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Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Former Signal Oil Service Station No. 206145
800 Center Street
Oakland, CA

I have reviewed the following *Site Assessment Report and Site Conceptual Model*, dated June 27, 2014.

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 and Associates, upon whose 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,

Alexis Fischer
Project Manager

Attachment: Site Assessment Report and Site Conceptual Model

CONESTOGA-ROVERS & ASSOCIATES

10969 Trade Center Drive, Suite 107
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
www.CRAworld.com

June 27, 2014 Reference No. 312002

Mr. Mark Detterman, P.G., C.E.G.
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Site Assessment Report and Site Conceptual Model
Former Signal Oil Service Station 206145
800 Center Street
Oakland, California
Case No. RO454

Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) is submitting this *Site Assessment Report and Site Conceptual Model (SCM)* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company (Chevron). This work was undertaken to further assess the historic benzene concentrations in soil onsite that were above the screening levels for utility worker exposure limits and the residential and commercial/industrial volatilization to outdoor air exposure limits at 5 to 10 feet below grade (fbg). Additionally, a soil boring was advanced near the former used oil underground storage tank (UST) to collect naphthalene and poly-aromatic hydrocarbon (PAH) data.

Work was performed in accordance with previously submitted *Site Assessment Work Plan*, dated March 21, 2014. The ACEH approved the work plan in a letter dated March 27, 2014 (Attachment A). The site description and summary of previous work, site assessment work activities and results as well as conclusions and recommendations are presented below.

SITE DESCRIPTION

The site is a former Signal Oil gasoline service station located on the northeastern corner of 8th Street and Center Street in a mixed commercial and residential area of Oakland, California (Figures 1 and 2). A service station operated at the site from 1932 to 1973. The site is currently undeveloped and surrounded by a temporary chain-link fence. At this time, future use is unknown.

GEOLOGY AND HYDROGEOLOGY

The site is part of the Oakland sub-area of the East Bay Plain. Lithology beneath the site consists of Holocene and late Pleistocene alluvial fan deposits.[1] Local topography is relatively flat and the site is approximately 15 feet above mean sea level. Subsurface sediment encountered beneath the site consists primarily of medium permeability sand and silty sand to the maximum depth explored of 80 fbg; silt with clay is encountered between approximately 50 and 65 fbg.

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] provided by East Bay Municipal Utility District (EBMUD). Groundwater has been monitored at the site since 1995. The shallow water-bearing zone is monitored by wells installed at three different depth intervals, approximately 5 to 20 fbg, 35 to 40 fbg, and 55 to 60 fbg. Deeper screened wells have monitored groundwater since 2007. Historical depth to groundwater in the shallow screened wells ranges from approximately 3 to 13 fbg and in the deeper screened wells ranges from 7 to 19 fbg. Shallow

[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

[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.

and intermediate groundwater flows consistently toward the southwest. Deeper groundwater flow varies from southwest to northeast.

SUMMARY OF PREVIOUS WORK

UST HISTORY

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 (Figure 2). These USTs were removed in 1973 when the station was closed.

In 1999, Gettler-Ryan (G-R) was contracted to remove dispenser islands, sump, hydraulic hoist, building foundations, garbage enclosure, yard lights and asphalt. During station demolition activities, an orphaned 1,000-gallon gasoline UST, an orphaned 550-gallon used-oil UST, and a buried 55-gallon drum were encountered, and after UST ownership was established, the USTs and drum were removed in 2001.

Based on soil data, the primary source of hydrocarbons was the 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, G-R excavated approximately 1,600 tons of hydrocarbon-bearing soil to 12 to 14 fbg. Prior to backfilling the excavation, approximately 900 pounds of oxygen releasing compound was placed at the base of the excavation.

SITE ASSESSMENT HISTORY

Environmental investigation has been ongoing since 1989. To date, 17 monitoring wells, 8 air sparge wells, 58 soil borings, and 11 soil vapor probes have been installed/advanced at and near the site (Figure 2). A remedial excavation was completed in 2002 removing approximately 1,600 tons of soil, and a low flow air sparge pilot test was conducted from January through April 2011. Groundwater is currently monitored by 8 onsite and offsite monitoring wells.

SITE ASSESSMENT WORK ACTVITIES

Soil Boring Advancement and Soil Sampling

Seven soil borings CB-1 through CB-7 (Figure 2) were advanced on May 21, 2014, by Vapor Tech Services (VTS), of Hayward, California (C-57 No. 916085) under CRA's supervision in accordance with Alameda County Public Works Agency (ACPWA) Water Resources Well Permit number W2014-0496 (Attachment B). Once each soil boring was hand cleared (using a hand auger) to 5.5 feet below grade (fbg) the borings were advanced by using two-inch diameter direct push rods with Macrocore® sampling liners to total depths of 9.5 fbg. Soil samples were screened at one-foot intervals by photo-ionization detector (PID) and the soil was continuously logged. Soil samples were collected at 9 fbg from soil borings CB-2, CB-3 and CB-5 to confirm historically high benzene and ethylbenzene concentrations. In addition, samples were collected at various depths between 2 and 9 fbg for chemical analyses based on PID readings. Soil samples showed no obvious visual signs of hydrocarbon impact.

The soil samples collected were capped with Teflon and plastic end caps, labeled, and placed on ice. Soil encountered during drilling is generally consistent with soil encountered during previous investigations. Silty sand with gravel (fill) was encountered at ground surface to a depth of approximately 1 fbg. Underlying the fill, sand with silt and silty sands were encountered to the total explored depth of 9.5 fbg. Boring logs are included as Attachment C.

Soil Laboratory Analysis

The soil samples were shipped under chain-of-custody (COC) to Eurofins Lancaster Laboratories (Lancaster) in Lancaster, Pennsylvania. The laboratory analytical report for the soil samples is included as Attachment D, and the analytical results are summarized in Tables 1 and 2. Soil samples were analyzed for the following:

- Benzene and ethylbenzene by EPA Method 8260B
- Naphthalene by EPA Method 8270C (detection limit less than 10 milligrams per kilogram [mg/kg])

- PAHs by EPA Method 8270C

Soil Analytical Results

- Benzene was detected in all samples with concentrations ranging from 0.0006 mg/kg (CB-7 @ 4.5 fbg) to 49 mg/kg (CB-2 @ 9 fbg).
- Ethylbenzene was detected in eleven of thirteen soil samples collected with concentrations ranging from 0.006 mg/kg (CB-4 @ 4 fbg) to 330 mg/kg (CB-3 @ 9 fbg).
- Naphthalene was detected in twelve of thirteen soil samples collected with concentrations ranging from 0.005 mg/kg (CB-4 @ 4 fbg) to 58 mg/kg (CB-5 @ 9 fbg).
- Benzo (a) pyrene was only detected from boring CB-3 at a concentration of 0.004 mg/kg. The remaining PAH constituent data are presented in Table 2.

Three soil borings were placed adjacent to historic boring locations in order to compare the benzene and ethylbenzene concentrations at similar depths. The table below shows the current boring samples compared to the historic boring samples. Adjacent samples are denoted by shading.

Boring ID	***Date***	***Depth (fbg)***	***Benzene***	***Ethylbenzene***
			mg/kg	
CB-2	5/21/2014	9	49	300
SW-4	11/18/2002	10	91	440
CB-3	5/21/2014	9	32	330
G-30	1/29/2003	10	92	480
CB-5	5/21/2014	9	28	280
G-29	1/29/2003	10	39	160

With the exception of ethylbenzene concentrations detected at CB-5, benzene and ethylbenzene concentrations have generally declined during the last 10 years.

The most recent soil data were compared to the Low-Threat Criteria for Direct Contact and Outdoor Air Exposure in the table below.

	POLICY CRITERIA					SITE DATA	
	Residential		*Commercial/Industrial*		*Utility Worker*	*Maximum Site Concentration*	
Constituent	*0–5 fbg (mg/kg)*	*Volatilization to outdoor air 5–10 fbg (mg/kg)*	*0–5 fbg (mg/kg)*	*Volatilization to outdoor air 5–10 fbg (mg/kg)*	*0–10 fbg (mg/kg)*	*0–5 fbg (mg/kg)*	*5–10 fbg (mg/kg)*
Benzene	1.9	2.8	8.2	12	14	0.002	49
Ethylbenzene	21	32	89	134	314	0.006	330
Naphthalene	9.7	9.7	45	45	219	0.006	58
PAHs*	0.063	NA	0.68	NA	4.5	<0.003	0.029**

* Based on the seven carcinogenic polycyclic aromatic hydrocarbons (PAHs) as benzo(a)pyrene toxicity equivalent [BaPe]. The PAH screening level is only applicable where soil is affected by either waste oil and/or Bunker C fuel.
NA = not applicable
** Chrysene in CB-5 at 9 fbg

CONCLUSIONS AND RECOMMENDATIONS

Current soil data meets the low-threat criteria for direct contact and outdoor air exposure for soil from 0 to 5 fbg for benzene, ethylbenzene, naphthalene and PAHs, and the data gap has been closed for soil analyses adjacent to the waste oil UST. However, the most current soil data exceed the low-threat criteria for benzene, ethylbenzene, and naphthalene concentrations in soil from 5 to 10 fbg for the residential, commercial/industry and utility worker direct contact and volitization to outdoor air values. Because recent shallow soil vapor data indicate that there is no indoor inhalation risk to residential receptors at this site, the pathway of volatilization to outdoor air is incomplete. The only viable exposure pathway at this site is direct contact to hydrocarbon-bearing soil by future construction trench workers.

As requested by ACEH, an updated SCM is included as Attachment E. The data needed to characterize this site against the Low Threat Closure Criteria has been collected, and additional data gaps are not evident. CRA will address the impediments to closure identified in the Path to Closure Plan by the ACEH and will prepare a site management plan to address concerns of contact of hydrocarbon-bearing soil and soil gas by future construction/trench workers.

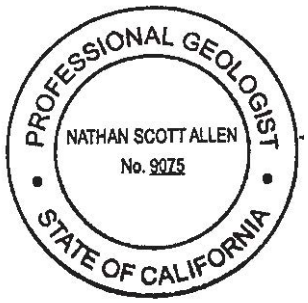
CONESTOGA-ROVERS & ASSOCIATES

June 27, 2014 Reference No. 312002

Please contact CRA Project Manager Nate Allen at (916) 889-8929 if you have any questions or need any additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES



Nate Allen, P.G. 9075

BJS/mws/31
Encl.

Figure 1	Vicinity Map
Figure 2	Site Plan
Table 1	Cumulative Soil Analytical Data
Table 2	Soil Analytical Data – Poly-Aromatic Hydrocarbons

Attachment A	ACEH Correspondence
Attachment B	Boring Permit
Attachment C	Boring Logs
Attachment D	Laboratory Analytical Results
Attachment E	Updated SCM

cc: Ms. Alexis Fischer, Chevron *(electronic copy)*

FIGURES

SOURCE: USGS QUADRANGLE MAP: OAKLAND WEST, CA.

