orange (10YR 6/6); very stiff; slightly moist; 70% clay, 20% silt, 5% coarse grained sand; medium plasticity; low estimated permeability.	
1.8		S-3-15		15	CL		@ 14-feet: Silty, Sandy CLAY: 55% clay, 20% silt, 25% fine to coarse grained sand.	
0		S-3-19.5		20			@ 19-feet: Silty, Sandy CLAY: Moderate yellowish brown (10YR 5/4); very stiff; dry; 60% clay, 20% silt, 20% fine grained sand; high plasticity; low estimated permeability.	
0		S-3-20						
							@ 22-feet: Silty CLAY: Stiff; slightly moist; 75% clay, 25% silt.	
0		S-3-24.5		25				25.0

WELL DIAGRAM



WELL LOG (PID) C:\DOCUMENTS AND SETTINGS\EREINHART\KOYLU\DESKTOP\HARRISON B-LOGS.GPJ DEFAULT.GDT 6/19/08

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BORING/ WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	S-4
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	02-Jun-08
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	04-Jun-08
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	WDC Exploration	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	DP/HSA	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10-inch	SCREENED INTERVALS	6 to 21 fbg
LOGGED BY	E. Reinhart-Koylu	DEPTH TO WATER (First Encountered)	19.0 fbg (04-Jun-08)
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	13.11 fbg (05-Jun-08)
REMARKS	Cleared to 5 fbg using Water Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Surface: Asphalt Top/ Concrete, 6-inches thick.	0.5	Portland Type I/II
							FILL: Sandy GRAVEL with cobbles :Moderate yellowish brown (10YR 5/4); 5% silt, 25% fine to coarse grained sand, 60% fine to coarse gravel, 10% cobbles; non-plastic; high estimated permeability.		
							@ 3-feet: **FILL: Silty CLAY with Sand:** Grayish black (N2); stiff; 70% clay, 20% silt, 10% fine grained sand; high plasticity; very low estimated permeability.		
41.5		S-4-5		5	SM		**Silty SAND:** Grayish black (N2); loose; wet; 25% silt, 75% sand; non-plastic; moderate estimated permeability.	5.0	
								7.0	Monterey Send #3
0		S-4-10		10			**Silty CLAY:** Grayish black (N2); soft; wet; 85% clay, 15% silt; high plasticity; low estimated permeability.		
							@ 10-feet: **Silty, Sandy CLAY:** Olive gray (5Y 3/2); medium stiff; moist; 55% clay, 20% silt, 25% fine grained sand; high plasticity; moderate estimated permeability.		
							@ 12-feet: Medium light gray (N6); 40% clay, 25% silt, 35% fine to medium grained sand.		
							@ 13-feet: Angular coarse grained sand.		
0.1		S-4-15		15	CL		@ 14-feet: **Silty CLAY:** Dark greenish gray (5GY 4/1); 65% clay, 35% silt; low estimated permeability.		4"-diam., 0.020" Slotted Schedule 40 PVC
							@ 15-feet: Mottled dark greenish gray and moderate yellowish brown (5GY 4/1 and 10YR 5/4); 75% clay, 25% silt.		
							@ 17-feet: Moderate yellowish brown (10YR 5/4) with grayish brown (5YR 3/2) specks (~1 mm in size); stiff; slightly moist; 80% clay, 20% silt.		
0.2		S-4-19.5		20			@ 19-feet: Wet.		
0		S-4-20							
0		S-4-20.5						21.0	Bottom of Boring @ 21 fbg

