CONESTOGA-ROVERS & ASSOCIATES

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Emeryville, California 94608
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TRANSMITTAL

DATE: November 30, 2011

REFERENCE NO.: 312002

PROJECT NAME: **Former Signal Oil Station #20-6145**

TO: Mr. Mark Detterman
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

ACEHS RO #0454

RECEIVED
10:41 am, Dec 01, 2011
Alameda County
Environmental Health

Please find enclosed:
- ☐ Draft
- ☐ Originals
- ☐ Prints
- ☒ Final
- ☐ Other

Sent via:
- ☒ Mail
- ☐ Overnight Courier
- ☐ Same Day Courier
- ☒ Other ACEH FTP upload & Geotracker

QUANTITY	DESCRIPTION
1	Revised Corrective Action Plan and Preferential Pathway Study

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

COMMENTS:
Please contact Kiersten Hoey at 510-420-3347 with any questions or comments.
Thank you.

Copy to: Mr. Ian Robb, Chevron
Mr. Rene Boisvert, Boulevard Equity Group

Completed by: Kiersten Hoey [Please Print] Signed: Kiersten Hoey

Filing: **Correspondence File**

Ian Robb
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6513
ianrobb@chevron.com

Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Former Signal Oil Station No. 20-6145
800 Center Street
Oakland, CA

I have reviewed the attached Revised Corrective Action Plan and Preferential Pathway Study dated November 30, 2011.

I agree with the conclusions and recommendations presented in the referenced report. This information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga Rovers Associates, upon who assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

Ian Robb
Project Manager

Attachment: Revised Corrective Action Plan and Preferential Pathway Study

REVISED CORRECTIVE ACTION PLAN AND PREFERENTIAL PATHWAY ANALYSIS

FORMER SIGNAL OIL STATION 20-6145
800 CENTER STREET
OAKLAND, CALIFORNIA
FUEL LEAK CASE NO. RO0454

Prepared For:
Mr. Mark Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Prepared by:
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NOVEMBER 30, 2011
REF. NO. 312002 (20)
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REVISED CORRECTIVE ACTION PLAN AND PREFERENTIAL PATHWAY ANALYSIS

FORMER SIGNAL OIL STATION 20-6145
800 CENTER STREET
OAKLAND, CALIFORNIA
FUEL LEAK CASE NO. RO0454

Kiersten Hoey

Brandon S. Wilken, PG 7564

Prepared by:
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1.0 INTRODUCTION

1.1 GENERAL

Conestoga-Rovers & Associates (CRA) is submitting this *Revised Corrective Action Plan and Preferential Pathway Analysis* on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above (Figure 1). This report was created in response to the August 17, 2011 Alameda County Environmental Health (ACEH) letter requesting a preferential pathway analysis and revised corrective action plan (Appendix A). CRA performed a preferential pathway analysis to indentify any utility conduits which allow migration of hydrocarbons offsite, collected additional soil vapor samples, and reviewed the necessity for corrective action. These results are all presented below along with the site background and CRA's conclusions and recommendations.

1.2 SITE BACKGROUND

The site is a former Signal Oil gasoline service station located on the northeastern corner of the intersection of 8th Street and Center Street in a mixed commercial and residential area of Oakland, California (Figure 1). The site is currently undeveloped. The site was first developed as a service station in 1932. Four 1,000-gallon fuel underground storage tanks (USTs) and one used-oil UST were installed when the site was developed. These USTs were removed in 1973 when the station was closed.

Environmental investigation has been ongoing since 1989. To date, 17 monitoring wells, eight air sparge wells, 61 soil borings, and 11 soil vapor probes have been drilled (Figures 2 and 3). A remedial excavation was completed in 2002, removing approximately 1,584 tons of soil. Groundwater is currently monitored by 17 onsite and offsite monitoring wells. A summary of previous investigations and remediation conducted to date at the site is presented in Appendix B.

1.3 SITE GEOLOGY

The site is part of the Oakland sub-area of the East Bay Plain. Sediments beneath the site are likely Holocene and late Pleistocene alluvial fans.[1] Local topography is relatively

[1] East Bay Plain Groundwater Basin Beneficial Use Evaluation Report, Alameda and Contra Costa Counties, CA prepared by the California Regional Water Quality Control Board San Francisco Bay Region Groundwater Committee, June 1999

flat and the site is approximately 15 feet above mean sea level. Subsurface sediments consist of medium permeability sand and silty sand to the maximum depth explored of 80 feet below grade (fbg). Silt with clay is encountered between approximately 50 and 65 fbg. Geologic cross-sections are presented on Figures 4 and 5.

1.4 SITE HYDROLOGY

Groundwater in the East Bay Plain basin is designated as a potential drinking water source; however, groundwater in the basin is not currently used as a municipal drinking water supply due to readily available imported surface water.[2] Groundwater has been monitored since 1997. The shallow water-bearing zone is monitored by wells installed at three different depth intervals. Deeper screened wells have monitored deep groundwater since 2007. A summary of well construction specifications are detailed in Table 1. Historical depth to groundwater in the shallow-screened wells ranges from approximately 3 to 13 fbg. Shallow and intermediate groundwater flows consistently toward the southwest. Deeper groundwater flow varies from southwest to northeast. The nearest surface water body is Oakland inner harbor, approximately 1 mile south of the site.

1.4 PRODUCT RELEASES AND SOURCE AREA

Soil boring data indicate the hydrocarbon release occurred at the four former fuel USTs located on the west edge of the site and the former dispenser island located in the southwestern corner of the site. In 2002, a large excavation removed 1,584 tons of hydrocarbon-bearing soil to approximately 12 to 14 fbg.

2.0 DISTRIBUTION OF CONSTITUENTS OF CONCERN (COCs)

The primary constituents of concern (COCs) are total petroleum hydrocarbons as diesel (TPHd), total petroleum hydrocarbons as gasoline (TPHg), and benzene. Other COCs are toluene, ethylbenzene, xylenes, and methyl tertiary butyl ether (MTBE).

---

[2] Table 2-2 Existing and Potential Beneficial Uses in Groundwater in Identified Basins; *Water Quality Control Plan (Basin Plan) for the San Francisco Bay Basin*; California Regional Water Quality Control Board- San Francisco Bay Region, January 18, 2007.

2.1 HYDROCARBON DISTRIBUTION IN SOIL

In November 2002, the majority of source area hydrocarbon-bearing soil was over-excavated from the former UST pit and dispenser island between approximately 12 and 14 fbg. Remaining hydrocarbon concentrations are greatest from 9 to 10 fbg in the southeast and central portions of the site. Petroleum hydrocarbons detected in soil are adequately delineated vertically and horizontally. Groundwater depth ranges from 3 to 13 fbg; therefore a significant portion of the residual hydrocarbon mass in soil resides below the water table. Cumulative soil analytical data is presented in Table 2. The vertical extent of residual hydrocarbons in soil is illustrated on Figures 4 and 5 and the lateral extent is illustrated on Figures 6, 7, and 8.

2.2 HYDROCARBON DISTRIBUTION IN GROUNDWATER

Groundwater has been monitored for 16 years. Three groundwater depths within the shallow water-bearing zone are currently monitored using 17 monitoring wells. Historical and current groundwater monitoring and sampling data are presented in Appendix C. A summary of the August 4, 2011 groundwater monitoring data is presented in Table A below.

TABLE A: GROUNDWATER ANALYTICAL DATA

Well ID	*TPHd w/ Si Gel (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Total Xylenes (µg/L)*	*MTBE (µg/L)*
ESLs	***100***	***100***	***1***	***40***	***30***	***20***	***5***
MW-1A	**750**	<50	0.9	<0.5	<0.5	<1.5	<2.5
MW-2	99	**1,500**	**43**	**100**	1.4	**47**	**34**
MW-3	**2,100**	**1,200**	**6.5**	4.6	**110**	8.9	**16**
MW-4	**940**	**590**	**110**	9.0	10	4.6	4.4
MW-5	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5
MW-6	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5
MW-7	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5
MW-8	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5
MW-9	Sampled bi-annually during third quarter						
MW-10							
MW-11							
MW-12							
MW-13							
MW-14							
MW-15							
MW-16							
MW-17							

TABLE A: GROUNDWATER ANALYTICAL DATA							
Well ID	*TPHd w/ Si Gel (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Total Xylenes (µg/L)*	*MTBE (µg/L)*

µg/L Micrograms per liter
< Indicates constituent was not detected at or above laboratory reporting limit.
NA Not analyzed
ESL RWQCB-San Francisco Bay Region, *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, Interim final, November 2007, revised May 2008, Table F1-a.

Dissolved hydrocarbons are detected in shallow onsite wells MW-1A, MW-2, and MW-3 and offsite well MW-4 and are laterally defined downgradient by MW-6 and MW-8, crossgradient by MW-5 and upgradient by MW-7. Dissolved hydrocarbons in shallow groundwater are fluctuating but decreasing overall. The August 2011 dissolved hydrocarbon concentrations are presented on Figure 9. No hydrocarbons are detected in intermediate and deep wells MW-9 through MW-14, therefore vertically defining hydrocarbons in groundwater.

TABLE B:
PRE AND POST LFAS PILOT TEST HYDROCARBON CONCENTRATIONS IN GROUNDWATER

Location	*Sample Date*	*TPHd*	*TPHg*	*B*	*T*	*E*	*X*	*MTBE*
		concentrations in micrograms per liter (µg/L)						
Groundwater ESLs		***100***	***100***	***1***	***40***	***30***	***20***	***5***
MW-1A	09/03/2010	**590**	<50	<0.5	<0.5	<0.5	<1.5	<2.5
MW-1A	02/03/2011	**840**	100	**2.5**	0.6	6.7	2.0	<2.5
MW-1A	05/04/2011	**1,500**	<50	**6.7**	<0.5	<0.5	<1.5	<2.5
MW-1A	08/04/2011	**750**	<50	0.9	<0.5	<0.5	<1.5	<2.5
MW-2	09/03/2010	**310**	<50	<0.5	<0.5	<0.5	<1.5	<2.5
MW-2	02/03/2011	**430**	75	<0.5	<0.5	<0.5	<1.5	**8.9**
MW-2	05/04/2011	**160**	**1,300**	**12**	**48**	0.7	**47**	<100
MW-2	08/04/2011	99	**1,500**	**43**	**100**	1.4	**47**	**34**
MW-3	09/03/2010	**4,000**	**32,000**	**65**	**690**	**3,100**	**4,900**	**380**
MW-3	02/03/2011	**1,400**	**2,000**	**17**	34	**250**	**190**	**26**
MW-3	05/04/2011	**340**	57	<0.5	1.1	3.8	7.7	<2.5
MW-3	08/04/2011	**2,100**	**1,200**	**6.5**	4.6	**110**	**8.9**	**16**
MW-4	09/03/2010	**400**	**310**	<5.0	<0.5	1.2	<1.5	<2.5
MW-4	02/03/2011	**160**	55	**1.6**	<0.5	<0.5	<1.5	<2.5
MW-4	05/04/2011	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5
MW-4	08/04/2011	**940**	**590**	**110**	9.0	10	4.6	4.4

Prior to the pilot test, the highest dissolved hydrocarbon concentrations were detected in well MW-3. Groundwater data collected during the LFAS pilot test demonstrate that hydrocarbon concentrations in MW-3 and MW-4 decreased by one to three orders of

magnitude and hydrocarbon concentrations in MW-1A and MW-2 slightly increased. Groundwater data collected after the LFAS pilot test demonstrate that hydrocarbon concentrations in MW-1A, MW-2, and MW-4 are slightly higher than pre-pilot test concentrations and MW-3 concentrations are overall lower by an order of magnitude or more. Groundwater analytical data from before, during, and after the LFAS pilot test are summarized in Table B.

2.3 HYDROCARBON DISTRIBUTION IN SOIL VAPOR

On May 10, 2011, August 26, 2011, and November 3, 2011, CRA collected post-pilot test soil vapor samples from VP-1 through VP-6. Vapor samples were analyzed by Air Toxics LTD (Air Toxics) for:

- TPHg and BTEX by EPA Method TO-15 GC/MS
- Oxygen, nitrogen, carbon dioxide, methane, and helium by modified American Society for Testing and Materials (ASTM) D-1946

Hydrocarbon concentrations in soil vapor before and after the pilot test are summarized in Table C below and cumulative vapor data is presented in Table 3. Air Toxics' analytical results from the August and November 2011 sampling events are included in Appendix D.

TABLE C:
PRE AND POST LFAS PILOT TEST HYDROCARBON CONCENTRATIONS IN SOIL VAPOR

Location	*Sample Date*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Xylenes*	*MTBE*
		concentrations in micrograms per meter cubed (µg/m³)					
Soil Gas ESLs [a]		***10,000***	***84***	***6,300***	***980***	***21,000***	***9,400***
VP-1	10/03/2008	<97	<3.8	<4.5	<5.2	<5.2	<4.3
VP-1	05/10/2011	57,000,000	9,200	<3,200	<3,700	<3,700	<3,100
VP-1	08/26/2011	2,500,000	<400	<470	<550	<550	<450
VP-1	11/03/2011	5,700	2.9	<3.0	<3.5	<3.5	<2.9
VP-2	10/03/2008	Water in probe: could not collect sample					
VP-2	05/10/2011	6,500	<4.1	5.1	<5.6	<5.6	<4.7
VP-2	08/26/2011	<260	<4.0	<4.7	<5.5	<5.5	<4.5
VP-2	11/03/2011	<160	<2.6	<3.0	<3.5	<3.5	<2.9
VP-3	10/03/2008	<92	<3.6	<4.2	<4.9	<4.9	<4.0
VP-3	05/10/2011	22,000,000	10,000	21,000	4,200	60,000	<1,600
VP-3	08/26/2011	300	<3.9	4.8	<5.2	15	<4.4
VP-3	11/03/2011	860	2.6	4.8	<3.5	30	<2.9

TABLE C: PRE AND POST LFAS PILOT TEST HYDROCARBON CONCENTRATIONS IN SOIL VAPOR							
VP-4	10/03/2008	390	<4.1	<4.9	<5.6	<5.6	<4.6
VP-4	05/10/2011	12,000,000	2,600	3,400	160	13,000	<36
VP-4	08/26/2011	3,300	14	160	<5.2	89	<4.4
VP-4	11/03/2011	650	<2.5	23	<3.4	16	<2.8
VP-5	10/03/2008	57,000	<86	<100	<120	<120	<97
VP-5	05/10/2011	Water in probe: could not collect sample					
VP-5	08/26/2011	150,000	110	870	9.1	86	4.4
VP-5	11/03/2011	1,500	<2.6	23	<3.6	8.9	<3.0
VP-6	10/03/2008	<97	<3.8	<4.5	<5.2	<5.2	<4.3
VP-6	05/10/2011	2,200,000	<190	<230	<260	380	<220
VP-6	08/26/2011	980	<4.0	<4.7	<5.5	<5.5	<4.5
VP-6	11/03/2011	450	<2.6	<3.1	<3.6	<3.6	<3.0

a Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final*, November 2007, revised May 2008. – Table E-2 for lowest residential exposure scenario.
bold Concentration exceeds soil vapor ESL.

Concentrations detected in soil vapor samples collected on May 10, 2011, immediately following the LFAS pilot test, were as much as six orders of magnitude higher than soil vapor samples collected prior to the LFAS pilot test and three orders of magnitude higher than the ESLs. However, the two additional sampling events conducted on August 26, 2011 and November 3, 2011 indicate soil vapor concentrations have attenuated to below the soil gas ESLs for residential use and are similar to the pre- LFAS pilot test soil vapor data. Therefore, soil vapor beneath the site does not pose an unacceptable risk to residential occupancy of the site.

2.4 LIGHT NON-AQUEOUS PHASE LIQUIDS

No light non-aqueous phase liquids (LNAPL) have been observed.

3.0 PREFERENTIAL PATHWAY ANALYS IS

CRA conducted a preferential pathway survey to evaluate potential conduits for migration of dissolved hydrocarbons in groundwater from the site. CRA contacted individual utility companies for their utility maps to assess the location, size, and depth of all subsurface utilities in the vicinity. The utility maps from Pacific Gas & Electric (PG&E), East Bay Municipal Utility District (EBMUD), and the City of Oakland are presented in Appendix E. CRA also notified Underground Service Alert (USA) after

marking the site vicinity with temporary chalk paint. After 48 hours, CRA verified the locations of the subsurface utilities marked by individual utility companies. Figure 2 presents the approximate location of all known utilities. Major utilities near the site include sanitary sewer, water, electric, natural gas, and communication lines. Visual inspection and utility company markings indicate there are no storm drains located in the immediate vicinity of the site. Additionally, details of the fill material around the utilities are not currently available.

3.1 OFFSITE SEWER UTILITIES

Sanity sewers were identified beneath the west side of Center Street and in 8th Street. The sanity sewers beneath the middle of Center Street and 8th Street are constructed of 10-inch diameter pipe, buried at an unknown depth. The sewer lines on 8th Street flow toward the manhole located in the intersection of Center Street and in 8th Street. The sewer line on Center Street flows from north to south.

3.2 OFFSITE WATER UTILITIES

Offsite water utilities were identified north and south of 8th Street and along the western and eastern side of Center Street. The water utilities are constructed of 4 to 6-inch cast iron pipe. CRA contacted the local water agency (EBMUD) for details of the water utilities near the site on September 8 and October 3, 2011. The agent was unable to gather specific data on the depth of the utilities. However, based on the typical construction in the region and the standard specifications for the water agencies utilities, the agent suggested the utilities are likely 3 to 3.5 fbg.

3.3 OFFSITE COMMUNICATION UTILITIES

Communication lines were identified beneath the northern side of 8th Street and the eastern side of Center Street to the south of the site. The depths of the communication utilities are unknown; however, based on the typical construction in the region, this utility is likely installed above 5 fbg. According to visual inspection, a sealed utility vault providing access to the utilities exists on the northern most point of the intersection of Center Street and 8th Street.

3.4 OFFSITE ELECTRICAL UTILITIES

Offsite electrical utilities are located on the eastern side of Center Street and the northern and southern sides of 8th Street. The electrical utilities are 3 to 5-inches in diameter. CRA contacted Mr. Fred Lang of PG&E East Bay Mapping Services on September 27, 2011 who indicated the depth of the electrical utilities are likely 2 to 3 fbg.

3.5 OFFSITE NATURAL GAS UTILITIES

Natural gas lines have been identified beneath the eastern side of Center Street and the southern side of 8th Street. They are constructed of 8-inch diameter PVC piping. Mr. Fred Lang of PG&E indicated the natural gas utilities are located between 2 to 3 fbg. A gas valve with a ventilation system exists in the sidewalk east of Center Street adjacent to the subject site. A visual inspection of the area confirmed the presence of the gas line trench.

3.6 CONCLUSIONS AND RECOMENDATIONS

CRA located sanitary sewer, electric, communication, water, and natural gas utilities offsite. Based on utility maps, data provided by utility company representatives, and knowledge of typical local utility construction, these utilities are all suspected to be at depths less than 5 fbg. The deepest utilities are likely the sanitary sewers beneath Center Street and 8th Street. Since 1995, the shallowest groundwater depth in wells MW-5, MW-6, and MW-4 was 5.08 fbg in MW-4. Groundwater in offsite wells has been shallower than 5 fbg, one out of 55 monitoring events in MW-5, six out of 56 monitoring events in MW-4, and zero events in MW-6. Because groundwater is rarely shallower than 5 fbg, it is very unlikely the underground utilities surrounding the site are acting as preferential pathways for migration of dissolved hydrocarbons.

4.0 REVISED FEASIBILITY STUDY/CORRECTIVE ACTION PLAN

In a November 1, 2007 *Feasibility Study and Corrective Action Plan*, CRA recommended Air Sparge to remediate the limited residual hydrocarbons in groundwater beneath the site. In a letter dated August 20, 2008, ACEH requested an updated Feasibility Study and Corrective Action Plan and listed several technical comments. CRA addressed the technical comments in a letter dated October 30, 2008. In response to an ACEH letter dated March 16, 2009, CRA submitted a *Work Plan for Low Flow Air Sparging (LFAS) Pilot*

Test and Additional Soil Vapor Sampling dated March 16, 2009, and then on December 1, 2009 submitted a *Low Flow Air Sparge Work Plan Addendum.* LFAS was subsequently approved by the ACEH in a letter dated December 23, 2009.

The LFAS pilot test began on January 5, 2011 and operated continuously until it was shutdown on April 8, 2011. Air was injected sequentially into each of the eight sparge wells, AS-1 through AS-8, for approximately 60 minutes per sparge cycle.

On May 10, 2011, CRA collected post air sparge soil vapor samples. Concentrations detected in soil vapor samples collected after the LFAS pilot test were as much as six orders of magnitude higher than prior to system operation and three orders of magnitude higher than the ESLs. Prior to the pilot test, the highest dissolved hydrocarbon concentrations were detected in well MW-3. The groundwater samples collected from MW-3 during (February 3, 2011) and after (May 4, 2011) the LFAS pilot test contained hydrocarbon concentrations that were two orders of magnitude less than concentrations detected prior to the pilot test. However concentrations in wells MW-1A, MW-2 and MW-4 fluctuated and are slightly higher. Based on the LFAS pilot test results that suggested air sparging would be successful in reducing dissolved hydrocarbon concentrations in groundwater, and on the May 10, 2011 soil vapor concentrations that suggested there may be a potential risk of vapor intrusion; CRA and Chevron recommended in the July 6, 2011 *Low Flow Air Sparge Pilot Test Report* resuming air sparging combined with soil vapor extraction.

Since then, CRA has collected two additional rounds of vapor samples (August 26, 2011 and November 2, 2011). During those two sampling events hydrocarbon concentrations in soil vapor have decreased at least three orders of magnitude to below residential soil gas ESLs. Additionally, hydrocarbon concentrations in groundwater have remained relatively low, and TPHg and BTEX in MW-3 have remained an order of magnitude lower than before the LFAS pilot test.

Based on the following, CRA concludes no active remediation is warranted at this site and recommends continued monitored natural attenuation of hydrocarbons in soil vapor and groundwater through May 2012. Per the established schedule soil vapor samples will be collected during the first and second quarters of 2012 and groundwater samples will be collected during the first quarter of 2012.

- The source of hydrocarbons has been removed and a large amount of hydrocarbon-bearing soil has been over-excavated.

- Residual hydrocarbons in groundwater are limited in size, are delineated, and are not migrating.
- Soil vapor concentrations appear to have equilibrated after the LFAS pilot test and are below the residential soil vapor ESLs.
- No domestic or municipal wells were identified within ½-mile radius of the site and no preferential pathways for dissolved hydrocarbon migration were identified.
- There is no significant risk to human health or the environmental posed by residual hydrocarbons at the site.
- State Water Resource Control Board's September 21, 2010 *Preliminary 5-Year Review Summary Report for USTCF Claim Number: 012265* letter concluded that the site meets the Region 2 criteria for low risk groundwater site closure.

5.0 SURFICIAL SOIL SAMPLING

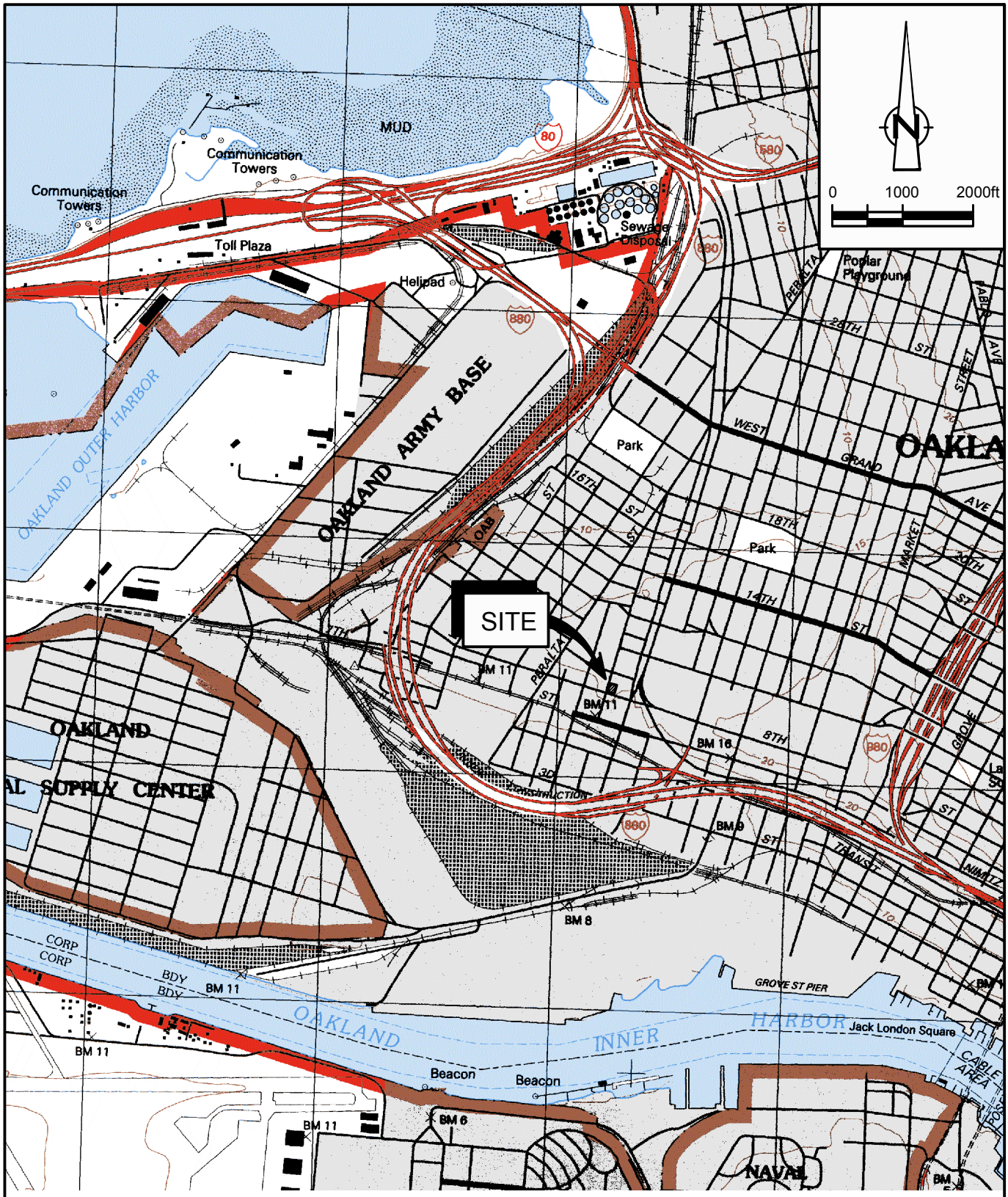
On January 22, 2010, CRA collected soil samples from 12 locations approximately 0.5 and 2.5 fbg to assess potential risk associated with exposure to lead for future onsite residents. Soil samples were analyzed for lead, organochlorine pesticides, and polychlorinated byphenyls (PCB). Soil sampling details and results were detailed in CRA's February 15, 2010 *Surficial Soil Lead Results*, and the soil sample locations and analytical results are included as Appendix F. Lead was detected at a maximum concentration of 5,760 mg/kg in shallow soils; however all lead concentrations exceeding residential direct exposure ESLs were detected in sampling locations SS-1, SS-2, SS-3, and SS-6, all located on the property surrounding the former Signal Oil property. Based on these locations, it is reasonable to assume the lead in these shallow soil locations are the result of older development and paint chips from the adjacent houses. Only one PCB concentration exceeded the residential direct exposure ESL; 0.48 mg/kg PCB-1254 in SS-6, located outside the former Signal Oil property. Nine of the twelve soil sampling locations contained one or more organochlorine pesticide concentrations exceeding the residential direct exposure ESLs.

Based on the fact that no lead or PCB concentrations detected on the former service station property exceeded the residential direct exposure ESL, no mitigative measure against lead and PCBs is warranted by Chevron. Several soil samples collected between 0 and 1.5 fbg collected both on and off the former service station property contained organochlorine pesticides above ESLs. As previously offered in Arcadis's

August 17, 2010 letter,[3] during future redevelopment, Chevron is prepared to remove shallow surface soil in previously unexcavated areas on the former service station property to a depth of 2 fbg.

[3] Arcadis U.S. Inc., August 17, 2010 letter, *Revised Draft Response to Selected Comments from Alameda County Environmental Health (ACEH) dated October 16, 2009 on the Revised Draft Corrective Action Plan, Dated May 14, 2009*.