Figure 1

VICINITY MAP
FORMER SIGNAL OIL SERVICE STATION 206145
800 CENTER STREET
Oakland, California

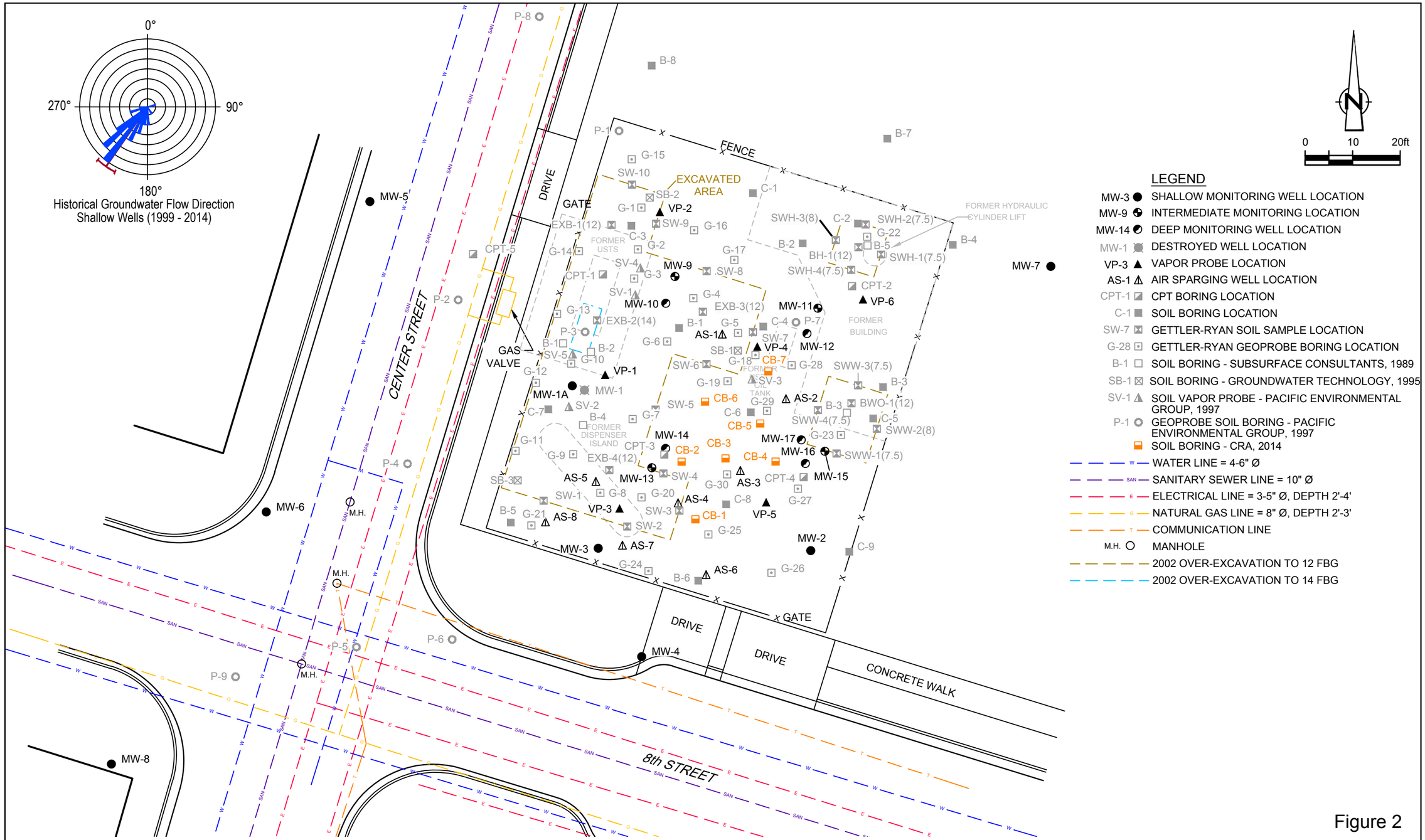


Figure 2

SITE PLAN
FORMER SIGNAL OIL SERVICE STATION 206145
800 CENTER STREET
Oakland, California

312002-2014.2(031)GN-WA002 JUN 23/2014

TABLES

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION 206145
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*	*TVH*	*THE*
	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	83	83
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	450	450
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	4,200	4,200
B-1	8/18/1989	10	<100	---	50	220	46	240	---	---	---	---	---	---	---	---	---	2,100	6,800
B-1	8/18/1989	15	---	---	32	200	60	290	---	---	---	---	---	---	---	---	---	2,400	---
B-2	8/18/1989	7	<100	---	50	450	130	540	---	---	---	---	---	---	---	---	---	4,100	14,000
B-2	8/18/1989	11.5	---	---	500	2,800	760	3,700	---	---	---	---	---	---	---	---	---	31,000	---
B-3	8/18/1989	3.5	<10	---	---	---	---	---	---	---	---	---	---	<50	---	---	**	---	---
B-3	8/18/1989	10.5	<10	---	ND	2	2	7	---	---	---	---	---	---	---	---	---	100	ND
B-3	8/18/1989	12.5	<10	---	ND	44	32	130	---	---	---	---	---	---	---	---	---	950	220
B-4	8/18/1989	7.35	<100	---	57	250	140	610	---	---	---	---	---	---	---	---	---	5,400	5,100
B-4	8/18/1989	10.5	---	---	92	360	1,100	670	---	---	---	---	---	---	---	---	---	5,800	---
B-5	8/18/1989	3.5	---	---	---	---	---	---	---	---	---	---	---	16,000	---	---	---	---	---
MW-1	10/17/1995	5	--	11	0.091	0.49	0.14	1.9	--	--	--	--	--	--	--	--	--	--	--
MW-1	10/17/1995	10	--	14,000	120	800	270	1,300	--	--	--	--	--	--	--	--	--	--	--
MW-2	10/17/1995	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---
MW-2	10/17/1995	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---
MW-3	10/17/1995	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---
MW-3	10/17/1995	10	---	<1.0	**0.24**	0.010	0.016	0.019	--	--	--	--	--	--	--	--	--	---	---
MW-4	10/18/1995	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---
MW-4	10/18/1995	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---
SB-1	10/17/1995	5	---	87	0.34	1.2	1.2	1.3	--	--	--	--	--	--	--	--	--	--	--
SB-1	10/17/1995	10	---	8,100	72	640	240	1,100	--	--	--	--	--	--	--	--	--	--	--
SB-2	10/17/1995	5	---	240	0.19	4.8	5.1	26	--	--	--	--	--	--	--	--	--	--	--
SB-2	10/17/1995	10	---	4,700	28	440	150	630	--	--	--	--	--	--	--	--	--	--	--

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION 206145
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*	*TVH*	*THE*
	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	83	83
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	450	450
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	4,200	4,200
~~SB-3~~	~~10/18/1995~~	~~5~~	~~---~~	~~<1.0~~	~~<0.0050~~	~~0.019~~	~~0.0087~~	~~0.049~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~SB-3~~	~~10/18/1995~~	~~10~~	~~---~~	~~<1.0~~	~~<0.0050~~	~~<0.0050~~	~~<0.0050~~	~~<0.0050~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
P-1	3/22/1996	6	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	--	--	--	--	--	--	--	--	--	--
P-1	3/22/1996	10	--	**510**	<0.5	**18**	**9.7**	**46**	<2.5	--	--	--	--	--	--	--	--	--	--
P-1	3/22/1996	17	--	<1.0	<0.0050	<0.0050	0.0080	0.0090	<0.025	--	--	--	--	--	--	--	--	--	--
P-2	3/22/1996	6	--	**4,000**	<4.0	**120**	**71**	**330**	<20	--	--	--	--	--	--	--	--	--	--
~~P-3~~	~~3/22/1996~~	~~10~~	~~--~~	~~13,000~~	~~38~~	~~780~~	~~280~~	~~1,400~~	~~<50~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
P-3	3/22/1996	16	--	**5,400**	**41**	**310**	**110**	**1,400**	<20	--	--	--	--	--	--	--	--	--	--
P-3	3/22/1996	20	--	260	**3.7**	**21**	**6.2**	**27**	<0.62	--	--	--	--	--	--	--	--	--	--
P-7	3/22/1996	6	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	--	--	--	--	--	--	--	--	--	--
P-7	3/22/1996	10	--	1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	--	--	--	--	--	--	--	--	--	--
P-7	3/22/1996	15	--	13	<0.0050	0.31	0.15	0.71	<0.025	--	--	--	--	--	--	--	--	--	--
P-8	3/22/1996	6	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	--	--	--	--	--	--	--	--	--	--
P-8	3/22/1996	12	--	<1.0	<0.0050	0.0068	<0.0050	<0.0050	<0.025	--	--	--	--	--	--	--	--	--	--
MW-5	12/18/1996	5	---	<1.0	<0.0050	0.016	0.0083	0.046	--	--	--	--	--	--	--	--	--	---	---
MW-5	12/18/1996	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---
MW-5	12/18/1996	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---
MW-6	12/18/1996	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---
MW-6	12/18/1996	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---
MW-6	12/18/1996	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---
MW-7	12/18/1996	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---
MW-7	12/18/1996	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---
MW-7	12/18/1996	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---

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Sample ID	*Date*	*Depth (fbg)*	*TPHd*	*TPHg*	*Benzene*	*Toluene*	*Ethyl-benzene*	*Total Xylenes*	*MTBE*	*1,2-DCA*	*EDB*	*TPHmo*	*TPHho*	*TOG*	*VOC*	*SVOC*	*Metals*	*TVH*	*THE*
	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	83	83
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	450	450
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	4,200	4,200
Boring MW-8	12/18/1996	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---
Boring MW-8	12/18/1996	10	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---
Boring MW-8	12/18/1996	15	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--	--	--	---	---
~~SV-1~~	~~5/30/1997~~	~~3~~	~~--~~	~~<1.0~~	~~<0.0050~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~SV-1~~	~~5/30/1997~~	~~6~~	~~--~~	~~2,100~~	~~<2.5~~	~~46~~	~~57~~	~~300~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~SV-1~~	~~5/30/1997~~	~~8.5~~	~~--~~	~~7,600~~	~~52~~	~~360~~	~~140~~	~~720~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~SV-2~~	~~5/30/1997~~	~~3.5~~	~~--~~	~~<1.0~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~SV-2~~	~~5/30/1997~~	~~6~~	~~--~~	~~11~~	~~<0.005~~	~~0.009~~	~~0.01~~	~~0.057~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~SV-2~~	~~5/30/1997~~	~~9~~	~~--~~	~~8,000~~	~~12~~	~~420~~	~~150~~	~~710~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
SV-3	5/30/1997	3	--	1.4	<0.005	0.029	0.014	0.1	--	--	--	--	--	--	--	--	--	--	--
SV-3	5/30/1997	6	--	**84**	**0.13**	0.28	1.4	1.9	--	--	--	--	--	--	--	--	--	--	--
SV-3	5/30/1997	9	--	**3,200**	**5.8**	**130**	**83**	**340**	--	--	--	--	--	--	--	--	--	--	--
~~SV-4~~	~~5/30/1997~~	~~3~~	~~--~~	~~<1.0~~	~~<0.005~~	~~0.0058~~	~~<0.005~~	~~0.01~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~SV-4~~	~~5/30/1997~~	~~6~~	~~--~~	~~1.3~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	~~<0.05~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~SV-4~~	~~5/30/1997~~	~~9~~	~~--~~	~~10,000~~	~~86~~	~~470~~	~~210~~	~~960~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~SV-5~~	~~5/30/1997~~	~~3~~	~~--~~	~~<1.0~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~SV-5~~	~~5/30/1997~~	~~6~~	~~--~~	~~<1.0~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~SV-5~~	~~5/30/1997~~	~~9~~	~~--~~	~~79,000~~	~~20~~	~~410~~	~~130~~	~~690~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~A-1~~	~~4/12/2001~~	~~8.5~~	~~--~~	~~630~~	~~10~~	~~4.4~~	~~15~~	~~48~~	~~<5.0~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~A-2~~	~~4/12/2001~~	~~8.5~~	~~--~~	~~32~~	~~0.11~~	~~0.04~~	~~0.37~~	~~0.98~~	~~0.38~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~WOT~~	~~4/12/2001~~	~~8~~	~~3.2~~	~~10~~	~~0.0092~~	~~0.04~~	~~0.058~~	~~0.24~~	~~0.058~~	~~--~~	~~--~~	~~--~~	~~--~~	~~110~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
MW-8	1/9/2002	11	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	---	---
MW-8	1/9/2002	15	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	---	---
MW-8	1/9/2002	20	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	---	---