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BORING/ WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	S-5
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	03-Jun-08
LOCATION	2350 Harrison Street, Oakland, CA	**DRILLING COMPLETED**	05-Jun-08
PROJECT NUMBER	060119	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	WDC Exploration	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	DP/HSA	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	10-inch	**SCREENED INTERVALS**	6 to 15.5 fbg
LOGGED BY	E. Reinhart-Koylu/P. Schaefer	**DEPTH TO WATER (First Encountered)**	9.2 fbg (05-Jun-08)
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	10.50 fbg (05-Jun-08)
REMARKS	Cleared to 5 fbg using Water Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Surface: Asphalt.	0.5	
							FILL: Sandy GRAVEL: Moderate yellowish brown (10YR 5/4); 5% silt, 30% coarse grained sand, 65% coarse gravel; non-plastic; high estimated permeability.	2.0	Portland Type I/II
					CL		Silty, Sandy CLAY: Dark gray (N3); stiff; 60% clay, 20% silt, 15% sand, 5% gravel; medium plasticity; low estimated permeability.		
				5					
92		S-5-8			ML		Sandy SILT with trace Clay: Brownish black (5YR 2/1); moist; 5% clay, 70% silt, 25% very fine grained sand.	6.0	
							Silty CLAY with trace Sand: Brownish black (5YR 2/1); moist; 60% clay, 35% silt, 5% sand; moderate estimated permeability.	7.5	Monterey Sand #3
86		S-5-9					@ 9-feet: Wet. ▽		
				10	CL		@ 10-feet: Olive gray (5Y 3/2); 60% clay, 30% silt, 10% sand. ▼		
1.5									
		S-5-12.5							4"-diam., 0.020" Slotted Schedule 40 PVC
1.3								13.0	
					ML		Clayey SILT with Sand and trace Gravel: Olive gray (5Y 4/1); moist; 25% clay, 50% silt, 20% fine to coarse grained sand, 5% fine gravel.	14.0	
				15	CL		Silty CLAY: Olive gray (5Y 4/1); moist; 60% clay, 40% silt; moderate estimated permeability.		
		S-5-15.5						16.0	Bottom of Boring @ 16 fbg

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BORING/ WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	S-6
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	05-Jun-08
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	05-Jun-08
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	WDC Exploration	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	DP/HSA	TOP OF CASING ELEVATION	NA
BORING DIAMETER	10-inch	SCREENED INTERVALS	6 to 15.5 fbg
LOGGED BY	E. Reinhart-Koylu/P. Schaefer	DEPTH TO WATER (First Encountered)	8.8 fbg (05-Jun-08)
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	7.32 fbg (05-Jun-08)
REMARKS	Cleared to 5 fbg using Water Knife		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
							Surface: Asphalt Top/ Concrete, 6-inches thick.	0.5
							FILL: Sandy GRAVEL with Cobbles:Moderate yellowish brown (10YR 5/4); stiff; 5% silt, 20% sand, 60% angular gravel, 15% cobbles; non-plastic; high estimated permeability.	3.0
					CL		**Silty, Sandy CLAY:** Dark gray (N3); stiff; 65% clay, 20% silt, 15% fine grained sand; medium plasticity; low estimated permeability.	5.0
				5				
1		S-6-6					**SAND with trace Silt:** Greenish black (5GY 2/1); wet; 10% silt, 90% fine to medium grained sand.	
1		S-6-7.5			SM			
				10				10.0
0							**Silty CLAY with trace Sand:**Dark greenish gray (5GY 4/1); wet; 60% clay, 30% silt, 10% sand; medium plasticity; moderate estimated permeability.	
0					CL		@ 12-feet: Dark yellowish orange (10YR 6/6); moist; 70% clay, 20% silt, 10% sand.	
				15				16.0

WELL DIAGRAM

- Portland Type I/II
- Monterey Sand #3
- 4"-diam., 0.020" Slotted Schedule 40 PVC
- Bottom of Boring @ 16 fbg

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	B-1
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	19-May-09
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	20-May-09
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	NA ▽
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.3	
					ML		Sandy SILT with gravel (ML) ; dark yellowish brown (10YR 4/6); moist; 10% clay, 40% silt, 30% fine to coarse sand, 20% fine to coarse gravel; medium plasticity.	2.5	
					CL		CLAY (CL) ; black (2.5Y 2.5/1); moist; 95% clay, 5% silt; high plasticity.		
255		B-1-5 .5'		5			@ 5' - very dark gray (2.5Y 3/1).		
2.8									
208		B-1-7 '			ML		Sandy SILT (ML) ; very dark gray (2.5Y 3/1); wet; 10% clay, 55% silt, 35% fine to coarse sand; medium plasticity.	6.5	
140								8.5	Portland Type I/II
258		B-1-1 0'		10	CL		Sandy CLAY (CL) ; very dark gray (2.5Y 3/1); moist; 50% clay, 30% silt, 20% fine sand; medium plasticity.	10.0	
40							Sandy SILT (ML) ; very dark gray (2.5Y 3/1); moist; 20% clay, 40% silt, 30% fine sand, 10% gravel; medium plasticity; red chert nodules.		
274		B-1-1 3'			ML		@ 12' - strong brown (7.5YR 5/6); moist; 5% clay, 60% silt, 35% fine sand; low plasticity.		
116		B-1-1 5'		15			SILT (ML) ; strong brown (7.5YR 5/6); moist; 30% clay, 60% silt, 10% fine sand.	14.0	
8.6								16.0	Bottom of Boring @ 16 fbg