FIGURES

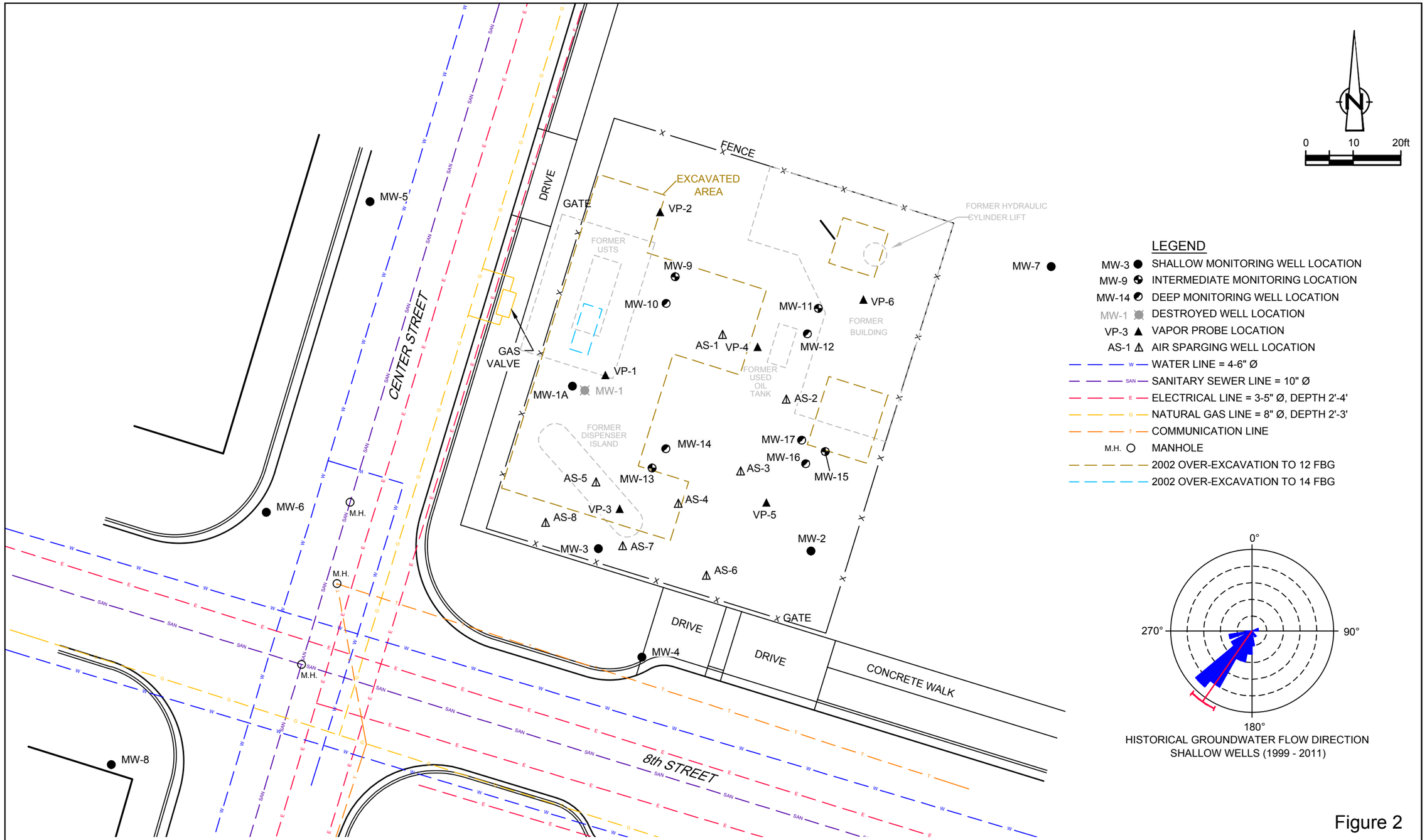


SOURCE: USGS QUADRANGLE MAPS; OAKLAND WEST, CA 1993

Figure 1

VICINITY MAP
FORMER SIGNAL OIL SERVICE STATION 20-6145
800 CENTER STREET
Oakland, California

312002-2011.2(021)GN-WI001 NOV 29/2011



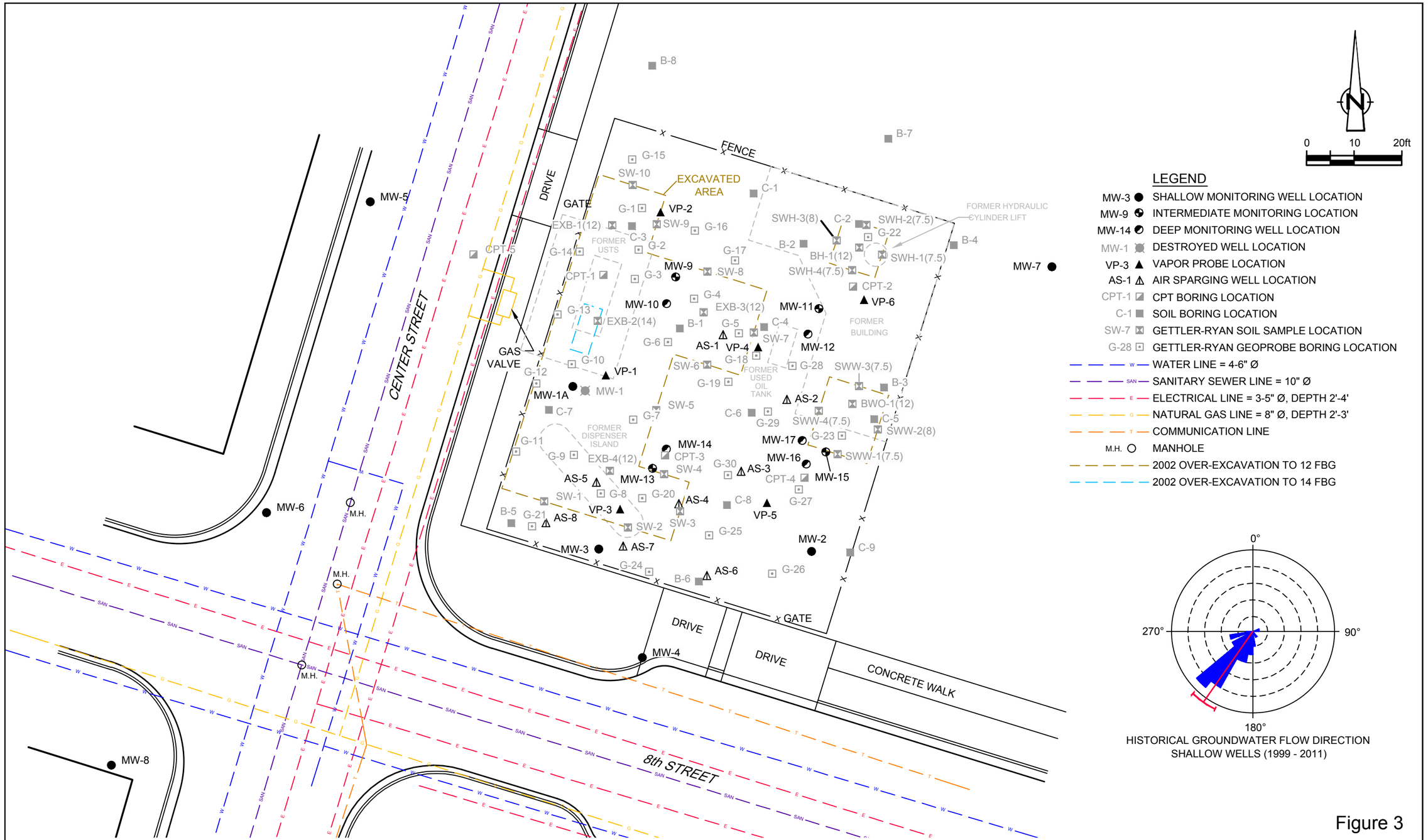
HISTORICAL GROUNDWATER FLOW DIRECTION
SHALLOW WELLS (1999 - 2011)

Figure 2

SITE PLAN WITH UTILITY LOCATIONS
FORMER SIGNAL OIL SERVICE STATION 20-6145
800 CENTER STREET
Oakland, California

CRA

312002-2011.2(021)GN-WA002 NOV 16/2011



HISTORICAL GROUNDWATER FLOW DIRECTION
SHALLOW WELLS (1999 - 2011)

Figure 3

SITE PLAN WITH BORINGS AND SAMPLING LOCATIONS
FORMER SIGNAL OIL SERVICE STATION 20-6145
800 CENTER STREET
Oakland, California

CRA

312002-2011.2(021)GN-WA001 NOV 16/2011

LEGEND

MW-9 — WELL DESIGNATION

GROUND SURFACE

OBSERVATION WELL INSTALLATION

STRATIGRAPHIC BOUNDARY

SM — TYPICAL SOIL CLASSIFICATION

SCREENED INTERVAL

BOTTOM OF BORING

APPROXIMATE SOIL SAMPLE LOCATION

TPHd
TPHg
BENZENE
DATE — HYDROCARBON CONCENTRATIONS IN SOIL (mg/kg)

GROUNDWATER DEPTH (08/04/11 UNLESS OTHERWISE NOTED)

TPHd
TPHg
BENZENE
MTBE — HYDROCARBON CONCENTRATIONS IN GROUNDWATER (µg/L)

APPROXIMATE VAPOR SAMPLE LOCATION (11/02/11)

TPHd
TPHg
BENZENE
MTBE — HYDROCARBON CONCENTRATIONS IN VAPOR (µg/m³)

GROUNDWATER ELEVATION

FILL

SM - SILTY SANDS, SAND-SILT MIXTURES

SP/SM - POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES AND SILTY SANDS, SAND-SILT MIXTURES

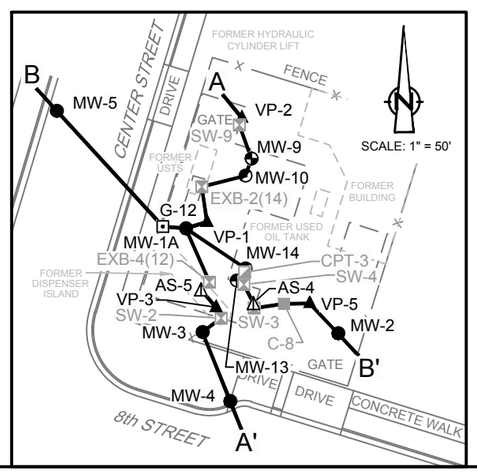
SP - POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES

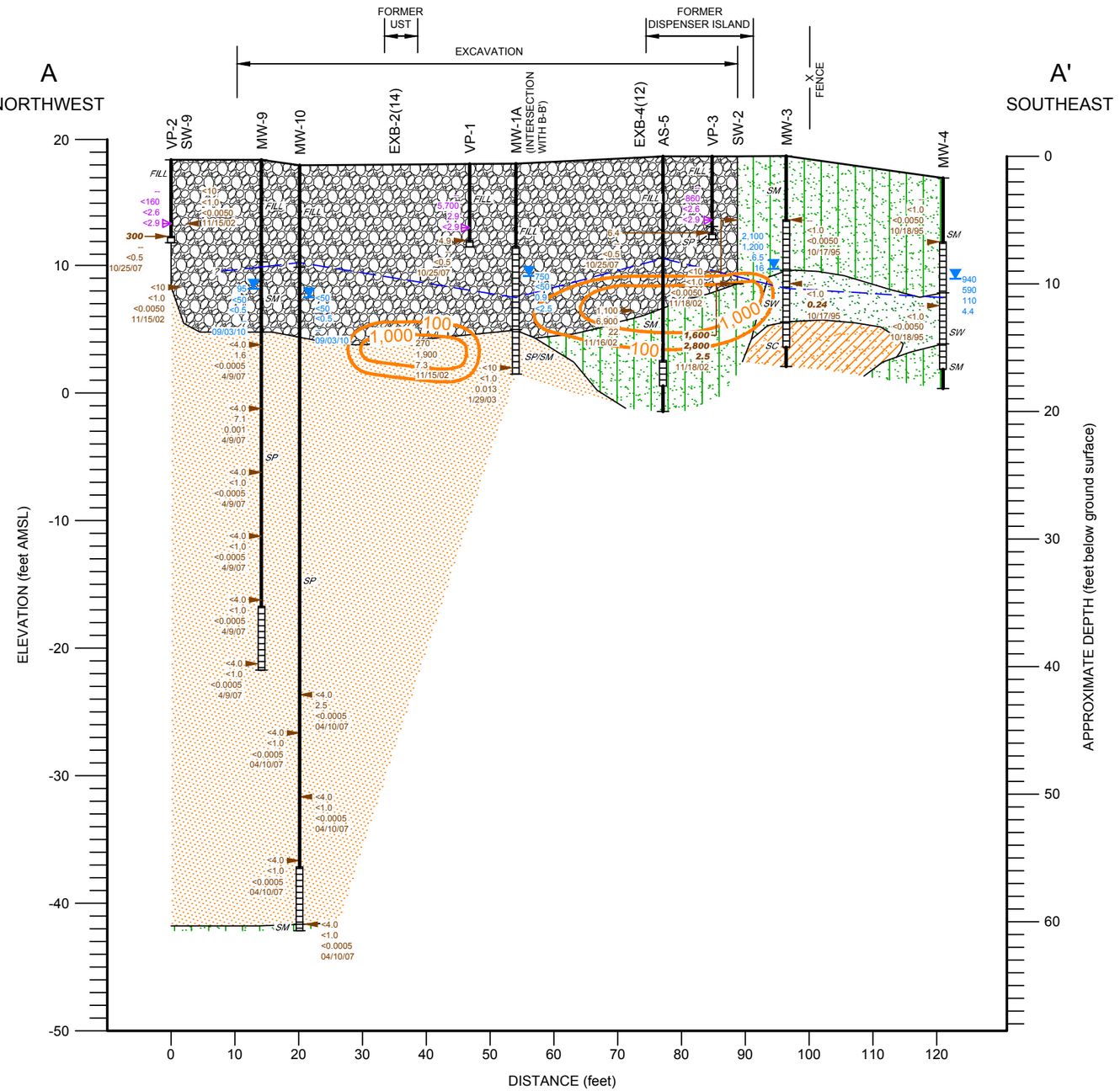
SW - WELL-GRADED SAND, GRAVELLY SANDS, LITTLE OR NO FINES

SC - CLAYEY SANDS, SAND-CLAY MIXTURES

-- NOT ANALYZED

1,000 — TOTAL PETROLEUM HYDROCARBON AS GASOLINE CONTOUR LINE IN SOIL, DASHED WHERE INFERRED
TOTAL PETROLEUM HYDROCARBON AS GASOLINE





SCALE: HORZ. 1" = 20'
VERT. 1" = 10'

Figure 4

GEOLOGIC CROSS SECTION A-A'
FORMER SIGNAL OIL SERVICE STATION 20-6145
800 CENTER STREET
Oakland, California

312002-2011.2(021)GN-WA003 NOV 29/2011

LEGEND

MW-5 — WELL DESIGNATION
GROUND SURFACE
OBSERVATION WELL INSTALLATION
STRATIGRAPHIC BOUNDARY
SP — TYPICAL SOIL CLASSIFICATION
SCREENED INTERVAL
BOTTOM OF BORING

TPHd / TPHg / BENZENE / DATE — APPROXIMATE SOIL SAMPLE LOCATION
HYDROCARBON CONCENTRATIONS IN SOIL (mg/kg)

GROUNDWATER DEPTH (08/04/11 UNLESS OTHERWISE NOTED)

TPHd / TPHg / BENZENE / MTBE — HYDROCARBON CONCENTRATIONS IN GROUNDWATER (µg/L)

APPROXIMATE VAPOR SAMPLE LOCATION (11/02/11)

TPHd / TPHg / BENZENE / MTBE — HYDROCARBON CONCENTRATIONS IN VAPOR (µg/m³)

GROUNDWATER ELEVATION

FILL

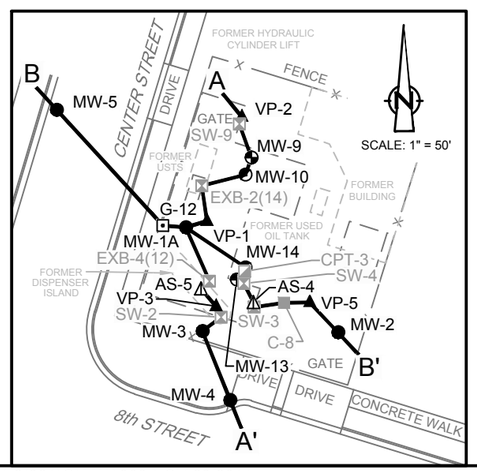
SM - SILTY SANDS, SAND-SILT MIXTURES
SC - CLAYEY SANDS, SAND-CLAY MIXTURES

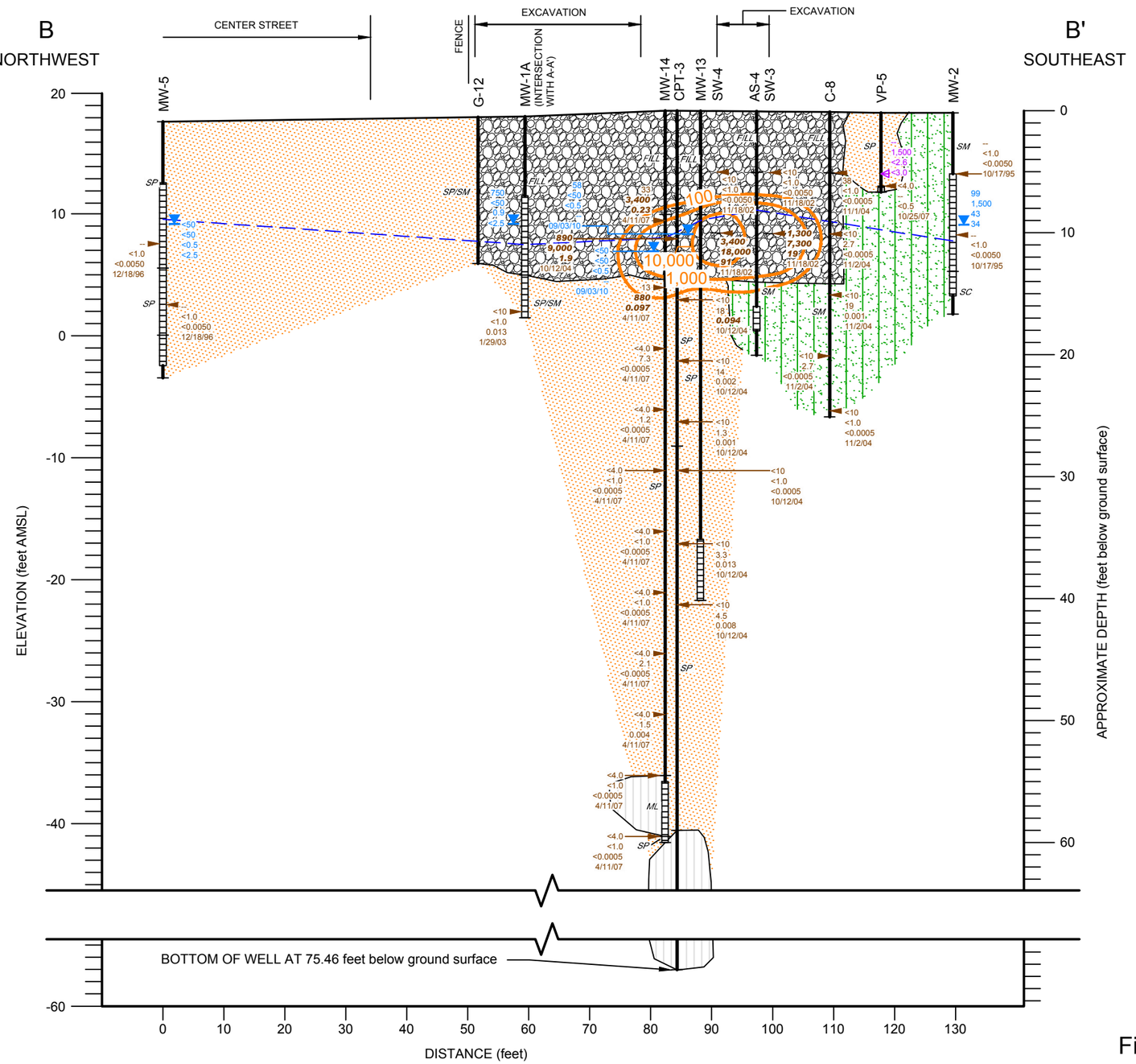
SP/SM - POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES AND SILTY SANDS, SAND-SILT MIXTURES
SP - POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES

ML - INORGANIC SILTS, VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY

-- NOT ANALYZED

10,000 — TOTAL PETROLEUM HYDROCARBON AS GASOLINE CONTOUR LINE IN SOIL, DASHED WHERE INFERRED
TOTAL PETROLEUM HYDROCARBON AS GASOLINE





SCALE: HORZ. 1" = 20'
VERT. 1" = 10'

Figure 5

GEOLOGIC CROSS SECTION B-B'
FORMER SIGNAL OIL SERVICE STATION 20-6145
800 CENTER STREET
Oakland, California

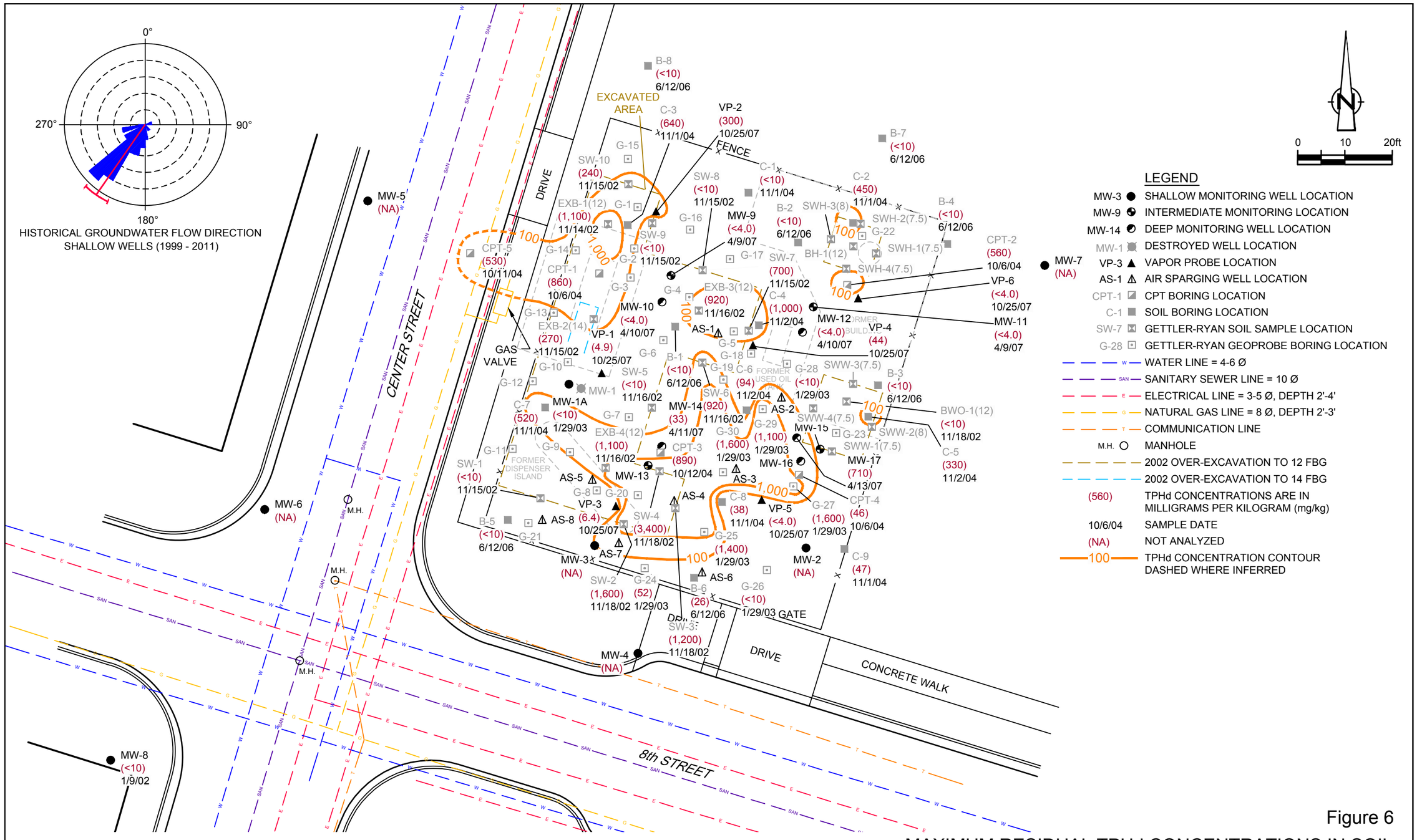


Figure 6

MAXIMUM RESIDUAL TPHd CONCENTRATIONS IN SOIL
FORMER SIGNAL OIL SERVICE STATION 20-6145
800 CENTER STREET
Oakland, California

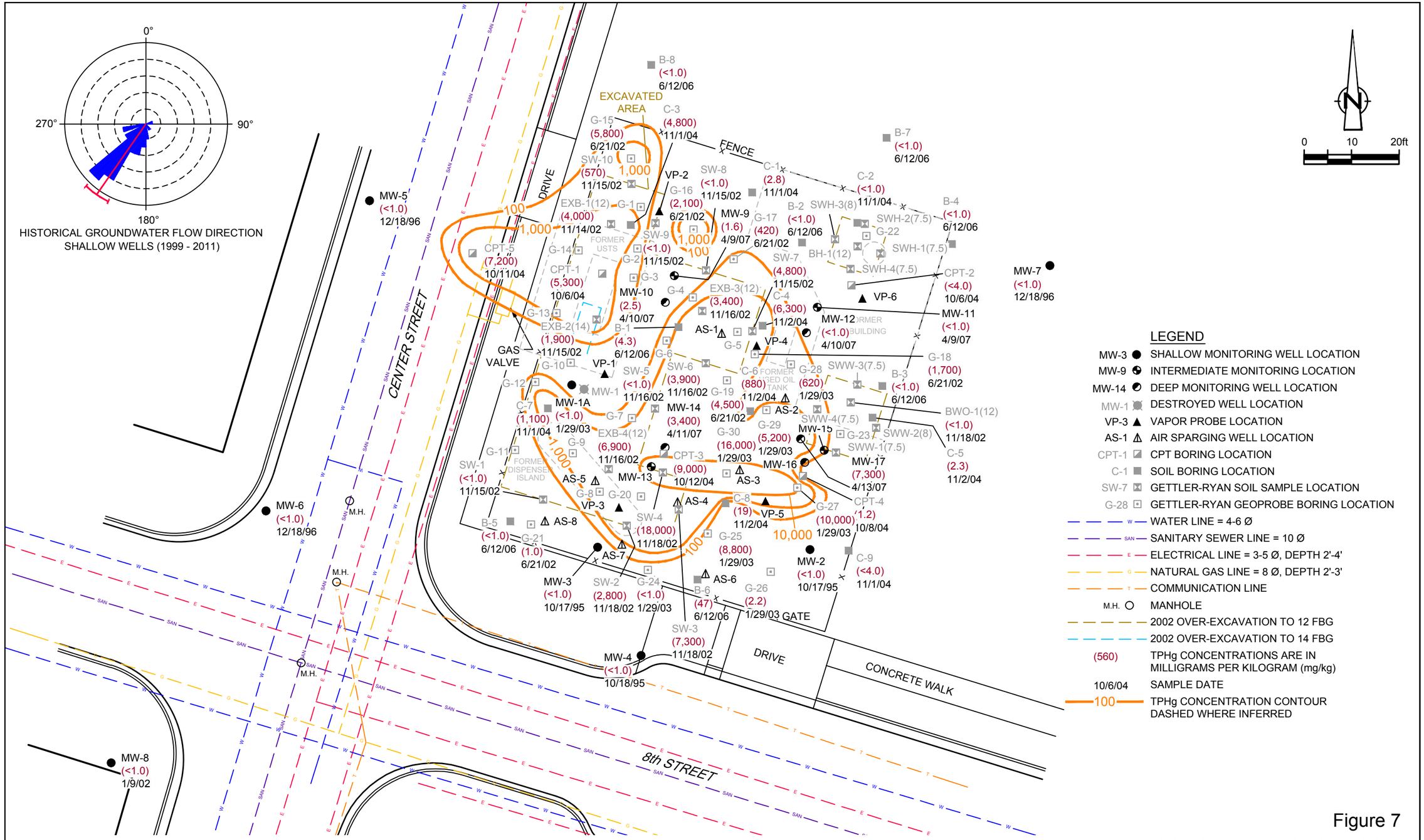


Figure 7

MAXIMUM RESIDUAL TPHg CONCENTRATIONS IN SOIL
FORMER SIGNAL OIL SERVICE STATION 20-6145
800 CENTER STREET
Oakland, California

312002-2011.2(021)GN-WA005 NOV 24/2011

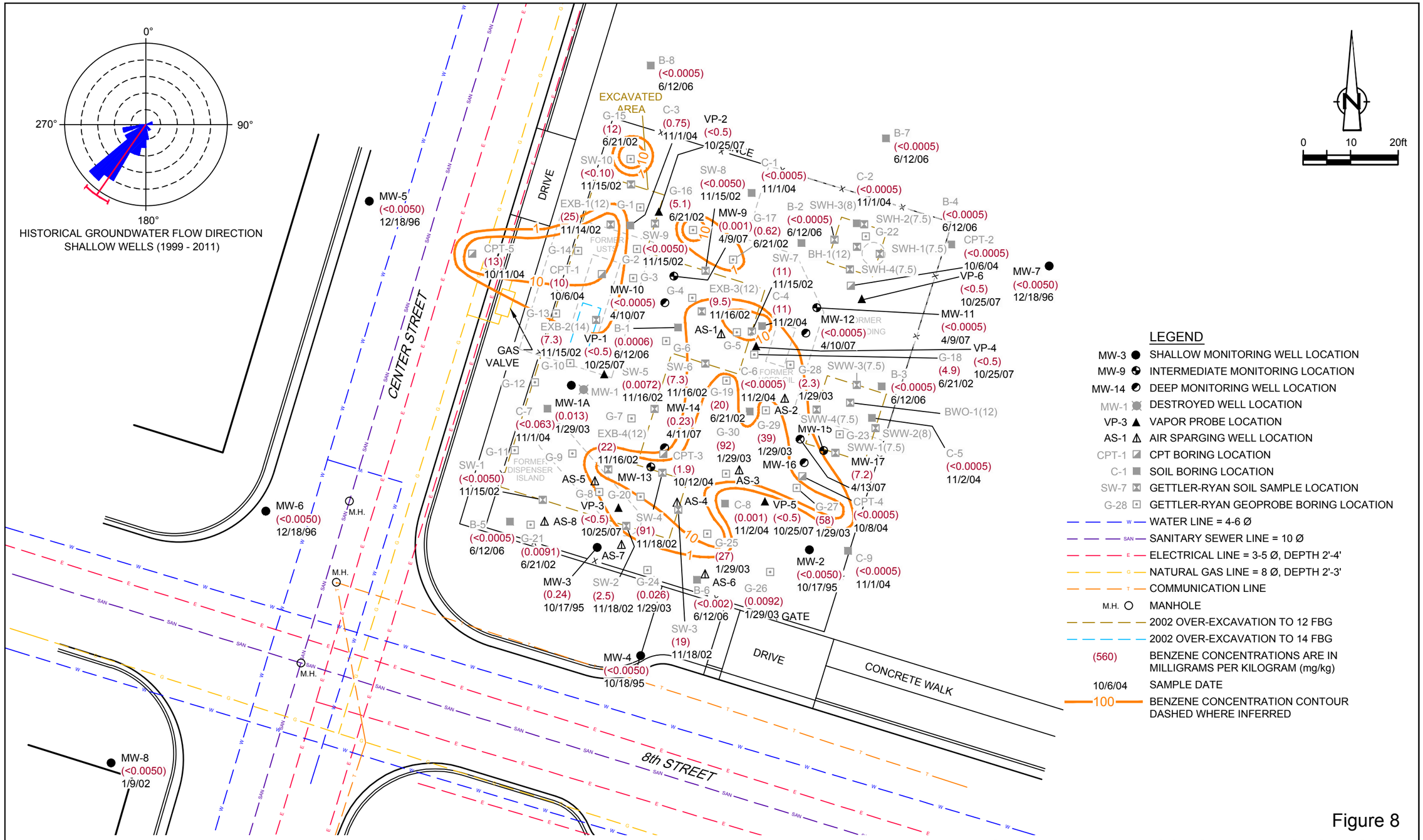


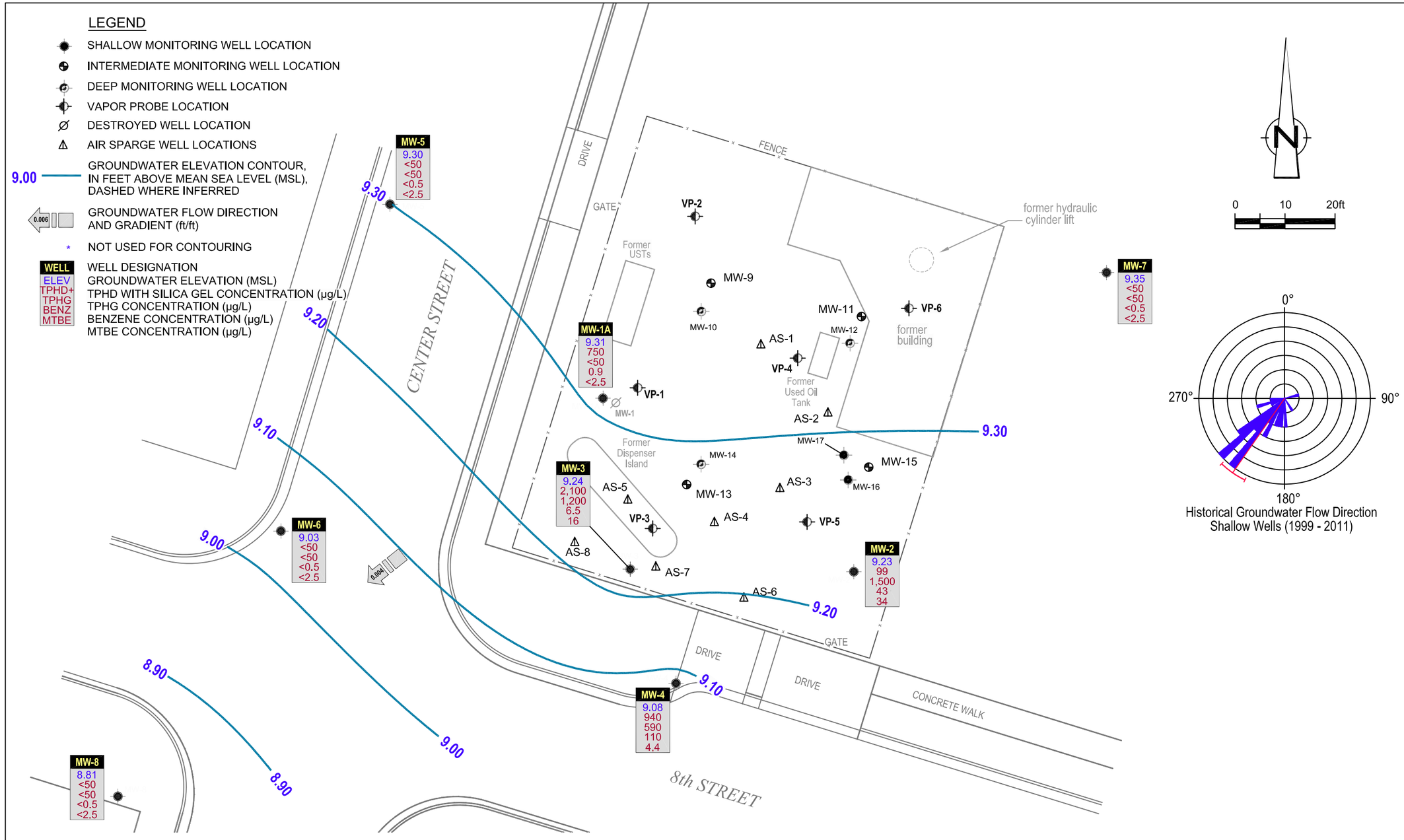
Figure 8

MAXIMUM RESIDUAL BENZENE CONCENTRATIONS IN SOIL
FORMER SIGNAL OIL SERVICE STATION 20-6145
800 CENTER STREET
Oakland, California