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION 206145
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*	*TVH*	*THE*
	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	83	83
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	450	450
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	4,200	4,200
G-1	6/21/2002	5	---	3,000	0.95	46	52	240	--	--	--	--	--	--	--	--	--	---	---
G-1	6/21/2002	10	---	12,000	31	660	290	1,100	--	--	--	--	--	--	--	--	--	---	---
G-2	6/21/2002	5	---	2,700	2.8	84	77	310	--	--	--	--	--	--	--	--	--	---	---
G-2	6/21/2002	10	---	3,800	7.5	200	120	500	--	--	--	--	--	--	--	--	--	---	---
G-3	6/21/2002	5	---	<1.0	0.0059	0.049	0.016	0.057	--	--	--	--	--	--	--	--	--	---	---
G-3	6/21/2002	10	---	7,700	19	520	290	1,100	--	--	--	--	--	--	--	--	--	---	---
G-4	6/21/2002	5	---	<1.0	<0.0050	0.021	0.0056	0.027	--	--	--	--	--	--	--	--	--	---	---
G-4	6/21/2002	10	---	3,300	3.5	140	120	480	--	--	--	--	--	--	--	--	--	---	---
G-5	6/21/2002	5	---	7.1	<0.0050	0.041	0.022	0.064	--	--	--	--	--	--	--	--	--	---	---
G-5	6/21/2002	10	---	45	0.062	0.58	0.62	2.4	--	--	--	--	--	--	--	--	--	---	---
G-6	6/21/2002	5	---	<1.0	<0.0050	0.0069	0.0054	0.022	--	--	--	--	--	--	--	--	--	---	---
G-6	6/21/2002	10	---	6,300	19	360	190	900	--	--	--	--	--	--	--	--	--	---	---
G-7	6/21/2002	5	---	<1.0	0.0057	0.045	0.012	0.046	--	--	--	--	--	--	--	--	--	---	---
G-7	6/21/2002	10	---	7,300	18	420	250	1,100	--	--	--	--	--	--	--	--	--	---	---
G-8	6/21/2002	5	---	7,100	8.4	280	210	960	--	--	--	--	--	--	--	--	--	---	---
G-8	6/21/2002	10	---	16,000	69	1,100	470	1,900	--	--	--	--	--	--	--	--	--	---	---
G-9	6/21/2002	5	---	3,700	1.9	54	57	350	--	--	--	--	--	--	--	--	--	---	---
G-9	6/21/2002	10	---	19,000	83	1,200	520	2,200	--	--	--	--	--	--	--	--	--	---	---
G-10	6/21/2002	5	---	<1.0	0.014	0.073	0.012	0.052	--	--	--	--	--	--	--	--	--	---	---
G-10	6/21/2002	10	---	2,100	1.4	32	52	270	--	--	--	--	--	--	--	--	--	---	---
G-11	6/21/2002	5	---	<1.0	<0.0050	0.035	0.019	0.084	--	--	--	--	--	--	--	--	--	---	---
G-11	6/21/2002	10	---	100	<0.080	0.43	0.53	3.1	--	--	--	--	--	--	--	--	--	---	---
G-12	6/21/2002	5	---	<1.0	<0.0050	0.034	0.010	0.057	--	--	--	--	--	--	--	--	--	---	---
G-12	6/21/2002	10	---	9,000	50	540	240	1,200	--	--	--	--	--	--	--	--	--	---	---
G-13	6/21/2002	5	---	<1.0	<0.0050	0.0062	<0.0050	0.019	--	--	--	--	--	--	--	--	--	---	---
G-13	6/21/2002	10	---	12,000	56	600	290	1,400	--	--	--	--	--	--	--	--	--	---	---
G-14	6/21/2002	5	---	3,900	<20	190	120	510	--	--	--	--	--	--	--	--	--	---	---
G-14	6/21/2002	10	---	14,000	65	940	400	1,700	--	--	--	--	--	--	--	--	--	---	---

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION 206145
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*	*TVH*	*THE*
			Milligrams Per Kilogram (mg/kg)																
	ESLs																		
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	83	83
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	450	450
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	4,200	4,200
G-15	6/21/2002	5	---	<1.0	<0.0050	0.020	<0.0050	0.017	<0.050	--	--	--	--	--	--	--	22.5d	---	---
G-15	6/21/2002	10	---	**5,800**	**12**	**320**	**110**	**450**	31	--	--	--	--	--	--	--	6.5d	---	---
G-16	6/21/2002	5	---	<1.0	<0.0050	0.015	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	2.4d	---	---
G-16	6/21/2002	10	---	**2,100**	**5.1**	**110**	**52**	**230**	11	--	--	--	--	--	--	--	6.5d	---	---
G-17	6/21/2002	5	---	35	**0.082**	0.78	0.54	1.2	0.22	--	--	--	--	--	--	--	368d	---	---
G-17	6/21/2002	10	---	**420**	**0.62**	**9.2**	**9.9**	**41**	<5.0	--	--	--	--	--	--	--	5.7d	---	---
G-18	6/21/2002	5	---	81	**0.11**	1.1	0.76	**2.6**	<0.20	--	--	--	--	--	--	--	3.7d	---	---
G-18	6/21/2002	10	---	**1,700**	**4.9**	**68**	**51**	**220**	<5.0	--	--	--	--	--	--	--	5d	---	---
G-19	6/21/2002	5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	2.6d	---	---
G-19	6/21/2002	10	---	**4,500**	**20**	**230**	**110**	**450**	<5.0	--	--	--	--	--	--	--	5.8d	---	---
~~G-20~~	~~6/21/2002~~	~~5~~	~~---~~	~~1,700~~	~~3.2~~	~~31~~	~~30~~	~~140~~	<5.0	--	--	--	--	--	--	--	4.3d	---	---
~~G-20~~	~~6/21/2002~~	~~10~~	~~---~~	~~6,900~~	~~26~~	~~360~~	~~200~~	~~870~~	<20	--	--	--	--	--	--	--	5.1d	---	---
G-21	6/21/2002	5	---	<1.0	<0.0050	0.016	<0.0050	0.016	<0.50	--	--	--	--	--	--	--	4.2d	---	---
G-21	6/21/2002	10	---	1.0	0.0091	0.18	0.055	0.23	<0.50	--	--	--	--	--	--	--	44.0d	---	---
G-22[1]	6/21/2002	2.5,5,7.5,10	---	---	**0.063**	0.47	0.28	2	<0.50	--	--	--	--	--	--	--	--	---	---
G-23[1]	6/21/2002	2.5,5,7.5,10	---	<1.0	<0.0050	0.012	<0.0050	0.017	<0.050	--	--	--	--	--	--	--	--	---	---
SW-1	11/15/2002	5	<10	<1.0	<0.0050	0.0073	<0.0050	0.017	--	--	--	--	--	--	--	--	--	---	---
SW-1	11/15/2002	10	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--	---	---
SW-2	11/18/2002	5	<10	<1.0	<0.0050	0.0088	<0.0050	<0.015	--	--	--	--	--	--	--	--	--	---	---
SW-2	11/18/2002	10	**1,600**	**2,800**	**2.5**	**75**	**52**	**250**	--	--	--	--	--	--	--	--	--	---	---
SW-3	11/18/2002	5	<10	<1.0	<0.0050	0.0089	<0.0050	0.021	--	--	--	--	--	--	--	--	--	---	---
SW-3	11/18/2002	10	**1,200**	**7,300**	**19**	**330**	**170**	**650**	--	--	--	--	--	--	--	--	--	---	---
SW-4	11/18/2002	5	<10	<1.0	<0.0050	0.0081	<0.0050	<0.015	--	--	--	--	--	--	--	--	--	---	---
SW-4	11/18/2002	10	**3,400**	**18,000**	**91**	**1,200**	**440**	**1,900**	--	--	--	--	--	--	--	--	--	---	---
SW-5	11/16/2002	5	<10	<1.0	0.0072	0.039	0.0057	0.022	--	--	--	--	--	--	--	--	--	---	---
SW-5	11/16/2002	10	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--	---	---

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION 206145
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*	*TVH*	*THE*
	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	83	83
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	450	450
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	4,200	4,200
SW-6	11/16/2002	5	**110**	4.1	0.0084	0.15	0.079	0.41	--	--	--	--	--	--	--	--	--	---	---
SW-6	11/16/2002	10	**920**	**3,900**	**7.3**	**140**	**110**	**450**	--	--	--	--	--	--	--	--	--	---	---
SW-7	11/15/2002	5	<10	<1.0	<0.0050	0.011	<0.0050	<0.015	--	--	--	--	--	--	--	--	--	---	---
SW-7	11/15/2002	10	**700**	**4,800**	**11**	**250**	**130**	**540**	--	--	--	--	--	--	--	--	--	---	---
SW-8	11/15/2002	5	<10	<1.0	<0.0050	0.016	<0.0050	<0.015	--	--	--	--	--	--	--	--	--	---	---
SW-8	11/15/2002	10	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--	---	---
SW-9	11/15/2002	5	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--	---	---
SW-9	11/15/2002	10	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--	---	---
SW-10	11/15/2002	5	<10	<1.0	<0.0050	<0.0050	<0.0050	<0.015	--	--	--	--	--	--	--	--	--	---	---
SW-10	11/15/2002	10	**240**	**570**	<0.10	0.66	**3.7**	**21**	--	--	--	--	--	--	--	--	--	---	---
EXB-1	11/14/2002	12	**1,100**	**4,000**	**25**	**230**	**87**	**380**	--	--	--	--	--	--	--	--	--	---	---
EXB-2	11/15/2002	14	**270**	**1,900**	**7.3**	**71**	**42**	**200**	--	--	--	--	--	--	--	--	--	---	---
EXB-3	11/16/2002	12	**920**	**3,400**	**9.5**	**170**	**86**	**370**	--	--	--	--	--	--	--	--	--	---	---
EXB-4	11/16/2002	12	**1,100**	**6,900**	**22**	**310**	**150**	**640**	--	--	--	--	--	--	--	--	--	---	---
SWH-1	11/16/2002	7.5	--	--	--	--	--	--	--	--	--	<10	<10	--	--	--	--	---	---
SWH-2	11/16/2002	7.5	--	--	--	--	--	--	--	--	--	<10	<10	--	--	--	--	---	---
SWH-3	11/16/2002	8	--	--	--	--	--	--	--	--	--	<10	<10	--	--	--	--	---	---
SWH-4	11/16/2002	7.5	--	--	--	--	--	--	--	--	--	<10	<10	--	--	--	--	---	---
BH-1	11/16/2002	12	--	--	--	--	--	--	--	--	--	<10	<10	--	--	--	--	---	---
SWW-1	11/18/2002	7.5	--	--	--	--	--	--	--	--	--	--	--	<230	--	--	--	---	---
SWW-2	11/18/2002	8	--	--	--	--	--	--	--	--	--	--	--	<230	--	--	--	---	---
SWW-3	11/18/2002	7.5	--	--	--	--	--	--	--	--	--	--	--	<230	--	--	--	---	---
SWW-4	11/18/2002	7.5	--	--	--	--	--	--	--	--	--	--	--	<230	--	--	--	---	---
BWO-1	11/18/2002	12	<10	<1.0	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	--	--	<230	ND [a]	ND [b]	c	---	---