WELL LOG (PID): I:\SHELL\6-CHARS\0001--\060119-OAKLAND 2350 (2368) HARRISON ST\060119-GINT\060119-GINT.GPJ DEFAULT.GDT 6/17/09

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	B-2
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	21-May-09
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	21-May-09
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	NA ▽
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					ML		ASPHALT Sandy SILT with gravel (ML) ; dark yellowish brown (10YR 4/6); moist; 10% clay, 40% silt, 30% fine to coarse sand, 20% fine to coarse gravel; medium plasticity.	0.3	
							CLAY (CL) ; black (2.5Y 2.5/1); moist; 95% clay, 5% silt; high plasticity. @ 4' - very dark gray (2.5Y 3/1).	3.0	
50		B-2-5.5'		5					
280		B-2-7'							
150									Portland Type I/II
630		B-2-10'		10	CL		Sandy CLAY (CL) ; dark grayish brown (2.5Y 4/2); moist; 50% clay, 30% silt, 15% fine sand, 5% gravel; medium plasticity; red chert.	8.5	
56							@ 11' - yellowish brown (10YR 5/6); 65% clay, 30% silt, 5% fine sand; medium to high plasticity.	11.0	
82							@ 14' - yellowish brown (10YR 5/4); 80% clay, 20% silt.		
130		B-2-15'		15					
119							Sandy CLAY (CL) ; olive brown (2.5Y 4/3); moist; 50% clay, 25% silt, 25% fine sand; medium plasticity.	15.0	
								16.0	Bottom of Boring @ 16 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0601--\060119-OAKLAND 2350 (2368) HARRISON ST\060119-GINT\060119-GINT.GPJ DEFAULT.GDT 6/17/09

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	B-3
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	21-May-09
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	21-May-09
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.3	
277		B-3-5 .5'		5	CL		**CLAY (CL)**; black (2.5Y 2.5/1); moist; 95% clay, 5% silt; high plasticity.		
215									
207							**CLAY with sand (CL)**; very dark gray (2.5Y 3/1); moist; 80% clay, 5% silt, 15% fine to medium sand; high plasticity.		Portland Type I/II
213		B-3-10'		10					
177					SC		**Clayey SAND (SC)**; dark gray (2.5Y 4/1); moist; 25% clay, 25% silt, 50% fine to medium sand.	11.0	
137							@ 12' - olive brown (2.5Y 4/3).		
16									
8		B-3-15'		15	ML		**SILT with sand (ML)**; yellowish brown (10YR 5/6); moist; 25% clay, 60% silt, 15% fine sand; medium plasticity.	14.0	
9								16.0	Bottom of Boring @ 16 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0601-0800\119-OAKLAND 2350 (2366) HARRISON ST\060119-GINT\060119-GINT.GPJ DEFAULT.GDT 6/17/09

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	B-4
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	19-May-09
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	20-May-09
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.3	
					ML		Sandy SILT with gravel (ML) ; dark yellowish brown (10YR 4/6); moist; 50% silt, 30% fine to coarse sand, 20% coarse gravel; low to medium plasticity. @ 2' - 60% silt, 30% fine to coarse sand, 10% coarse gravel.	3.0	
628		B-4-5.5'		5	SP		Poorly graded SAND (SP) ; dark gray (2.5Y 4/1); moist; 5% silt, 95% fine to medium sand. very dark gray (10YR 3/1); wet.		
18								9.0	Portland Type I/II
28		B-4-10'		10	CL		CLAY (CL) ; very dark gray (2.5Y 3/1); moist; 95% clay, 5% silt; high plasticity.	10.5	
17.5					SP		Poorly graded SAND (SP) ; dark gray (2.5Y 4/1); moist; 5% silt, 95% fine to medium sand.	12.5	
20					CL		CLAY (CL) ; very dark gray (5Y 3/1); moist; 60% clay, 40% silt; high plasticity.	14.0	
50 11.2		B-4-15'		15	ML		SILT with sand (ML) ; very dark gray (5Y 3/1); moist; 25% clay, 50% silt, 25% fine to medium sand; medium plasticity. @ 15' - yellowish brown (10YR 5/6); 35% clay, 45% silt, 20% fine sand.	16.0	Bottom of Boring @ 16 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0501--060119-OAKLAND 2350 (2368) HARRISON ST\060119-GINT\060119-GINT.GPJ DEFAULT.GDT 6/26/09