312002-2011.2(021)GN-WA006 NOV 24/2011

LEGEND

- SHALLOW MONITORING WELL LOCATION
- INTERMEDIATE MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- VAPOR PROBE LOCATION
- DESTROYED WELL LOCATION
- AIR SPARGE WELL LOCATIONS
- 9.00 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (MSL), DASHED WHERE INFERRED
- 0.006 — GROUNDWATER FLOW DIRECTION AND GRADIENT (ft/ft)
- * NOT USED FOR CONTOURING
- WELL — WELL DESIGNATION
- ELEV — GROUNDWATER ELEVATION (MSL)
- TPHD+ — TPHD WITH SILICA GEL CONCENTRATION (µg/L)
- TPHG — TPHG CONCENTRATION (µg/L)
- BENZ — BENZENE CONCENTRATION (µg/L)
- MTBE — MTBE CONCENTRATION (µg/L)



Historical Groundwater Flow Direction
Shallow Wells (1999 - 2011)

Figure 9

SHALLOW GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP
FORMER SIGNAL OIL SERVICE STATION 20-6145
800 CENTER STREET
Oakland, California
August 4, 2011

TABLES

TABLE 1
WELL CONSTRUCTION SPECIFICATIONS
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Well ID	*Date Installed*	*Status*	*Top of Casing (TOC) (ft-msl)*	*Casing Diameter (inches)*	*Total Depth (fbg)*	*Top of Screen Interval (fbg)*	*Bottom Screen of Interval (fbg)*	*Length of Screen (ft)*
MW-1A	01/29/03	Active	18.11	2	16.5	6.5	16.5	10
MW-2	10/17/95	Active	18.40	2	16.5	5	15	10
MW-3	10/17/95	Active	18.07	2	16.5	5	15	10
MW-4	10/18/95	Active	16.98	2	16.5	5	15	10
MW-5	12/18/96	Active	17.68	2	20	5	20	15
MW-6	12/18/96	Active	17.33	2	20	5	20	15
MW-7	12/18/96	Active	19.26	2	20	5	20	15
MW-8	12/18/96	Active	17.79	2	21.5	NA	NA	NA
MW-9	04/09/07	Active	18.42	2	40	35	40	5
MW-10	04/10/07	Active	17.99	2	60	55	60	5
MW-11	04/09/07	Active	18.68	2	40	35	40	5
MW-12	04/10/07	Active	18.46	2	60	55	60	5
MW-13	04/11/07	Active	18.43	2	40	35	40	5
MW-14	04/11/07	Active	18.59	2	60	55	60	5
MW-15	04/12/07	Active	18.38	2	40	35	40	5
MW-16	04/12/07	Active	18.57	2	60	55	60	5
MW-17	04/13/07	Active	18.55	2	75	70	75	5
AS-1	02/09/10	Not Sampled	18.67	2	20	16	18	2
AS-2	02/09/10	Not Sampled	19.04	2	20	16	18	2
AS-3	02/09/10	Not Sampled	18.97	2	20	16	18	2
AS-4	02/09/10	Not Sampled	18.83	2	20	16	18	2
AS-5	02/10/10	Not Sampled	18.68	2	20	16	18	2
AS-6	02/10/10	Not Sampled	18.8	2	20	16	18	2
AS-7	02/10/10	Not Sampled	18.85	2	20	16	18	2
AS-8	02/10/10	Not Sampled	18.81	2	20	16	18	2

Note:
fbg = feet below grade
ft = feet
NA= not available
AS well TOC is actually the well bos elevation

TABLE 2
CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*1,2-DCA*	*EDB*	*TPHmo*	*TPHho*	*TOG*	*VOC*	*SVOC*	*Metals*
	ESLs		*Milligrams Per Kilogram (mg/kg)*														
Table G	Soil Leaching, Drinking Water Resource		83	83	0.044	2.9	3.3	2.3	0.023	0.0045	1.1	NE	NE	NE	Varies	Varies	Varies
Table K-2	Direct Exposure: Commercial-Industrial		450	450	0.27	210	5	100	65	0.48	460	3,700	NE	3,700	Varies	Varies	Varies
Table K-3	Direct Exposure: Construction-Trench Worker		4,200	4,200	12	650	210	420	2,800	21	600	12,000	NE	12,000	Varies	Varies	Varies
1995 WELL INSTALLATION																	
MW-2	10/17/95	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
MW-2	10/17/95	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
MW-3	10/17/95	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
MW-3	10/17/95	10	---	<1.0	**0.24**	0.01	0.016	0.019	--	--	--	--	--	--	--	--	--
MW-4	10/18/95	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
MW-4	10/18/95	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
MW-5	12/18/96	5	---	<1.0	<0.0050	0.016	0.0083	0.046	--	--	--	--	--	--	--	--	--
MW-5	12/18/96	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
MW-5	12/18/96	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
MW-6	12/18/96	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
MW-6	12/18/96	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
MW-6	12/18/96	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
MW-7	12/18/96	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
MW-7	12/18/96	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
MW-7	12/18/96	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
MW-8	12/18/96	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
MW-8	12/18/96	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
MW-8	12/18/96	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--
2002 WELL INSTALLATION																	
MW-8	1/9/02	11	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
MW-8	1/9/02	15	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
MW-8	1/9/02	20	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
2002 SOIL PRE-PROFILE SAMPLING																	
~~G-1~~	~~6/21/02~~	~~5~~	~~---~~	~~3,000~~	~~0.95~~	~~46~~	~~52~~	~~240~~	--	--	--	--	--	--	--	--	--
~~G-1~~	~~6/21/02~~	~~10~~	~~---~~	~~12,000~~	~~31~~	~~660~~	~~290~~	~~1,100~~	--	--	--	--	--	--	--	--	--
~~G-2~~	~~6/21/02~~	~~5~~	~~---~~	~~2,700~~	~~2.8~~	~~84~~	~~77~~	~~310~~	--	--	--	--	--	--	--	--	--
~~G-2~~	~~6/21/02~~	~~10~~	~~---~~	~~3,800~~	~~7.5~~	~~200~~	~~120~~	~~500~~	--	--	--	--	--	--	--	--	--

TABLE 2
CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*1,2-DCA*	*EDB*	*TPHmo*	*TPHho*	*TOG*	*VOC*	*SVOC*	*Metals*
	ESLs		*Milligrams Per Kilogram (mg/kg)*														
Table G	Soil Leaching, Drinking Water Resource		83	83	0.044	2.9	3.3	2.3	0.023	0.0045	1.1	NE	NE	NE	Varies	Varies	Varies
Table K-2	Direct Exposure: Commercial-Industrial		450	450	0.27	210	5	100	65	0.48	460	3,700	NE	3,700	Varies	Varies	Varies
Table K-3	Direct Exposure: Construction-Trench Worker		4,200	4,200	12	650	210	420	2,800	21	600	12,000	NE	12,000	Varies	Varies	Varies
~~G-3~~	~~6/21/02~~	~~5~~	~~---~~	~~<1.0~~	~~0.0059~~	~~0.049~~	~~0.016~~	~~0.057~~	--	--	--	--	--	--	--	--	--
~~G-3~~	~~6/21/02~~	~~10~~	~~---~~	~~7,700~~	~~19~~	~~520~~	~~290~~	~~1,100~~	--	--	--	--	--	--	--	--	--
~~G-4~~	~~6/21/02~~	~~5~~	~~---~~	~~<1.0~~	~~<0.0050~~	~~0.021~~	~~0.0056~~	~~0.027~~	--	--	--	--	--	--	--	--	--
~~G-4~~	~~6/21/02~~	~~10~~	~~---~~	~~3,300~~	~~3.5~~	~~140~~	~~120~~	~~480~~	--	--	--	--	--	--	--	--	--
~~G-5~~	~~6/21/02~~	~~5~~	~~---~~	~~7.1~~	~~<0.0050~~	~~0.041~~	~~0.022~~	~~0.064~~	--	--	--	--	--	--	--	--	--
~~G-5~~	~~6/21/02~~	~~10~~	~~---~~	~~45~~	~~0.062~~	~~0.58~~	~~0.62~~	~~2.4~~	--	--	--	--	--	--	--	--	--
~~G-6~~	~~6/21/02~~	~~5~~	~~---~~	~~<1.0~~	~~<0.0050~~	~~0.0069~~	~~0.0054~~	~~0.022~~	--	--	--	--	--	--	--	--	--
~~G-6~~	~~6/21/02~~	~~10~~	~~---~~	~~6,300~~	~~19~~	~~360~~	~~190~~	~~900~~	--	--	--	--	--	--	--	--	--
~~G-7~~	~~6/21/02~~	~~5~~	~~---~~	~~<1.0~~	~~0.0057~~	~~0.045~~	~~0.012~~	~~0.046~~	--	--	--	--	--	--	--	--	--
~~G-7~~	~~6/21/02~~	~~10~~	~~---~~	~~7,300~~	~~18~~	~~420~~	~~250~~	~~1,100~~	--	--	--	--	--	--	--	--	--
~~G-8~~	~~6/21/02~~	~~5~~	~~---~~	~~7,100~~	~~8.4~~	~~280~~	~~210~~	~~960~~	--	--	--	--	--	--	--	--	--
~~G-8~~	~~6/21/02~~	~~10~~	~~---~~	~~16,000~~	~~69~~	~~1,100~~	~~470~~	~~1,900~~	--	--	--	--	--	--	--	--	--
~~G-9~~	~~6/21/02~~	~~5~~	~~---~~	~~3,700~~	~~1.9~~	~~54~~	~~57~~	~~350~~	--	--	--	--	--	--	--	--	--
~~G-9~~	~~6/21/02~~	~~10~~	~~---~~	~~19,000~~	~~83~~	~~1,200~~	~~520~~	~~2,200~~	--	--	--	--	--	--	--	--	--
~~G-10~~	~~6/21/02~~	~~5~~	~~---~~	~~<1.0~~	~~0.014~~	~~0.073~~	~~0.012~~	~~0.052~~	--	--	--	--	--	--	--	--	--
~~G-10~~	~~6/21/02~~	~~10~~	~~---~~	~~2,100~~	~~1.4~~	~~32~~	~~52~~	~~270~~	--	--	--	--	--	--	--	--	--
~~G-11~~	~~6/21/02~~	~~5~~	~~---~~	~~<1.0~~	~~<0.0050~~	~~0.035~~	~~0.019~~	~~0.084~~	--	--	--	--	--	--	--	--	--
~~G-11~~	~~6/21/02~~	~~10~~	~~---~~	~~100~~	~~<0.080~~	~~0.43~~	~~0.53~~	~~3.1~~	--	--	--	--	--	--	--	--	--
~~G-12~~	~~6/21/02~~	~~5~~	~~---~~	~~<1.0~~	~~<0.0050~~	~~0.034~~	~~0.010~~	~~0.057~~	--	--	--	--	--	--	--	--	--
~~G-12~~	~~6/21/02~~	~~10~~	~~---~~	~~9,000~~	~~50~~	~~540~~	~~240~~	~~1,200~~	--	--	--	--	--	--	--	--	--
~~G-13~~	~~6/21/02~~	~~5~~	~~---~~	~~<1.0~~	~~<0.0050~~	~~0.0062~~	~~<0.0050~~	~~0.019~~	--	--	--	--	--	--	--	--	--
~~G-13~~	~~6/21/02~~	~~10~~	~~---~~	~~12,000~~	~~56~~	~~600~~	~~290~~	~~1,400~~	--	--	--	--	--	--	--	--	--
~~G-14~~	~~6/21/02~~	~~5~~	~~---~~	~~3,900~~	~~<20~~	~~190~~	~~120~~	~~510~~	--	--	--	--	--	--	--	--	--
~~G-14~~	~~6/21/02~~	~~10~~	~~---~~	~~14,000~~	~~65~~	~~940~~	~~400~~	~~1,700~~	--	--	--	--	--	--	--	--	--
G-15	6/21/02	5	---	<1.0	<0.0050	0.020	<0.0050	0.017	--	--	--	--	--	--	--	--	--
G-15	6/21/02	10	---	**5,800**	**12**	**320**	**110**	**450**	--	--	--	--	--	--	--	--	--
G-16	6/21/02	5	---	<1.0	<0.0050	0.015	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
G-16	6/21/02	10	---	**2,100**	**5.1**	**110**	**52**	**230**	--	--	--	--	--	--	--	--	--
G-17	6/21/02	5	---	35	**0.082**	0.78	0.54	1.2	--	--	--	--	--	--	--	--	--
G-17	6/21/02	10	---	**420**	**0.62**	**9.2**	**9.9**	**41**	--	--	--	--	--	--	--	--	--

TABLE 2
CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*1,2-DCA*	*EDB*	*TPHmo*	*TPHho*	*TOG*	*VOC*	*SVOC*	*Metals*
	ESLs		*Milligrams Per Kilogram (mg/kg)*														
Table G	Soil Leaching, Drinking Water Resource		83	83	0.044	2.9	3.3	2.3	0.023	0.0045	1.1	NE	NE	NE	Varies	Varies	Varies
Table K-2	Direct Exposure: Commercial-Industrial		450	450	0.27	210	5	100	65	0.48	460	3,700	NE	3,700	Varies	Varies	Varies
Table K-3	Direct Exposure: Construction-Trench Worker		4,200	4,200	12	650	210	420	2,800	21	600	12,000	NE	12,000	Varies	Varies	Varies
G-18	6/21/02	5	---	81	**0.11**	1.1	0.76	**2.6**	--	--	--	--	--	--	--	--	--
G-18	6/21/02	10	---	**1,700**	**4.9**	**68**	**51**	**220**	--	--	--	--	--	--	--	--	--
G-19	6/21/02	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
G-19	6/21/02	10	---	**4,500**	**20**	**230**	**110**	**450**	--	--	--	--	--	--	--	--	--
~~G-20~~	~~6/21/02~~	~~5~~	~~---~~	~~1,700~~	~~3.2~~	~~31~~	~~30~~	~~140~~	--	--	--	--	--	--	--	--	--
~~G-20~~	~~6/21/02~~	~~10~~	~~---~~	~~6,900~~	~~26~~	~~360~~	~~200~~	~~870~~	--	--	--	--	--	--	--	--	--
G-21	6/21/02	5	---	<1.0	<0.0050	0.016	<0.0050	0.016	--	--	--	--	--	--	--	--	--
G-21	6/21/02	10	---	1.0	0.0091	0.18	0.055	0.23	--	--	--	--	--	--	--	--	--
2002 OVEREXCAVATION																	
SW-1	11/15/02	5	<10	<1.0	<0.0050	0.0073	<0.0050	0.017	--	--	--	--	--	--	--	--	--
SW-1	11/15/02	10	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
SW-2	11/18/02	5	<10	<1.0	<0.0050	0.0088	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
SW-2	11/18/02	10	**1,600**	**2,800**	**2.5**	**75**	**52**	**250**	--	--	--	--	--	--	--	--	--
SW-3	11/18/02	5	<10	<1.0	<0.0050	0.0089	<0.0050	0.021	--	--	--	--	--	--	--	--	--
SW-3	11/18/02	10	**1,200**	**7,300**	**19**	**330**	**170**	**650**	--	--	--	--	--	--	--	--	--
SW-4	11/18/02	5	<10	<1.0	<0.0050	0.0081	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
SW-4	11/18/02	10	**3,400**	**18,000**	**91**	**1,200**	**440**	**1,900**	--	--	--	--	--	--	--	--	--
SW-5	11/16/02	5	<10	<1.0	0.0072	0.039	0.0057	0.022	--	--	--	--	--	--	--	--	--
SW-5	11/16/02	10	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
SW-6	11/16/02	5	**110**	4.1	0.0084	0.15	0.079	0.41	--	--	--	--	--	--	--	--	--
SW-6	11/16/02	10	**920**	**3,900**	**7.3**	**140**	**110**	**450**	--	--	--	--	--	--	--	--	--
SW-7	11/15/02	5	<10	<1.0	<0.0050	0.011	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
SW-7	11/15/02	10	**700**	**4,800**	**11**	**250**	**130**	**540**	--	--	--	--	--	--	--	--	--
SW-8	11/15/02	5	<10	<1.0	<0.0050	0.016	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
SW-8	11/15/02	10	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
SW-9	11/15/02	5	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
SW-9	11/15/02	10	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
SW-10	11/15/02	5	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
SW-10	11/15/02	10	**240**	**570**	<0.10	0.66	**3.7**	**21**	--	--	--	--	--	--	--	--	--

TABLE 2
CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*1,2-DCA*	*EDB*	*TPHmo*	*TPHho*	*TOG*	*VOC*	*SVOC*	*Metals*
	ESLs		*Milligrams Per Kilogram (mg/kg)*														
Table G	Soil Leaching, Drinking Water Resource		83	83	0.044	2.9	3.3	2.3	0.023	0.0045	1.1	NE	NE	NE	Varies	Varies	Varies
Table K-2	Direct Exposure: Commercial-Industrial		450	450	0.27	210	5	100	65	0.48	460	3,700	NE	3,700	Varies	Varies	Varies
Table K-3	Direct Exposure: Construction-Trench Worker		4,200	4,200	12	650	210	420	2,800	21	600	12,000	NE	12,000	Varies	Varies	Varies
EXB-1	11/14/02	12	**1,100**	**4,000**	**25**	**230**	**87**	**380**	--	--	--	--	--	--	--	--	--
EXB-2	11/15/02	14	**270**	**1,900**	**7.3**	**71**	**42**	**200**	--	--	--	--	--	--	--	--	--
EXB-3	11/16/02	12	**920**	**3,400**	**9.5**	**170**	**86**	**370**	--	--	--	--	--	--	--	--	--
EXB-4	11/16/02	12	**1,100**	**6,900**	**22**	**310**	**150**	**640**	--	--	--	--	--	--	--	--	--
SWH-1	11/16/02	7.5	--	--	--	--	--	--	--	--	--	<10	<10	--	--	--	--
SWH-2	11/16/02	7.5	--	--	--	--	--	--	--	--	--	<10	<10	--	--	--	--
SWH-3	11/16/02	8	--	--	--	--	--	--	--	--	--	<10	<10	--	--	--	--
SWH-4	11/16/02	7.5	--	--	--	--	--	--	--	--	--	<10	<10	--	--	--	--
BH-1	11/16/02	12	--	--	--	--	--	--	--	--	--	<10	<10	--	--	--	--
SWW-1	11/18/02	7.5	--	--	--	--	--	--	--	--	--	--	--	<230	--	--	--
SWW-2	11/18/02	8	--	--	--	--	--	--	--	--	--	--	--	<230	--	--	--
SWW-3	11/18/02	7.5	--	--	--	--	--	--	--	--	--	--	--	<230	--	--	--
SWW-4	11/18/02	7.5	--	--	--	--	--	--	--	--	--	--	--	<230	--	--	--
BWO-1	11/18/02	12	<10	<1.0	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	--	--	<230	ND [a]	ND [b]	c
2003 SOIL BORINGS & WELL INSTALLATION (POST-OVEREXCAVATION)																	
G-24	1/29/03	5	52	<1.0	<0.0050	0.012	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
G-24	1/29/03	10	<10	<1.0	0.0074	0.014	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
G-24	1/29/03	15	<10	<1.0	0.026	0.012	0.0096	<0.015	--	--	--	--	--	--	--	--	--
G-25	1/29/03	5	53	<1.0	<0.0050	0.0095	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
G-25	1/29/03	10	**1,400**	**8,800**	**27**	**560**	**290**	**1,200**	--	--	--	--	--	--	--	--	--
G-25	1/29/03	15	**350**	**1,200**	**8.5**	**90**	**35**	**140**	--	--	--	--	--	--	--	--	--
G-26	1/29/03	5	<10	2.2	<0.0050	0.020	0.0076	0.036	--	--	--	--	--	--	--	--	--
G-26	1/29/03	10	<10	<1.0	<0.0050	0.0092	<0.0050	<0.015	--	--	--	--	--	--	--	--	--
G-26	1/29/03	15	<10	2.2	0.0092	<0.020	0.019	0.031	--	--	--	--	--	--	--	--	--
G-27	1/29/03	5	<10	<1.0	<0.0050	0.020	<0.0050	0.018	--	--	--	--	--	--	--	--	--
G-27	1/29/03	10	**1,600**	**5,500**	**13**	**250**	**180**	**700**	--	--	--	--	--	--	--	--	--
G-27	1/29/03	15	**170**	**10,000**	**58**	**790**	**350**	**1,300**	--	--	--	--	--	--	--	--	--

TABLE 2
CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*1,2-DCA*	*EDB*	*TPHmo*	*TPHho*	*TOG*	*VOC*	*SVOC*	*Metals*
	ESLs		*Milligrams Per Kilogram (mg/kg)*														
Table G	Soil Leaching, Drinking Water Resource		83	83	0.044	2.9	3.3	2.3	0.023	0.0045	1.1	NE	NE	NE	Varies	Varies	Varies
Table K-2	Direct Exposure: Commercial-Industrial		450	450	0.27	210	5	100	65	0.48	460	3,700	NE	3,700	Varies	Varies	Varies
Table K-3	Direct Exposure: Construction-Trench Worker		4,200	4,200	12	650	210	420	2,800	21	600	12,000	NE	12,000	Varies	Varies	Varies
G-28	1/29/03	5	<10	<1.0	0.0054	0.030	0.0063	0.026	--	--	--	--	--	--	--	--	--
G-28	1/29/03	10	<10	16	0.027	0.096	0.056	0.28	--	--	--	--	--	--	--	--	--
G-28	1/29/03	15	<10	**620**	**2.3**	**34**	**17**	**71**	--	--	--	--	--	--	--	--	--
G-29	1/29/03	5	<10	<1.0	<0.0050	0.021	0.0057	0.021	--	--	--	--	--	--	--	--	--
G-29	1/29/03	10	**410**	**5,200**	**39**	**380**	**160**	**640**	--	--	--	--	--	--	--	--	--
G-29	1/29/03	15	**1,100**	**4,800**	**14**	**290**	**170**	**670**	--	--	--	--	--	--	--	--	--
G-30	1/29/03	5	<10	7.1	0.014	0.25	0.14	0.70	--	--	--	--	--	--	--	--	--
G-30	1/29/03	10	**1,600**	**16,000**	**92**	**1,000**	**480**	**1,900**	--	--	--	--	--	--	--	--	--
G-30	1/29/03	15	**500**	**3,500**	**27**	**210**	**85**	**370**	--	--	--	--	--	--	--	--	--
MW-1A	1/29/03	16	<10	<1.0	0.013	0.033	0.0087	0.027	--	--	--	--	--	--	--	--	--
2004 GEOPROBE® and CPT INVESTIGATION																	
CPT-1	10/6/04	10.5	**860**	**5,300**	**10**	**230**	**92**	**460**	<0.62	<1.2	<1.2	--	--	--	--	--	--
CPT-1	10/6/04	14.5	<10	2.0	0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-1	10/6/04	25.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-1	10/6/04	29.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-1	10/6/04	35	<10	<1.0	0.0005	0.005	0.004	0.023	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-1	10/6/04	40	<10	<1.0	0.01	0.098	0.040	0.20	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-2	10/6/04	5	**560**	<4.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-2	10/7/04	10.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-2	10/7/04	14.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-2	10/7/04	20.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-2	10/7/04	25.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-2	10/7/04	29.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-2	10/7/04	35.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-2	10/7/04	40.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-3	10/12/04	10.5	**890**	**9,000**	**1.9**	**200**	130	**660**	<0.25	<0.50	<0.50	--	--	--	--	--	--
CPT-3	10/12/04	15.5	<10	18	**0.094**	0.028	0.34	0.31	<0.003	<0.005	<0.005	--	--	--	--	--	--
CPT-3	10/12/04	20.5	<10	14	0.002	0.003	0.01	0.025	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-3	10/12/04	25.5	<10	1.3	0.001	0.009	0.001	0.005	<0.0005	<0.001	<0.001	--	--	--	--	--	--

TABLE 2
CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*1,2-DCA*	*EDB*	*TPHmo*	*TPHho*	*TOG*	*VOC*	*SVOC*	*Metals*
	ESLs		*Milligrams Per Kilogram (mg/kg)*														
Table G	Soil Leaching, Drinking Water Resource		83	83	0.044	2.9	3.3	2.3	0.023	0.0045	1.1	NE	NE	NE	Varies	Varies	Varies
Table K-2	Direct Exposure: Commercial-Industrial		450	450	0.27	210	5	100	65	0.48	460	3,700	NE	3,700	Varies	Varies	Varies
Table K-3	Direct Exposure: Construction-Trench Worker		4,200	4,200	12	650	210	420	2,800	21	600	12,000	NE	12,000	Varies	Varies	Varies
CPT-3	10/12/04	29.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-3	10/12/04	35.5	<10	3.3	0.013	0.031	<0.001	0.11	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-3	10/12/04	40.5	<10	4.5	0.008	0.032	0.002	0.13	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-4	10/6/04	5	46	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-4	10/8/04	10.5	<10	1.2	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-4	10/8/04	14.5	<10	<1.0	<0.0005	0.005	0.001	0.005	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-4	10/8/04	20.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-4	10/8/04	25.5	<10	<1.0	<0.0005	0.002	<0.001	0.002	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-4	10/8/04	29.5	<10	<1.0	<0.0005	0.004	0.001	0.005	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-4	10/8/04	35.5	<10	<1.0	<0.0005	0.001	<0.001	0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-4	10/8/04	40.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--

TABLE 2
CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*1,2-DCA*	*EDB*	*TPHmo*	*TPHho*	*TOG*	*VOC*	*SVOC*	*Metals*
	ESLs		*Milligrams Per Kilogram (mg/kg)*														
Table G	Soil Leaching, Drinking Water Resource		83	83	0.044	2.9	3.3	2.3	0.023	0.0045	1.1	NE	NE	NE	Varies	Varies	Varies
Table K-2	Direct Exposure: Commercial-Industrial		450	450	0.27	210	5	100	65	0.48	460	3,700	NE	3,700	Varies	Varies	Varies
Table K-3	Direct Exposure: Construction-Trench Worker		4,200	4,200	12	650	210	420	2,800	21	600	12,000	NE	12,000	Varies	Varies	Varies
CPT-5	10/11/04	5	<10	1.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-5	10/11/04	9.5	**530**	**7,200**	**13**	**260**	100	**550**	<0.25	<0.50	1.5	--	--	--	--	--	--
CPT-5	10/11/04	15.5	<10	**140**	<0.063	<0.13	<0.13	0.13	<0.063	<0.13	<0.13	--	--	--	--	--	--
CPT-5	10/11/04	25.5	22	7.6	**0.081**	0.75	0.12	0.74	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-5	10/11/04	29.5	<10	13	0.0005	0.005	0.002	0.010	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-5	10/11/04	35.5	<10	<1.0	<0.0005	0.006	0.003	0.015	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-5	10/11/04	50.5	<10	4.8	<0.0005	0.003	0.002	0.010	<0.0005	<0.001	<0.001	--	--	--	--	--	--
CPT-5	10/11/04	69.5	<10	<1.0	<0.0005	0.001	<0.001	0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-1	11/1/04	5	<10	2.8	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-1	11/1/04	10	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-1	11/1/04	15	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-1	11/1/04	20	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-1	11/1/04	24.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-2	11/1/04	5	**450**	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-2	11/1/04	10	67	<1.0	<0.0005	0.002	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-2	11/1/04	15	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-2	11/1/04	20	13	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-2	11/1/04	24.5	<10	<1.0	<0.0005	0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-3	11/1/04	10	**640**	**4,800**	**0.75**	**94**	66	**310**	<0.63	<1.3	<1.3	--	--	--	--	--	--
C-3	11/1/04	15	22	9.7	<0.001	<0.002	0.003	0.005	<0.001	<0.002	<0.002	--	--	--	--	--	--
C-3	11/1/04	20	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-3	11/1/04	24.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-4	11/1/04	5	**160**	9.2	0.001	0.008	<0.001	0.003	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-4	11/2/04	10	**1,000**	**6,300**	**11**	**410**	200	**780**	<0.63	<1.3	<1.3	--	--	--	--	--	--
C-4	11/2/04	15	<10	3.1	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-4	11/2/04	20	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-4	11/2/04	24.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-5	11/1/04	5	**160**	1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-5	11/2/04	10	**330**	2.3	<0.0005	0.002	<0.001	0.002	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-5	11/2/04	15	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--

TABLE 2
CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*1,2-DCA*	*EDB*	*TPHmo*	*TPHho*	*TOG*	*VOC*	*SVOC*	*Metals*
	ESLs		*Milligrams Per Kilogram (mg/kg)*														
Table G	Soil Leaching, Drinking Water Resource		83	83	0.044	2.9	3.3	2.3	0.023	0.0045	1.1	NE	NE	NE	Varies	Varies	Varies
Table K-2	Direct Exposure: Commercial-Industrial		450	450	0.27	210	5	100	65	0.48	460	3,700	NE	3,700	Varies	Varies	Varies
Table K-3	Direct Exposure: Construction-Trench Worker		4,200	4,200	12	650	210	420	2,800	21	600	12,000	NE	12,000	Varies	Varies	Varies
C-5	11/2/04	20	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-5	11/2/04	24.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-6	11/2/04	10	**94**	**880**	<0.063	**3.8**	**6.9**	**36**	<0.063	<0.13	<0.13	--	--	--	--	--	--
C-6	11/2/04	15	<10	27	<0.002	<0.005	0.11	0.052	<0.002	<0.005	<0.005	--	--	--	--	--	--
C-6	11/2/04	20	<10	4.3	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-6	11/2/04	24.5	<10	<1.0	<0.0005	0.003	<0.001	0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-7	11/1/04	10	**520**	<10	<0.0005	0.003	<0.001	0.002	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-7	11/1/04	15	39	**1,100**	<0.063	1.9	**5.7**	**33**	<0.063	<0.13	<0.13	--	--	--	--	--	--
C-7	11/1/04	20	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-7	11/1/04	24.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-8	11/1/04	5	38	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-8	11/2/04	10	<10	2.7	<0.0005	<0.001	<0.001	0.001	<0.62	<1.2	2.5	--	--	--	--	--	--
C-8	11/2/04	15	<10	19	0.001	<0.002	0.003	0.002	<0.001	<0.002	<0.002	--	--	--	--	--	--
C-8	11/2/04	20	<10	2.7	<0.0005	<0.001	<0.001	0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-8	11/2/04	24.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-9	11/1/04	5	47	<4.0	<0.0005	0.003	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-9	11/2/04	10	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-9	11/2/04	15	<10	<1.0	<0.0005	0.002	<0.001	0.002	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-9	11/2/04	20	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
C-9	11/2/04	24.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--
2006 SOIL PRE-PROFILE SAMPLING																	
B-1	6/12/06	9.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-1	6/12/06	15	<10	4.3	0.0006	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-1	6/12/06	19.5	<10	2.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--