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION 206145
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*	*TVH*	*THE*
			Milligrams Per Kilogram (mg/kg)																
	ESLs																		
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	83	83
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	450	450
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	4,200	4,200
G-24	1/29/2003	5	52	<1.0	<0.0050	0.012	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	---	---
G-24	1/29/2003	10	<10	<1.0	0.0074	0.014	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	---	---
G-24	1/29/2003	15	<10	<1.0	0.026	0.012	0.0096	<0.015	<0.050	--	--	--	--	--	--	--	--	---	---
G-25	1/29/2003	5	53	<1.0	<0.0050	0.0095	<0.0050	<0.015	<0.050	--	--	--	--	--	--	--	--	---	---
G-25	1/29/2003	10	**1,400**	**8,800**	**27**	**560**	**290**	**1,200**	--	--	--	--	--	--	--	--	--	---	---
G-25	1/29/2003	15	**350**	**1,200**	**8.5**	**90**	**35**	**140**	16	--	--	--	--	--	--	--	--	---	---
G-26	1/29/2003	5	<10	2.2	<0.0050	0.020	0.0076	0.036	--	--	--	--	--	--	--	--	--	---	---
G-26	1/29/2003	10	<10	<1.0	<0.0050	0.0092	<0.0050	<0.015	--	--	--	--	--	--	--	--	--	---	---
G-26	1/29/2003	15	<10	2.2	0.0092	<0.020	0.019	0.031	--	--	--	--	--	--	--	--	--	---	---
G-27	1/29/2003	5	<10	<1.0	<0.0050	0.020	<0.0050	0.018	--	--	--	--	--	--	--	--	--	---	---
G-27	1/29/2003	10	**1,600**	**5,500**	**13**	**250**	**180**	**700**	--	--	--	--	--	--	--	--	--	---	---
G-27	1/29/2003	15	**170**	**10,000**	**58**	**790**	**350**	**1,300**	--	--	--	--	--	--	--	--	--	---	---
G-28	1/29/2003	5	<10	<1.0	0.0054	0.030	0.0063	0.026	--	--	--	--	--	--	--	--	--	---	---
G-28	1/29/2003	10	<10	16	0.027	0.096	0.056	0.28	--	--	--	--	--	--	--	--	--	---	---
G-28	1/29/2003	15	<10	**620**	**2.3**	**34**	**17**	**71**	--	--	--	--	--	--	--	--	--	---	---
G-29	1/29/2003	5	<10	<1.0	<0.0050	0.021	0.0057	0.021	--	--	--	--	--	--	--	--	--	---	---
G-29	1/29/2003	10	**410**	**5,200**	**39**	**380**	**160**	**640**	--	--	--	--	--	--	--	--	--	---	---
G-29	1/29/2003	15	**1,100**	**4,800**	**14**	**290**	**170**	**670**	--	--	--	--	--	--	--	--	--	---	---
G-30	1/29/2003	5	<10	7.1	0.014	0.25	0.14	0.70	--	--	--	--	--	--	--	--	--	---	---
G-30	1/29/2003	10	**1,600**	**16,000**	**92**	**1,000**	**480**	**1,900**	--	--	--	--	--	--	--	--	--	---	---
G-30	1/29/2003	15	**500**	**3,500**	**27**	**210**	**85**	**370**	--	--	--	--	--	--	--	--	--	---	---
MW-1A	1/29/2003	16	<10	<1.0	0.013	0.033	0.0087	0.027	--	--	--	--	--	--	--	--	--	---	---

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION 206145
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*	*TVH*	*THE*
			Milligrams Per Kilogram (mg/kg)																
	ESLs																		
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	83	83
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	450	450
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	4,200	4,200
CPT-1	10/6/2004	10.5	**860**	**5,300**	**10**	**230**	**92**	**460**	<0.62	<1.2	<1.2	--	--	--	--	--	--	---	---
CPT-1	10/6/2004	14.5	<10	2.0	0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-1	10/6/2004	25.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-1	10/6/2004	29.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-1	10/6/2004	35	<10	<1.0	0.0005	0.005	0.004	0.023	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-1	10/6/2004	40	<10	<1.0	0.01	0.098	0.040	0.20	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-2	10/6/2004	5	**560**	<4.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-2	10/7/2004	10.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-2	10/7/2004	14.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-2	10/7/2004	20.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-2	10/7/2004	25.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-2	10/7/2004	29.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-2	10/7/2004	35.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-2	10/7/2004	40.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-3	10/12/2004	10.5	**890**	**9,000**	**1.9**	**200**	**130**	**660**	<0.25	<0.50	<0.50	--	--	--	--	--	--	---	---
CPT-3	10/12/2004	15.5	<10	18	**0.094**	0.028	0.34	0.31	<0.003	<0.005	<0.005	--	--	--	--	--	--	---	---
CPT-3	10/12/2004	20.5	<10	14	0.002	0.003	0.01	0.025	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-3	10/12/2004	25.5	<10	1.3	0.001	0.009	0.001	0.005	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-3	10/12/2004	29.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-3	10/12/2004	35.5	<10	3.3	0.013	0.031	<0.001	0.11	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-3	10/12/2004	40.5	<10	4.5	0.008	0.032	0.002	0.13	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION 206145
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*	*TVH*	*THE*
			Milligrams Per Kilogram (mg/kg)																
	ESLs																		
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	83	83
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	450	450
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	4,200	4,200
CPT-4	10/6/2004	5	46	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-4	10/8/2004	10.5	<10	1.2	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-4	10/8/2004	14.5	<10	<1.0	<0.0005	0.005	0.001	0.005	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-4	10/8/2004	20.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-4	10/8/2004	25.5	<10	<1.0	<0.0005	0.002	<0.001	0.002	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-4	10/8/2004	29.5	<10	<1.0	<0.0005	0.004	0.001	0.005	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-4	10/8/2004	35.5	<10	<1.0	<0.0005	0.001	<0.001	0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-4	10/8/2004	40.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-5	10/11/2004	5	<10	1.5	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-5	10/11/2004	9.5	**530**	**7,200**	**13**	**260**	**100**	**550**	<0.25	<0.50	**1.5**	--	--	--	--	--	--	---	---
CPT-5	10/11/2004	15.5	<10	**140**	<0.063	<0.13	<0.13	0.13	<0.063	<0.13	<0.13	--	--	--	--	--	--	---	---
CPT-5	10/11/2004	25.5	22	7.6	**0.081**	0.75	0.12	0.74	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-5	10/11/2004	29.5	<10	13	0.0005	0.005	0.002	0.010	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-5	10/11/2004	35.5	<10	<1.0	<0.0005	0.006	0.003	0.015	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-5	10/11/2004	50.5	<10	4.8	<0.0005	0.003	0.002	0.010	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
CPT-5	10/11/2004	69.5	<10	<1.0	<0.0005	0.001	<0.001	0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-1	11/1/2004	5	<10	2.8	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-1	11/1/2004	10	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-1	11/1/2004	15	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-1	11/1/2004	20	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-1	11/1/2004	24.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-2	11/1/2004	5	**450**	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-2	11/1/2004	10	67	<1.0	<0.0005	0.002	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-2	11/1/2004	15	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-2	11/1/2004	20	13	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-2	11/1/2004	24.5	<10	<1.0	<0.0005	0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION 206145
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*	*TVH*	*THE*
	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	83	83
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	450	450
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	4,200	4,200
C-3	11/1/2004	10	**640**	**4,800**	**0.75**	**94**	**66**	**310**	<0.63	<1.3	<1.3	--	--	--	--	--	--	---	---
C-3	11/1/2004	15	22	9.7	<0.001	<0.002	0.003	0.005	<0.001	<0.002	<0.002	--	--	--	--	--	--	---	---
C-3	11/1/2004	20	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-3	11/1/2004	24.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-4	11/1/2004	5	**160**	9.2	0.001	0.008	<0.001	0.003	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-4	11/2/2004	10	**1,000**	**6,300**	**11**	**410**	**200**	**780**	<0.63	<1.3	<1.3	--	--	--	--	--	--	---	---
C-4	11/2/2004	15	<10	3.1	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-4	11/2/2004	20	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-4	11/2/2004	24.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-5	11/1/2004	5	**160**	1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-5	11/2/2004	10	**330**	2.3	<0.0005	0.002	<0.001	0.002	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-5	11/2/2004	15	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-5	11/2/2004	20	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-5	11/2/2004	24.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-6	11/2/2004	10	**94**	**880**	<0.063	**3.8**	**6.9**	**36**	<0.063	<0.13	<0.13	--	--	--	--	--	--	---	---
C-6	11/2/2004	15	<10	27	<0.002	<0.005	0.11	0.052	<0.002	<0.005	<0.005	--	--	--	--	--	--	---	---
C-6	11/2/2004	20	<10	4.3	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-6	11/2/2004	24.5	<10	<1.0	<0.0005	0.003	<0.001	0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-7	11/1/2004	10	**520**	<10	<0.0005	0.003	<0.001	0.002	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-7	11/1/2004	15	39	**1,100**	<0.063	1.9	**5.7**	**33**	<0.063	<0.13	<0.13	--	--	--	--	--	--	---	---
C-7	11/1/2004	20	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-7	11/1/2004	24.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION 206145
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*	*TVH*	*THE*
			Milligrams Per Kilogram (mg/kg)																
	ESLs																		
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	83	83
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	450	450
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	4,200	4,200
C-8	11/1/2004	5	38	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-8	11/2/2004	10	<10	2.7	<0.0005	<0.001	<0.001	0.001	<0.62	<1.2	2.5	--	--	--	--	--	--	---	---
C-8	11/2/2004	15	<10	19	0.001	<0.002	0.003	0.002	<0.001	<0.002	<0.002	--	--	--	--	--	--	---	---
C-8	11/2/2004	20	<10	2.7	<0.0005	<0.001	<0.001	0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-8	11/2/2004	24.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-9	11/1/2004	5	47	<4.0	<0.0005	0.003	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-9	11/2/2004	10	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-9	11/2/2004	15	<10	<1.0	<0.0005	0.002	<0.001	0.002	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-9	11/2/2004	20	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
C-9	11/2/2004	24.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.001	<0.001	--	--	--	--	--	--	---	---
B-1	6/12/2006	9.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-1	6/12/2006	15	<10	4.3	0.0006	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-1	6/12/2006	19.5	<10	2.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-2	6/12/2006	9.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-2	6/12/2006	15	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-2	6/12/2006	19.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-3	6/12/2006	10	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-3	6/12/2006	15	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-3	6/12/2006	19.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-4	6/12/2006	9.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-4	6/12/2006	15	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-4	6/12/2006	19.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-5	6/12/2006	9.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-5	6/12/2006	14.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-5	6/12/2006	19.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION 206145
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*	*TVH*	*THE*
			Milligrams Per Kilogram (mg/kg)																
	ESLs																		
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	83	83
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	450	450
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	4,200	4,200
B-6	6/12/2006	9.5	26	47	<0.002	<0.005	<0.005	<0.002	--	--	--	--	--	--	--	--	--	---	---
B-6	6/12/2006	15	<10	4.6	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-6	6/12/2006	19.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-7	6/12/2006	10	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-7	6/12/2006	14.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-7	6/12/2006	19.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-8	6/12/2006	9.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-8	6/12/2006	14.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
B-8	6/12/2006	19.5	<10	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-9	4/9/2007	14.5	<4.0	1.6	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-9	4/9/2007	19.5	<4.0	7.1	0.001	<0.001	0.001	0.001	--	--	--	--	--	--	--	--	--	---	---
MW-9	4/9/2007	24.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-9	4/9/2007	29.5	<4.0	<1.0	<0.0005	0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-9	4/9/2007	34.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-9	4/9/2007	39.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-10	4/10/2007	41.5	<4.0	2.5	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-10	4/10/2007	44.5	<4.0	<1.0	<0.0005	0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-10	4/10/2007	49.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-10	4/10/2007	54.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-10	4/10/2007	59.5	<4.0	<1.0	<0.0005	0.003	<0.001	0.005	--	--	--	--	--	--	--	--	--	---	---
MW-11	4/9/2007	9.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-11	4/9/2007	14.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-11	4/9/2007	19.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-11	4/9/2007	24.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-11	4/9/2007	29.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-11	4/9/2007	34.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-11	4/9/2007	39.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION 206145
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*	*TVH*	*THE*
			Milligrams Per Kilogram (mg/kg)																
	ESLs																		
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	83	83
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	450	450
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	4,200	4,200
MW-12	4/10/2007	39.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-12	4/10/2007	44.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-12	4/10/2007	49.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-12	4/10/2007	54.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-12	4/10/2007	59.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-14	4/11/2007	9.0	33	**3,400**	**0.23**	**35**	**34**	**180**	--	--	--	--	--	--	--	--	--	---	---
MW-14	4/11/2007	14.5	13	**880**	**0.097**	0.45	3.2	**10**	--	--	--	--	--	--	--	--	--	---	---
MW-14	4/11/2007	19.5	<4.0	7.3	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-14	4/11/2007	24.5	<4.0	1.2	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-14	4/11/2007	29.5	<4.0	<1.0	<0.0005	0.002	<0.001	0.001	--	--	--	--	--	--	--	--	--	---	---
MW-14	4/11/2007	34.5	<4.0	<1.0	<0.0005	0.002	<0.001	0.001	--	--	--	--	--	--	--	--	--	---	---
MW-14	4/11/2007	39.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-14	4/11/2007	44.5	<4.0	2.1	0.0005	0.004	<0.001	0.004	--	--	--	--	--	--	--	--	--	---	---
MW-14	4/11/2007	49.5	<4.0	1.5	0.004	0.011	0.005	0.024	--	--	--	--	--	--	--	--	--	---	---
MW-14	4/11/2007	54.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-14	4/11/2007	59.5	<4.0	<1.0	<0.0005	0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-17	4/13/2007	9.5	**710**	**7,300**	**7.2**	**330**	**150**	**650**	--	--	--	--	--	--	--	--	--	---	---
MW-17	4/13/2007	14.5	<4.0	1.5	0.003	0.002	0.002	0.005	--	--	--	--	--	--	--	--	--	---	---
MW-17	4/13/2007	19.5	<4.0	<1.0	<0.0005	0.004	0.002	0.001	--	--	--	--	--	--	--	--	--	---	---
MW-17	4/13/2007	24.5	<4.0	<1.0	<0.0005	0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-17	4/13/2007	29.5	<4.0	<1.0	<0.0005	0.002	<0.001	0.001	--	--	--	--	--	--	--	--	--	---	---
MW-17	4/13/2007	34.5	<4.0	<1.0	<0.0005	0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-17	4/13/2007	39.5	<4.0	<1.0	<0.0005	0.003	<0.001	0.003	--	--	--	--	--	--	--	--	--	---	---
MW-17	4/13/2007	44.5	<4.0	3.1	0.002	0.032	0.014	0.032	--	--	--	--	--	--	--	--	--	---	---
MW-17	4/13/2007	49.5	<4.0	<1.0	0.001	0.019	0.007	0.018	--	--	--	--	--	--	--	--	--	---	---
MW-17	4/13/2007	54.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-17	4/13/2007	59.5	<4.0	<1.0	0.0006	0.004	<0.001	0.001	--	--	--	--	--	--	--	--	--	---	---
MW-17	4/13/2007	64.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION 206145
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*	*TVH*	*THE*
			Milligrams Per Kilogram (mg/kg)																
	ESLs																		
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	83	83
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	450	450
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	4,200	4,200
MW-17	4/13/2007	69.5	<4.0	<1.0	<0.0005	<0.001	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
MW-17	4/13/2007	74.5	<4.0	<1.0	<0.0005	0.002	<0.001	<0.001	--	--	--	--	--	--	--	--	--	---	---
VP-1	10/25/2007	6	4.9	--	<0.5	<1.0	<1.0	<1.0	<0.5	--	--	--	--	--	--	--	--	---	---
VP-2	10/25/2007	6	**300**	--	<0.5	<1.0	<1.0	<1.0	<0.5	--	--	--	--	--	--	--	--	---	---
VP-3	10/25/2007	6	6.4	--	<0.5	<1.0	<1.0	<1.0	<0.5	--	--	--	--	--	--	--	--	---	---
VP-4	10/25/2007	6	44	--	<0.5	<1.0	<1.0	<1.0	<0.5	--	--	--	--	--	--	--	--	---	---
VP-5	10/25/2007	6	<4.0	--	<0.5	<1.0	<1.0	<1.0	<0.5	--	--	--	--	--	--	--	--	---	---
VP-6	10/25/2007	6	<4.0	--	<0.5	<1.0	<1.0	<1.0	<0.5	--	--	--	--	--	--	--	--	---	---
CB-1	5/21/2014	7	--	--	13	--	250	--	--	--	--	--	--	--	--	--	--	--	--
CB-2	5/21/2014	6	--	--	6.4	--	96	--	--	--	--	--	--	--	--	--	--	--	--
	5/21/2014	9	--	--	49	--	300	--	--	--	--	--	--	--	--	--	--	--	--
CB-3	5/21/2014	2	--	--	0.001	--	<0.001	--	--	--	--	--	--	--	--	--	--	--	--
	5/21/2014	7	--	--	12	--	200	--	--	--	--	--	--	--	--	--	--	--	--
	5/21/2014	9	--	--	32	--	330	--	--	--	--	--	--	--	--	--	--	--	--
CB-4	5/21/2014	4	--	--	0.002	--	0.006	--	--	--	--	--	--	--	--	--	--	--	--
	5/21/2014	6	--	--	0.02	--	0.14	--	--	--	--	--	--	--	--	--	--	--	--
CB-5	5/21/2014	7	--	--	2.9	--	56	--	--	--	--	--	--	--	--	--	--	--	--
	5/21/2014	9	--	--	28	--	280	--	--	--	--	--	--	--	--	--	--	--	--
CB-6	5/21/2014	7	--	--	2.2	--	31	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 1