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	B-5
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	28-Jun-10
LOCATION	2350 (2368) Harrison Street, Oakland, CA	DRILLING COMPLETED	29-Jun-10
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	13-15 fbg
LOGGED BY	E. Swan	DEPTH TO WATER (First Encountered)	10 fbg (28-Jun-10) ▽
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							GRASS	0.2	
					ML		**SILT with Sand (ML)** ; dark brown (10YR 3/3); dry; 5% clay, 70% silt, 25% fine grained sand; low plasticity.		
2		B-5-5 .5 ft		5					
0		B-5-7 ft						7.5	Portland Type I/II
					SM		**Silty SAND (SM)** ; greenish black (10Y 2.5/1); moist; 20% silt, 80% fine grained sand; non-plastic.		
				10				10.0 ▽	
					CL		**Sandy CLAY (CL)** ; greenish black (10Y 2.5/1) ; wet; 70% clay, 30% fine to medium grained sand; low to medium plasticity.		
							@ 12.5' - **CLAY with Sand (CL)** ; 75% clay, 25% sand; medium plasticity.		
							@ 13.5' - 85% clay, 15% sand.		
				15				15.0	Bottom of Boring @ 15 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0801--\060119--1084AE2--1060119-GINT.GPJ DEFAULT.GDT 9/22/10

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	B-6
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	28-Jun-10
LOCATION	2350 (2368) Harrison Street, Oakland, CA	DRILLING COMPLETED	29-Jun-10
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	13-15 fbg
LOGGED BY	E. Swan	DEPTH TO WATER (First Encountered)	13 fbg (28-Jun-10)
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							GRASS	0.2	
					ML		**SILT (ML)** ; very dark grayish brown (2.5Y 3/2); moist; 30% clay, 60% silt, 10% fine grained sand; medium plasticity.		
0		B-6-5 .5 ft		5					
0		B-6-7 ft			CL		**CLAY (CL)** ; very dark gray (2.5Y 3/1); moist; 60% clay, 30% silt, 10% fine grained sand; medium plasticity.	6.0	Portland Type I/II
0				10	SM		**Silty SAND (SM)** ; very dark gray (2.5Y 3/1); moist; 40% silt, 60% fine grained sand; non-plastic.	11.0	
0							@ 13' - wet.		
				15				15.0	Bottom of Boring @ 15 fbg

WELL LOG (PID) I:\SHELL\B-CHARS\0601--\060119-1\084AE2~1\060119-GINT.GPJ DEFAULT.GDT 9/23/10

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	B-7
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	28-Jun-10
LOCATION	2350 (2368) Harrison Street, Oakland, CA	DRILLING COMPLETED	29-Jun-10
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	12-15 fbg
LOGGED BY	E. Swan	DEPTH TO WATER (First Encountered)	10 fbg (28-Jun-10) ▽
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.4	
					ML		**SILT with Sand (ML)** ; brown (10YR 5/3); dry; 5% clay, 80% silt, 15% fine grained sand; low plasticity.	4.0	
0		B-7-5 .5 ft		5	CL		**CLAY (CL)** ; very dark gray (2.5Y 3/1); moist; 75% clay, 25% silt; high plasticity.	6.0	
0		B-7-7 ft			SM		**Silty SAND (SM)** ; very dark gray (2.5Y 3/1); 15% silt, 85% fine to medium grained sand; non-plastic.	8.0	Portland Type I/II
					CL		**CLAY (CL)** ; very dark gray (2.5Y 3/1); moist; 75% clay, 25% silt; high plasticity.		
0				10			▽	10.0	
0					SM		**Silty SAND (SM)** ; very dark gray (2.5Y 3/1); wet; 20% silt, 80% fine to medium grained sand; non-plastic.		
				15				15.0	Bottom of Boring @ 15 fbg