TABLE 2
CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*1,2-DCA*	*EDB*	*TPHmo*	*TPHho*	*TOG*	*VOC*	*SVOC*	*Metals*
	ESLs		*Milligrams Per Kilogram (mg/kg)*														
Table G	Soil Leaching, Drinking Water Resource		83	83	0.044	2.9	3.3	2.3	0.023	0.0045	1.1	NE	NE	NE	Varies	Varies	Varies
Table K-2	Direct Exposure: Commercial-Industrial		450	450	0.27	210	5	100	65	0.48	460	3,700	NE	3,700	Varies	Varies	Varies
Table K-3	Direct Exposure: Construction-Trench Worker		4,200	4,200	12	650	210	420	2,800	21	600	12,000	NE	12,000	Varies	Varies	Varies
B-2	6/12/06	9.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-2	6/12/06	15	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-2	6/12/06	19.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-3	6/12/06	10	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-3	6/12/06	15	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-3	6/12/06	19.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-4	6/12/06	9.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-4	6/12/06	15	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-4	6/12/06	19.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-5	6/12/06	9.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-5	6/12/06	14.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-5	6/12/06	19.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-6	6/12/06	9.5	26	47	<0.002	<0.005	<0.005	<0.002	--	--	--	--	--	--	--	--	--
B-6	6/12/06	15	<10	4.6	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-6	6/12/06	19.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-7	6/12/06	10	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-7	6/12/06	14.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-7	6/12/06	19.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-8	6/12/06	9.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-8	6/12/06	14.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
B-8	6/12/06	19.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
2007 DEEP WELL INSTALLATION																	
MW-9	4/9/07	14.5	<4.0	1.6	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-9	4/9/07	19.5	<4.0	7.1	0.001	<0.001	0.001	0.001	--	--	--	--	--	--	--	--	--
MW-9	4/9/07	24.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-9	4/9/07	29.5	<4.0	<1.0	<0.0005	0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-9	4/9/07	34.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-9	4/9/07	39.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--

TABLE 2
CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*1,2-DCA*	*EDB*	*TPHmo*	*TPHho*	*TOG*	*VOC*	*SVOC*	*Metals*
	ESLs		*Milligrams Per Kilogram (mg/kg)*														
Table G	Soil Leaching, Drinking Water Resource		83	83	0.044	2.9	3.3	2.3	0.023	0.0045	1.1	NE	NE	NE	Varies	Varies	Varies
Table K-2	Direct Exposure: Commercial-Industrial		450	450	0.27	210	5	100	65	0.48	460	3,700	NE	3,700	Varies	Varies	Varies
Table K-3	Direct Exposure: Construction-Trench Worker		4,200	4,200	12	650	210	420	2,800	21	600	12,000	NE	12,000	Varies	Varies	Varies
MW-10	4/10/07	41.5	<4.0	2.5	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-10	4/10/07	44.5	<4.0	<1.0	<0.0005	0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-10	4/10/07	49.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-10	4/10/07	54.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-10	4/10/07	59.5	<4.0	<1.0	<0.0005	0.003	<0.001	0.005	--	--	--	--	--	--	--	--	--
MW-11	4/9/07	9.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-11	4/9/07	14.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-11	4/9/07	19.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-11	4/9/07	24.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-11	4/9/07	29.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-11	4/9/07	34.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-11	4/9/07	39.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-12	4/10/07	39.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-12	4/10/07	44.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-12	4/10/07	49.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-12	4/10/07	54.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-12	4/10/07	59.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-14	4/11/07	9.0	33	**3,400**	**0.23**	**35**	**34**	**180**	--	--	--	--	--	--	--	--	--
MW-14	4/11/07	14.5	13	**880**	**0.097**	0.45	3.2	**10**	--	--	--	--	--	--	--	--	--
MW-14	4/11/07	19.5	<4.0	7.3	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-14	4/11/07	24.5	<4.0	1.2	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-14	4/11/07	29.5	<4.0	<1.0	<0.0005	0.002	<0.001	0.001	--	--	--	--	--	--	--	--	--
MW-14	4/11/07	34.5	<4.0	<1.0	<0.0005	0.002	<0.001	0.001	--	--	--	--	--	--	--	--	--
MW-14	4/11/07	39.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-14	4/11/07	44.5	<4.0	2.1	0.0005	0.004	<0.001	0.004	--	--	--	--	--	--	--	--	--
MW-14	4/11/07	49.5	<4.0	1.5	0.004	0.011	0.005	0.024	--	--	--	--	--	--	--	--	--
MW-14	4/11/07	54.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-14	4/11/07	59.5	<4.0	<1.0	<0.0005	0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--

TABLE 2
CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*1,2-DCA*	*EDB*	*TPHmo*	*TPHho*	*TOG*	*VOC*	*SVOC*	*Metals*
	ESLs		*Milligrams Per Kilogram (mg/kg)*														
Table G	Soil Leaching, Drinking Water Resource		83	83	0.044	2.9	3.3	2.3	0.023	0.0045	1.1	NE	NE	NE	Varies	Varies	Varies
Table K-2	Direct Exposure: Commercial-Industrial		450	450	0.27	210	5	100	65	0.48	460	3,700	NE	3,700	Varies	Varies	Varies
Table K-3	Direct Exposure: Construction-Trench Worker		4,200	4,200	12	650	210	420	2,800	21	600	12,000	NE	12,000	Varies	Varies	Varies
MW-17	4/13/07	9.5	**710**	**7,300**	**7.2**	**330**	**150**	**650**	--	--	--	--	--	--	--	--	--
MW-17	4/13/07	14.5	<4.0	1.5	0.003	0.002	0.002	0.005	--	--	--	--	--	--	--	--	--
MW-17	4/13/07	19.5	<4.0	<1.0	<0.0005	0.004	0.002	0.001	--	--	--	--	--	--	--	--	--
MW-17	4/13/07	24.5	<4.0	<1.0	<0.0005	0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-17	4/13/07	29.5	<4.0	<1.0	<0.0005	0.002	<0.001	0.001	--	--	--	--	--	--	--	--	--
MW-17	4/13/07	34.5	<4.0	<1.0	<0.0005	0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-17	4/13/07	39.5	<4.0	<1.0	<0.0005	0.003	<0.001	0.003	--	--	--	--	--	--	--	--	--
MW-17	4/13/07	44.5	<4.0	3.1	0.002	0.032	0.014	0.032	--	--	--	--	--	--	--	--	--
MW-17	4/13/07	49.5	<4.0	<1.0	0.001	0.019	0.007	0.018	--	--	--	--	--	--	--	--	--
MW-17	4/13/07	54.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-17	4/13/07	59.5	<4.0	<1.0	0.0006	0.004	<0.001	0.001	--	--	--	--	--	--	--	--	--
MW-17	4/13/07	64.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-17	4/13/07	69.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--
MW-17	4/13/07	74.5	<4.0	<1.0	<0.0005	0.002	<0.001	<0.001	--	--	--	--	--	--	--	--	--
2007 Soil Vapor Point Installation																	
VP-1	10/25/07	6	4.9	--	<0.5	<1.0	<1.0	<1.0	<0.5	--	--	--	--	--	--	--	--
VP-2	10/25/07	6	**300**	--	<0.5	<1.0	<1.0	<1.0	<0.5	--	--	--	--	--	--	--	--
VP-3	10/25/07	6	6.4	--	<0.5	<1.0	<1.0	<1.0	<0.5	--	--	--	--	--	--	--	--
VP-4	10/25/07	6	44	--	<0.5	<1.0	<1.0	<1.0	<0.5	--	--	--	--	--	--	--	--
VP-5	10/25/07	6	<4.0	--	<0.5	<1.0	<1.0	<1.0	<0.5	--	--	--	--	--	--	--	--
VP-6	10/25/07	6	<4.0	--	<0.5	<1.0	<1.0	<1.0	<0.5	--	--	--	--	--	--	--	--

TABLE 2
CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*1,2-DCA*	*EDB*	*TPHmo*	*TPHho*	*TOG*	*VOC*	*SVOC*	*Metals*
	ESLs		*Milligrams Per Kilogram (mg/kg)*														
Table G	Soil Leaching, Drinking Water Resource		83	83	0.044	2.9	3.3	2.3	0.023	0.0045	1.1	NE	NE	NE	Varies	Varies	Varies
Table K-2	Direct Exposure: Commercial-Industrial		450	450	0.27	210	5	100	65	0.48	460	3,700	NE	3,700	Varies	Varies	Varies
Table K-3	Direct Exposure: Construction-Trench Worker		4,200	4,200	12	650	210	420	2,800	21	600	12,000	NE	12,000	Varies	Varies	Varies

Notes:

Total petroleum hydrocarbons as diesel (TPHd) by EPA Method 8015M w/ silca gel cleanup

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

Benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary butyl ether (MTBE), 1,2-dichloroethane (1,2-DCA), and 1,2-dichlorobenzene (EDB) by EPA Method 8260B

Total oil and grease (TOG) by Method SM 5520 D&E

Metals by EPS Method 6010B

Volatile Organics (VOC) by EPA Method 8260B

Semi-Volatile Organics (SVOC) by EPA Method 8270C

ESL = Environmental Screening Levels from San Francisco Regional Water Quality Control Board's *Screening for Environmental Concerns at Sites with Contaiminated Soil and Groundwater,* Interim Final November 2007 (Revised May 2008)

<x = Not detected above method detection limit

fbg = Feet below grade

--- = Not analyzed or not available

~~3,000~~ = Overexcavated in 2002, reported analytical results no longer applicable

a = 0.0044 mg/kg methylene chloroide

b = 0.10 mg/kg bis (2-ethylhexl) phthalate

c = 0.37 mg/kg Cadmium, 46.4 mg/kg Chromium, 3.9 mg/kg Lead, 32.8 mg/kg Nickel, and 50 mg/kg Zinc

TABLE 3
CUMULATIVE VAPOR ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Sample Date*	*Probe Depth Interval* *fbg*	*TPHg (by TO-3)*	*TPHg (by TO-15)*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes* [1]	*MTBE*	*Naphthalene*	*Iso-butane* [2] *ppbv*	*Oxygen*	*Nitrogen*	*Carbon Dioxide*	*Methane*	*Helium*
			Concentrations reported in micrograms per cubic meter (µg/m [3] *)*									% Volume				
ESL Table E-2	*Shallow Soil Gas (Residential)*		*10,000*	*10,000*	*84*	*63,000*	*980*	*21,000*	*9,400*	*72*	--	--	--	--	--	--
VP-1	11/6/2007	5.0-5.5	1,400	--	<3.8	16	<5.2	<5.2	<17	<25	6.6	10	--	<0.024	<0.00024	--
VP-1	LAB DUPLICATE		--	--	<3.8	14	<5.2	<5.2	<17	<25	6.5	--	--	--	--	--
VP-1	10/3/2008	5.0-5.5	--	<97	<3.8	<4.5	<5.2	<5.2	<4.3	<25	--	14	--	0.027	0.00027	<0.12
VP-1	5/10/2011	5.0-5.5	--	57,000,000	9,200	<3,200	<3,700	<3,700	<3,100	<18,000	--	8.7	88	1.6	0.0059	<0.12
VP-1	8/23/2011	5.0-5.5	--	2,500,000	<400	<470	<550	<550	<450	<2,600	--	9.4	89	1.5	0.0024	<0.13
VP-1	**11/2/2011**	5.0-5.5	--	**5,700**	**2.9**	**<3.0**	**<3.5**	**<3.5**	**<2.9**	**<17**	**--**	**8.6**	**91**	**0.52**	**0.00054**	**--**
VP-2	11/6/2007	5.0-5.5	<250	--	<3.9	<4.6	<5.2	<5.2	<17	<25	ND	10	--	0.88	<0.00024	--
VP-2	LAB DUPLICATE		<250	--	--	--	--	--	--	--	--	10	--	0.88	<0.00024	--
VP-2	10/3/2008 [3]	5.0-5.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-2	5/10/2011	5.0-5.5	--	6,500	<4.1	5.1	<5.6	<5.6	<4.7	<27	--	15	84	1.4	0.00039	<0.13
VP-2 DUP	5/10/2011	5.0-5.5	--	13,000	<4.1	7.5	<5.6	<5.6	<4.7	<27	--	15	84	1.4	0.00037	<0.13
VP-2	8/23/2011	5.0-5.5	--	<260	<4.0	<4.7	<5.5	<5.5	<4.5	<26	--	14	84	2.1	<0.00025	<0.13
VP-2	**11/2/2011**	5.0-5.5	--	**<160**	**<2.6**	**<3.0**	**<3.5**	**<3.5**	**<2.9**	**<17**	**--**	**12**	**86**	**1.9**	**--**	**--**
VP-3	11/6/2007	5.0-5.5	<240	--	<3.7	<4.4	<5.0	<5.0	<17	<24	ND	16	--	2.0	<0.00023	--
VP-3	10/3/2008	5.0-5.5	--	<92	<3.6	<4.2	<4.9	<4.9	<4.0	<23	--	16	--	2.4	<0.00022	<0.11
VP-3	LAB DUPLICATE		--	--	--	--	--	--	--	--	--	16	--	2.4	<0.00022	<0.11
VP-3	5/10/2011	5.0-5.5	--	22,000,000	10,000	21,000	4,200	60,000	<1600	<9000	--	14	82	3.8	0.0054	<0.13
VP-3	8/23/2011	5.0-5.5	--	300	<3.9	4.8	<5.2	15	<4.4	<25	--	16	80	3.6	<0.00024	<0.12
VP-3 DUP	8/23/2011	5.0-5.5	--	<250	<3.9	<4.6	<5.2	15	<4.4	<25	--	16	80	3.5	<0.00024	<0.12
VP-3	**11/2/2011**	5.0-5.5	--	**860**	**<2.6**	4.8	**<3.5**	**30**	**<2.9**	**<17**	**--**	**17**	**79**	**3.6**	**--**	**--**

TABLE 3
CUMULATIVE VAPOR ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Sample Date*	*Probe Depth Interval* *fbg*	*TPHg (by TO-3)*	*TPHg (by TO-15)*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes* [1]	*MTBE*	*Naphthalene*	*Iso-butane* [2]	*Oxygen*	*Nitrogen*	*Carbon Dioxide*	*Methane*	*Helium*
			Concentrations reported in micrograms per cubic meter (µg/m [3] *)*								*ppbv*	% Volume				
ESL Table E-2	*Shallow Soil Gas (Residential)*		*10,000*	*10,000*	*84*	*63,000*	*980*	*21,000*	*9,400*	*72*	--	--	--	--	--	--
VP-4	11/6/2007	5.0-5.5	280	--	<3.9	<4.6	<5.2	<5.2	<17	<25	ND	9.7	--	4.0	<0.00024	--
VP-4	10/3/2008	5.0-5.5	--	390	<4.1	<4.9	<5.6	<5.6	<4.6	<27	--	11	--	4.8	0.00028	<0.13
VP-4 DUPLICATE	10/3/2008	5.0-5.5	--	240	<4.2	<5.0	<5.7	<5.7	<4.8	<28	--	11	--	5.0	0.00028	<0.13
VP-4	5/10/2011	5.0-5.5	--	12,000,000	2,600	3,400	160	13,000	<36	<210	--	6.5	86	6.8	0.0034	<0.12
VP-4	8/23/2011	5.0-5.5	--	3,300	14	160	<5.2	89	<4.4	<25	--	14	81	5.2	0.00031	<0.12
VP-4	**11/2/2011**	5.0-5.5	--	**650**	**<2.5**	**23**	**<3.4**	**16**	**<2.8**	**<16**	**--**	**13**	**82**	**4.4**	**0.0002**	**0.09**
VP-4 DUP	**11/2/2011**	5.0-5.5	--	**780**	**2.7**	**27**	**<3.4**	**20**	**<2.8**	**<16**	**--**	**13**	**82**	**4.5**	**0.0002**	**--**
VP-5	11/6/2007	5.0-5.5	120,000 *	2,100,000	<760	<900	<1,000	<1,000	<3,400	<5,000	13,000	16	--	4.4	<0.00024	--
VP-5	10/3/2008	5.0-5.5	--	57,000	<86	<100	<120	<120	<97	<560	--	17	--	4.1	<0.00024	<0.12
VP-5	LAB DUPLICATE		--	65,000	<15	<18	<21	<21	<17	<100	--	--	--	--	--	--
VP-5	5/10/2011 [3]	5.0-5.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-5	8/23/2011	5.0-5.5	--	150,000	110	870	9.1	86	4.4	<25	--	19	78	2.5	<0.00024	<0.12
VP-5	**11/2/2011**	5.0-5.5	--	**1,500**	**<2.6**	**23**	**<3.6**	**8.9**	**<3.0**	**<17**	**--**	**19**	**78**	**2.6**	**--**	**--**
VP-6	11/6/2007	5.0-5.5	<260	--	<4.0	<4.8	<5.5	<5.5	<18	<26	ND	20	--	1.0	<0.00025	--
VP-6 DUPLICATE	11/6/2007	5.0-5.5	<250	--	<3.9	<4.6	<5.4	<5.4	<18	<26	ND	20	--	1.0	<0.00025	--
VP-6	10/3/2008	5.0-5.5	--	<97	<3.8	<4.5	<5.2	<5.2	<4.3	<25	--	20	--	0.98	<0.00024	<0.12
VP-6	5/10/2011	5.0-5.5	--	2,200,000	<190	<230	<260	380	<220	<1,200	--	19	79	1.8	<0.00024	<0.12
VP-6	8/23/2011	5.0-5.5	--	980	<4.0	<4.7	<5.5	<5.5	<4.5	<26	--	19	79	2.2	<0.00025	<0.13
VP-6	**11/2/2011**	**5.0-5.5**	**--**	**450**	**<2.6**	**<3.1**	**<3.6**	**<3.6**	**<3.0**	**<17**	**--**	**20**	**78**	**1.9**	**--**	**--**

TABLE 3
CUMULATIVE VAPOR ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION
(CHEVRON STATION #20-6145)
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Sample Date*	*Probe Depth Interval* *fbg*	*TPHg (by TO-3)*	*TPHg (by TO-15)*	*Benzene*	*Toluene*	*Ethylbenzene*	*Xylenes* [1]	*MTBE*	*Naphthalene*	*Iso-butane* [2]	*Oxygen*	*Nitrogen*	*Carbon Dioxide*	*Methane*	*Helium*
		Concentrations reported in micrograms per cubic meter (µg/m [3] *)*									*ppbv*	% Volume				
ESL Table E-2	*Shallow Soil Gas (Residential)*		*10,000*	*10,000*	*84*	*63,000*	*980*	*21,000*	*9,400*	*72*	--	--	--	--	--	--

Notes/Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method TO-3 for samples collected 11/06/07

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method TO-15 for samples collected 10/03/08

Benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tertiary butyl ether (MTBE), napthalene by EPA method TO-15

Oxygen, nitrogen, carbon dioxide, methane and helium by ASTM D-1946

fbg = feet below grade

ppbv = parts per billion volume

<x.xxx = Below laboratory method detection limits

ND = Not detected above laboratory method detection limits, detection limit not reported by laboratory

-- = Not analyzed

ESL - Environmental Screening Levela from Table E-2 of *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final* November 2007 (Updated May 2008) prepared by the San Francisco Regional Water Quality Control Board.

1 = Values for highest value of xylenes detected

2 = Constituent used as leak detector for samples collected 11/06/07determined as a Tentatively Identified Compound (TICs) by Modified EPA Method TO-15. Match quality was below 50%.

3 = Water in probe tubing: sample couldn't be collected

* = TPHg samples collected on 10/03/08 from VP-5 were analyzed by EPA Method TO-15 and EPA Method TO-3 for comparison purposes. Results were within laboratory limits.

APPENDIX A

REGULATORY LETTER

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director

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

August 17, 2011

Mr. Ian Robb
6001 Bollinger Canyon Road
PO Box 6012
San Ramon, CA 94583-2324
(sent via electronic mail to:
irobb@chevron.com)

Mr. Rene Boisvert
Boulevard Equity Group
484 Lake Park Ave #246
Oakland, CA 94610-2730
(sent via electronic mail to:
rene@boulevardequity.com)

Terrilla Sadler
618 Brooklyn Avenue
Oakland, CA 94606-1004

Subject: Approval of Low Flow Air Sparge Recommendations and Request for Revised Draft CAP – Fuel Leak Case No. RO0000454 (Global ID # T0600102230), Chevron #20-6145/Signal SS, 800 Center Street, Oakland CA 94607

Dear Mr. Robb, Mr. Boisvert, and Ms. Sadler:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *First Semi-Annual 2011 Groundwater Monitoring and Sampling Report,* dated April 14, 2011 and the *Low Flow Air Sparge Pilot Test,* dated July 6, 2011; both reports were submitted on your behalf by both prepared by Conestoga-Rovers & Associates (CRA). Thank you for submitting the reports.

The *Low Flow Air Sparge Pilot Test* documents the results of a three month pilot test of the referenced system. In general dissolved hydrocarbon concentrations in more downgradient wells MW-3 and MW-4 noticeably decreased, while concentrations in wells MW-1A and MW-2 noticeably increased within one month after termination of the pilot test. In addition vapor concentrations in all sampled wells (VP-5 could not be sampled due to the presence of water in the probe) substantially increased multiple orders of magnitude. The report found that LFAS was successful in reducing dissolved hydrocarbons in groundwater and recommended continuation of air sparging, combined with vapor extraction to manage the generation of hydrocarbon vapors in the vadose zone. The report recommended that a Remedial Action Plan be generated.

ACEH is in general agreement with the recommendations contained in the *Low Flow Air Sparge Pilot Test* provided the following technical comments are incorporated into a revised draft Corrective Action Plan (CAP). Consequently, we request that you address the following technical comments and send us the documents requested below.

TECHNICAL COMMENTS

1. **Revised Draft CAP Generation –** In addition to addressing contaminants referenced above, please also incorporate mitigative measures in the revised draft CAP to address the results of the *Surficial Soil Lead Results,* (dated February 15, 2010 and prepared by CRA). This report documented lead concentrations up to 5,760 mg/kg in shallow soils at the site, as well as organochlorine pesticide concentrations above RWQCB ESLs for residential direct exposure. Please submit the revised draft CAP by the date identified below.

2. **List of Interested Parties –** In preparation for the public comment period to follow generation and acceptance of the draft CAP, ACEH requests the generation of a List of Interested Parties that the *Public Participation Notification* will be issued to. This should include known interested parties as well as vicinity residents and owners. Please submit the List by the date identified below.

3. **Preferential Pathway, Utility Survey –** During the recent review ACEH did not find a preferential pathway survey for vicinity utilities. If this is an oversight, please inform ACEH as to the location of the survey; however, presuming this was not an oversight, please conduct a utility survey. This appears to be appropriate due to the depth to groundwater, typical utility installation depths, and an apparently short downgradient extent of the dissolved hydrocarbon plume. Specifically, ACEH requests an evaluation of all utility lines, utility laterals, and trenches (including sewers, storm drains, pipelines, trench backfill, etc.) within and near the site and plume area(s). Please assimilate, reduce, and synthesize available information and maps, and generate appropriate (vicinity and / or site specific) maps and cross-sections illustrating the location and depth of all utility lines and trenches within and near the site and plume areas(s) as part of your study. Please use this information to inform corrective actions addressed in the draft CAP. Please submit a utility preferential pathway survey by the date identified below.

TECHNICAL REPORT REQUEST

Please submit technical reports to ACEH, according to the following schedule:

- **October 28, 2011** – Utility Preferential Pathway Survey
- **November 18, 2011 –** Revised Draft CAP & List of Interested Parties

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

Should you have any questions, please contact me at (510) 567--6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,

Digitally signed by Mark E. Detterman
DN: cn=Mark E. Detterman, o, ou, email, c=US
Date: 2011.08.17 14:55:11 -07'00'

Mark E. Detterman, PG, CEG
Senior Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations
Electronic Report Upload (ftp) Instructions

cc: Kiersten Hoey, Conestoga-Rovers & Associates, 5900 Hollis Street, Suite A, Emeryville, CA 94608; (sent via electronic mail to khoey@craworld.com)

N. Scott MacLeod, Conestoga-Rovers & Associates, 5900 Hollis Street, Suite A, Emeryville, CA 94608; (sent via electronic mail to smacleod@craworld.com)

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

Donna Drogos, ACEH, (sent via electronic mail to donna.drogos@acgov.org)
Mark Detterman, ACEH, (sent via electronic mail to mark.detterman@acgov.org)
Geotracker, Electronic Case File

Attachment 1

Responsible Party(ies) Legal Requirements / Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**REVISION DATE:** July 20, 2010
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**.
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted**.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

1) Obtain User Name and Password
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to deh.loptoxic@acgov.org
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
   b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to deh.loptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

APPENDIX B

SUMMARY OF PREVIOUS ENVIRONMENTAL INVESTIGATIONS AND REMEDIATION

SUMMARY OF PREVIOUS ENVIRONMENTAL INVESTIGATION AND REMEDIATON

FORMER SIGNAL OIL SERVICE STATION (CHEVRON SITE NO. 206145)
800 CENTER STREET, OAKLAND, CALIFORNIA

August 1989 Subsurface Investigation

Subsurface Consultants Inc. (Subsurface) advanced soil borings B1 through B5 to depths ranging from 4.5 to 26 feet below grade (fbg) in the vicinity of the former underground storage tanks (USTs), dispenser island, and sumps along the eastern property boundary. Temporary wells were installed in borings B1 and B3. The highest hydrocarbon concentrations detected in soil were 14,000 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as diesel (TPHd), 31,000 mg/kg total petroleum hydrocarbons as gasoline (TPHg), and 500 mg/kg benzene. A soil sample collected from 3.5 fbg in boring B-5, near the former hydraulic hoist, contained 16,000 mg/kg oil and grease. No TPHd was detected in grab groundwater samples collected from borings B1 and B3. The groundwater sample from boring B3 contained 340 micrograms per liter (µg/L) benzene. Subsurface noted in their report that the former USTs had been removed in 1973 when the station closed based on a permit search at city of Oakland. Additional information is available in Subsurface's October 13, 1989 *Preliminary Hydrocarbon Contamination Assessment*.

October 1995 Subsurface Investigation

Groundwater Technology Inc. (GTI) advanced borings SB-1 through SB-3 and installed groundwater monitoring wells MW-1 through MW-4. The highest hydrocarbon concentrations detected in soil were 14,000 mg/kg TPHg and 120 mg/kg benzene. Additional information is available in GTI's November 14, 1995 *Additional Site Assessment Report*.

March 1996 Subsurface Investigation

Pacific Environmental Group (PEG) advanced soil borings P-1 through P-9. The highest hydrocarbon concentrations detected in soil were 5,400 mg/kg TPHg and 41 mg/kg benzene in boring P-3. The highest hydrocarbon concentrations detected in grab-groundwater samples were 800,000 µg/L TPHg and 13,000 µg/L benzene in boring P-2, located in Center Street. Additional information is available in PEG's April 18, 1996 *Soil and Groundwater Investigation*.

December 1996 Well Installation

PEG installed offsite wells MW-5 through MW-7 and drilled a boring for MW-8. Well MW-8 was not installed because no evidence of petroleum hydrocarbons was observed. No TPHg or benzene was detected in soil. Additional information is available in PEG's January 24, 1997 *Soil and Groundwater Investigation*.

1997 Soil Vapor Sampling

PEG advanced soil vapor points SV-1 through SV-5 to depths up to 12 fbg. The highest hydrocarbon concentrations detected in soil were 8,000 mg/kg TPHg and 52 mg/kg benzene. The highest hydrocarbon concentrations detected in soil vapor were 50,000 µg/L TPHg and 65 µg/L benzene. Hydrocarbon concentrations in soil vapor were highest between 6 and 10 fbg. Additional information is available in PEG's January 24, 1997 *Soil and Groundwater Investigation*.

1999/2001 Site Demolition

Gettler-Ryan, Inc. (G-R) removed the dispenser island, sumps, the hydraulic hoist, building foundations, garbage enclosure, yard lights and asphalt. An orphaned 1,000-gallon UST, an orphaned 550-gallon used-oil UST, and a buried 55-gallon drum (apparently a makeshift used oil UST) were encountered and removed. This work was initiated in September 1999 and postponed until April 2001, while Chevron and the property owner determined UST ownership. The highest hydrocarbon concentrations detected in soil were 630 mg/kg TPHg and 10 mg/kg benzene in the former gasoline UST cavity. Additional information is available in Delta Environmental Consultants, Inc. (Delta) May 21, 2001 *Compliance Soil Sampling During Removal of Underground Storage Tanks*.

2002 Monitoring Well Installation

G-R installed groundwater monitoring well MW-8 offsite. No TPHd, TPHg, benzene, or methyl tertiary butyl ether (MTBE) were detected in soil. Additional information is available in Delta's April 11, 2002 *Monitoring Well Installation Report*.

2002 Subsurface Investigation

G-R advanced soil borings GP-1 through GP-23 to approximately 12 fbg. Soil samples were collected at 5 and 10 fbg in each boring to profile soil for disposal for the planned remedial excavation. The highest hydrocarbon concentrations detected in soil were 19,000 mg/kg TPHg and 83 mg/kg benzene in boring GP-9 at 10 fbg. The highest MTBE concentration detected in soil was 170 mg/kg in boring GP-14 at 10 fbg. Additional information is available in G-R's July 31, 2002 *Soil Borings*.

November 2002 Remedial Excavation

G-R excavated hydrocarbon-bearing soil in the areas of the former USTs, dispenser island, hydraulic lift, and sumps to a total depth of approximately 12 fbg, with a maximum depth of 14 fbg in one location. Approximately 1,584 tons of hydrocarbon-bearing soil were removed and transported to Allied Waste Landfill in Manteca, California. Thirty-four confirmation soil samples were collected. Well MW-1 was destroyed by excavation during this event. Prior to backfilling, approximately 900 pounds of oxygen releasing compound was placed in the excavation bottoms, and Class II aggregate base was used for backfill. Additional information is available in Delta's January 23, 2003 *Well Destruction, Over-Excavation and Soil Sampling Report*.

2003 Soil Borings and Well installation

Delta advanced soil borings GP-24 through GP-30 to approximately 16 fbg. Monitoring well MW-1A was installed near former monitoring well MW-1. The highest hydrocarbon concentrations detected in soil were 1,600 mg/kg TPHd, 16,000 mg/kg TPHg, 92 mg/kg benzene, and 150 mg/kg MTBE in boring GP-30 at 10 fbg. A sample from 15 fbg in GP-27 also contained 1,600 mg/kg TPHd. Additional information is available in Delta's May 15, 2003 *Soil Boring and Well Installation Report*.

October and November 2004 Geoprobe and CPT Investigation

Cambria Environmental Technology advanced cone penetration test (CPT) borings CPT-1 through CPT-5 and direct push borings C-1 through C-9 to further define the lateral and vertical extents of hydrocarbons in soil. All borings were advanced onsite except CPT-5, which was located offsite in Center Street. Vertical delineation of hydrocarbons in soil was achieved between 15 and 20 fbg, except for concentrations just above TPHg detection limits between 25 and 50 fbg. Anomalous hydrocarbon grab-groundwater analytical results were detected in deeper groundwater samples. It was surmised that these detections may result from cross contamination during drilling. Additional information is in Cambria's January 14, 2005 *Subsurface Investigation Report*.

2007 Well Installation and Subsequent Sampling

Conestoga-Rovers & Associates, Inc. (CRA) installed clustered monitoring wells MW-9 through MW-17 to further define the vertical extent of hydrocarbons in groundwater. Wells MW-9 through MW-16 were screened from 35 to 40 fbg or from 55 to 60 fbg to collect depth-discrete groundwater samples. Well MW-17 was screened from 70 to 75 fbg to vertically delineate dissolved-phase hydrocarbons. Dissolved-phase hydrocarbons were detected in all wells and were highest in well MW-14 screened from 55-60 fbg. Subsequent groundwater monitoring and sampling events indicated that hydrocarbon concentrations were decreasing in these wells. Additional information is available in CRA's May 14, 2007 *Well Installation Report* and October 1, 2007 *Third Multi-Level Groundwater Monitoring Report*.