CUMULATIVE SOIL ANALYTICAL DATA
FORMER SIGNAL OIL SERVICE STATION 206145
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*	*TVH*	*THE*
			Milligrams Per Kilogram (mg/kg)																
	ESLs																		
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	83	83
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	450	450
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	4,200	4,200
CB-7	5/21/2014	4.5	--	--	0.0006	--	<0.001	--	--	--	--	--	--	--	--	--	--	--	--
	5/21/2014	9	--	--	3.2	--	29	--	--	--	--	--	--	--	--	--	--	--	--

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, EPA Methods 3580 and 503E for 1989 samples

Metals by EPS Method 6010B

Volatile Organics (VOC) by EPA Method 8260B

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

TVH = Total Volatile Hydrocarbons.

TEH = Total Extractable Hydrocarbons as Gasoline.

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

* Cadmium 0.7; Chromium 18; Lead 18; Zinc 19, by EPA 6010 for cadmium, chromium, and zinc and EPA 7420 for lead.

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

[1] = Composite sample

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

d = Total Lead by EPA Method 6010B

TABLE 2

SOIL ANALYTICAL DATA
POLY-AROMATIC HYDROCARBONS
FORMER SIGNAL OIL SERVICE STATION 206145
800 CENTER STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g, h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1, 2, 3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
			Milligrams Per Kilogram (mg/kg)															
CB-1	5/21/2014	7	0.084	<0.003	<0.003	0.01	<0.003	0.008	<0.003	<0.003	0.019	<0.003	0.025	0.098	<0.003	43	0.26	0.082
CB-2	5/21/2014	6	0.034	<0.003	<0.003	0.005	<0.003	<0.003	<0.003	<0.003	0.010	<0.003	0.014	0.045	<0.003	23	0.12	0.042
	5/21/2014	9	0.067	<0.003	0.023	0.010	<0.003	<0.003	0.007	<0.003	0.015	<0.003	0.02	0.099	<0.003	37	0.19	0.068
CB-3	5/21/2014	2	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.006	<0.003	<0.003
	5/21/2014	7	0.058	<0.003	0.015	0.007	<0.003	<0.003	0.006	<0.003	0.014	<0.003	0.02	0.081	<0.003	29	0.18	0.063
	5/21/2014	9	0.055	<0.003	0.016	0.006	0.004	<0.003	0.006	<0.003	0.012	<0.003	0.016	0.077	<0.003	28	0.14	0.05
CB-4	5/21/2014	4	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.005	<0.003	<0.003
	5/21/2014	6	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.027	<0.003	<0.003
CB-5	5/21/2014	7	0.02	<0.003	0.005	0.004	<0.003	<0.003	0.003	<0.003	0.005	<0.003	0.007	0.033	<0.003	4.3	0.062	0.025
	5/21/2014	9	0.14	<0.003	0.045	0.015	<0.003	<0.003	0.016	<0.003	0.029	<0.003	0.032	0.19	<0.003	58	0.37	0.12
CB-6	5/21/2014	7	0.019	<0.003	0.005	<0.003	<0.003	<0.003	<0.003	<0.003	0.005	<0.003	0.006	0.024	<0.003	7.1	0.047	0.018
CB-7	5/21/2014	4.5	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
	5/21/2014	9	0.013	<0.003	0.004	<0.003	<0.003	<0.003	<0.003	<0.003	0.005	<0.003	0.004	0.017	<0.003	2.9	0.038	0.016

Notes:
Poly-aromatic hydrocarbons (PAHs) by EPA Method 8270C
fbg = Feet below grade
<x = Not detected above method detection limit

ATTACHMENT A

ACEH CORRESPONDENCE

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director

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

March 27, 2014

Mr. Brian Waite
Chevron Environmental Management Co.
6101 Bollinger Canyon Road
San Ramon, CA 94583
(Sent via electronic mail to:
BWaite@chevron.com)

Mr. Rene Boisvert
800 Center LLC
c/o Boulevard Equity Group
484 Lake Park Ave #246
Oakland, CA 94610-2730

Mr. Terrilla Sadler
618 Brooklyn Avenue
Oakland, CA 94606-1004

Subject: Work Plan Approval; Fuel Leak Case No. RO0000454 (Global ID # T0600102230), Chevron #20-6145 / Signal SS, 800 Center Street, Oakland CA 94607

Dear Messrs. Waite, Boisvert, and Sadler:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the referenced site including the *Second Semi-Annual 2013 Groundwater Monitoring and Sampling Report*, dated November 25, 2013, and the *Site Assessment Work Plan*, dated March 21, 2014. The reports were prepared and submitted on your behalf by Conestoga-Rovers & Associates, Inc. (CRA). Thank you for submitting the reports.

ACEH has evaluated case data and files, to determine if the site is eligible for closure as a low risk site under the State Water Resources Control Board's (SWRCBs) Low Threat Underground Storage Tank Case Closure Policy (LTCP). Based on ACEH staff review, we have determined that the site fails to meet the LTCP General Criteria b (release consists only of petroleum; however, contaminants to be separated and managed under separate case), e (Site Conceptual Model), f (Secondary Source Removal) and the Media-Specific Criteria for Vapor Intrusion to Indoor Air, and the Media-Specific Criteria for Direct Contact (see Geotracker A for a copy of the LTCP checklist).

ACEH generally concurs with the proposed scope of work provided in the work plan. We request that you perform the proposed work, and send us the reports described below. Please provide 72-hour advance written notification to this office (e-mail preferred to: mark.detterman@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

1. **Investigation Report Submittal** – Please submit an investigation report with an updated focused Site Conceptual Model (SCM) by the date identified below. Based on data collected during the field investigation, please re-evaluate the site and identify any remaining data gaps within the context of the Low-Threat Closure Policy and provide recommendations for advancing the case to closure.
2. **Groundwater Monitoring.** Please continue to conduct groundwater monitoring events on a semi-annual basis at the site and submit reports according to the schedule below.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Mark Detterman), and to the State Water Resources Control Board's Geotracker website, in accordance with the specified file naming convention below, according to the following schedule:

- **April 25, 2014** – Semi-Annual Groundwater Monitoring Report
  (File to be named: RO454_GWM_R_yyyy-mm-dd)

- **June 28, 2014** – Site Investigation Report and updated SCM
  (File to be named: RO454_SWI_R_yyyy-mm-dd)

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.

Online case files are available for review at the following website: http://www.acgov.org/aceh/index.htm.