WELL LOG (PID): I:\SHELL\6-CHARSV0601-\060119-1\064AE2~1\060119-GINT.GPJ .DEFAULT.GDT 9/22/10

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	HP-2
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	19-May-09
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	20-May-09
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	5.00 fbg ▽
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.5	
				5			Boring air-knifed to 5 fbg.; direct push to 10 fbg.; grab groundwater sample collected using hydropunch with screened interval of 5-10 fbg.; soil types not logged. ▽		
				10					Bottom of Boring @ 10 fbg

WELL LOG (PID) I:\SHELL\6-CHAR\10601-\060119-OAKLAND 2350 (2368) HARRISON ST\060119-GINT\060119-GINT.GPJ DEFAULT.GDT 6/17/09

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	HP-1
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	19-May-09
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	20-May-09
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	NA
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	4.50 fbg ▽
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.8	
				5			Boring air-knifed to 5 fbg.; direct-push to 10 fbg.; grab groundwater sample collected using hydropunch with a screened interval of 6-10 fbg.; soil types not logged. ▽		
				10					Bottom of Boring @ 10 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0001--\060119-OAKLAND 2350 (2368) HARRISON ST\060119-GINT\060119-GINT.GPJ DEFAULT.GDT 9/17/09

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	B-8
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	24-Jun-10
LOCATION	2350 (2368) Harrison Street, Oakland, CA	DRILLING COMPLETED	25-Jun-10
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	13-15 fbg
LOGGED BY	E. Swan	DEPTH TO WATER (First Encountered)	13 fbg (24-Jun-10) ▽
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA ▼
REMARKS	Air knifed to 5 fbg		

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	
0		B-8-5.5 ft		5			**FILL MATERIAL/ SILT with Sand (ML)** ; with bricks, rocks; dark yellowish brown (10YR 4/6); moist; 30% clay, 50% silt, 20% fine to medium grained sand; medium plasticity.	6.5	
7		B-8-7 ft		10	SM		**Silty SAND (SM)** ; dark gray (N 4/) ; moist; 40% silt, 60% fine grained sand; non-plastic. @ 13' - wet ▽	15.0	Portland Type I/II Bottom of Boring @ 15 fbg

WELL LOG (PID) I:\SHELL\8-CHARS\0601-\060119-\1084AE2-\1060119-GINT.GPJ DEFAULT.GDT 9/22/10

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	B-9
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	24-Jun-10
LOCATION	2350 (2368) Harrison Street, Oakland, CA	DRILLING COMPLETED	25-Jun-10
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Direct push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVALS	15-17 fbg
LOGGED BY	E. Swan	DEPTH TO WATER (First Encountered)	17 fbg ▽
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA ▼
REMARKS	Air knifed to 5 fbg		

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	
					GW		**FILL MATERIAL: GRAVEL (GW)** ; dark yellowish brown (10YR 4/6); moist; 100% fine to coarse gravel; non-plastic.	3.0	
0		B-9-5 .5 ft		5	ML		**SILT with Sand (ML)** ; dark yellowish brown (10YR 4/6); moist; 30% clay, 50% silt, 20% sand; medium plasticity.	8.0	Portland Type I/II
0		B-9-7 ft							
				10	SM		**Silty SAND (SM)** ; dark gray (N 4/); moist; 40% silt, 60% fine sand; non-plastic.		
				15			▽	17.0	Bottom of Boring @ 17 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0601--\060119--\1064AE2--\1060119-GINT.GPJ DEFAULT.GDT 9/23/10

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	B-10
JOB/SITE NAME	Former Shell Service Station	**DRILLING STARTED**	24-Jun-10
LOCATION	2350 (2368) Harrison Street, Oakland, CA	**DRILLING COMPLETED**	25-Jun-10
PROJECT NUMBER	060119	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling, C-57 #485165	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Direct push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVALS**	10-13 fbg
LOGGED BY	E. Swan	**DEPTH TO WATER (First Encountered)**	4 fbg (24-Jun-10) ▽
REVIEWED BY	P. Schaefer	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Air knifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	0.8	
					SM		**Silty SAND (SM)** ; very dark gray (2.5Y 3/1); moist; 5% clay, 30% silt, 65% fine grained sand; non-plastic. @ 3' - black (N 2.5/). @ 4' - wet. ▽		
3		B-10- 5.5 ft		5					
27		B-10- 7 ft						7.0	◄ Portland Type I/II
				10	ML		**SILT with Sand (ML)** ; black (N 2.5/); wet ; 25% clay, 60% silt, 15% fine sand; medium plasticity.	13.0	Bottom of Boring @ 13 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0601--060119-1\064AE2-1\060119-GINT.GPJ DEFAULT.GDT 9/23/10