October 2007 Soil Vapor Probe Installation

CRA installed soil vapor probes VP-1 through VP-6 and on November 6, 2007 collected soil vapor samples to evaluate the potential for vapor intrusion to proposed residential housing units. TPHg was detected in vapor probes VP-1, VP-4 and VP-5. The highest TPHg concentration was detected in vapor probe VP-5 at 2,100,000 micrograms per cubic meter ($\mu g/m^3$). No benzene was detected in soil vapor. Additional information is available in CRA's January 23, 2008 *Feasibility Study/Corrective Action Plan Addendum*.

October 2008 Soil Vapor Investigation

CRA re-sampled vapor probes VP-1 and VP-3 through VP-6 to confirm initial results. VP-2 could not be sampled due to water in the tubing. TPHg was detected in vapor probes VP-4 and VP-5 and was highest in VP-5 at 120,000 µg/m^3. No benzene was detected. Additional information is available in CRA's November 18, 2008 *Soil Vapor Investigation Results*.

January 2010 Surficial Sampling

CRA collected surficial soil samples at the surface and at depths of 0.5 and 2.5 fbg from 12 locations, the majority of which are designated as future landscaping areas where potential direct human contact may occur. The locations were designated SS-1 through SS-12. The scope of work was based on California's Department of Toxic Substances Control (DTSC) 2006 *Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers*. The highest lead concentrations of up to 5760 mg/kg were detected at SS-1, SS-2, SS-3, and SS-6, located in the northern portion of the site. This data will be incorporated into the future "Revised Human Health Risk Assessment." In December 2009, CRA conducted a Department of Water Resources (DWR) file review and identified one irrigation well within 1/2-mile radius of the site, located approximately 2,100 feet upgradient of the site. The well was installed in 1915 and has a total depth of 55 fbg. Additional details are available in CRA's February 15, 2010 *Surficial Soil Lead Results.*

APPENDIX C

CUMULATIVE GROUNDWATER ANALYTICAL DATA

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER SIGNAL OIL SERVICE 20-6145
800 CENTER STREET
OAKLAND, CALIFORNIA

					HYDROCARBONS		*PRIMARY VOCS*					*GENERAL CHEMISTRY*					
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO w/ Si Gel*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE by SW8021*	*Carbon dioxide*	*Nitrate Nitrogen*	*Sulfate*	*Alkalinity to pH 4.5*	*Alkalinity to pH 8.3*	*Ferrous Iron*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-1A	09/03/2010[1]	18.11	9.54	8.57	590	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-
MW-1A	02/03/2011[1]	18.11	8.05	10.06	840	100	2.5	0.6	6.7	2.0	<2.5	-	-	-	-	-	-
MW-1A	05/04/2011[1,7]	18.11	7.16	10.95	1,500	<50	6.7	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-
MW-1A	**08/04/2011[1]**	**18.11**	**8.80**	**9.31**	**750**	**<50**	**0.9**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	**-**	**-**	**-**	**-**	**-**	**-**
MW-2	09/03/2010[1]	18.40	9.98	8.42	130	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-
MW-2	02/03/2011[1]	18.40	8.61	9.79	430	75	<0.5	<0.5	<0.5	<1.5	8.9	-	-	-	-	-	-
MW-2	05/04/2011[1,7]	18.40	4.55	13.85	160	1,300	12	48	0.7	47	<100	-	-	-	-	-	-
MW-2	**08/04/2011[1]**	**18.40**	**9.17**	**9.23**	**99**	**1,500**	**43**	**100**	**1.4**	**47**	**34**	**-**	**-**	**-**	**-**	**-**	**-**
MW-3	09/03/2010	-	-	-	-	-	-	-	-	-	-	160,000	390	45,900	531,000	<460	21,500
MW-3	09/03/2010[1]	18.07	9.70	8.37	4,000	32,000	65	690	3,100	4,900	380	-	-	-	-	-	-
MW-3	02/03/2011[1]	18.07	8.39	9.68	1,400	2,000	17	34	250	190	26	44,000	<250	180,000	385,000	<460	28,500
MW-3	05/04/2011[1,7]	18.07	7.30	10.77	340	57	<0.5	1.1	3.8	7.7	<2.5	20,000	<250	222,000	310,000	<460	10,500
MW-3	**08/04/2011[1]**	**18.07**	**8.83**	**9.24**	**2,100**	**1,200**	**6.5**	**4.6**	**110**	**8.9**	**16**	**68,000**	**350**	**275,000**	**362,000**	**<460**	**32,500**
MW-4	09/03/2010	-	-	-	-	-	-	-	-	-	-	210,000	<250	2,000	400,000	<460	7,500
MW-4	09/03/2010[1]	16.98	8.63	8.35	400	310	<5.0	<0.5	1.2	<1.5	<2.5	-	-	-	-	-	-
MW-4	02/03/2011[1]	16.98	7.43	9.55	160	55	1.6	<0.5	<0.5	<1.5	<2.5	75,000	<250	52,600	309,000	<460	4,100
MW-4	05/04/2011[1,7]	16.98	6.32	10.66	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5	76,000	<250	16,700	183,000	<460	2,600
MW-4	**08/04/2011[1]**	**16.98**	**7.90**	**9.08**	**940**	**590**	**110**	**9.0**	**10**	**4.6**	**4.4**	**130,000**	**<250**	**68,900**	**361,000**	**<460**	**4,200**

TABLE 1

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FORMER SIGNAL OIL SERVICE 20-6145
800 CENTER STREET
OAKLAND, CALIFORNIA

					HYDROCARBONS		*PRIMARY VOCS*					*GENERAL CHEMISTRY*					
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO w/ Si Gel*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE by SW8021*	*Carbon dioxide*	*Nitrate Nitrogen*	*Sulfate*	*Alkalinity to pH 4.5*	*Alkalinity to pH 8.3*	*Ferrous Iron*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-5	09/03/2010[1]	17.68	9.28	8.40	62	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-
MW-5	02/03/2011[1]	17.68	7.83	9.85	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-
MW-5	05/04/2011[1,7]	17.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	**08/04/2011**	**17.68**	**8.38**	**9.30**	**<50**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	**-**	**-**	**-**	**-**	**-**	**-**
MW-6	09/03/2010[1]	17.33	9.13	8.20	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-
MW-6	02/03/2011[1]	17.33	7.65	9.68	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-
MW-6	05/04/2011[1,7]	17.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	**08/04/2011**	**17.33**	**8.30**	**9.03**	**<50**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	**-**	**-**	**-**	**-**	**-**	**-**
MW-7	09/03/2010[1]	19.26	10.74	8.52	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-
MW-7	02/03/2011[1]	19.26	9.20	10.06	220	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-
MW-7	05/04/2011[1,7]	19.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-7	**08/04/2011**	**19.26**	**9.91**	**9.35**	**<50**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	**-**	**-**	**-**	**-**	**-**	**-**
MW-8	09/03/2010[1]	17.79	9.75	8.04	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-
MW-8	02/03/2011[1]	17.79	8.46	9.33	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-
MW-8	05/04/2011[1,7]	17.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-8	**08/04/2011**	**17.79**	**8.98**	**8.81**	**<50**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	**-**	**-**	**-**	**-**	**-**	**-**
MW-9	09/03/2010[2]	18.42	10.01	8.41	95	<50	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-
MW-9	02/03/2011[2,4,5]	18.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-9	05/04/2011[2,4,5,7]	18.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-9	**08/04/2011[2,4,5]**	**18.42**	**9.13**	**9.29**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-10	09/03/2010[3]	17.99	10.35	7.64	<50	<50	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-
MW-10	02/03/2011[3,4,5]	17.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	05/04/2011[3,4,5,7]	17.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-10	**08/04/2011[3,4,5]**	**17.99**	**10.60**	**7.39**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-11	09/03/2010[2]	18.68	10.21	8.47	<50	<50	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-
MW-11	02/03/2011[2,4,5]	18.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	05/04/2011[2,4,5,7]	18.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-11	**08/04/2011[2,4,5]**	**18.68**	**9.35**	**9.33**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-12	09/03/2010[3]	18.46	11.05	7.41	65	<50	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-
MW-12	02/03/2011[3,4,5]	18.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	05/04/2011[3,4,5,7]	18.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-12	**08/04/2011[3,4,5]**	**18.46**	**9.63**	**8.83**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-13	09/03/2010[2]	18.43	10.09	8.34	58	<50	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-
MW-13	02/03/2011[2,4,5]	18.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-13	05/04/2011[2,4,5,7]	18.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-13	**08/04/2011[2,4,5]**	**18.43**	**9.27**	**9.16**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

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					HYDROCARBONS		*PRIMARY VOCS*					*GENERAL CHEMISTRY*					
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO w/ Si Gel*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE by SW8021*	*Carbon dioxide*	*Nitrate Nitrogen*	*Sulfate*	*Alkalinity to pH 4.5*	*Alkalinity to pH 8.3*	*Ferrous Iron*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
MW-14	09/03/2010[3]	18.59	11.52	7.07	<50	<50	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-
MW-14	02/03/2011[3,4,5]	18.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-14	05/04/2011[3,4,5,7]	18.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-14	**08/04/2011[3,4,5]**	**18.59**	**9.99**	**8.60**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-15	09/03/2010[2]	18.38	9.95	8.43	<50	<50	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-
MW-15	02/03/2011[2,4,5]	18.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-15	05/04/2011[2,4,5,7]	18.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-15	**08/04/2011[2,4,5]**	**18.38**	**9.13**	**9.25**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-16	09/03/2010[3]	18.57	10.95	7.62	<50	<50	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-
MW-16	02/03/2011[3,4,5]	18.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-16	05/04/2011[3,4,5,7]	18.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-16	**08/04/2011[3,4,5]**	**18.57**	**10.13**	**8.44**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
MW-17	09/03/2010[3]	18.55	10.81	7.74	67	<50	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-
MW-17	02/03/2011[3,4,5]	18.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-17	05/04/2011[3,4,5,7]	18.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-17	**08/04/2011[3,4,5]**	**18.55**	**10.00**	**8.55**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
AS-1	02/03/2011[6]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER SIGNAL OIL SERVICE 20-6145
800 CENTER STREET
OAKLAND, CALIFORNIA

					HYDROCARBONS		*PRIMARY VOCS*					*GENERAL CHEMISTRY*					
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO w/ Si Gel*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE by SW8021*	*Carbon dioxide*	*Nitrate Nitrogen*	*Sulfate*	*Alkalinity to pH 4.5*	*Alkalinity to pH 8.3*	*Ferrous Iron*
	Units	*ft*	*ft*	*ft-amsl*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*	*µg/L*
AS-1	05/04/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS-1	**08/04/2011**[8]	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
AS-2	02/03/2011[6]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS-2	05/04/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS-2	**08/04/2011**[8]	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
AS-3	02/03/2011[6]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS-3	05/04/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS-3	**08/04/2011**[8]	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
AS-4	02/03/2011[6]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS-4	05/04/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS-4	**08/04/2011**[8]	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
AS-5	02/03/2011[6]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS-5	05/04/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS-5	**08/04/2011**[8]	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
AS-6	02/03/2011[6]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS-6	05/04/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS-6	**08/04/2011**[8]	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER SIGNAL OIL SERVICE 20-6145
800 CENTER STREET
OAKLAND, CALIFORNIA

					HYDROCARBONS		PRIMARY VOCS					GENERAL CHEMISTRY					
Location	Date	TOC	DTW	GWE	TPH-DRO w/ Si Gel	TPH-GRO	B	T	E	X	MTBE by SW8021	Carbon dioxide	Nitrate Nitrogen	Sulfate	Alkalinity to pH 4.5	Alkalinity to pH 8.3	Ferrous Iron
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
AS-7	02/03/2011[6]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS-7	05/04/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS-7	**08/04/2011[8]**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
AS-8	02/03/2011[6]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS-8	05/04/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AS-8	**08/04/2011[8]**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
QA	09/03/2010	-	-	-	-	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-
QA	02/03/2011	-	-	-	-	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-
QA	05/04/2011	-	-	-	-	<50	<0.5	<0.5	<0.5	<1.5	<2.5	-	-	-	-	-	-
QA	**08/04/2011**	**-**	**-**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	**-**	**-**	**-**	**-**	**-**	**-**

Abbreviations and Notes:

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater elevation

(ft-amsl) = Feet Above Mean sea level

ft = Feet

µg/L = Micrograms per Liter

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER SIGNAL OIL SERVICE 20-6145
800 CENTER STREET
OAKLAND, CALIFORNIA

					HYDROCARBONS		*PRIMARY VOCS*					*GENERAL CHEMISTRY*					
Location	Date	***TOC***	***DTW***	***GWE***	***TPH-DRO w/ Si Gel***	***TPH-GRO***	***B***	***T***	***E***	***X***	***MTBE by SW8021***	***Carbon dioxide***	***Nitrate Nitrogen***	***Sulfate***	***Alkalinity to pH 4.5***	***Alkalinity to pH 8.3***	***Ferrous Iron***
	Units	***ft***	***ft***	***ft-amsl***	***µg/L***	***µg/L***	***µg/L***	***µg/L***	***µg/L***	***µg/L***	***µg/L***	***µg/L***	***µg/L***	***µg/L***	***µg/L***	***µg/L***	***µg/L***

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

VOCS = Volatile Organic Compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene

MTBE = Methyl tert butyl ether

-- = Not available / not applicable

<x = Not detected above laboratory method detection limit

1 Shallow Well

2 Intermediate Well

3 Deep Well

4 Monitored annually during the third quarter

5 Sampled bi-annually during the third quarter

6 Not able to access well. Well connected to Air Sparge System

7 Special Sampling Event

8 Not monitored or sampled.

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-1A											
02/24-25/03[l]	15.49	8.17	7.32	4,600	5,100	92	340	66	480	<10	--
06/02/03	15.49	7.15	8.34	5,500	3,800	150	490	72	450	<13	--
09/02/03	15.49	6.10	9.39	10,000	6,200	100	580	110	760	47	--
11/21/03	15.49	5.29	10.20	3,800	3,200	29	150	49	240	<10	--
02/27/04	15.49	9.87	5.62	2,800	280	9.7	19	3.0	30	<2.5	--
05/28/04	15.49	6.88	8.61	5,500	1,100	35	81	27	140	17	--
08/31/04	15.49	5.58	9.91	4,500	1,100	13	68	27	110	<2.5	--
12/17/04	15.49	7.09	8.40	2,300[o]	560	8.0	17	9.6	36	<2.5	--
03/28/05	15.49	10.36	5.13	340[o]	87	16	4.2	3.3	11	<2.5	--
06/09/05	15.49	9.69	5.80	6,400[o]	260	26	3.7	7.7	13	5.3	--
08/19/05	15.49	6.70	8.79	1,100[o,p,q]	440	38	7.8	9.4	17	<2.5	--
11/18/05	15.49	6.25	9.24	1,300[o,q]	450	11	12	17	22	<2.5	--
03/07/06	15.49	10.51	4.98	2,300[o]	150	33	1.6	3.4	2.7	<2.5	--
05/17/06	15.49	9.02	6.47	2,600[o]	110	18	<0.5	0.7	<1.5	<2.5	--
08/30/06	15.49	5.68	9.81	3,600[o]	420	24	0.7	8.1	9.2	<10	--
11/28/06	15.49	5.79	9.70	2,900[o]	220	8.6	2.7	6.1	9.3	<2.5	--
02/06/07	18.11	8.83	9.28	1,500[o]	230	19	<0.5	1.8	2.7	<2.5	--
05/02/07	18.11	9.83	8.28	1,300[o]	190	16	<0.5	1	1.8	<2.5	--
08/17/07	18.11	8.61	9.50	1,100[o]	160	2.5	0.8	2.0	2.7	<2.5	--
11/16/07[v]	18.11	8.27	9.84	3,600[o]	30,000	610	1,100	4,100	2,800	310	--
02/05/08	18.11	11.63	6.48	2,100[o]	63	4.8	<0.5	<0.5	<1.5	<2.5	--
05/20/08	18.11	9.18	8.93	940[o]	50	1.5	<0.5	<0.5	<1.5	<2.5	--
08/06/08	18.11	8.25	9.86	1,900[o]	98	0.7	<0.5	<0.5	<1.5	<2.5	--
12/05/08	18.11	7.68	10.43	940[o]	96	0.6	<0.5	0.5	<1.5	<2.5	--
02/09/09	18.11	8.10	10.01	630[o]	130	2.7	<0.5	2.1	<1.5	<2.5	--
05/08/09	18.11	9.91	8.20	1,300[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/07/09	18.11	8.35	9.76	1,300[o]	97	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/25/10	**18.11**	**11.03**	**7.08**	**500[o,z]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	**--**
MW-2											
10/27/95	15.77	10.60	5.17	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	15.72	8.51	7.21	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	15.72	7.82	7.90	--	83[d]	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	15.72	5.92	9.80	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	15.72	5.13	10.59	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	15.72	9.21	6.51	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-2 (cont)											
05/11/98	15.72	8.82	6.90	SAMPLED ANNUALLY		--	--	--	--	--	--
07/16/98	15.72	7.37	8.35	--	--	--	--	--	--	--	--
08/04/98[a]	15.72	7.03	8.69	--	--	--	--	--	--	--	1.9 x 1
09/03/98[a]	15.72	6.44	9.28	--	--	--	--	--	--	--	3.0 x 1
10/21/98[b]	15.72	5.51	10.21	--	--	--	--	--	--	--	8.8 x 1
11/04/98	15.72	5.60	10.12	--	--	--	--	--	--	--	--
01/26/99	15.72	6.87	8.85	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	15.72	8.20	7.52	--	--	--	--	--	--	--	--
08/21/99	15.72	13.21	2.51	--	--	--	--	--	--	--	--
10/28/99	15.72	6.35	9.37	--	--	--	--	--	--	--	--
01/31/00	15.72	7.25	8.47	--	<50	<0.5	0.541	<0.5	<0.5	<2.5	--
05/19/00	15.72	7.65	8.07	--	--	--	--	--	--	--	--
08/07/00	15.72	6.35	9.37	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[f]	--
12/01/00	15.72	5.60	10.12	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
02/09/01	15.72	6.05	9.67	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
05/29/01	15.72	6.73	8.99	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/27/01[h]	15.72	5.68	10.04	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0[f]	--
11/28/01	15.72	5.86	9.86	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--
02/14/02	15.69	7.86	7.83	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/15/02	15.69	7.09	8.60	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/05/02	15.69	6.02	9.67	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/30/02	15.69	DRY	--	--	--	--	--	--	--	--	--
02/24-25/03[l]	15.69	8.04	7.65	140	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
06/02/03	15.69	7.33	8.36	150[m]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
09/02/03	15.69	5.97	9.72	150[m]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/21/03	--[n]	--[n]	10.39	180	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/27/04	--[n]	--[n]	6.90	310	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/28/04	--[n]	--[n]	9.13	160	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/31/04	--[n]	--[n]	10.30	180[m]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
12/17/04	--[n]	--[n]	8.91	77[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
03/28/05	--[n]	--[n]	6.51	<50[o]	<50	<0.5	0.5	<0.5	<1.5	<2.5	--
06/09/05	--[n]	--[n]	7.09	53[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/19/05	--[n]	--[n]	9.27	<50[o,p]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/18/05	--[n]	--[n]	9.66	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
03/07/06	--[n]	--[n]	6.75	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/17/06	--[n]	--[n]	7.09	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/30/06	--[n]	--[n]	9.03	640[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-2 (cont)											
11/28/06	--[n]	--[n]	10.02	560[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/06/07	18.40	8.72	9.68	200[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/02/07	18.40	9.71	8.69	480[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/17/07	18.40	8.52	9.88	1,000[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/16/07	18.40	8.30	10.10	1,900[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/05/08	18.40	10.97	7.43	1,100[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/20/08	18.40	9.09	9.31	650[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/06/08	18.40	8.25	10.15	200[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
12/05/08	18.40	7.12	11.28	680[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/09/09	18.40	8.08	10.32	420[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/08/09	18.40	9.98	8.42	75[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/07/09	18.40	8.23	10.17	610[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/25/10	**18.40**	**10.54**	**7.86**	**120[o,z]**	**<50[aa]**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	**--**
MW-3											
10/27/95	15.46	10.37	5.09	--	33,000	11,000	1,700	2,300	4,200	--	--
02/20/97	15.42	8.37	7.05	--	260	56	<1.0	7.6	5.9	<5.0	--
04/24/97	15.42	7.29	8.13	--	1,400	310	28	76	75	74	--
07/23/97	15.42	5.84	9.58	--	37,000	10,000	1,500	2,700	4,200	2,500	--
10/29/97	15.42	5.09	10.33	--	53,000	12,000	1,200	3,000	3,100	2,500	--
01/28/98	15.42	8.94	6.48	--	210	43	1.5	1.7	3.9	10	--
05/11/98	15.42	8.49	6.93	--	59	11	<0.5	2.1	<0.5	<2.5	--
07/16/98	15.42	7.14	8.28	--	260	90	4.8	18	5.7	<10	--
08/04/98[a]	15.42	6.88	8.54	--	--	--	--	--	--	--	8.5 x 1
09/03/98[a]	15.42	6.34	9.08	--	--	--	--	--	--	--	2.4 x 1
10/21/98[b]	15.42	5.62	9.80	--	--	--	--	--	--	--	6.0 x 1
11/04/98	15.42	5.60	9.82	--	73,000	17,000	3,800	4,900	8,100	<250	--
01/26/99	15.42	6.70	8.72	--	32,400	10,200	1,850	2,650	3,140	715/<500[c]	--
05/06/99	15.42	7.97	7.45	--	3,160	668	89.6	180	123	<200/<10[c]	--
08/21/99	15.42	7.95	7.47	--	53,800	9,700	2,040	2,880	5,000	<1,250/<40[c]	--
10/28/99	15.42	5.37	10.05	--	71,300	14,000	3,420	4,320	8,360	<1,000	--
01/31/00	15.42	7.16	8.26	--	1,650	496	49.1	134	82.6	<12.5	--
05/19/00	15.42	7.60	7.82	--	110[e]	36	2.5	9.1	4.0	6.3	--
08/07/00	15.42	6.29	9.13	--	36,000[e]	9,000	3,000	2,700	2,800	2,500/<10[f]	--
12/01/00	15.42	2.45	12.97	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--
02/09/01	15.42	5.98	9.44	--	32,000[e]	11,000	3,900	3,200	4,800	3,200/<2.0[f]	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-3 (cont)											
05/29/01	15.42	6.65	8.77	--	13,000	4,200	2,000	1,800	1,500	74/<2.0[f]	--
08/27/01[h]	15.42	5.70	9.72	--	40,000	7,600	2,800	2,500	2,700	<25[f]	--
11/28/01	15.42	5.77	9.65	--	57,000	10,000	2,900	2,900	2,800	<250/<5.0[f]	--
02/14/02	15.40	7.73	7.67	--	51	2.9	<0.50	1.9	1.8	<2.5/<2[f]	--
05/15/02	15.40	7.05	8.35	--	4,100	910	250	210	240	<20/<2[f]	--
08/05/02	15.40	5.96	9.44	--	58,000	11,000	4,300	3,400	4,000	<250/<10[f]	--
11/30/02	15.40	5.14	10.26	--	46,000	13,000	2,900	3,700	2,600	<100/<10[f]	--
02/24-25/03[l]	15.40	7.89	7.51	4,500	52,000	9,600	4,800	2,900	4,100	<130	--
06/02/03	15.40	7.24	8.16	6,500	67,000	11,000	9,600	3,400	5,700	<250	--
09/02/03	15.40	5.89	9.51	10,000	73,000	8,900	10,000	3,600	7,000	300	--
11/21/03	15.40	5.17	10.23	8,000	29,000	3,300	3,200	1,200	1,500	<200	--
02/27/04	15.40	8.84	6.56	200	59	8.2	6.3	1.7	6.8	<2.5	--
05/28/04	15.40	6.57	8.83	5,400	18,000	2,600	970	1,600	950	<100	--
08/31/04	15.40	5.41	9.99	9,100	58,000	3,200	9,600	2,800	7,500	<50	--
12/17/04	15.40	6.81	8.59	2,200[o]	23,000	1,100	2,100	1,200	2,600	<25	--
03/28/05	15.40	9.29	6.11	3,200[o]	43,000	1,500	10,000	2,600	7,300	<130	--
06/09/05	15.40	8.65	6.75	7,800[o]	38,000	980	7,000	2,100	4,800	190	--
08/19/05	15.40	6.43	8.97	5,000[o,p,r]	75,000	1,500	14,000	3,400	9,600	<130	--
11/18/05	15.40	5.95	9.45	3,900[o,r]	72,000	1,400	14,000	3,600	9,700	380	--
03/07/06	15.40	9.05	6.35	1,100[o]	15,000	280	2,300	820	2,000	<100	--
05/17/06	15.40	8.57	6.83	4,400[o]	57,000	650	8,100	2,900	8,100	410	--
08/30/06	15.40	5.44	9.96	4,300[o]	54,000	540	7,600	4,100	10,000	550	--
11/28/06	15.40	5.62	9.78	4,400[o]	43,000	260	3,400	3,800	5,800	<1,000	--
02/06/07	18.07	8.70	9.37	5,000[o]	43,000	290	6,200	3,400	6,400	<500	--
05/02/07	18.07	9.67	8.40	4,500[o]	43,000	290	4,100	3,800	6,500	<500	--
08/17/07	18.07	8.50	9.57	4,900[o]	46,000	240	1,900	3,800	5,600	310	--
11/16/07[v]	18.07	8.29	9.78	860[o]	450	34	23	53	25	4.1	--
02/05/08	18.07	10.97	7.10	2,400[o]	18,000	210	950	1,800	1,700	<500	--
05/20/08	18.07	8.99	9.08	6,900[o]	45,000	190	4,900	2,800	6,200	<500[w]	--
08/06/08	18.07	8.26	9.81	5,000[o]	40,000	220	1,500	3,200	6,500	<500[w]	--
12/05/08	18.07	7.56	10.51	4,000[o]	15,000	26	590	1,800	1,800	230	--
02/09/09	18.07	8.02	10.05	2,800[o]	20,000	170	710	1,800	2,500	<400[w]	--
05/08/09	18.07	9.95	8.12	2,900[o]	15,000	88	900	2,100	1,400	<250[w]	--
08/07/09	18.07	8.20	9.87	2,900[o]	41,000	150	2,400	3,800	6,700	<500[w]	--
02/25/10	**18.07**	**10.57**	**7.50**	**1,800[o]**	**15,000**	**42**	**320**	**1,600**	**1,100**	**330**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-4											
10/27/95	14.45	9.37	5.08	--	66	6.8	<0.5	<0.5	<0.5	--	--
02/20/97	14.40	8.12	6.28	--	54	<0.5	<0.5	<0.5	7.4	39	--
04/24/97	14.40	7.29	7.11	--	54	1.4	<0.5	0.65	3.0	100	--
07/23/97	14.40	5.80	8.60	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	14.40	5.74	8.66	--	--	--	--	--	--	--	--
11/13/97	14.40	4.97	9.43	--	<50	<0.5	0.79	<0.5	<0.5	<2.5	--
01/28/98	14.40	8.88	5.52	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	14.40	8.40	6.00	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
07/16/98	14.40	7.08	7.32	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98[a]	14.40	6.28	8.12	--	--	--	--	--	--	--	1.8 x 1
09/03/98[a]	14.40	6.32	8.08	--	--	--	--	--	--	--	1.4 x 1
10/21/98[b]	14.40	5.64	8.76	--	--	--	--	--	--	--	8.6 x 1
11/04/98	14.40	5.61	8.79	--	--	--	--	--	--	--	--
01/26/99	14.40	6.71	7.69	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	14.40	8.15	6.25	--	--	--	--	--	--	--	--
08/21/99	14.40	8.13	6.27	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
10/28/99	14.40	4.14	10.26	--	--	--	--	--	--	--	--
01/31/00	14.40	7.07	7.33	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	14.40	7.52	6.88	--	--	--	--	--	--	--	--
08/07/00	14.40	6.23	8.17	--	<50	4.3	0.60	<0.50	<0.50	<2.5/<2.0[f]	--
12/01/00	14.40	INACCESSIBLE		--	--	--	--	--	--	--	--
02/09/01	14.40	INACCESSIBLE		--	--	--	--	--	--	--	--
05/29/01	14.40	6.58	7.82	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--
08/27/01	14.40	6.52	7.88	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--
11/28/01	14.40	DRY	--	--	--	--	--	--	--	--	--
02/14/02	14.37	7.66	6.71	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[f]	--
05/15/02	14.37	6.96	7.41	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[f]	--
08/05/02	14.37	DRY	--	--	--	--	--	--	--	--	--
11/30/02	14.37	DRY	--	--	--	--	--	--	--	--	--
02/24-25/03[l]	14.37	7.77	6.60	200	<50	8.0	<0.50	<0.50	<1.5	<2.5	--
06/02/03	14.37	7.11	7.26	300	<50	4.3	<0.5	<0.5	<1.5	<2.5	--
09/02/03	14.37	5.80	8.57	410	51	4.3	<0.5	<0.5	<1.5	<2.5	--
11/21/03	--[n]	--[n]	10.24	560	110	25	0.6	1.5	<1.5	<2.5	--
02/27/04	--[n]	--[n]	5.71	340	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/28/04	--[n]	--[n]	7.88	430	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/31/04	--[n]	--[n]	9.03	460	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
12/17/04	--[n]	--[n]	7.67	390[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-4 (cont)											
03/28/05	--[n]	--[n]	5.32	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
06/09/05	--[n]	--[n]	6.70	120[o]	90	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/19/05	--[n]	--[n]	8.03	190[o,p,q]	200	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/18/05	--[n]	--[n]	9.43	310[o,t]	230	2.7	<0.5	0.8	<1.5	<2.5	--
03/07/06	--[n]	--[n]	5.55	230[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/17/06	--[n]	--[n]	5.89	150[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/30/06	--[n]	--[n]	7.71	380[o]	1,300	47	<2.5	<2.5	<7.5	<50	--
11/28/06	--[n]	--[n]	8.75	1,800[o]	1,200	36	1.1	3.4	<5.0	<20	--
02/06/07	16.98	8.58	8.40	1,600[o]	13,000[u]	3,700[u]	60[u]	880[u]	170[u]	210[u]	--
05/02/07	16.98	9.53	7.45	170[o]	1,400	170	0.6	0.9	1.6	<50	--
08/17/07	16.98	8.35	8.63	1,600[o]	4,700	870	3.8	49	<10	30	--
11/16/07	16.98	8.20	8.78	2,000[o]	3,700	780	5.6	100	7.8	25	--
02/05/08	16.98	10.75	6.23	250[o]	1,100	270	2.2	63	7.6	<50	--
05/20/08	16.98	8.91	8.07	1,100[o]	3,300	720	4.1	13	15	<50[w]	--
08/06/08	16.98	8.09	8.89	2,200[o]	11,000	2,700	33	460	87	<100[w]	--
12/05/08	16.98	7.46	9.52	540[o]	2,500	380	1.4	22	<5.0[x]	11	--
02/09/09	16.98	7.97	9.01	610[o]	890	6.4	0.5	2.9	<1.5	<5.0[w]	--
05/08/09	16.98	9.80	7.18	140[o]	560	29	<0.5	1.2	<1.5	<5.0[w]	--
08/07/09	16.98	8.10	8.88	1,000[o]	1,900	260	1.2	7.1	3.0	8.3	--
02/25/10	**16.98**	**10.37**	**6.61**	**54[o,z]**	**56**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	**--**
MW-5											
01/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
04/24/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
04/30/97	15.03	7.06	7.97	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
10/29/97	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
01/28/98	15.03	8.83	6.20	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
07/16/98	15.03	7.28	7.75	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
11/04/98	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
01/26/99	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
05/06/99	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
08/21/99	15.03	6.74	8.29	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-5 (cont)											
10/28/99	15.03	4.60	10.43	--	--	--	--	--	--	--	--
01/31/00	15.03	7.39	7.64	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	15.03	7.85	7.18	--	--	--	--	--	--	--	--
08/07/00	15.03	INACCESSIBLE		--	--	--	--	--	--	--	--
12/01/00	15.03	5.68	9.35	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50/<2.0[f]	--
02/09/01	15.03	6.22	8.81	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[f]	--
05/29/01	15.03	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--
08/27/01	15.03	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--
11/28/01	15.03	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--
02/14/02	15.01	7.96	7.05	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[f]	--
05/15/02	15.01	7.23	7.78	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[f]	--
08/05/02	15.01	6.13	8.88	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[f]	--
11/30/02	15.01	5.27	9.74	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[f]	--
02/24-25/03[l]	15.01	7.99	7.02	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
06/02/03	15.01	7.14	7.87	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
09/02/03	15.01	6.02	8.99	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/21/03	15.01	5.26	9.75	68	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/27/04	15.01	8.42	6.59	140	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/28/04	15.01	6.71	8.30	76	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/31/04	15.01	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--
12/17/04	15.01	6.98	8.03	52[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
03/28/05	15.01	8.66	6.35	51[o]	<50	<0.5	0.7	<0.5	<1.5	<2.5	--
06/09/05	15.01	9.16	5.85	72[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/19/05	15.01	6.52	8.49	<50[o,p]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/18/05	15.01	6.12	8.89	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
03/07/06	15.01	8.98	6.03	<50[o]	<50	<0.5	<0.5	1.4	<1.5	<2.5	--
05/17/06	15.01	8.83	6.18	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/30/06	15.01	6.86	8.15	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/28/06	15.01	6.46	8.55	200[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/06/07	17.68	8.83	8.85	55[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/02/07	17.68	9.91	7.77	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/17/07	17.68	8.63	9.05	66[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/16/07	17.68	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--
02/05/08	17.68	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--
02/29/08	17.68	10.88	6.80	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/20/08	17.68	9.21	8.47	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/06/08	17.68	8.29	9.39	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-5 (cont)											
12/05/08	17.68	7.63	10.05	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/09/09	17.68	8.21	9.47	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/08/09	17.68	10.16	7.52	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/07/09	17.68	8.33	9.35	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/25/10	**17.68**	**10.76**	**6.92**	**<50[o]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	**--**
MW-6											
01/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	14.73	8.11	6.62	--	800	310	23	11	28	<12	--
04/24/97	14.73	7.13	7.60	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	14.73	5.73	9.00	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	14.73	4.98	9.75	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	14.73	8.19	6.54	--	160	38	<0.5	<0.5	<0.5	<2.5	--
05/11/98	14.73	8.08	6.65	--	1,700	490	72	39	52	<25	--
07/16/98	14.73	7.04	7.69	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/04/98[a]	14.73	6.89	7.84	--	--	--	--	--	--	--	8.6 x 1
09/03/98[a]	14.73	6.24	8.49	--	--	--	--	--	--	--	2.9 x 1
10/21/98[b]	14.73	5.46	9.27	--	--	--	--	--	--	--	1.8 x 1
11/04/98	14.73	5.52	9.21	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/26/99	14.73	6.49	8.24	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	14.73	7.91	6.82	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
08/21/99	14.73	7.93	6.80	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
10/28/99	14.73	5.27	9.46	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
01/31/00	14.73	7.16	7.57	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	14.73	7.60	7.13	--	<50	11	<0.5	<0.5	<0.5	<2.5	--
08/07/00	14.73	6.22	8.51	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[f]	--
12/01/00	14.73	DRY	--	--	--	--	--	--	--	--	--
02/09/01	14.73	DRY	--	--	--	--	--	--	--	--	--
05/29/01	14.73	6.63	8.10	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--
08/27/01[h]	14.73	9.83	4.90	--	150	<0.50	5.7	<0.50	<0.50	<5.0[f]	--
11/28/01	14.73	DRY	--	--	--	--	--	--	--	--	--
02/14/02	14.68	7.90	6.78	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/15/02	14.68	7.32	7.36	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/05/02	14.68	DRY	--	--	--	--	--	--	--	--	--
11/30/02	14.68	DRY	--	--	--	--	--	--	--	--	--
02/24-25/03[l]	14.68	7.89	6.79	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-6 (cont)											
06/02/03	14.68	7.20	7.48	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
09/02/03	14.68	5.77	8.91	190	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/21/03	14.68	4.86	9.82	98	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/27/04	14.68	8.12	6.56	240	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/28/04	14.68	6.43	8.25	150	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/31/04	14.68	5.29	9.39	360[m]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
12/17/04	14.68	6.85	7.83	91[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
03/28/05	14.68	8.34	6.34	61[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
06/09/05	14.68	7.95	6.73	64[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/19/05	14.68	6.27	8.41	<50[o,p]	<50[s]	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/18/05	14.68	DRY AT 15.70 FEET		--	--	--	--	--	--	--	--
03/07/06	14.68	8.03	6.65	<50[o]	<50	<0.5	<0.5	0.9	<1.5	<2.5	--
05/17/06	14.68	7.98	6.70	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/30/06	14.68	6.63	8.05	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/28/06	14.68	6.09	8.59	120[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/06/07	17.33	8.58	8.75	96[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/02/07	17.33	9.64	7.69	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/17/07	17.33	8.38	8.95	66[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/16/07	17.33	8.19	9.14	250[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/05/08	17.33	10.55	6.78	120[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/20/08	17.33	8.92	8.41	70[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/06/08	17.33	8.06	9.27	<160[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
12/05/08	17.33	7.44	9.89	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/09/09	17.33	7.99	9.34	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/08/09	17.33	10.01	7.32	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/07/09	17.33	8.11	9.22	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/25/10	**17.33**	**10.58**	**6.75**	**<50[o]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	**--**
MW-7											
01/03/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--
02/20/97	16.36	8.86	7.50	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	16.36	7.59	8.77	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	16.36	6.09	10.27	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	16.36	5.28	11.08	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	16.36	9.10	7.26	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	16.36	9.11	7.25	SAMPLED ANNUALLY		--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-7 (cont)											
07/16/98	16.36	8.00	8.36	--	--	--	--	--	--	--	--
08/04/98[a]	16.36	7.32	9.04	--	--	--	--	--	--	--	1.5 x 1
09/03/98[a]	16.36	6.65	9.71	--	--	--	--	--	--	--	6.5 x 1
10/21/98[b]	16.36	5.96	10.40	--	--	--	--	--	--	--	4.8 x 1
11/04/98	16.36	5.89	10.47	--	--	--	--	--	--	--	--
01/26/99	16.36	8.25	8.11	--	<50	<0.5	<0.5	<0.5	0.5	<2.0	--
05/06/99	16.36	8.47	7.89	--	--	--	--	--	--	--	--
08/21/99	16.36	8.51	7.85	--	--	--	--	--	--	--	--
10/28/99	16.36	6.04	10.32	--	--	--	--	--	--	--	--
01/31/00	16.36	7.57	8.79	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/19/00	16.36	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
08/07/00	16.36	6.67	9.69	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0[f]	--
12/01/00	16.36	5.84	10.52	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
02/09/01	16.36	6.30	10.06	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
05/29/01	16.36	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
08/27/01[h]	16.36	6.02	10.34	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0[f]	--
11/28/01	16.36	6.09	10.27	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	16.31	8.21	8.10	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/15/02	16.31	7.41	8.90	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/05/02	16.31	6.26	10.05	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/30/02	16.31	5.39	10.92	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/24-25/03[l]	16.31	8.30	8.01	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
06/02/03	16.31	7.67	8.64	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
09/02/03	16.31	6.17	10.14	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/21/03	16.31	UNABLE TO LOCATE - BURIED			--	--	--	--	--	--	--
02/27/04	16.31	UNABLE TO LOCATE - BURIED			--	--	--	--	--	--	--
05/28/04	--[n]	--[n]	9.40	91	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/31/04	--[n]	--[n]	10.61	150[m]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
12/17/04	--[n]	--[n]	9.16	170[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
03/28/05	--[n]	--[n]	7.21	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
06/09/05	--[n]	--[n]	7.71	86[o]	55	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/19/05	--[n]	--[n]	9.88	820[o,p,q]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/18/05	--[n]	--[n]	10.06	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
03/07/06	--[n]	--[n]	6.95	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/17/06	--[n]	--[n]	7.52	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/30/06	--[n]	--[n]	10.73	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/28/06	--[n]	--[n]	10.70	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-7 (cont)											
02/06/07	19.26	8.91	10.35	73[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/02/07	19.26	9.98	9.28	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/17/07	19.26	8.75	10.51	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/16/07	19.26	8.56	10.70	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/05/08	19.26	11.43	7.83	100[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/20/08	19.26	9.32	9.94	52[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/06/08	19.26	8.41	10.85	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
12/05/08	19.26	7.71	11.55	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/09/09	19.26	8.23	11.03	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/08/09	19.26	10.23	9.03	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/07/09	19.26	8.40	10.86	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/25/10	**19.26**	**10.84**	**8.42**	**<50[o]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	**--**
MW-8											
02/14/02[i,j]	15.29	7.30	7.99	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2[f]	--
05/15/02[k]	15.29	6.66	8.63	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/05/02[k]	15.29	5.48	9.81	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/30/02[k]	15.29	4.85	10.44	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/24-25/03[l]	15.29	7.46	7.83	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
06/02/03	15.29	6.83	8.46	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
09/02/03	15.29	5.57	9.72	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/21/03	15.29	4.89	10.40	<50	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/27/04	15.29	8.38	6.91	280	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/28/04	15.29	6.33	8.96	72	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/31/04	15.29	4.79	10.50	92[m]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
12/17/04	15.29	6.68	8.61	53[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
03/28/05	15.29	8.79	6.50	<50[o]	<50	<0.5	0.9	<0.5	<1.5	<2.5	--
06/09/05	15.29	8.26	7.03	63[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/19/05	15.29	6.18	9.11	<50[o,p]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/18/05	15.29	5.47	9.82	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
03/07/06	15.29	8.60	6.69	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/17/06	15.29	8.21	7.08	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/30/06	15.29	6.57	8.72	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/28/06	15.29	6.38	8.91	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/06/07	17.79	8.39	9.40	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/02/07	17.79	9.33	8.46	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-8 (cont)											
08/17/07	17.79	8.18	9.61	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/16/07	17.79	8.04	9.75	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/05/08	17.79	10.44	7.35	120[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/20/08	17.79	8.69	9.10	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/06/08	17.79	7.89	9.90	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
12/05/08	17.79	7.30	10.49	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/09/09	17.79	7.86	9.93	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/08/09	17.79	9.60	8.19	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/07/09	17.79	7.95	9.84	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/25/10	**17.79**	**10.27**	**7.52**	**<50[o]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	**--**
MW-9											
04/20/07[i]	18.42	10.39	8.03	1,100[o]	4,100	28	6.9	9.2	240	--	--
06/22/07	18.42	8.82	9.60	310[o]	500	4.4	<0.5	<0.5	12	--	--
08/17/07	18.42	8.67	9.75	92[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
11/16/07	18.42	8.40	10.02	470[o]	92	<0.5	<0.5	<0.5	<1.5	--	--
02/05/08	18.42	11.08	7.34	390[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
05/20/08	18.42	9.16	9.26	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/06/08	18.42	8.31	10.11	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
12/05/08	18.42	7.64	10.78	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
02/09/09	18.42	8.15	10.27	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
05/08/09	18.42	10.11	8.31	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/07/09	18.42	8.33	10.09	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
02/25/10	**18.42**	**10.70**	**7.72**	**<50[o]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**--**	**--**
MW-10											
04/20/07[i]	17.99	8.35	9.64	260[o]	1,200	29	31	11	140	--	--
06/22/07	17.99	8.29	9.70	110[o]	<50	1.5	<0.5	<0.5	<1.5	--	--
08/17/07	17.99	7.81	10.18	53[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
11/16/07	17.99	6.90	11.09	140[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
02/05/08	17.99	9.65	8.34	330[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
05/20/08	17.99	8.28	9.71	120[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/06/08	17.99	7.50	10.49	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
12/05/08	17.99	6.67	11.32	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-10 (cont)											
02/09/09	17.99	7.19	10.80	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
05/08/09	17.99	8.96	9.03	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/07/09	17.99	7.41	10.58	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
02/25/10	**17.99**	**9.11**	**8.88**	**<50[o]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**--**	**--**
MW-11											
04/20/07[i]	18.68	9.88	8.80	350[o]	77	<2.0	4.6	<0.5	3.2	--	--
06/22/07	18.68	9.35	9.33	140[o]	51	<0.5	<0.5	<0.5	<1.5	--	--
08/17/07	18.68	8.66	10.02	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
11/16/07	18.68	8.47	10.21	<50	<50	<0.5	<0.5	<0.5	<1.5	--	--
02/05/08	18.68	11.10	7.58	84[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
05/20/08	18.68	9.20	9.48	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/06/08	18.68	8.37	10.31	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
12/05/08	18.68	7.63	11.05	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
02/09/09	18.68	8.17	10.51	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
05/08/09	18.68	10.12	8.56	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/07/09	18.68	8.34	10.34	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
02/25/10	**18.68**	**10.70**	**7.98**	**<50[o]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**--**	**--**
MW-12											
04/20/07[i]	18.46	12.88	5.58	430[o]	400	2.3	40	14	49	--	--
06/22/07	18.46	7.75	10.71	390[o]	<50	0.7	1.1	<0.5	4.3	--	--
08/17/07	18.46	7.91	10.55	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
11/16/07	18.46	6.96	11.50	200[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
02/05/08	18.46	8.62	9.84	200[o]	51	0.9	<0.5	<0.5	<1.5	--	--
02/05/08	18.46	8.80	9.66	66[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/06/08	18.46	6.40	12.06	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
12/05/08	18.46	6.20	12.26	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
02/09/09	18.46	6.53	11.93	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
05/08/09	18.46	8.64	9.82	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/07/09	18.46	6.41	12.05	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
02/25/10	**18.46**	**8.08**	**10.38**	**<50[o]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**--**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-13											
04/20/07[i]	18.43	9.46	8.97	140[o]	650	16	23	7.5	61	--	--
06/22/07	18.43	8.99	9.44	400[o]	<50	0.6	0.9	<0.5	<1.5	--	--
08/17/07	18.43	8.53	9.90	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
11/16/07	18.43	8.37	10.06	350[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
02/05/08	18.43	10.85	7.58	57[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
05/20/08	18.43	8.99	9.44	100[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/06/08	18.43	8.18	10.25	78[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
12/05/08	18.43	7.53	10.90	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
02/09/09	18.43	8.00	10.43	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
05/08/09	18.43	9.93	8.50	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/07/09	18.43	8.20	10.23	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
02/25/10	**18.43**	**10.51**	**7.92**	**<50[o]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**--**	**--**
MW-14											
04/20/07[i]	18.59	8.17	10.42	2,000[o]	16,000	550	1,600	620	2,400	--	--
06/22/07	18.59	7.55	11.04	1,300[o]	3,700	190	150	49	580	--	--
08/17/07	18.59	7.82	10.77	780[o]	2,600	74	54	11	220	--	--
11/16/07	18.59	7.58	11.01	690[o]	850	45	3.5	14	32	--	--
02/05/08	18.59	8.99	9.60	160[o]	450	16	2.7	7.6	3.0	--	--
05/20/08	18.59	7.69	10.90	120[o]	<50	0.7	<0.5	<0.5	<1.5	--	--
08/06/08	18.59	7.35	11.24	88[o]	<50	0.9	<0.5	<0.5	<1.5	--	--
12/05/08	18.59	6.83	11.76	<50[o]	100	1.7	0.5	<0.5	<1.5	--	--
02/09/09	18.59	7.11	11.48	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
05/08/09	18.59	8.01	10.58	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/07/09	18.59	7.48	11.11	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
02/25/10	**18.59**	**8.72**	**9.87**	**<50[o]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**--**	**--**
MW-15											
04/20/07[i]	18.38	9.78	8.60	720[o]	240	1.0	1.3	<0.5	20	--	--
06/22/07	18.38	9.09	9.29	150[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/17/07	18.38	8.65	9.73	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
11/16/07	18.38	8.41	9.97	140[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
02/05/08	18.38	10.97	7.41	52[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
05/20/08	18.38	9.12	9.26	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/06/08	18.38	8.30	10.08	190[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-15 (cont)											
12/05/08	18.38	7.58	10.80	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
02/09/09	18.38	8.12	10.26	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
05/08/09	18.38	10.02	8.36	53[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/07/09	18.38	8.30	10.08	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
02/25/10	**18.38**	**10.61**	**7.77**	**<50[o]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**--**	**--**
MW-16											
04/20/07[i]	18.57	8.75	9.82	2,200[o]	15,000	87	1,200	500	2,000	--	--
06/22/07	18.57	8.20	10.37	2,100[o]	10,000	130	1,800	580	1,400	--	--
08/17/07	18.57	7.81	10.76	640[o]	8,200	110	1,400	280	730	--	--
11/16/07	18.57	7.54	11.03	370[o]	1,600	22	270	60	160	--	--
02/05/08	18.57	9.74	8.83	350[o]	930	2.6	15	9.3	18	--	--
05/20/08	18.57	8.26	10.31	79[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/06/08	18.57	7.49	11.08	74[o]	<50	<0.5	<0.5	0.6	<1.5	--	--
12/05/08	18.57	6.80	11.77	89[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
02/09/09	18.57	7.18	11.39	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
05/08/09	18.57	8.92	9.65	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/07/09	18.57	7.52	11.05	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
02/25/10	**18.57**	**9.36**	**9.21**	**<50[o]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**--**	**--**
MW-17											
04/20/07[i]	18.55	-0.95	19.50	1,300[o]	7,400	66	880	300	1,300	--	--
06/22/07	18.55	8.21	10.34	690[0]	2,000	35	27	9.3	360	--	--
08/17/07	18.55	2.33	16.22	240[o]	380	6.7	2.3	0.5	15	--	--
11/16/07	18.55	3.22	15.33	270[o]	190	4.0	4.0	1.5	27	--	--
02/05/08	18.55	4.94	13.61	460[o]	1,000	16	26	49	60	--	--
05/20/08	18.55	8.29	10.26	89[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/06/08	18.55	5.82	12.73	150[o]	180	2.5	2.0	2.8	1.5	--	--
12/05/08	18.55	6.62	11.93	120[o]	360	3.4	<2.0[y]	0.7	<1.5	--	--
02/09/09	18.55	6.68	11.87	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
05/08/09	18.55	8.79	9.76	<50[o]	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/07/09	18.55	7.51	11.04	SAMPLED SEMI-ANNUALLY			--	--	--	--	--
02/25/10	**18.55**	**8.92**	**9.63**	**<50**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**--**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
AS-1											
02/25/10[i]	--	--	**7.63**	--	--	--	--	--	--	--	--
AS-2											
02/25/10[i]	--	--	**8.05**	--	--	--	--	--	--	--	--
AS-3											
02/25/10[i]	--	--	**8.12**	--	--	--	--	--	--	--	--
AS-4											
02/25/10[i]	--	--	**7.98**	--	--	--	--	--	--	--	--
AS-5											
02/25/10[i]	--	--	**7.80**	--	--	--	--	--	--	--	--
AS-6											
02/25/10[i]	--	--	**8.04**	--	--	--	--	--	--	--	--
AS-7											
02/25/10[i]	--	--	**8.01**	--	--	--	--	--	--	--	--
AS-8											
02/25/10[i]	--	--	**7.94**	--	--	--	--	--	--	--	--
MW-1											
10/27/95	15.69	10.54	5.15	--	170,000	19,000	34,000	4,800	26,000	--	--
02/20/97	15.64	8.96	6.68	--	18,000	870	3,500	470	2,100	<250	--
04/24/97	15.64	7.30	8.34	--	76,000	4,600	16,000	1,600	8,300	1,000	--
07/23/97	15.64	5.90	9.74	--	37,000	2,700	8,000	870	6,100	<250	--
10/29/97	15.64	INACCESSIBLE		--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
MW-1 (cont)											
01/28/98	15.64	9.30	6.34	--	10,000	380	2,000	300	1,500	<25	--
05/11/98	15.64	8.72	6.92	--	17,000	880	3,100	380	2,300	<250	--
07/16/98	15.64	7.23	8.41	--	29,000	2,700	6,800	890	3,900	<1,000	--
08/04/98[a]	15.64	6.90	8.74	--	--	--	--	--	--	--	<1.0 x
09/03/98[a]	15.64	6.43	9.21	--	--	--	--	--	--	--	4.1 x 1
10/21/98[b]	15.64	5.59	10.05	--	--	--	--	--	--	--	4.7 x 1
11/04/98	15.64	5.64	10.00	--	25,000	1,900	5,900	810	4,300	<125	--
01/26/99	15.64	6.86	8.78	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	15.64	8.17	7.47	--	8,050	515	1,840	256	1,190	300/<20[c]	--
08/21/99	15.64	13.27	2.37	--	46,500	2,530	8,700	1,010	5,300	<1,250/<40[c]	--
10/28/99	15.64	5.46	10.18	--	31,600	1,580	6,100	794	4,400	1,270	--
01/31/00	15.64	7.49	8.15	--	7,270	366	1,280	171	935	<12.5	--
05/19/00	15.64	7.78	7.86	--	8,000[e]	870	1,200	430	1,200	<250	--
08/07/00	15.64	6.42	9.22	--	37,000[e]	2,400	8,500	1,100	5,500	1,500/<4.0[f]	--
12/01/00	15.64	5.25	10.39	--	25,500[g]	1,390	4,920	801	4,330	<500/<10[f]	--
02/09/01	15.64	6.10	9.54	--	8,900[e]	850	1,300	470	1,700	820/<2.0[f]	--
05/29/01	15.64	6.79	8.85	--	24,000[e]	1,800	5,600	740	3,700	<250/<2.0[f]	--
08/27/01[h]	15.64	5.83	9.81	--	27,000	1,400	4,400	710	3,400	<20[f]	--
11/28/01	15.64	5.84	9.80	--	26,000	1,300	3,900	620	3,400	<100/<2[f]	--
02/14/02	15.63	8.34	7.29	--	1,400	100	360	45	240	9.3/<2[f]	--
05/15/02	15.63	7.18	8.45	--	37,000	2,400	7,300	1,000	4,800	<100/<3.0[f]	--
08/05/02	15.63	6.09	9.54	--	27,000	1,500	4,600	700	3,400	<100/<3.0[f]	--
DESTROYED											
TRIP BLANK											
02/20/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
04/24/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/23/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
10/29/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
01/28/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
05/11/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
07/16/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
11/04/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
01/26/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.0	--
05/06/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
01/31/00	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
TRIP BLANK (cont)											
05/19/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/07/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
12/01/00	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
02/09/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
05/29/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--
08/27/01[h]	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0[f]	--
QA				--							
11/28/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/14/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
05/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
08/05/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
11/30/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
02/24-25/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
06/02/03	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
09/02/03	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/21/03	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/27/04	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/28/04	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/31/04	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
12/17/04	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
03/28/05	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
06/09/05	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/19/05	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/18/05	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
03/07/06	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/17/06	--	--	--		<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/30/06	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/28/06	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/06/07	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
04/20/07	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/02/07	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
06/22/07	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--	--
08/17/07	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
11/16/07	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/05/08	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/29/08	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/20/08	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	CUB (cfu/m
QA (cont)											
08/06/08	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
12/05/08	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/09/09	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
05/08/09	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
08/07/09	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5	--
02/25/10	**--**	**--**	**--**	**--**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<1.5**	**<2.5**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)
800 Center Street
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 19, 2000 were compiled from reports prepared by Blaine Tech Services, Inc.

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

TPH = Total Petroleum Hydrocarbons
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes

MTBE = Methyl Tertiary Butyl Ether
CUB = Contaminate utilizing bacteria
(cfu/ml) = Colony forming unit per milliliter
(µg/L) = Micrograms per liter
(ppb) = Parts per billion
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank

* TOC elevations were surveyed on May 30, 2007, by Morrow Surveying. Vertical Datum is NAVD 88 from GPS observations.
Gettler-Ryan received updated TOC data March 12, 2007. Vertical Datum is NAVD 88 from GPS observations.
TOC elevations were surveyed on August 17, 2005, by Morrow Surveying.
On February 18, 2003, MW-1A was surveyed using the previous benchmark.
TOC elevations were surveyed on December March 4, 2002, by Virgil Chavez Land Surveying. The benchmark for the survey was a City of Oakland benchmark, #25-H monument disk in well casting in sidewalk at the northwest corner of 7th and Center. The latitude, longitude and coordinates are for top of casings and are based on the California State Coordinate System, Zone III (NAD83), (Benchmark Elevation = 10.784 feet NGVD 29).

[a] Contaminate hydrocarbon utilizing bacteria plate count was run with diesel and jet fuel degraders.
[b] Contaminate hydrocarbon utilizing bacteria plate count was run with gasoline degraders.
[c] Confirmation run.
[d] Chromatogram pattern indicates an unidentified hydrocarbon.
[e] Laboratory report indicates gasoline C6-C12.
[f] MTBE by EPA Method 8260.
[g] Laboratory reports indicates weathered gasoline C6-C12.
[h] TPH-G and BTEX by EPA Method 8260.
[i] Well development performed.
[j] TPH-D was detected at 130 ppb.
[k] TPH-D was <50 ppb.
[l] Well re-development performed.
[m] Laboratory report indicates the observed sample pattern is not typical of diesel/#2 fuel oil.
[n] TOC damaged; unable to calculate an accurate GWE.
[o] Analyzed with silica gel clean-up.
[p] Laboratory report indicates analysis performed out of hold time.
[q] Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes later in the DRO range.
[r] Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range earlier than #2 fuel.

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

EXPLANATIONS:

[s] Laboratory report indicates the analysis was performed from a previously opened vial and the results are therefore estimated.

[t] Laboratory report indicates the observed sample pattern includes #2 fuel/diesel, an additional pattern which elutes later in the DRO range, and individual peaks eluting in the DRO range.

[u] Laboratory confirmed result.

[v] Current laboratory analytical results do not coincide with historical data and although laboratory results were confirmed; it appears that the samples were switched.

[w] Laboratory report indicates that due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.

[x] Laboratory report indicates that due to the presence of an interferent near its retention time, the normal reporting limit was not attained for total xylenes. The presence or concentration of this compound cannot be determined due to the presence of this interferent.

[y] Laboratory report indicates that due to the presence of an interferent near its retention time, the normal reporting limit was not attained for toluene. The presence or concentration of this compound cannot be determined due to the presence of this interferent.

[z] Laboratory report indicates DRO was detected in the method blank at a concentration of 50 µg/L. Due to insufficient sample volume, a repeat analysis could not be performed to confirm the results.

[aa] Laboratory report indicates the ending calibration check standard did not meet the 15% criteria for the original analysis. The sample was reanalyzed from the vial with headspace and the result was <50 µg/L.

Table 2

Field Measurements and Analytical Results

Former Chevron (Signal Oil) Service Station #206145 (S-800)
800 Center Street
Oakland, California

WELL ID/ DATE	Pre-purge DO *(mg/L)*	Post-purge D.O. *(mg/L)*	Pre-purge ORP *(mV)*	Post-purge ORP *(mV)*	Total Alkalinity *(µg/L)*	Ferrous Iron *(µg/L)*	Nitrate as Nitrate *(µg/L)*	Sulfate *(µg/L)*
MW-1								
09/03/98	2.3	1.6	-90	-103	230,000	9,800	<1,000	6,100
MW-2								
09/03/98	2.8	2.5	-206	-163	390,000	7,400	<1,000	21,000
MW-3								
09/03/98	3.1	0.7	-124	-99	830,000	45,000	<1,000	10,000
MW-4								
09/03/98	2.6	1.1	-190	-206	--	--	--	--
MW-6								
09/03/98	2.6	3.2	-148	-167	94,000	62	28,000	47,000
MW-7								
09/03/98	2.7	3.2	-207	-229	170,000	120	7,800	57,000

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results were compiled from reports prepared by Blaine Tech Services, Inc.

D.O. = Dissolved Oxygen
(mg/L) = Milligram per liter
ORP = Oxidation Reduction Potential
(mV) = Millivolts
(µg/L) = Micrograms per liter
-- = Not Analyzed

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron (Signal Oil) Service Station #206145 (S-800)

800 Center Street

Oakland, California

WELL ID	DATE	METHANOL (mg/L)	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-1	08/07/00	--	<1,000	410	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
	12/01/00	--	<2,500	<250	<10	<10	<10	<10	<10	<10
	02/09/01	--	<500	340	<2.0	<2.0	<2.0	53	<2.0	<2.0
	05/29/01	--	<500	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/27/01	<2.000	<200	230	<20	<20	<20	<20	<20	<20
	11/28/01	--	<500	130	<2	<2	<2	<2	<2	<2
	02/14/02	--	<500	<100	<2	<2	<2	<2	<2	<2
	05/15/02	--	<500	120	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
	08/05/02	--	<500	100	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
	DESTROYED									
MW-2	08/07/00		<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/27/01	--	--	--	<5.0	--	--	--	--	--
MW-3	08/07/00	--	<500	2,600	<10	<10	<10	<10	490	17
	02/09/01	--	<500	2,000	<2.0	<2.0	<2.0	35	<2.0	<2.0
	05/29/01	--	<500	1,700[1]	<2.0	<2.0	<2.0	38	980[1]	7.4
	08/27/01	<5.000	<250	1,300	<25	<25	<25	<25	380	<25
	11/28/01	--	<500	1,500	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	02/14/02	--	<500	<100	<2	<2	<2	<2	<2	<2
	05/15/02	--	<500	110	<2	<2	<2	<2	120	<2
	08/05/02	--	<1,000	1,400	<10	<10	<10	<10	670	<10
	11/30/02	--	<1,000	1,200	<10	<10	<10	<10	380	<10
MW-4	08/07/00	--	<500	<100	<2.0	<2.0	<2.0	<2.0	18	<2.0
	08/27/01	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--	--	--
	11/28/01	DRY	--	--	--	--	--	--	--	--
	02/14/02	--	<500	<100	<2	<2	<2	<2	9	<2
	05/15/02	--	<500	<100	<2	<2	<2	<2	4	<2
	08/05/02	DRY	--	--	--	--	--	--	--	--
	11/30/02	DRY	--	--	--	--	--	--	--	--
MW-5	12/01/00	--	<500	<50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	02/09/01	--	<500	<50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/27/01	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--
	11/28/01	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--
	02/14/02	--	<500	<100	<2	<2	<2	<2	<2	<2

Table 3

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron (Signal Oil) Service Station #206145 (S-800)
800 Center Street
Oakland, California

WELL ID	DATE	METHANOL (mg/L)	ETHANOL (µg/L)	TBA (µg/L)	MTBE (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-5 (cont)	05/15/02	--	<500	<100	<2	<2	<2	<2	<2	<2
	08/05/02	--	<500	<100	<2	<2	<2	<2	<2	<2
	11/30/02	--	<500	<100	<2	<2	<2	<2	<2	<2
MW-6	08/07/00	--	<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/27/01	--	--	--	<5.0	--	--	--	--	--
	11/30/02	DRY	--	--	--	--	--	--	--	--
MW-7	08/07/00	--	<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/27/01	--	--	--	<5.0	--	--	--	--	--
MW-8	02/14/02	--	<500	<100	<2	<2	<2	<2	<2	<2

EXPLANATIONS:

TBA = t-Butyl alcohol
MTBE = Methyl Tertiary Butyl Ether
DIPE = Di-Isopropyl ether
ETBE = Ethyl t-butyl ether
TAME = t-Amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
(mg/L) = milligrams per liter
(µg/L) = Micrograms per liter
-- = Not Analyzed

ANALYTICAL METHODS:

EPA Method 8260 (modified) for Methanol
EPA Method 8260 for Oxygenate Compounds

[1] Laboratory report indicates this sample was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.