If you have any questions, please call 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: 2014.03.27 09:26:20 -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: Nathan Allen, Conestoga-Rovers & Associates, 10969 Trade Center Drive, Suite 107, Rancho Cordova, CA 95670
(sent via electronic mail to nallen@craworld.com)

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

Dilan Roe, (sent via electronic mail to: dilan.roe@acgov.org)
Mark Detterman (sent via electronic mail to mark.detterman@acgov.org)
Electronic File, GeoTracker

Attachment 1

Responsible Party(ies) Legal Requirements/Obligations

REPORT/DATA REQUESTS

These reports/data are being requested pursuant to Division 7 of the California Water Code (Water Quality), Chapter 6.7 of Division 20 of the California Health and Safety Code (Underground Storage of Hazardous Substances), and Chapter 16 of Division 3 of Title 23 of the California Code of Regulations (Underground Storage Tank Regulations).

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (Local Oversight Program [LOP] for unauthorized releases from petroleum Underground Storage Tanks [USTs], and Site Cleanup Program [SCP] for unauthorized releases of non-petroleum hazardous substances) require submission of reports in electronic format pursuant to Chapter 3 of Division 7, Sections 13195 and 13197.5 of the California Water Code, and Chapter 30, Articles 1 and 2, Sections 3890 to 3895 of Division 3 of Title 23 of the California Code of Regulations (23 CCR). Instructions for submission of electronic documents to the ACEH FTP site are provided on the attached "Electronic Report Upload Instructions."

Submission of reports to the ACEH FTP site is in addition to requirements for electronic submittal of information (ESI) to the State Water Resources Control Board's (SWRCB) Geotracker website. In April 2001, the SWRCB adopted 23 CCR, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1 (Electronic Submission of Laboratory Data for UST Reports). Article 12 required electronic submittal of analytical laboratory data submitted in a report to a regulatory agency (effective September 1, 2001), and surveyed locations (latitude, longitude and elevation) of groundwater monitoring wells (effective January 1, 2002) in Electronic Deliverable Format (EDF) to Geotracker. Article 12 was subsequently repealed in 2004 and replaced with Article 30 (Electronic Submittal of Information) which expanded the ESI requirements to include electronic submittal of any report or data required by a regulatory agency from a cleanup site. The expanded ESI submittal requirements for petroleum UST sites subject to the requirements of 23 CCR, Division, 3, Chapter 16, Article 11, became effective December 16, 2004. All other electronic submittals required pursuant to Chapter 30 became effective January 1, 2005. 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, 7835, 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, late 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 SCP)	REVISION DATE: July 25, 2012
	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 (petroleum UST and SCP) 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.

ATTACHMENT B

BORING PERMIT

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency
Alameda County

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 05/14/2014 By jamesy

Permit Numbers: W2014-0496
Permits Valid from 05/21/2014 to 05/21/2014

Application Id:	1399574736309	**City of Project Site:** Oakland
Site Location:	800 Center St	
Project Start Date:	05/21/2014	**Completion Date:** 05/21/2014
Assigned Inspector:	Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org	
Applicant:	Conestoga-Rovers & Associates - Charley Austin 2300 Clayton Rd, Suite 920, Concord, CA 94520	**Phone:** 925-849-1017
Property Owner:	Chevron Products USA na 6001 Bollinger Canyon Rd, San Ramon, CA 94583	**Phone:** --
Client:	Chevron Environmental Management Company na 6101 Bollinger Canyon Rd, San Ramon, CA 94583	**Phone:** --
Contact:	Charley Austin	**Phone:** 225-907-5910 **Cell:** --

Total Due: $265.00
Receipt Number: WR2014-0195 **Total Amount Paid:** $265.00
Payer Name : Conestoga-Rovers & Paid By: CHECK **PAID IN FULL**
Associates

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitorinig Study - 7 Boreholes
Driller: Vapor Tech Services - Lic #: 916085 - Method: DP **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2014-0496	05/14/2014	08/19/2014	7	8.00 in.	10.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

6. NOTE:
Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

7. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

ATTACHMENT C

BORING LOGS

Conestoga-Rovers & Associates
10969 Trade Center Drive suite 107
Rancho Cordova, CA 95670
Telephone: (916) 889-8900
Fax: (916) 889-8999

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	CB-1
JOB/SITE NAME	206145	**DRILLING STARTED**	21-May-14
LOCATION	800 Center Street, Oakland CA	**DRILLING COMPLETED**	21-May-14
PROJECT NUMBER	312002	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Direct push - continuous core	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2.25"	**SCREENED INTERVAL**	NA
LOGGED BY	N. Allen	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	N. Allen, PG# 9075	**DEPTH TO WATER (Static)**	NA
REMARKS	Cleared to 5.5 fbg by hand auger		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.4							**Fill:** Sandy gravel with silt; light gray; dry		
0.5								2.0	
0.6							**Sand with Silt:** Fine sand; dark brown; moist		
0.5									
0.7				5			@ 5 fbg: color change to light brownish red	5.1	Portland Type I/II
220					SP SM				
1793		CB-1- 7							
1532									
1670								9.5	Bottom of Boring @ 9.5 fbg

WELL LOG (PID) I:\PROJECT FILES\6-CHAR\31----\3120--\312002\312002-GINT\312002-CB1-CB7-2014-05-21.GPJ DEFAULT.GDT 6/20/14

Conestoga-Rovers & Associates
10969 Trade Center Drive suite 107
Rancho Cordova, CA 95670
Telephone: (916) 889-8900
Fax: (916) 889-8999

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	CB-2
JOB/SITE NAME	206145	**DRILLING STARTED**	21-May-14
LOCATION	800 Center Street, Oakland CA	**DRILLING COMPLETED**	21-May-14
PROJECT NUMBER	312002	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Direct push - continuous core	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2.25"	**SCREENED INTERVAL**	NA
LOGGED BY	N. Allen	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	N. Allen, PG# 9075	**DEPTH TO WATER (Static)**	NA
REMARKS	Cleared to 5.5 fbg by hand auger		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Fill: Sandy gravel; dry	0.5	
2.1							**Sand with silt:** Dark brown; moist		
1.4					SP SM		@ 3 fbg: color change to light reddish brown	3.1	
3.5				5					Portland Type I/II
1.1								6.0	
1377		CB-2- 6			SM		**Silty sand:** trace clay; pale brown; moist; low estimated plasticity	7.0	
710							**Sand with silt:** reddish brown; moist		
528					SP SM				
796		CB-2- 9						9.5	Bottom of Boring @ 9.5 fbg

WELL LOG (PID) I:\PROJECT FILES\6-CHAR\31----\3120--\312002\312002-GINT\312002-CB1-CB7-2014-05-21.GPJ DEFAULT.GDT 6/24/14

Conestoga-Rovers & Associates
10969 Trade Center Drive suite 107
Rancho Cordova, CA 95670
Telephone: (916) 889-8900
Fax: (916) 889-8999

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	CB-3
JOB/SITE NAME	206145	**DRILLING STARTED**	21-May-14
LOCATION	800 Center Street, Oakland CA	**DRILLING COMPLETED**	21-May-14
PROJECT NUMBER	312002	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Direct push - continuous core	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2.25"	**SCREENED INTERVAL**	NA
LOGGED BY	N. Allen	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	N. Allen, PG# 9075	**DEPTH TO WATER (Static)**	NA
REMARKS	Cleared to 5.5 fbg by hand auger		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Fill: Sandy gravel with silt; dry	0.5	
43.7							**Sand with silt:** Fine sand; dark brown; moist		
320		CB-3- 2			SP		@ 2.5 fbg: color change to pale brown	2.6	
23					SM				
10.9									
7.0				5					Portland Type I/II
87.9							**Silty sand:** Fine sand, reddish brown; moist	6.0	
1389		CB-3- 7			SM				
1222									
1252		CB-3- 9						9.5	Bottom of Boring @ 9.5 fbg

WELL LOG (PID) I:\PROJECT FILES\6-CHAR\31----\3120--\312002\312002-GINT\312002-CB1-CB7-2014-05-21.GPJ DEFAULT.GDT 6/24/14

Conestoga-Rovers & Associates
10969 Trade Center Drive suite 107
Rancho Cordova, CA 95670
Telephone: (916) 889-8900
Fax: (916) 889-8999

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	CB-4
JOB/SITE NAME	206145	**DRILLING STARTED**	21-May-14
LOCATION	800 Center Street, Oakland CA	**DRILLING COMPLETED**	21-May-14
PROJECT NUMBER	312002	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Direct push - continuous core	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2.25"	**SCREENED INTERVAL**	NA
LOGGED BY	N. Allen	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	N. Allen, PG# 9075	**DEPTH TO WATER (Static)**	NA
REMARKS	Cleared to 5.5 fbg by hand auger		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Fill: Sandy gravel with silt; dry	0.5	
4.1							**Sand with silt:** Dark brown; dry		
14									
311					SP				
1091		CB-4- 4			SM			4.1	
24.1				5			@ 4 fbg: color change to reddish brown		Portland Type I/II
1556		CB-4- 6						6.0	
1303					SM		**Silty sand:** trace clay; reddish brown; moist; low estimated plasticity		
1353								8.0	
1375					SP SM		**Sand with silt:** reddish brown; moist	9.5	Bottom of Boring @ 9.5 fbg

WELL LOG (PID) I:\PROJECT FILES\6-CHAR\31-----\3120--\312002\312002-GINT\312002-CB1-CB7-2014-05-21.GPJ DEFAULT.GDT 6/24/14

Conestoga-Rovers & Associates
10969 Trade Center Drive suite 107
Rancho Cordova, CA 95670
Telephone: (916) 889-8900
Fax: (916) 889-8999

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	CB-5
JOB/SITE NAME	206145	**DRILLING STARTED**	21-May-14
LOCATION	800 Center Street, Oakland CA	**DRILLING COMPLETED**	21-May-14
PROJECT NUMBER	312002	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Direct push - continuous core	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2.25"	**SCREENED INTERVAL**	NA
LOGGED BY	N. Allen	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	N. Allen, PG# 9075	**DEPTH TO WATER (Static)**	NA
REMARKS	Cleared to 5.5 fbg by hand auger		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Fill: Sandy gravel with silt; dry	0.5	
25							**Sand with silt:** Dark brown; moist		
3.7								2.1	
7.9					SP		@ 2 fbg: color change to light brown		
8.2					SM				
5.3				5					Portland Type I/II
125								6.0	
1481		CB-5- 7			SM		**Silty sand:** Trace clay; reddish brown; moist; low estimated plasticity		
1209								8.0	
956		CB-5- 9			SP SM		**Sand with silt:** Reddish brown; moist	9.5	Bottom of Boring @ 9.5 fbg

WELL LOG (PID) I:\PROJECT FILES\6-CHAR\31----\3120--\312002\312002-GINT\312002-CB1-CB7-2014-05-21.GPJ DEFAULT.GDT 6/24/14

Conestoga-Rovers & Associates
10969 Trade Center Drive suite 107
Rancho Cordova, CA 95670
Telephone: (916) 889-8900
Fax: (916) 889-8999

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	CB-6
JOB/SITE NAME	206145	**DRILLING STARTED**	21-May-14
LOCATION	800 Center Street, Oakland CA	**DRILLING COMPLETED**	21-May-14
PROJECT NUMBER	312002	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Direct push - continuous core	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2.25"	**SCREENED INTERVAL**	NA
LOGGED BY	N. Allen	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	N. Allen, PG# 9075	**DEPTH TO WATER (Static)**	NA
REMARKS	Cleared to 5.5 fbg by hand auger		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Fill: Sandy gravel with silt; brown; dry	1.0	
14.7					SP SM		**Sand with silt:** Dark brown; moist	2.1	
15.7							@ 2 fbg: color change to medium brown	3.1	
47.7							@ 3 fbg: color change to pale brown		
14.6									Portland Type I/II
8.8				5				6.0	
488					SM		**Silty sand:** Trace clay; reddish brown; moist		
1303		CB-6- 7							
1177									
852								9.5	Bottom of Boring @ 9.5 fbg

Conestoga-Rovers & Associates
10969 Trade Center Drive suite 107
Rancho Cordova, CA 95670
Telephone: (916) 889-8900
Fax: (916) 889-8999