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVP-1
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	18-May-09
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	18-May-09
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485185	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	6"	SCREENED INTERVALS	4.42 to 4.5 fbg
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
27.4							**ASPHALT**	0.3	Flush-grade 5" well box; 1/4" teflon sample tubing; Portland Type I/II; Bentonite Seal; Monterey Sand #2/12; 1/4" diam. HDPE screen
					ML		Sandy SILT with gravel (ML) ; dark yellowish brown (10YR 4/6); moist; 50% silt, 30% fine to coarse sand, 20% coarse gravel; low to medium plasticity; fill.		
							@ 2' - 60% silt, 30% fine to coarse sand, 10% coarse gravel.		
					CL		CLAY (CL) ; black (2.5Y 2.5/1); moist; 95% clay, 5% silt; high plasticity.	3.0	
				5				5.0	Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0801--\060119-OAKLAND 2350 (2366) HARRISON ST\060119-GINT\060119-GINT.GPJ DEFAULT.GDT 6/17/09

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVP-2
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	21-May-09
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	21-May-09
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	6"	SCREENED INTERVALS	4.42 to 4.5 fbg
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
27.4					ML		**ASPHALT** **Sandy SILT with gravel (ML)**; dark yellowish brown (10YR 4/6); moist; 50% silt, 30% fine to coarse sand, 20% coarse gravel; medium plasticity.	0.3	Flush-grade 5" well box 1/4" teflon sample tubing Portland Type I/II
					CL		**CLAY (CL)**; black (2.5Y 2.5/1); moist; 95% clay, 5% silt; high plasticity.	4.0	Bentonite Seal Monterey Sand #2/12 1/4" diam. HDPE screen
				5				5.0	Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0601-\060119-OAKLAND 2350 (2368) HARRISON ST\060119-GINT\060119-GINT.GPJ DEFAULT.GDT 6/17/09

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVP-2a
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	26-Feb-10
LOCATION	2350 (2368) Harrison Street, Oakland, CA	DRILLING COMPLETED	26-Feb-10
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3"	SCREENED INTERVALS	1.75 to 1.85 fbg
LOGGED BY	E. Swan	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS	Air knifed to 2 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.3	Flush-grade 6"well box; Portland Type I/II; 1/4" OD Teflon Tubing; Bentonite Seal; Monterey Sand; Vapor Probe Screen
					ML		Sandy SILT with gravel (ML) ; dark yellowish brown (10YR 4/6); moist; 50% silt, 30% fine to coarse sand, 20% coarse gravel; low to medium plasticity; fill.	2.0	Bottom of Boring @ 2 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0601-060119-11064AE2-1060119-GINT.GPJ DEFAULT.GDT 4/7/10

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SVP-3
JOB/SITE NAME	Former Shell Service Station	DRILLING STARTED	19-May-09
LOCATION	2350 Harrison Street, Oakland, CA	DRILLING COMPLETED	19-May-09
PROJECT NUMBER	060119	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling, C-57 #485165	GROUND SURFACE ELEVATION	NA
DRILLING METHOD	Air-knife	TOP OF CASING ELEVATION	NA
BORING DIAMETER	6"	SCREENED INTERVALS	4.42 to 4.5 fbg
LOGGED BY	E. Reinhart	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	P. Schaefer	DEPTH TO WATER (Static)	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
27.4				5	ML		**ASPHALT** **Sandy SILT with gravel (ML)**; dark yellowish brown (10YR 4/6); moist; 50% silt, 30% fine to coarse sand, 20% coarse gravel; low to medium plasticity; fill. @ 2' - 65% silt, 35% fine to coarse sand.	0.3	Flush-grade 5" well box 1/4" teflon sample tubing Portland Type I/II
					SW		**SAND (SW)**; dark gray (2.5Y 4/1); moist; 5% silt; 95% fine to medium sand.	3.5 5.0	Bentonite Seal Monterey Sand #2/12 1/4" diam. HDPE screen Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\0801-\060119-OAKLAND 2350 (2368) HARRISON ST\060119-GINT\060119-GINT.GPJ DEFAULT.GDT 6/17/09