APPENDIX D

AUGUST AND NOVEMBER 2011 VAPOR LABORATORY REPORTS

Air Toxics LTD.
Laboratory Services Since 1989

8/31/2011
Mr. Ian Hull
Conestoga-Rovers Associates (CRA)
5900 Hollis Street
Suite A
Emeryville CA 94608

Project Name: Chevron 20-6145
Project #: 312002
Workorder #: 1108497A

Dear Mr. Ian Hull

The following report includes the data for the above referenced project for sample(s) received on 8/25/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1108497A

Work Order Summary

CLIENT:	Mr. Ian Hull Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608	**BILL TO:**	Mr. Ian Hull Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-0700	**P.O. #**	312002
FAX:	510-420-9170	**PROJECT #**	312002 Chevron 20-6145
DATE RECEIVED:	08/25/2011	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	08/31/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VP-1	Modified TO-15	6.0 "Hg	15 psi
02A	VP-2	Modified TO-15	6.0 "Hg	15 psi
03A	VP-3	Modified TO-15	5.0 "Hg	15 psi
04A	VP-3-Dup	Modified TO-15	5.0 "Hg	15 psi
05A	VP-4	Modified TO-15	5.0 "Hg	15 psi
06A	VP-5	Modified TO-15	5.0 "Hg	15 psi
07A	VP-6	Modified TO-15	6.0 "Hg	15 psi
08A	Trip Blank	Modified TO-15	29.0 "Hg	15 psi
09A	Lab Blank	Modified TO-15	NA	NA
10A	CCV	Modified TO-15	NA	NA
11A	LCS	Modified TO-15	NA	NA
11AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Frumarn DATE: 08/31/11

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Conestoga-Rovers Associates (CRA)
Workorder# 1108497A

Eight 1 Liter Summa Canister (100% Certified) samples were received on August 25, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

The daily calibration verification (CCV) analyzed on August 26, 2011 did not meet laboratory/project acceptance criteria for Naphthalene. All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Dilution was performed on sample VP-1 due to the presence of high level non-target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP-1

Lab ID#: 1108497A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
TPH ref. to Gasoline (MW=100)	6300	620000	26000	2500000

Client Sample ID: VP-2

Lab ID#: 1108497A-02A

No Detections Were Found.

Client Sample ID: VP-3

Lab ID#: 1108497A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	1.2	1.3	4.6	4.8
m,p-Xylene	1.2	3.6	5.2	15
TPH ref. to Gasoline (MW=100)	60	73	250	300

Client Sample ID: VP-3-Dup

Lab ID#: 1108497A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
m,p-Xylene	1.2	3.4	5.2	15

Client Sample ID: VP-4

Lab ID#: 1108497A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.2	4.5	3.9	14
Toluene	1.2	44	4.6	160
m,p-Xylene	1.2	20	5.2	89
o-Xylene	1.2	4.4	5.2	19
TPH ref. to Gasoline (MW=100)	60	800	250	3300

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP-5

Lab ID#: 1108497A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.2	36	3.9	110
Ethyl Benzene	1.2	2.1	5.2	9.1
Toluene	1.2	230	4.6	870
m,p-Xylene	1.2	20	5.2	86
o-Xylene	1.2	15	5.2	65
TPH ref. to Gasoline (MW=100)	60	36000	250	150000

Client Sample ID: VP-6

Lab ID#: 1108497A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
TPH ref. to Gasoline (MW=100)	63	240	260	980

Client Sample ID: Trip Blank

Lab ID#: 1108497A-08A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-1

Lab ID#: 1108497A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2082614**	**Date of Collection:**	**8/23/11 1:10:00 PM**
Dil. Factor:	**252**	**Date of Analysis:**	**8/26/11 09:41 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	130	Not Detected	400	Not Detected
Ethyl Benzene	130	Not Detected	550	Not Detected
Toluene	130	Not Detected	470	Not Detected
m,p-Xylene	130	Not Detected	550	Not Detected
o-Xylene	130	Not Detected	550	Not Detected
Methyl tert-butyl ether	130	Not Detected	450	Not Detected
Naphthalene	500	Not Detected UJ	2600	Not Detected UJ
TPH ref. to Gasoline (MW=100)	6300	620000	26000	2500000

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	89	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-2

Lab ID#: 1108497A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2082608**	**Date of Collection: 8/23/11 1:45:00 PM**	
Dil. Factor:	**2.52**	**Date of Analysis: 8/26/11 05:37 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.3	Not Detected	4.0	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
Toluene	1.3	Not Detected	4.7	Not Detected
m,p-Xylene	1.3	Not Detected	5.5	Not Detected
o-Xylene	1.3	Not Detected	5.5	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.5	Not Detected
Naphthalene	5.0	Not Detected UJ	26	Not Detected UJ
TPH ref. to Gasoline (MW=100)	63	Not Detected	260	Not Detected

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	83	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-3

Lab ID#: 1108497A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2082609**	**Date of Collection:**	**8/23/11 12:27:00 PM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**8/26/11 06:19 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.2	Not Detected	3.9	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
Toluene	1.2	1.3	4.6	4.8
m,p-Xylene	1.2	3.6	5.2	15
o-Xylene	1.2	Not Detected	5.2	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Naphthalene	4.8	Not Detected UJ	25	Not Detected UJ
TPH ref. to Gasoline (MW=100)	60	73	250	300

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-3-Dup

Lab ID#: 1108497A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2082610**	**Date of Collection:**	**8/23/11 12:27:00 PM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**8/26/11 06:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.2	Not Detected	3.9	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
m,p-Xylene	1.2	3.4	5.2	15
o-Xylene	1.2	Not Detected	5.2	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Naphthalene	4.8	Not Detected UJ	25	Not Detected UJ
TPH ref. to Gasoline (MW=100)	60	Not Detected	250	Not Detected

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	90	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-4

Lab ID#: 1108497A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2082611**	**Date of Collection: 8/23/11 2:37:00 PM**	
Dil. Factor:	**2.42**	**Date of Analysis: 8/26/11 07:33 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.2	4.5	3.9	14
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
Toluene	1.2	44	4.6	160
m,p-Xylene	1.2	20	5.2	89
o-Xylene	1.2	4.4	5.2	19
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Naphthalene	4.8	Not Detected UJ	25	Not Detected UJ
TPH ref. to Gasoline (MW=100)	60	800	250	3300

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-5

Lab ID#: 1108497A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2082612**	**Date of Collection:**	**8/23/11 11:50:00 AM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**8/26/11 08:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.2	36	3.9	110
Ethyl Benzene	1.2	2.1	5.2	9.1
Toluene	1.2	230	4.6	870
m,p-Xylene	1.2	20	5.2	86
o-Xylene	1.2	15	5.2	65
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Naphthalene	4.8	Not Detected UJ	25	Not Detected UJ
TPH ref. to Gasoline (MW=100)	60	36000	250	150000

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-6

Lab ID#: 1108497A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2082613**	**Date of Collection: 8/23/11 1:57:00 PM**	
Dil. Factor:	**2.52**	**Date of Analysis: 8/26/11 08:53 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.3	Not Detected	4.0	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
Toluene	1.3	Not Detected	4.7	Not Detected
m,p-Xylene	1.3	Not Detected	5.5	Not Detected
o-Xylene	1.3	Not Detected	5.5	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.5	Not Detected
Naphthalene	5.0	Not Detected UJ	26	Not Detected UJ
TPH ref. to Gasoline (MW=100)	63	240	260	980

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	90	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Trip Blank

Lab ID#: 1108497A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2082615**	**Date of Collection:**	**8/23/11 11:00:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis:**	**8/26/11 10:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Naphthalene	2.0	Not Detected UJ	10	Not Detected UJ
TPH ref. to Gasoline (MW=100)	25	Not Detected	100	Not Detected

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	87	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1108497A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2082606**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/26/11 02:49 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Naphthalene	2.0	Not Detected UJ	10	Not Detected UJ
TPH ref. to Gasoline (MW=100)	25	Not Detected	100	Not Detected

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	85	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1108497A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2082602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/26/11 12:15 PM**	

Compound	%Recovery
Benzene	81
Ethyl Benzene	81
Toluene	79
m,p-Xylene	82
o-Xylene	85
Methyl tert-butyl ether	74
Naphthalene	54 Q
TPH ref. to Gasoline (MW=100)	100

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1108497A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2082603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/26/11 12:56 PM**	

Compound	%Recovery
Benzene	90
Ethyl Benzene	90
Toluene	86
m,p-Xylene	94
o-Xylene	94
Methyl tert-butyl ether	84
Naphthalene	104
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1108497A-11AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2082604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/26/11 01:26 PM**	

Compound	%Recovery
Benzene	89
Ethyl Benzene	88
Toluene	85
m,p-Xylene	91
o-Xylene	92
Methyl tert-butyl ether	86
Naphthalene	108
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

8/31/2011
Mr. Ian Hull
Conestoga-Rovers Associates (CRA)
5900 Hollis Street
Suite A
Emeryville CA 94608

Project Name: Chevron 20-6145
Project #: 312002
Workorder #: 1108497B

Dear Mr. Ian Hull

The following report includes the data for the above referenced project for sample(s) received on 8/25/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1108497B

Work Order Summary

CLIENT:	Mr. Ian Hull Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608	**BILL TO:**	Mr. Ian Hull Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-0700	**P.O. #**	312002
FAX:	510-420-9170	**PROJECT #**	312002 Chevron 20-6145
DATE RECEIVED:	08/25/2011	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	08/31/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VP-1	Modified ASTM D-1946	6.0 "Hg	15 psi
02A	VP-2	Modified ASTM D-1946	6.0 "Hg	15 psi
03A	VP-3	Modified ASTM D-1946	5.0 "Hg	15 psi
04A	VP-3-Dup	Modified ASTM D-1946	5.0 "Hg	15 psi
05A	VP-4	Modified ASTM D-1946	5.0 "Hg	15 psi
06A	VP-5	Modified ASTM D-1946	5.0 "Hg	15 psi
07A	VP-6	Modified ASTM D-1946	6.0 "Hg	15 psi
08A	Trip Blank	Modified ASTM D-1946	29.0 "Hg	15 psi
09A	Lab Blank	Modified ASTM D-1946	NA	NA
09B	Lab Blank	Modified ASTM D-1946	NA	NA
10A	LCS	Modified ASTM D-1946	NA	NA
10AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Linda D. Frumarn DATE: 08/31/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
Conestoga-Rovers Associates (CRA)
Workorder# 1108497B

Eight 1 Liter Summa Canister (100% Certified) samples were received on August 25, 2011. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***ASTM D-1946***	***ATL Modifications***
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VP-1

Lab ID#: 1108497B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	9.4
Nitrogen	0.25	89
Carbon Dioxide	0.025	1.5
Methane	0.00025	0.0024

Client Sample ID: VP-2

Lab ID#: 1108497B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	14
Nitrogen	0.25	84
Carbon Dioxide	0.025	2.1

Client Sample ID: VP-3

Lab ID#: 1108497B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	16
Nitrogen	0.24	80
Carbon Dioxide	0.024	3.6

Client Sample ID: VP-3-Dup

Lab ID#: 1108497B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	16
Nitrogen	0.24	80
Carbon Dioxide	0.024	3.5

Client Sample ID: VP-4

Lab ID#: 1108497B-05A

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VP-4

Lab ID#: 1108497B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	14
Nitrogen	0.24	81
Carbon Dioxide	0.024	5.2
Methane	0.00024	0.00031

Client Sample ID: VP-5

Lab ID#: 1108497B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	19
Nitrogen	0.24	78
Carbon Dioxide	0.024	2.5

Client Sample ID: VP-6

Lab ID#: 1108497B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	19
Nitrogen	0.25	79
Carbon Dioxide	0.025	2.2

Client Sample ID: Trip Blank

Lab ID#: 1108497B-08A

Compound	Rpt. Limit (%)	Amount (%)
Nitrogen	0.10	100

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-1

Lab ID#: 1108497B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9082920**	**Date of Collection: 8/23/11 1:10:00 PM**	
Dil. Factor:	**2.52**	**Date of Analysis: 8/29/11 07:44 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	9.4
Nitrogen	0.25	89
Carbon Dioxide	0.025	1.5
Methane	0.00025	0.0024
Helium	0.13	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-2

Lab ID#: 1108497B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9082921**	**Date of Collection: 8/23/11 1:45:00 PM**	
Dil. Factor:	**2.52**	**Date of Analysis: 8/29/11 08:06 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	14
Nitrogen	0.25	84
Carbon Dioxide	0.025	2.1
Methane	0.00025	Not Detected
Helium	0.13	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-3

Lab ID#: 1108497B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9082922**	**Date of Collection: 8/23/11 12:27:00 PM**	
Dil. Factor:	**2.42**	**Date of Analysis: 8/29/11 08:37 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	16
Nitrogen	0.24	80
Carbon Dioxide	0.024	3.6
Methane	0.00024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-3-Dup

Lab ID#: 1108497B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9082923**	**Date of Collection: 8/23/11 12:27:00 PM**	
Dil. Factor:	**2.42**	**Date of Analysis: 8/29/11 08:59 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.24	16
Nitrogen	0.24	80
Carbon Dioxide	0.024	3.5
Methane	0.00024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-4

Lab ID#: 1108497B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9082924**	**Date of Collection: 8/23/11 2:37:00 PM**	
Dil. Factor:	**2.42**	**Date of Analysis: 8/29/11 09:20 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	14
Nitrogen	0.24	81
Carbon Dioxide	0.024	5.2
Methane	0.00024	0.00031
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-5

Lab ID#: 1108497B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9082925**	**Date of Collection: 8/23/11 11:50:00 AM**	
Dil. Factor:	**2.42**	**Date of Analysis: 8/29/11 09:41 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	19
Nitrogen	0.24	78
Carbon Dioxide	0.024	2.5
Methane	0.00024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-6

Lab ID#: 1108497B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9082926**	**Date of Collection: 8/23/11 1:57:00 PM**	
Dil. Factor:	**2.52**	**Date of Analysis: 8/29/11 10:02 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.25	19
Nitrogen	0.25	79
Carbon Dioxide	0.025	2.2
Methane	0.00025	Not Detected
Helium	0.13	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Trip Blank

Lab ID#: 1108497B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9082927**	**Date of Collection: 8/23/11 11:00:00 AM**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/29/11 10:24 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.10	Not Detected
Nitrogen	0.10	100
Carbon Dioxide	0.010	Not Detected
Methane	0.00010	Not Detected
Helium	0.050	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1108497B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9082905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/29/11 09:19 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Dioxide	0.010	Not Detected
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1108497B-09B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9082906b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/29/11 09:47 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1108497B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9082903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/29/11 07:28 AM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Dioxide	101
Methane	100
Helium	94

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1108497B-10AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9082928**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/29/11 10:46 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Dioxide	100
Methane	98
Helium	97

Container Type: NA - Not Applicable

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: Kiersten Hoey
Collected by: (Print and Sign) Sequoia Patterson
Company: CRA Emeryville Email: khoey@crawworld.com
Address: 5900 Hollis St. Ste A City: Emeryville State: CA Zip: 94608
Phone: 510 420 3347 Fax: 510 420 9170

Project Info:
P.O. #:
Project #: 312002
Project Name: Chevron 20-6145

Turn Around Time:
☐ Normal
☑ Rush
5 day
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	VP-1	37427	08-23-11	1310	For all Samples:	-28	-5.5		
02A	VP-2	36931	08-23-11	1345	• TO-15: TPH$_g$, BTEX,	-29	-5		
03A	VP-3	2032	08-23-11	1227	MTBE, [redacted], Naphthalene	-28.5	-4.5		
04A	VP-3-Dup	31795	08-23-11	1227		-29	-5		
05A	VP-4	3021	08-23-11	1437	• ATSM D-1946: O_2,	-29	-4.5		
06A	VP-5	9443	08-23-11	1150	N_2, CO_2, CH_4,	-28	-5		
07A	VP-6	2154	08-23-11	1357	Helium	-29	-6		
08A	Trip Blank	3041	08-23-11	1100		-	—		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Sequoia Patterson	8-24-11 1400	Fed Ex	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		John ATL	8.25.11 0910
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
• report results in ppbv and $\mu g/m^3$
• email results and EDF to khoey@crawworld.com.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		NA	Good	Yes No None	1108497

Form 1293 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

11/11/2011
Ms. Kiersten Hoey
Conestoga-Rovers Associates (CRA)
5900 Hollis Street
Suite A
Emeryville CA 94608

Project Name: Chevron 20-6145
Project #: 312002
Workorder #: 1111077A

Dear Ms. Kiersten Hoey

The following report includes the data for the above referenced project for sample(s) received on 11/4/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1111077A

Work Order Summary

CLIENT:	Ms. Kiersten Hoey Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608	**BILL TO:**	Mr. Ian Hull Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-0700	**P.O. #**	4031644
FAX:	510-420-9170	**PROJECT #**	312002 Chevron 20-6145
DATE RECEIVED:	11/04/2011	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	11/11/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VP-1	Modified TO-15	5.0 "Hg	5 psi
02A	VP-2	Modified TO-15	5.0 "Hg	5 psi
03A	VP-3	Modified TO-15	5.0 "Hg	5 psi
04A	VP-4	Modified TO-15	4.5 "Hg	5 psi
05A	VP-4-Dup	Modified TO-15	4.5 "Hg	5 psi
06A	VP-5	Modified TO-15	5.5 "Hg	5 psi
07A	VP-6	Modified TO-15	5.5 "Hg	5 psi
08A	Trip Blank	Modified TO-15	29.0 "Hg	5 psi
09A	Lab Blank	Modified TO-15	NA	NA
10A	CCV	Modified TO-15	NA	NA
11A	LCS	Modified TO-15	NA	NA
11AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda J. Fruman DATE: 11/11/11

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Conestoga-Rovers Associates (CRA)
Workorder# 1111077A

Eight 1 Liter Summa Canister (100% Certified) samples were received on November 04, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP-1

Lab ID#: 1111077A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.80	0.91	2.6	2.9
TPH ref. to Gasoline (MW=100)	40	1400	160	5700

Client Sample ID: VP-2

Lab ID#: 1111077A-02A

No Detections Were Found.

Client Sample ID: VP-3

Lab ID#: 1111077A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.80	1.3	3.0	4.8
m,p-Xylene	0.80	6.8	3.5	30
o-Xylene	0.80	1.6	3.5	6.9
TPH ref. to Gasoline (MW=100)	40	210	160	860

Client Sample ID: VP-4

Lab ID#: 1111077A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.79	6.1	3.0	23
m,p-Xylene	0.79	3.8	3.4	16
o-Xylene	0.79	0.90	3.4	3.9
TPH ref. to Gasoline (MW=100)	40	160	160	650

Client Sample ID: VP-4-Dup

Lab ID#: 1111077A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.79	0.84	2.5	2.7
Toluene	0.79	7.1	3.0	27

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VP-4-Dup

Lab ID#: 1111077A-05A

m,p-Xylene	0.79	4.6	3.4	20
o-Xylene	0.79	1.0	3.4	4.5
TPH ref. to Gasoline (MW=100)	40	190	160	780

Client Sample ID: VP-5

Lab ID#: 1111077A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.82	6.2	3.1	23
m,p-Xylene	0.82	2.0	3.6	8.9
o-Xylene	0.82	1.8	3.6	7.9
TPH ref. to Gasoline (MW=100)	41	370	170	1500

Client Sample ID: VP-6

Lab ID#: 1111077A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
TPH ref. to Gasoline (MW=100)	41	110	170	450

Client Sample ID: Trip Blank

Lab ID#: 1111077A-08A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-1

Lab ID#: 1111077A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**m110713**	**Date of Collection: 11/2/11 3:54:00 PM**	
Dil. Factor:	**1.61**	**Date of Analysis: 11/7/11 04:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.80	0.91	2.6	2.9
Ethyl Benzene	0.80	Not Detected	3.5	Not Detected
Toluene	0.80	Not Detected	3.0	Not Detected
m,p-Xylene	0.80	Not Detected	3.5	Not Detected
o-Xylene	0.80	Not Detected	3.5	Not Detected
Methyl tert-butyl ether	0.80	Not Detected	2.9	Not Detected
Naphthalene	3.2	Not Detected	17	Not Detected
TPH ref. to Gasoline (MW=100)	40	1400	160	5700

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	77	70-130
Toluene-d8	76	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-2

Lab ID#: 1111077A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**m110714**	**Date of Collection: 11/2/11 12:05:00 PM**	
Dil. Factor:	**1.61**	**Date of Analysis: 11/7/11 05:22 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.80	Not Detected	2.6	Not Detected
Ethyl Benzene	0.80	Not Detected	3.5	Not Detected
Toluene	0.80	Not Detected	3.0	Not Detected
m,p-Xylene	0.80	Not Detected	3.5	Not Detected
o-Xylene	0.80	Not Detected	3.5	Not Detected
Methyl tert-butyl ether	0.80	Not Detected	2.9	Not Detected
Naphthalene	3.2	Not Detected	17	Not Detected
TPH ref. to Gasoline (MW=100)	40	Not Detected	160	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	80	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-3

Lab ID#: 1111077A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**m110715**	**Date of Collection: 11/2/11 3:10:00 PM**	
Dil. Factor:	**1.61**	**Date of Analysis: 11/7/11 05:59 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.80	Not Detected	2.6	Not Detected
Ethyl Benzene	0.80	Not Detected	3.5	Not Detected
Toluene	0.80	1.3	3.0	4.8
m,p-Xylene	0.80	6.8	3.5	30
o-Xylene	0.80	1.6	3.5	6.9
Methyl tert-butyl ether	0.80	Not Detected	2.9	Not Detected
Naphthalene	3.2	Not Detected	17	Not Detected
TPH ref. to Gasoline (MW=100)	40	210	160	860

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	78	70-130
Toluene-d8	77	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-4

Lab ID#: 1111077A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**m110716**	**Date of Collection: 11/2/11 4:32:00 PM**	
Dil. Factor:	**1.58**	**Date of Analysis: 11/7/11 06:37 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.79	Not Detected	2.5	Not Detected
Ethyl Benzene	0.79	Not Detected	3.4	Not Detected
Toluene	0.79	6.1	3.0	23
m,p-Xylene	0.79	3.8	3.4	16
o-Xylene	0.79	0.90	3.4	3.9
Methyl tert-butyl ether	0.79	Not Detected	2.8	Not Detected
Naphthalene	3.2	Not Detected	16	Not Detected
TPH ref. to Gasoline (MW=100)	40	160	160	650

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	86	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-4-Dup

Lab ID#: 1111077A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**m110717**	**Date of Collection: 11/2/11 4:32:00 PM**	
Dil. Factor:	**1.58**	**Date of Analysis: 11/7/11 07:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.79	0.84	2.5	2.7
Ethyl Benzene	0.79	Not Detected	3.4	Not Detected
Toluene	0.79	7.1	3.0	27
m,p-Xylene	0.79	4.6	3.4	20
o-Xylene	0.79	1.0	3.4	4.5
Methyl tert-butyl ether	0.79	Not Detected	2.8	Not Detected
Naphthalene	3.2	Not Detected	16	Not Detected
TPH ref. to Gasoline (MW=100)	40	190	160	780

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	85	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-5

Lab ID#: 1111077A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**m110718**	**Date of Collection: 11/2/11 2:35:00 PM**	
Dil. Factor:	**1.64**	**Date of Analysis: 11/7/11 07:52 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.82	Not Detected	2.6	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	Not Detected
Toluene	0.82	6.2	3.1	23
m,p-Xylene	0.82	2.0	3.6	8.9
o-Xylene	0.82	1.8	3.6	7.9
Methyl tert-butyl ether	0.82	Not Detected	3.0	Not Detected
Naphthalene	3.3	Not Detected	17	Not Detected
TPH ref. to Gasoline (MW=100)	41	370	170	1500

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	77	70-130
Toluene-d8	75	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-6

Lab ID#: 1111077A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**m110719**	**Date of Collection:**	**11/2/11 12:54:00 PM**
Dil. Factor:	**1.64**	**Date of Analysis:**	**11/7/11 08:29 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.82	Not Detected	2.6	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	Not Detected
Toluene	0.82	Not Detected	3.1	Not Detected
m,p-Xylene	0.82	Not Detected	3.6	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Methyl tert-butyl ether	0.82	Not Detected	3.0	Not Detected
Naphthalene	3.3	Not Detected	17	Not Detected
TPH ref. to Gasoline (MW=100)	41	110	170	450

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	83	70-130
Toluene-d8	84	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Trip Blank

Lab ID#: 1111077A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**m110711**	**Date of Collection: 11/2/11**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/7/11 03:30 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
TPH ref. to Gasoline (MW=100)	25	Not Detected	100	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1111077A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**m110709**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/7/11 01:35 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected
TPH ref. to Gasoline (MW=100)	25	Not Detected	100	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	85	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1111077A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**m110702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/7/11 09:13 AM**	

Compound	%Recovery
Benzene	87
Ethyl Benzene	97
Toluene	94
m,p-Xylene	96
o-Xylene	98
Methyl tert-butyl ether	105
Naphthalene	130
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1111077A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**m110703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/7/11 09:51 AM**	

Compound	%Recovery
Benzene	88
Ethyl Benzene	94
Toluene	92
m,p-Xylene	95
o-Xylene	97
Methyl tert-butyl ether	102
Naphthalene	117
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
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Client Sample ID: LCSD

Lab ID#: 1111077A-11AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**m110704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/7/11 10:28 AM**	

Compound	%Recovery
Benzene	85
Ethyl Benzene	94
Toluene	90
m,p-Xylene	94
o-Xylene	94
Methyl tert-butyl ether	104
Naphthalene	118
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	87	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

11/11/2011
Ms. Kiersten Hoey
Conestoga-Rovers Associates (CRA)
5900 Hollis Street
Suite A
Emeryville CA 94608

Project Name: Chevron 20-6145
Project #: 312002
Workorder #: 1111077B

Dear Ms. Kiersten Hoey

The following report includes the data for the above referenced project for sample(s) received on 11/4/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1111077B

Work Order Summary

CLIENT:	Ms. Kiersten Hoey Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608	**BILL TO:**	Mr. Ian Hull Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-0700	**P.O. #**	4031644
FAX:	510-420-9170	**PROJECT #**	312002 Chevron 20-6145
DATE RECEIVED:	11/04/2011	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	11/11/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VP-1	Modified ASTM D-1946	5.0 "Hg	5 psi
02A	VP-2	Modified ASTM D-1946	5.0 "Hg	5 psi
03A	VP-3	Modified ASTM D-1946	5.0 "Hg	5 psi
04A	VP-4	Modified ASTM D-1946	4.5 "Hg	5 psi
05A	VP-4-Dup	Modified ASTM D-1946	4.5 "Hg	5 psi
06A	VP-5	Modified ASTM D-1946	5.5 "Hg	5 psi
07A	VP-6	Modified ASTM D-1946	5.5 "Hg	5 psi
08A	Trip Blank	Modified ASTM D-1946	29.0 "Hg	5 psi
09A	Lab Blank	Modified ASTM D-1946	NA	NA
09B	Lab Blank	Modified ASTM D-1946	NA	NA
10A	LCS	Modified ASTM D-1946	NA	NA
10AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Linda D. Frumarn DATE: 11/11/11

Laboratory Director

Certfication numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
Conestoga-Rovers Associates (CRA)
Workorder# 1111077B

Eight 1 Liter Summa Canister (100% Certified) samples were received on November 04, 2011. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***ASTM D-1946***	***ATL Modifications***
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The trip blank sample Trip Blank has reportable levels of target compounds present.
Reanalysis confirm initial result.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VP-1

Lab ID#: 1111077B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	8.6
Nitrogen	0.16	91
Carbon Dioxide	0.016	0.52
Methane	0.00016	0.00054

Client Sample ID: VP-2

Lab ID#: 1111077B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	12
Nitrogen	0.16	86
Carbon Dioxide	0.016	1.9

Client Sample ID: VP-3

Lab ID#: 1111077B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	17
Nitrogen	0.16	79
Carbon Dioxide	0.016	3.6

Client Sample ID: VP-4

Lab ID#: 1111077B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	13
Nitrogen	0.16	82
Carbon Dioxide	0.016	4.4
Methane	0.00016	0.00020
Helium	0.079	0.090

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VP-4-Dup

Lab ID#: 1111077B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	13
Nitrogen	0.16	82
Carbon Dioxide	0.016	4.5
Methane	0.00016	0.00020

Client Sample ID: VP-5

Lab ID#: 1111077B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	19
Nitrogen	0.16	78
Carbon Dioxide	0.016	2.6

Client Sample ID: VP-6

Lab ID#: 1111077B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	20
Nitrogen	0.16	78
Carbon Dioxide	0.016	1.9

Client Sample ID: Trip Blank

Lab ID#: 1111077B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.18
Nitrogen	0.10	100

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-1

Lab ID#: 1111077B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110411**	**Date of Collection: 11/2/11 3:54:00 PM**	
Dil. Factor:	**1.61**	**Date of Analysis: 11/4/11 11:25 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	8.6
Nitrogen	0.16	91
Carbon Dioxide	0.016	0.52
Methane	0.00016	0.00054
Helium	0.080	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-2

Lab ID#: 1111077B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110412**	**Date of Collection: 11/2/11 12:05:00 PM**	
Dil. Factor:	**1.61**	**Date of Analysis: 11/4/11 12:08 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	12
Nitrogen	0.16	86
Carbon Dioxide	0.016	1.9
Methane	0.00016	Not Detected
Helium	0.080	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-3

Lab ID#: 1111077B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110413**	**Date of Collection: 11/2/11 3:10:00 PM**	
Dil. Factor:	**1.61**	**Date of Analysis: 11/4/11 12:32 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	17
Nitrogen	0.16	79
Carbon Dioxide	0.016	3.6
Methane	0.00016	Not Detected
Helium	0.080	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-4

Lab ID#: 1111077B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110414**	**Date of Collection: 11/2/11 4:32:00 PM**	
Dil. Factor:	**1.58**	**Date of Analysis: 11/4/11 01:17 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	13
Nitrogen	0.16	82
Carbon Dioxide	0.016	4.4
Methane	0.00016	0.00020
Helium	0.079	0.090

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-4-Dup

Lab ID#: 1111077B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110415**	**Date of Collection: 11/2/11 4:32:00 PM**	
Dil. Factor:	**1.58**	**Date of Analysis: 11/4/11 01:42 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.16	13
Nitrogen	0.16	82
Carbon Dioxide	0.016	4.5
Methane	0.00016	0.00020
Helium	0.079	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-5

Lab ID#: 1111077B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110416**	**Date of Collection: 11/2/11 2:35:00 PM**	
Dil. Factor:	**1.64**	**Date of Analysis: 11/4/11 02:08 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	19
Nitrogen	0.16	78
Carbon Dioxide	0.016	2.6
Methane	0.00016	Not Detected
Helium	0.082	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VP-6

Lab ID#: 1111077B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110417**	**Date of Collection: 11/2/11 12:54:00 PM**	
Dil. Factor:	**1.64**	**Date of Analysis: 11/4/11 02:32 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.16	20
Nitrogen	0.16	78
Carbon Dioxide	0.016	1.9
Methane	0.00016	Not Detected
Helium	0.082	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Trip Blank

Lab ID#: 1111077B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110418**	**Date of Collection: 11/2/11**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/11 02:54 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.18
Nitrogen	0.10	100
Carbon Dioxide	0.010	Not Detected
Methane	0.00010	Not Detected
Helium	0.050	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1111077B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110406**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/11 08:36 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Dioxide	0.010	Not Detected
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1111077B-09B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110405b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/11 08:10 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1111077B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/11 06:44 AM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Dioxide	100
Methane	96
Helium	93

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1111077B-10AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9110429**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/4/11 08:53 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Dioxide	100
Methane	96
Helium	94

Container Type: NA - Not Applicable

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: Kiersten Hoey
Collected by: (Print and Sign) Sequoia Patterson
Company: CRA Emeryville Email: khoey@craworld.com
Address: 5900 Hollis st STE A City: Emeryville State: CA Zip: 94608
Phone: 510-420-3347 Fax: 510-420-9170