BORING/WELL LOG

CLIENT NAME	Chevron Environmental Management Company	**BORING/WELL NAME**	CB-7
JOB/SITE NAME	206145	**DRILLING STARTED**	21-May-14
LOCATION	800 Center Street, Oakland CA	**DRILLING COMPLETED**	21-May-14
PROJECT NUMBER	312002	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Vapor Tech Services	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Direct push - continuous core	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2.25"	**SCREENED INTERVAL**	NA
LOGGED BY	N. Allen	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	N. Allen, PG# 9075	**DEPTH TO WATER (Static)**	NA
REMARKS	Cleared to 5.5 fbg by hand auger		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
7.7							**Fill:** Well graded sandy gravel with silt; fine to coarse sand; chunks of masonry; 3/4" angular gravel; brown, moist		
6.1									
3.1								4.0	
1.2		CB-7- 4.5			SM		**Silty sand:** Dark brown; moist	5.0	Portland Type I/II
2.8				5			**Sand with silt:** Yellowish brown; moist	6.1	
1.6					SP SM		@ 6 fbg: increase silt	7.0	
25.6					SM		**Silty sand with clay:** Mottled grayish brown; moist; low to medium estimated plasticity	8.0	
1053					SM		**Silty sand:** Fine sand; reddish brown; moist		
1313		CB-7- 9						9.5	Bottom of Boring @ 9.5 fbg

WELL LOG (PID) I:\PROJECT FILES\6-CHAR\31----\3120--\312002\312002-GINT\312002-CB1-CB7-2014-05-21.GPJ DEFAULT.GDT 6/24/14

ATTACHMENT D

LABORATORY ANALYTICAL RESULTS

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

June 05, 2014

Project: 206145

Submittal Date: 05/23/2014
Group Number: 1476847
PO Number: 0015150984
Release Number: FISCHER
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
CB-1-S-7-140521 Grab Soil	7475993
CB-2-S-6-140521 Grab Soil	7475994
CB-2-S-9-140521 Grab Soil	7475995
CB-3-S-2-140521 Grab Soil	7475996
CB-3-S-7-140521 Grab Soil	7475997
CB-3-S-9-140521 Grab Soil	7475998
CB-4-S-4-140521 Grab Soil	7475999
CB-4-S-6-140521 Grab Soil	7476000
CB-5-S-7-140521 Grab Soil	7476001
CB-5-S-9-140521 Grab Soil	7476002
CB-6-S-7-140521 Grab Soil	7476003
CB-7-S-4.5-140521 Grab Soil	7476004
CB-7-S-9-140521 Grab Soil	7476005

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Chevron	Attn: CRA EDD
ELECTRONIC COPY TO	Conestoga-Rovers & Associates	Attn: Nathan Allen

Respectfully Submitted,

Natalie R. Luciano
Senior Specialist

(717) 556-7258

Sample Description: CB-1-S-7-140521 Grab Soil
Facility# 206145 CRAW
800 Center St-Oakland T0600102230

LL Sample # SW 7475993
LL Group # 1476847
Account # 10880

Project Name: 206145

Collected: 05/21/2014 09:47 by NA

Submitted: 05/23/2014 09:20
Reported: 06/05/2014 13:25

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CB107

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	13	0.55	5.5	1103.75
10237	Ethylbenzene	100-41-4	250	1.1	5.5	1103.75
GC/MS Semivolatiles	**SW-846 8270C**		**mg/kg**	**mg/kg**	**mg/kg**	
10724	Acenaphthene	83-32-9	0.084	0.003	0.017	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	0.017	1
10724	Anthracene	120-12-7	N.D.	0.003	0.017	1
10724	Benzo(a)anthracene	56-55-3	0.01	0.003	0.017	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	0.017	1
10724	Benzo(b)fluoranthene	205-99-2	0.008	0.003	0.017	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	0.017	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	0.017	1
10724	Chrysene	218-01-9	0.019	0.003	0.017	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	0.017	1
10724	Fluoranthene	206-44-0	0.025	0.003	0.017	1
10724	Fluorene	86-73-7	0.098	0.003	0.017	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	0.017	1
10724	Naphthalene	91-20-3	43	0.066	0.34	20
10724	Phenanthrene	85-01-8	0.26	0.003	0.017	1
10724	Pyrene	129-00-0	0.082	0.003	0.017	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	R141481AA	05/28/2014 22:24	Andrea E Lando	1103.75
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:20	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 21:04	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	05/31/2014 12:37	Linda M Hartenstine	1
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	06/03/2014 12:36	Linda M Hartenstine	20
10814	BNA Soil Microwave PAH	SW-846 3546	1	14147SLG026	05/28/2014 11:00	William H Saadeh	1

*=This limit was used in the evaluation of the final result

Sample Description: CB-2-S-6-140521 Grab Soil
Facility# 206145 CRAW
800 Center St-Oakland T0600102230

LL Sample # SW 7475994
LL Group # 1476847
Account # 10880

Project Name: 206145

Collected: 05/21/2014 10:11 by NA

Submitted: 05/23/2014 09:20
Reported: 06/05/2014 13:25

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CB206

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	6.4	0.098	0.98	196.08
10237	Ethylbenzene	100-41-4	96	2.0	9.8	1960.78
GC/MS Semivolatiles	**SW-846 8270C**		**mg/kg**	**mg/kg**	**mg/kg**	
10724	Acenaphthene	83-32-9	0.034	0.003	0.017	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	0.017	1
10724	Anthracene	120-12-7	N.D.	0.003	0.017	1
10724	Benzo(a)anthracene	56-55-3	0.005	0.003	0.017	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	0.017	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	0.017	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	0.017	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	0.017	1
10724	Chrysene	218-01-9	0.010	0.003	0.017	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	0.017	1
10724	Fluoranthene	206-44-0	0.014	0.003	0.017	1
10724	Fluorene	86-73-7	0.045	0.003	0.017	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	0.017	1
10724	Naphthalene	91-20-3	23	0.033	0.17	10
10724	Phenanthrene	85-01-8	0.12	0.003	0.017	1
10724	Pyrene	129-00-0	0.042	0.003	0.017	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	R141481AA	05/28/2014 22:47	Andrea E Lando	196.08
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	R141491AA	05/29/2014 13:38	Anita M Dale	1960.78
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 21:11	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	05/31/2014 13:50	Linda M Hartenstine	1
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	06/02/2014 01:45	Holly Berry	10
10814	BNA Soil Microwave PAH	SW-846 3546	1	14147SLG026	05/28/2014 11:00	William H Saadeh	1

*=This limit was used in the evaluation of the final result

Sample Description: CB-2-S-9-140521 Grab Soil
Facility# 206145 CRAW
800 Center St-Oakland T0600102230

LL Sample # SW 7475995
LL Group # 1476847
Account # 10880

Project Name: 206145

Collected: 05/21/2014 10:06 by NA

Submitted: 05/23/2014 09:20
Reported: 06/05/2014 13:25

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CB209

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	49	0.95	9.5	1908.4
10237	Ethylbenzene	100-41-4	300	1.9	9.5	1908.4
GC/MS Semivolatiles	**SW-846 8270C**		**mg/kg**	**mg/kg**	**mg/kg**	
10724	Acenaphthene	83-32-9	0.067	0.003	0.017	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	0.017	1
10724	Anthracene	120-12-7	0.023	0.003	0.017	1
10724	Benzo(a)anthracene	56-55-3	0.010	0.003	0.017	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	0.017	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	0.017	1
10724	Benzo(g,h,i)perylene	191-24-2	0.007	0.003	0.017	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	0.017	1
10724	Chrysene	218-01-9	0.015	0.003	0.017	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	0.017	1
10724	Fluoranthene	206-44-0	0.020	0.003	0.017	1
10724	Fluorene	86-73-7	0.099	0.003	0.017	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	0.017	1
10724	Naphthalene	91-20-3	37	0.033	0.17	10
10724	Phenanthrene	85-01-8	0.19	0.003	0.017	1
10724	Pyrene	129-00-0	0.068	0.003	0.017	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	R141481AA	05/28/2014 23:10	Andrea E Lando	1908.4
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 21:14	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	05/31/2014 14:14	Linda M Hartenstine	1
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	06/02/2014 02:09	Holly Berry	10
10814	BNA Soil Microwave PAH	SW-846 3546	1	14147SLG026	05/28/2014 11:00	William H Saadeh	1

*=This limit was used in the evaluation of the final result

Sample Description: CB-3-S-2-140521 Grab Soil
Facility# 206145 CRAW
800 Center St-Oakland T0600102230

LL Sample # SW 7475996
LL Group # 1476847
Account # 10880

Project Name: 206145

Collected: 05/21/2014 10:59 by NA

Submitted: 05/23/2014 09:20
Reported: 06/05/2014 13:25

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CB302

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	0.001	0.0005	0.005	1.01
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	1.01
GC/MS Semivolatiles	**SW-846 8270C**		**mg/kg**	**mg/kg**	**mg/kg**	
10724	Acenaphthene	83-32-9	N.D.	0.003	0.017	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	0.017	1
10724	Anthracene	120-12-7	N.D.	0.003	0.017	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	0.017	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	0.017	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	0.017	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	0.017	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	0.017	1
10724	Chrysene	218-01-9	N.D.	0.003	0.017	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	0.017	1
10724	Fluoranthene	206-44-0	N.D.	0.003	0.017	1
10724	Fluorene	86-73-7	N.D.	0.003	0.017	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	0.017	1
10724	Naphthalene	91-20-3	0.006	0.003	0.017	1
10724	Phenanthrene	85-01-8	N.D.	0.003	0.017	1
10724	Pyrene	129-00-0	N.D.	0.003	0.017	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	B141502AA	05/30/2014 22:54	Chelsea B Stong	1.01
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 21:17	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	06/01/2014 18:03	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14147SLG026	05/28/2014 11:00	William H Saadeh	1

*=This limit was used in the evaluation of the final result

Sample Description: CB-3-S-7-140521 Grab Soil
Facility# 206145 CRAW
800 Center St-Oakland T0600102230

LL Sample # SW 7475997
LL Group # 1476847
Account # 10880

Project Name: 206145

Collected: 05/21/2014 10:44 by NA

Submitted: 05/23/2014 09:20
Reported: 06/05/2014 13:25

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CB307

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	12	0.54	5.4	1072.96
10237	Ethylbenzene	100-41-4	200	1.1	5.4	1072.96
GC/MS Semivolatiles	**SW-846 8270C**		**mg/kg**	**mg/kg**	**mg/kg**	
10724	Acenaphthene	83-32-9	0.058	0.003	0.017	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	0.017	1
10724	Anthracene	120-12-7	0.015	0.003	0.017	1
10724	Benzo(a)anthracene	56-55-3	0.007	0.003	0.017	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	0.017	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	0.017	1
10724	Benzo(g,h,i)perylene	191-24-2	0.006	0.003	0.017	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	0.017	1
10724	Chrysene	218-01-9	0.014	0.003	0.017	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	0.017	1
10724	Fluoranthene	206-44-0	0.020	0.003	0.017	1
10724	Fluorene	86-73-7	0.081	0.003	0.017	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	0.017	1
10724	Naphthalene	91-20-3	29	0.033	0.17	10
10724	Phenanthrene	85-01-8	0.18	0.003	0.017	1
10724	Pyrene	129-00-0	0.063	0.003	0.017	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	R141481AA	05/28/2014 23:33	Andrea E Lando	1072.96
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 21:20	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	05/31/2014 15:03	Linda M Hartenstine	1
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	06/02/2014 02:34	Holly Berry	10
10814	BNA Soil Microwave PAH	SW-846 3546	1	14147SLG026	05/28/2014 11:00	William H Saadeh	1

*=This limit was used in the evaluation of the final result

Sample Description: CB-3-S-9-140521 Grab Soil
Facility# 206145 CRAW
800 Center St-Oakland T0600102230