Project Info:
P.O. # 4031644
Project # 312002
Project Name: Chevron 20-6145

Turn Around Time:
☐ Normal
☑ Rush 5 day SP
~~1 week~~
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	VP-1	14510	11/2/11	1554	For all Samples:	-30	-5		
02A	VP-2	37680	11/2/11	1205	• TO-15: TPH$_g$, BTEX,	-30	-5		
03A	VP-3	33651	11/2/11	1510	MTBE, Naphthalene	-30	-5		
04A	VP-4	37677	11/2/11	1632		-30	-5		
05A	VP-4-Dup	37300	11/2/11	1632	• ATSM D-1946: O_2,	-30	-5		
06A	VP-5	37666	11/2/11	1435	N_2, CO_2, CH_4,	-30	-5		
07A	VP-6	37683	11/2/11	1254	Helium	-30	-5		
08A	Trip Blank	34173	11/2/11	—		—	—		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	11/3/11 1530	Fed ex	
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		B. Whitehead	11/4/11 0900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

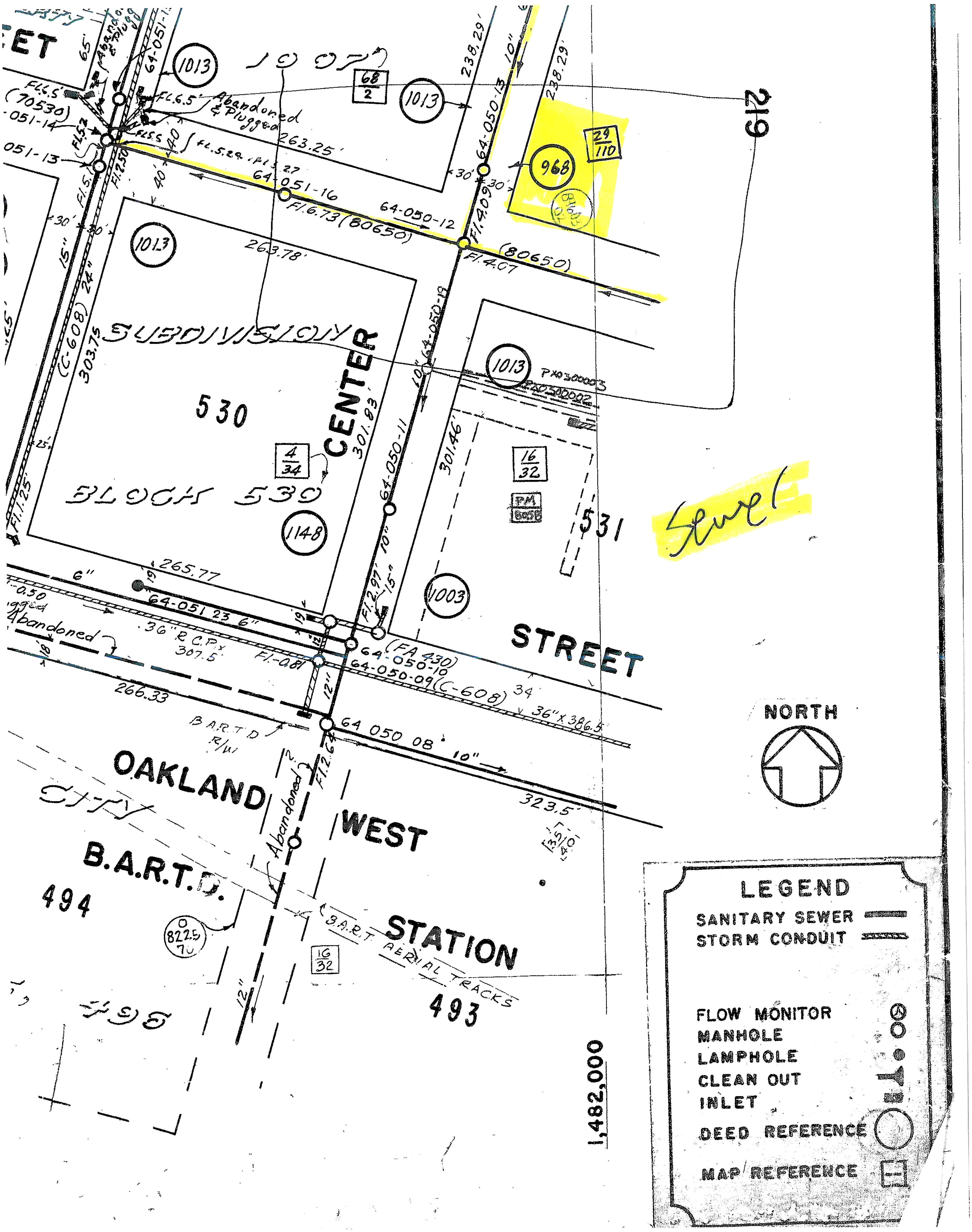
Notes:
• report results in ppbv and ug/m3
• email results and edf to khoey@craworld.com

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		N/A	Good	Yes No (None)	1111077

Form 1293 rev.11

APPENDIX E

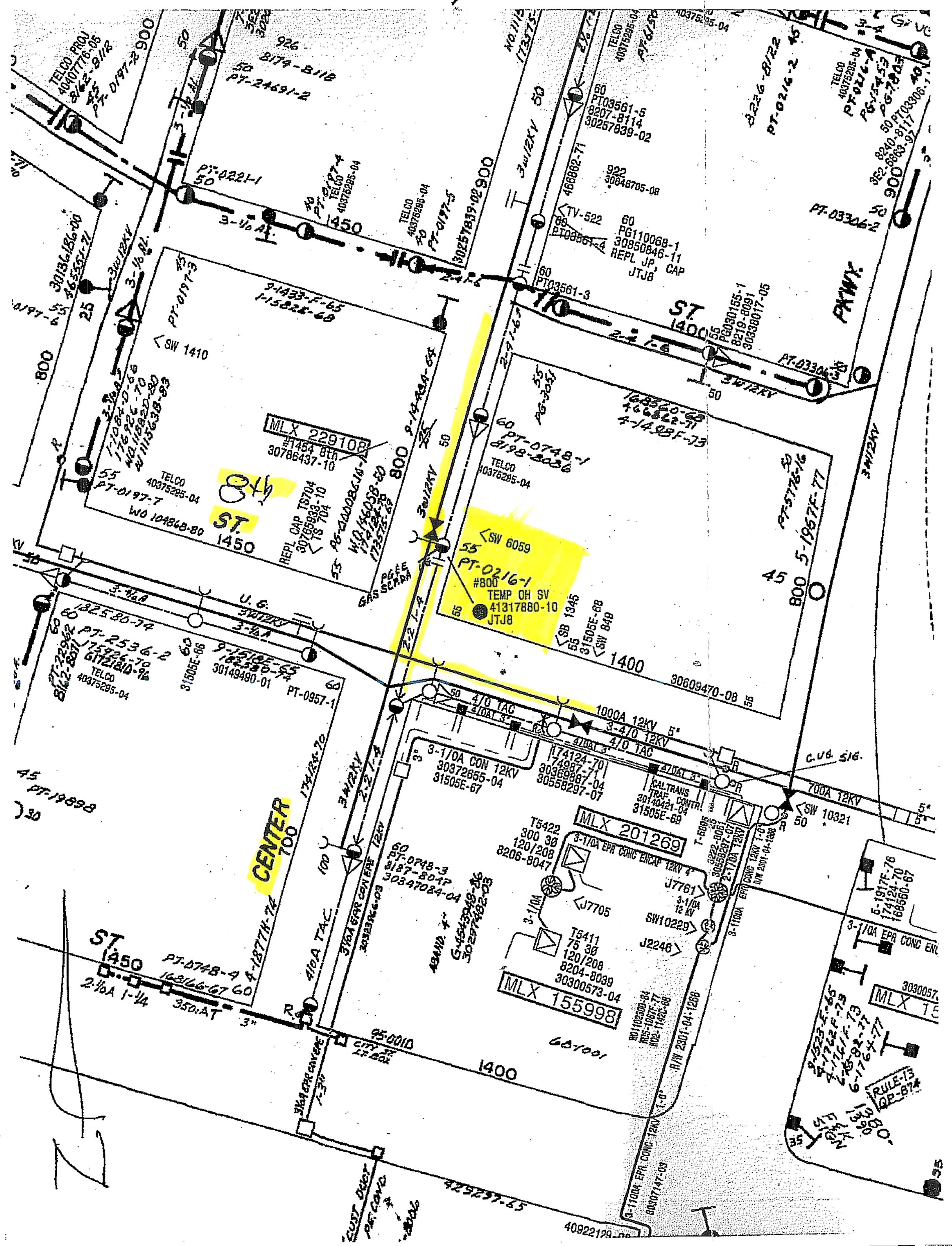
UTILITY MAPS



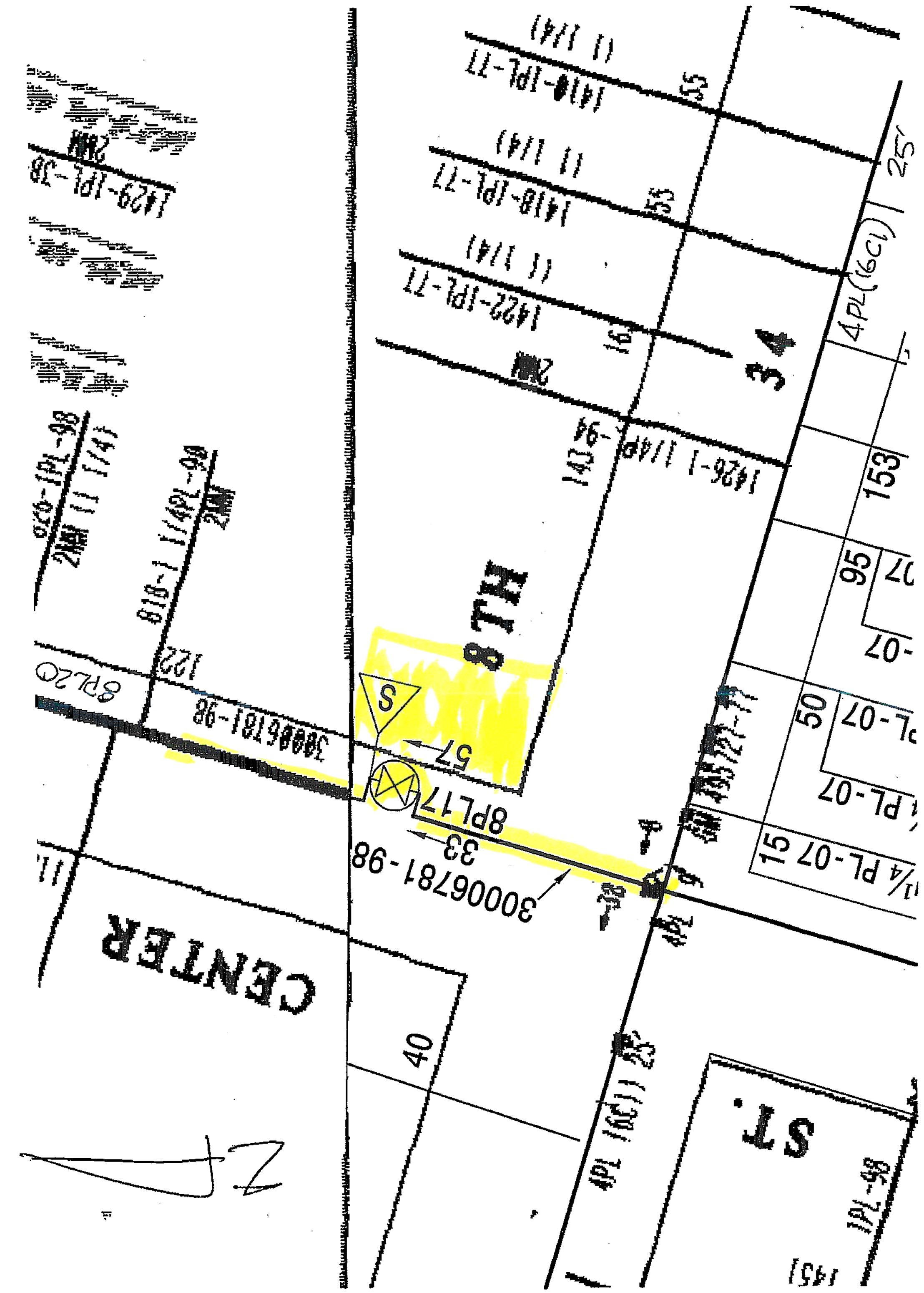
219
SUBDIVISION
530
BLOCK 539
CENTER
531
Sewer
STREET
OAKLAND
WEST
STATION
CITY
B.A.R.T.D.
494
493
496
B.A.R.T. AERIAL TRACKS
B.A.R.T.D. R/W
Abandoned
Abandoned & Plugged
36" R.C.P. 307.5
36" x 386.5
64-050-13
64-050-12
64-051-16
64-050-11
64-050-10
64-050-09 (C-608)
64 050 08
64-051 23 6"
263.25'
263.78'
265.77
266.33
301.83'
301.46'
303.75
323.5'
238.29'
1013
968
1148
1003
1,482,000
NORTH
LEGEND
SANITARY SEWER
STORM CONDUIT
FLOW MONITOR
MANHOLE
LAMPHOLE
CLEAN OUT
INLET
DEED REFERENCE
MAP REFERENCE


EBMUD
CHESTER ST
CENTER ST
7TH ST
8TH ST
9TH ST
10TH ST
MANDELA PKWY
WESTWOOD GARDENS
AM 4
THIS MAP IS TO BE USED FOR GENERAL REFERENCE ONLY. THE DATA WAS NOT COMPILED, NOR INTENDED TO BE USED TO DETERMINE, ESTABLISH, OR REESTABLISH A LEGAL BOUNDARY OR LOCATIONS OF FIXED WORKS. POSTED REVISIONS INCLUDE DATA THAT MAY BE PROPOSED, UNVERIFIED OR OTHERWISE TENTATIVE IN NATURE. EBMUD IS NOT RESPONSIBLE FOR ANY ERRORS THAT MAY BE CONTAINED HEREIN. IF ANY DISCREPANCIES ARE FOUND PLEASE NOTIFY EBMUD MAPPING UNIT

ELECTRIC



GAS



APPENDIX F

SURFICIAL SOIL SAMPLING MAP AND ANALYTICAL RESULTS

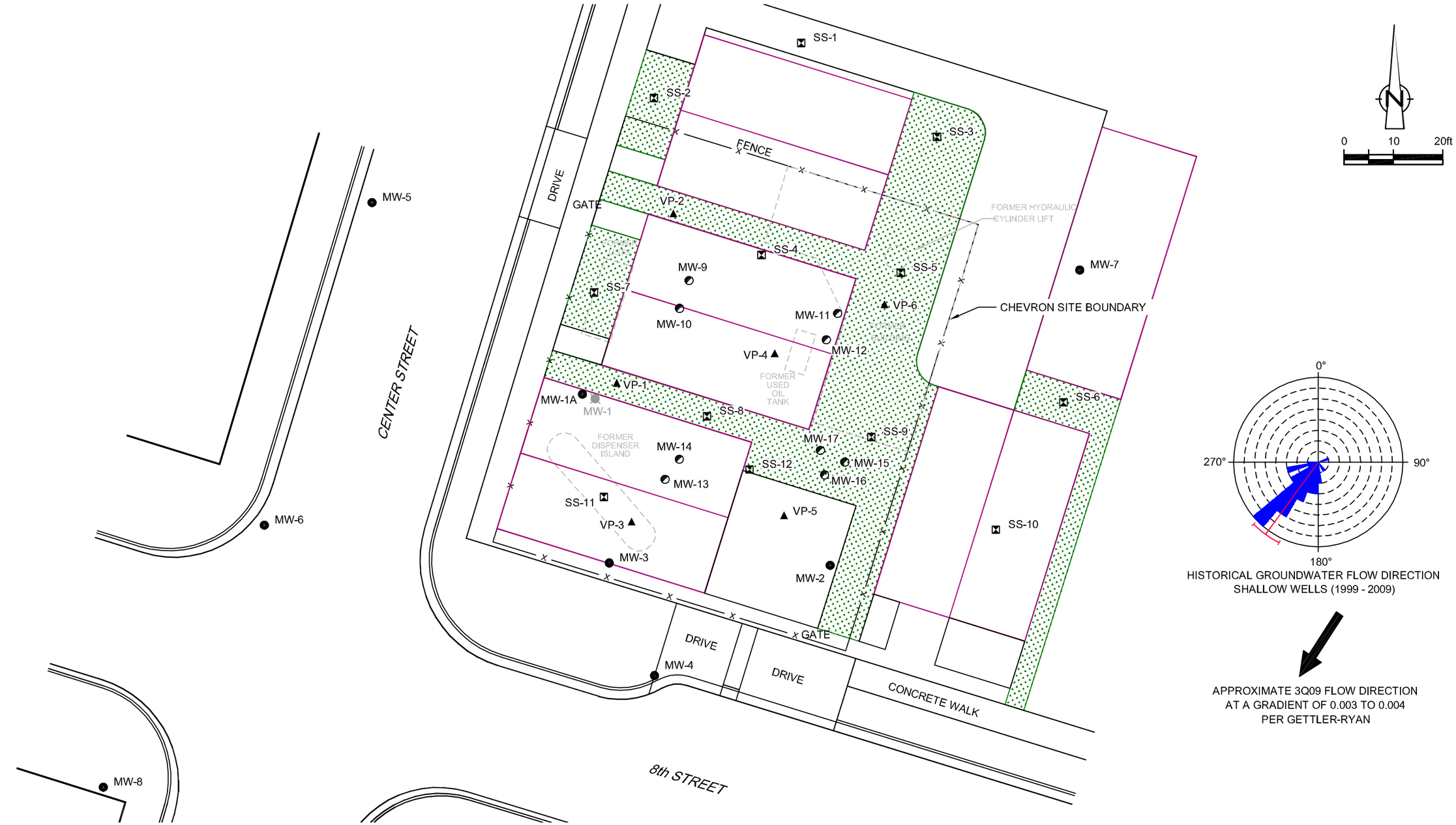


Figure 3

SURFICIAL SOIL SAMPLING LOCATIONS
FORMER CHEVRON SERVICE STATION 20-6145
800 CENTER STREET
Oakland, California

312002-2010(011)GN-WA002 JAN 29/2010

TABLE 1

LEAD ANALYTICAL RESULTS IN SURFICIAL SOIL
FORMER CHEVRON STATION 20-6145
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*Lead Reported in milligrams per kilogram (mg/kg)*
ESL - Residential Direct Exposure			***260***
DTSC Screening Level			***255***
SS-1	1/27/2010	0.0	**753**
SS-1	1/27/2010	0.5	**806**
SS-1	1/27/2010	2.5	55.0
SS-2	1/27/2010	0.0	**980**
SS-2	1/27/2010	0.5	5.85
SS-2	1/27/2010	2.5	2.29
SS-3	1/27/2010	0.0	**491**
SS-3	1/27/2010	0.5	**5,760**
SS-3	1/27/2010	2.5	4.63
SS-4	1/27/2010	0.0	8.24
SS-4	1/27/2010	0.5	7.06
SS-4	1/27/2010	2.5	3.02
SS-5	1/27/2010	0.0	237
SS-5	1/27/2010	0.5	123
SS-5	1/27/2010	2.5	2.11
SS-6	1/27/2010	0.0	174
SS-6	1/27/2010	0.5	216
SS-6	1/27/2010	1.5	**669**
SS-7	1/27/2010	0.0	5.98
SS-7	1/27/2010	0.5	6.38
SS-7	1/27/2010	2.0	6.03
SS-8	1/27/2010	0.0	13.4
SS-8	1/27/2010	0.5	23.7
SS-9	1/27/2010	0.0	6.89
SS-9	1/27/2010	0.5	7.82
SS-9	1/27/2010	1.5	24.1
SS-10	1/27/2010	0.0	83.1
SS-10	1/27/2010	0.5	179
SS-10	1/27/2010	2.5	198
SS-11	1/27/2010	0.0	7.19

TABLE 1

LEAD ANALYTICAL RESULTS IN SURFICIAL SOIL
FORMER CHEVRON STATION 20-6145
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*Lead Reported in milligrams per kilogram (mg/kg)*
ESL - Residential Direct Exposure			***260***
DTSC Screening Level			***255***
SS-11	1/27/2010	0.5	6.01
SS-11	1/27/2010	1.5	6.36
SS-12	1/27/2010	0.0	120
SS-12	1/27/2010	0.5	11
SS-12	1/27/2010	2.5	2.17

Notes/Abbreviations:
Lead analyzed by EPA method 6010B
Fbg = feet below grade
ESL = Environmental screening levels for direct soil exposure in a residential setting from *Screening for environmental Concerns at Sites with Contaminated Soil and Groundwater* prepared by the California Regional Water Quality Control Board - San Francisco Bay Region Interim Final November 2007, Revised May 2008

DTSC Screening Level = Deparment of Toxic Substances Control soil screening level for lead in soil from *Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from termititcides, and Polychlorinated Biphenyls from Electrical Transformers* revised June 9, 2006
Bold = Concentration exceeds the more conservative screening level listed

TABLE 2

ORGANOCLORINE ANALYTICAL RESULTS IN SURFICIAL SOIL
FORMER CHEVRON STAION 20-6145
800 CENTER STREET, OAKALND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*Aldrin*	*Gamma BHC - Lindane*	*Alpha Chlordane*	*Chlordane*	*Gamma Chlordane*	*p,p-DDD*	*p,p-DDE*	*p,p-DDT*	*Dieldrin*	*Heptachlor*
			← *Reported in micrograms per kilogram (µg/kg)* →									
ESL - Residential Direct Exposure			***0.032***	***4.1***	***0.44***	***0.44***	***0.44***	***2.4***	***1.7***	***1.7***	***0.034***	***0.12***
DTSC Screening Level			***33***	***500***	***430***	***430***	***430***	***2,300***	***1,600***	***1,600***	***35***	***130***
SS-1	1/27/2010	0.0	<0.85	**4.3**	<2.8	<20	<4.1	**33**	**7.6**	**57**	<1.7	<0.85
SS-1	1/27/2010	0.5	<0.85	**4.5**	<1.3	<20	<0.94	**3.0**	**2.6**	<1.7	<1.7	<0.85
SS-1	1/27/2010	2.5	<0.17	<0.17	<0.24	<4.0	<0.23	<0.33	<0.33	<0.33	<0.33	<0.17
SS-2	1/27/2010	0.0	<0.85	**11**	**4.3**	**37**	**3.6**	**39**	**9.8**	**800**	**3.2**	<0.85
SS-2	1/27/2010	0.5	<0.17	<0.17	<0.45	<4.0	<0.47	<0.33	0.71	**4.3**	<0.33	<0.17
SS-2	1/27/2010	2.5	<0.17	<0.17	<0.40	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17
SS-3	1/27/2010	0.0	<0.85	**3.6**	<2.5	<20	**4.2**	**30**	**43**	**130**	**4.3**	<0.85
SS-3	1/27/2010	0.5	**1.2**	**15**	<3.0	<20	**6.4**	**5.7**	**10**	**70**	**2.8**	<0.85
SS-3	1/27/2010	2.5	<0.17	<0.17	<0.22	<4.0	<0.29	<0.33	<0.33	<0.33	<0.33	<0.17
SS-4	1/27/2010	0.0	<0.17	1.3	<0.18	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17
SS-4	1/27/2010	0.5	<0.17	1.3	<0.17	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17
SS-4	1/27/2010	2.5	<0.17	<0.17	<0.17	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17
SS-5	1/27/2010	0.0	**0.22**	0.63	**0.94**	**11**	**1.2**	0.34	<0.33	1	<0.33	<0.17
SS-5	1/27/2010	0.5	<0.17	0.32	<0.17	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17
SS-5	1/27/2010	2.5	<0.17	<0.17	<0.17	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17
SS-6	1/27/2010	0.0	**1.1**	<0.85	**28**	**140**	**18**	**11**	**46**	**87**	**75**	<0.85
SS-6	1/27/2010	0.5	<0.85	<0.85	**6.2**	**33**	**3.7**	**3.9**	**7.6**	**42**	**8.1**	<0.85
SS-6	1/27/2010	1.5	<0.85	2.1	**12**	<20	**12**	**11**	**19**	**200**	**7.2**	<0.85

TABLE 2

ORGANOCLORINE ANALYTICAL RESULTS IN SURFICIAL SOIL
FORMER CHEVRON STAION 20-6145
800 CENTER STREET, OAKALND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*Aldrin*	*Gamma BHC - Lindane*	*Alpha Chlordane*	*Chlordane*	*Gamma Chlordane*	*p,p-DDD*	*p,p-DDE*	*p,p-DDT*	*Dieldrin*	*Heptachlor*
			← *Reported in micrograms per kilogram (µg/kg)* →									
ESL - Residential Direct Exposure			***0.032***	***4.1***	***0.44***	***0.44***	***0.44***	***2.4***	***1.7***	***1.7***	***0.034***	***0.12***
DTSC Screening Level			***33***	***500***	***430***	***430***	***430***	***2,300***	***1,600***	***1,600***	***35***	***130***
SS-7	1/27/2010	0.0	<0.17	1.1	<0.17	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17
SS-7	1/27/2010	0.5	<0.17	1.1	<0.17	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17
SS-7	1/27/2010	2.0	<0.17	0.82	<0.17	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17
SS-8	1/27/2010	0.0	<0.17	0.74	<0.17	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17
SS-8	1/27/2010	0.5	<0.17	1.3	<0.17	<4.0	**2.8**	<0.33	0.84	**3.2**	**0.48**	<0.17
SS-9	1/27/2010	0.0	<0.17	0.99	<0.17	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17
SS-9	1/27/2010	0.5	<0.17	1.6	<0.17	<4.0	<0.17	0.83	<0.33	<0.33	<0.33	<0.17
SS-9	1/27/2010	1.5	<0.17	0.62	**1.7**	**18**	**1.9**	**2.7**	0.87	**2.3**	**0.89**	<0.17
SS-10	1/27/2010	0.0	**0.19**	2.0	<2.3	<44	**1.7**	1.3	1.6	**12**	**4.1**	**0.30**
SS-10	1/27/2010	0.5	<0.85	1.2	<3.3	<140	**2.0**	**5.2**	**5.3**	**51**	**9.1**	<0.85
SS-10	1/27/2010	2.5	<0.85	1.8	<5.8	<20	**2.5**	**2.5**	**30**	**86**	**17**	<0.85
SS-11	1/27/2010	0.0	<0.17	0.92	<0.17	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17
SS-11	1/27/2010	0.5	<0.17	0.95	<0.17	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17
SS-11	1/27/2010	1.5	<0.17	1.2	<0.17	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17
SS-12	1/27/2010	0.0	<0.17	0.41	<0.17	<4.0	0.30	<0.33	<0.33	**3.8**	**0.52**	<0.17
SS-12	1/27/2010	0.5	<0.17	0.18	<0.17	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17
SS-12	1/27/2010	2.5	<0.17	<0.17	<0.17	<4.0	<0.17	<0.33	<0.33	<0.33	<0.33	<0.17

TABLE 2

ORGANOCLORINE ANALYTICAL RESULTS IN SURFICIAL SOIL
FORMER CHEVRON STAION 20-6145
800 CENTER STREET, OAKALND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*Aldrin*	*Gamma BHC - Lindane*	*Alpha Chlordane*	*Chlordane*	*Gamma Chlordane*	*p,p-DDD*	*p,p-DDE*	*p,p-DDT*	*Dieldrin*	*Heptachlor*
			← *Reported in micrograms per kilogram (µg/kg)* →									
ESL - Residential Direct Exposure			***0.032***	***4.1***	***0.44***	***0.44***	***0.44***	***2.4***	***1.7***	***1.7***	***0.034***	***0.12***
DTSC Screening Level			***33***	***500***	***430***	***430***	***430***	***2,300***	***1,600***	***1,600***	***35***	***130***

Notes/Abbreviations:

Aldrin, gamma BHC-lindane, alpha chlordane, chlordane, gamma chlordane, p,p-DDD, p,p-DDE, p,p-DDT, dieldrin and heptachlore analyzed by EPA Method 8081A

Fbg = feet below grade

ESL = Environmental screening levels for direct soil exposure in a residential setting from *Screening for environmental Concerns at Sites with Contaminated Soil and Groundwater* prepared by the California Regional Water Quality Control Board - San Francisco Bay Region Interim Final November 2007, Revised May 2008

DTSC Screening Level = Deparment of Toxic Substances Control soil screening levels for discrete samples from *Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from termititcides, and Polychlorinated Biphenyls from Electrical Transformers* revised June 9, 2006

<x = not detected above laboratory method detection limit

Bold = Concentration exceeds the more conservative screening level listed

TABLE 3

PCB ANALYTICAL RESULTS IN SURFICIAL SOIL
FORMER CHEVRON STATION 20-6145
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*PCB-1016*	*PCB-1221*	*PCB-1232*	*PCB-1248*	*PCB-1254*	*PCB-1260*
			Reported in milligrams per kilogram (mg/kg)					
ESL - Residential Direct Exposure			*0.22*					
DTSC Screening Level			*0.300*					
SS-1	1/27/2010	0.0	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	0.080
SS-1	1/27/2010	0.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	0.030
SS-1	1/27/2010	2.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-2	1/27/2010	0.0	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	0.070
SS-2	1/27/2010	0.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-2	1/27/2010	2.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-3	1/27/2010	0.0	<0.0033	<0.0033	<0.0033	<0.0033	0.098	0.029
SS-3	1/27/2010	0.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	0.068
SS-3	1/27/2010	2.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-4	1/27/2010	0.0	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-4	1/27/2010	0.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-4	1/27/2010	2.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-5	1/27/2010	0.0	<0.0033	<0.0033	<0.0033	<0.0033	0.013	<0.0033
SS-5	1/27/2010	0.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-5	1/27/2010	2.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-6	1/27/2010	0.0	<0.017	<0.017	<0.017	<0.017	**0.48**	0.059
SS-6	1/27/2010	0.5	<0.0033	<0.0033	<0.0033	<0.0033	0.079	0.046
SS-6	1/27/2010	1.5	<0.0033	<0.0033	<0.0033	<0.0033	0.15	0.044
SS-7	1/27/2010	0.0	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-7	1/27/2010	0.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-7	1/27/2010	2.0	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-8	1/27/2010	0.0	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-8	1/27/2010	0.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	0.0057
SS-9	1/27/2010	0.0	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-9	1/27/2010	0.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-9	1/27/2010	1.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-10	1/27/2010	0.0	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	0.034
SS-10	1/27/2010	0.5	<0.0033	<0.0033	<0.0033	<0.0033	0.15	0.040
SS-10	1/27/2010	2.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-11	1/27/2010	0.0	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033

TABLE 3

PCB ANALYTICAL RESULTS IN SURFICIAL SOIL
FORMER CHEVRON STATION 20-6145
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*PCB-1016*	*PCB-1221*	*PCB-1232*	*PCB-1248*	*PCB-1254*	*PCB-1260*
			Reported in milligrams per kilogram (mg/kg)					
ESL - Residential Direct Exposure			*0.22*					
DTSC Screening Level			*0.300*					
SS-11	1/27/2010	0.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-11	1/27/2010	1.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-12	1/27/2010	0.0	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-12	1/27/2010	0.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
SS-12	1/27/2010	2.5	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033

Notes/Abbreviations:

Polychlorinated biphenyl (PCB)-1016, PCB-1221, PCB1232, PCB-1248, PCB-1254 and PCB-1260 analyzed by EPA Method 8082

Fbg = feet below grade

ESL = Environmental screening levels for direct soil exposure in a residential setting from *Screening for environmental Concerns at Sites with Contaminated Soil and Groundwater* prepared by the California Regional Water Quality Control Board - San Francisco Bay Region Interim Final November 2007, Revised May 2008

DTSC Screening Level = Deparment of Toxic Substances Control soil screening levels for discrete samples from *Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from termititcides, and Polychlorinated Biphenyls from Electrical Transformers* revised June 9, 2006

<x = not detected above laboratory method detection limit

Bold = Concentration exceeds the more conservative screening level listed