LL Sample # SW 7475998
LL Group # 1476847
Account # 10880

Project Name: 206145

Collected: 05/21/2014 10:41 by NA

Submitted: 05/23/2014 09:20
Reported: 06/05/2014 13:25

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CB309

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	32	0.46	4.6	927.64
10237	Ethylbenzene	100-41-4	330	9.3	46	9276.44
GC/MS Semivolatiles	**SW-846 8270C**		**mg/kg**	**mg/kg**	**mg/kg**	
10724	Acenaphthene	83-32-9	0.055	0.003	0.017	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	0.017	1
10724	Anthracene	120-12-7	0.016	0.003	0.017	1
10724	Benzo(a)anthracene	56-55-3	0.006	0.003	0.017	1
10724	Benzo(a)pyrene	50-32-8	0.004	0.003	0.017	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	0.017	1
10724	Benzo(g,h,i)perylene	191-24-2	0.006	0.003	0.017	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	0.017	1
10724	Chrysene	218-01-9	0.012	0.003	0.017	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	0.017	1
10724	Fluoranthene	206-44-0	0.016	0.003	0.017	1
10724	Fluorene	86-73-7	0.077	0.003	0.017	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	0.017	1
10724	Naphthalene	91-20-3	28	0.033	0.17	10
10724	Phenanthrene	85-01-8	0.14	0.003	0.017	1
10724	Pyrene	129-00-0	0.050	0.003	0.017	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	R141481AA	05/28/2014 23:56	Andrea E Lando	927.64
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	R141491AA	05/29/2014 14:25	Anita M Dale	9276.44
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 21:24	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	05/31/2014 15:28	Linda M Hartenstine	1
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	06/02/2014 02:58	Holly Berry	10
10814	BNA Soil Microwave PAH	SW-846 3546	1	14147SLG026	05/28/2014 11:00	William H Saadeh	1

*=This limit was used in the evaluation of the final result

Sample Description: CB-4-S-4-140521 Grab Soil
Facility# 206145 CRAW
800 Center St-Oakland T0600102230

LL Sample # SW 7475999
LL Group # 1476847
Account # 10880

Project Name: 206145

Collected: 05/21/2014 11:53 by NA

Submitted: 05/23/2014 09:20
Reported: 06/05/2014 13:25

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CB404

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	0.002	0.0005	0.005	1
10237	Ethylbenzene	100-41-4	0.006	0.001	0.005	1
GC/MS Semivolatiles	**SW-846 8270C**		**mg/kg**	**mg/kg**	**mg/kg**	
10724	Acenaphthene	83-32-9	N.D.	0.003	0.017	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	0.017	1
10724	Anthracene	120-12-7	N.D.	0.003	0.017	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	0.017	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	0.017	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	0.017	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	0.017	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	0.017	1
10724	Chrysene	218-01-9	N.D.	0.003	0.017	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	0.017	1
10724	Fluoranthene	206-44-0	N.D.	0.003	0.017	1
10724	Fluorene	86-73-7	N.D.	0.003	0.017	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	0.017	1
10724	Naphthalene	91-20-3	0.005	0.003	0.017	1
10724	Phenanthrene	85-01-8	N.D.	0.003	0.017	1
10724	Pyrene	129-00-0	N.D.	0.003	0.017	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	B141502AA	05/30/2014 23:16	Chelsea B Stong	1
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 21:50	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	06/01/2014 18:27	Holly Berry	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14147SLG026	05/28/2014 11:00	William H Saadeh	1

*=This limit was used in the evaluation of the final result

Sample Description: CB-4-S-6-140521 Grab Soil
Facility# 206145 CRAW
800 Center St-Oakland T0600102230

LL Sample # SW 7476000
LL Group # 1476847
Account # 10880

Project Name: 206145

Collected: 05/21/2014 11:14 by NA

Submitted: 05/23/2014 09:20
Reported: 06/05/2014 13:25

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CB406

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	0.020	0.0005	0.005	1.04
10237	Ethylbenzene	100-41-4	0.14	0.001	0.005	1.04
GC/MS Semivolatiles	**SW-846 8270C**		**mg/kg**	**mg/kg**	**mg/kg**	
10724	Acenaphthene	83-32-9	N.D.	0.003	0.017	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	0.017	1
10724	Anthracene	120-12-7	N.D.	0.003	0.017	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	0.017	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	0.017	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	0.017	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	0.017	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	0.017	1
10724	Chrysene	218-01-9	N.D.	0.003	0.017	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	0.017	1
10724	Fluoranthene	206-44-0	N.D.	0.003	0.017	1
10724	Fluorene	86-73-7	N.D.	0.003	0.017	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	0.017	1
10724	Naphthalene	91-20-3	0.027	0.003	0.017	1
10724	Phenanthrene	85-01-8	N.D.	0.003	0.017	1
10724	Pyrene	129-00-0	N.D.	0.003	0.017	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	A141531AA	06/03/2014 05:31	Christopher G Torres	1.04
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 21:53	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	05/31/2014 16:17	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14147SLG026	05/28/2014 11:00	William H Saadeh	1

*=This limit was used in the evaluation of the final result

Sample Description: CB-5-S-7-140521 Grab Soil
Facility# 206145 CRAW
800 Center St-Oakland T0600102230

LL Sample # SW 7476001
LL Group # 1476847
Account # 10880

Project Name: 206145

Collected: 05/21/2014 12:03 by NA

Submitted: 05/23/2014 09:20
Reported: 06/05/2014 13:25

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CB507

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	2.9	0.26	2.6	516.53
10237	Ethylbenzene	100-41-4	56	0.52	2.6	516.53
GC/MS Semivolatiles	**SW-846 8270C**		**mg/kg**	**mg/kg**	**mg/kg**	
10724	Acenaphthene	83-32-9	0.020	0.003	0.017	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	0.017	1
10724	Anthracene	120-12-7	0.005	0.003	0.017	1
10724	Benzo(a)anthracene	56-55-3	0.004	0.003	0.017	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	0.017	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	0.017	1
10724	Benzo(g,h,i)perylene	191-24-2	0.003	0.003	0.017	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	0.017	1
10724	Chrysene	218-01-9	0.005	0.003	0.017	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	0.017	1
10724	Fluoranthene	206-44-0	0.007	0.003	0.017	1
10724	Fluorene	86-73-7	0.033	0.003	0.017	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	0.017	1
10724	Naphthalene	91-20-3	4.3	0.017	0.085	5
10724	Phenanthrene	85-01-8	0.062	0.003	0.017	1
10724	Pyrene	129-00-0	0.025	0.003	0.017	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	R141481AA	05/29/2014 00:19	Andrea E Lando	516.53
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 21:56	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	05/31/2014 16:41	Linda M Hartenstine	1
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	06/02/2014 03:22	Holly Berry	5
10814	BNA Soil Microwave PAH	SW-846 3546	1	14147SLG026	05/28/2014 11:00	William H Saadeh	1

*=This limit was used in the evaluation of the final result

Sample Description: CB-5-S-9-140521 Grab Soil
Facility# 206145 CRAW
800 Center St-Oakland T0600102230

LL Sample # SW 7476002
LL Group # 1476847
Account # 10880

Project Name: 206145

Collected: 05/21/2014 11:59 by NA

Submitted: 05/23/2014 09:20
Reported: 06/05/2014 13:25

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CB509

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	28	0.55	5.5	1103.75
10237	Ethylbenzene	100-41-4	280	1.1	5.5	1103.75
GC/MS Semivolatiles	**SW-846 8270C**		**mg/kg**	**mg/kg**	**mg/kg**	
10724	Acenaphthene	83-32-9	0.14	0.003	0.017	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	0.017	1
10724	Anthracene	120-12-7	0.045	0.003	0.017	1
10724	Benzo(a)anthracene	56-55-3	0.015	0.003	0.017	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	0.017	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	0.017	1
10724	Benzo(g,h,i)perylene	191-24-2	0.016	0.003	0.017	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	0.017	1
10724	Chrysene	218-01-9	0.029	0.003	0.017	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	0.017	1
10724	Fluoranthene	206-44-0	0.032	0.003	0.017	1
10724	Fluorene	86-73-7	0.19	0.003	0.017	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	0.017	1
10724	Naphthalene	91-20-3	58	0.17	0.84	50
10724	Phenanthrene	85-01-8	0.37	0.003	0.017	1
10724	Pyrene	129-00-0	0.12	0.003	0.017	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	R141481AA	05/29/2014 00:42	Andrea E Lando	1103.75
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:03	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	05/31/2014 17:05	Linda M Hartenstine	1
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	06/02/2014 03:46	Holly Berry	50
10814	BNA Soil Microwave PAH	SW-846 3546	1	14147SLG026	05/28/2014 11:00	William H Saadeh	1

*=This limit was used in the evaluation of the final result

Sample Description: CB-6-S-7-140521 Grab Soil
Facility# 206145 CRAW
800 Center St-Oakland T0600102230

LL Sample # SW 7476003
LL Group # 1476847
Account # 10880

Project Name: 206145

Collected: 05/21/2014 12:31 by NA

Submitted: 05/23/2014 09:20
Reported: 06/05/2014 13:25

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CB607

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	2.2	0.050	0.50	99.6
10237	Ethylbenzene	100-41-4	31	1.0	5.0	996.02
GC/MS Semivolatiles	**SW-846 8270C**		**mg/kg**	**mg/kg**	**mg/kg**	
10724	Acenaphthene	83-32-9	0.019	0.003	0.017	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	0.017	1
10724	Anthracene	120-12-7	0.005	0.003	0.017	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	0.017	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	0.017	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	0.017	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	0.017	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	0.017	1
10724	Chrysene	218-01-9	0.005	0.003	0.017	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	0.017	1
10724	Fluoranthene	206-44-0	0.006	0.003	0.017	1
10724	Fluorene	86-73-7	0.024	0.003	0.017	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	0.017	1
10724	Naphthalene	91-20-3	7.1	0.017	0.085	5
10724	Phenanthrene	85-01-8	0.047	0.003	0.017	1
10724	Pyrene	129-00-0	0.018	0.003	0.017	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	R141481AA	05/29/2014 01:06	Andrea E Lando	99.6
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	R141491AA	05/29/2014 14:48	Anita M Dale	996.02
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:05	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	05/31/2014 17:30	Linda M Hartenstine	1
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	06/02/2014 04:11	Holly Berry	5
10814	BNA Soil Microwave PAH	SW-846 3546	1	14147SLG026	05/28/2014 11:00	William H Saadeh	1

*=This limit was used in the evaluation of the final result

Sample Description: CB-7-S-4.5-140521 Grab Soil
Facility# 206145 CRAW
800 Center St-Oakland T0600102230

LL Sample # SW 7476004
LL Group # 1476847
Account # 10880

Project Name: 206145

Collected: 05/21/2014 13:00 by NA

Submitted: 05/23/2014 09:20
Reported: 06/05/2014 13:25

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CB709

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	0.0006	0.0005	0.005	0.98
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.005	0.98
GC/MS Semivolatiles	**SW-846 8270C**		**mg/kg**	**mg/kg**	**mg/kg**	
10724	Acenaphthene	83-32-9	N.D.	0.003	0.017	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	0.017	1
10724	Anthracene	120-12-7	N.D.	0.003	0.017	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	0.017	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	0.017	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	0.017	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	0.017	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	0.017	1
10724	Chrysene	218-01-9	N.D.	0.003	0.017	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	0.017	1
10724	Fluoranthene	206-44-0	N.D.	0.003	0.017	1
10724	Fluorene	86-73-7	N.D.	0.003	0.017	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	0.017	1
10724	Naphthalene	91-20-3	N.D.	0.003	0.017	1
10724	Phenanthrene	85-01-8	N.D.	0.003	0.017	1
10724	Pyrene	129-00-0	N.D.	0.003	0.017	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	A141531AA	06/03/2014 04:44	Christopher G Torres	0.98
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201414334611	05/23/2014 22:21	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:06	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	05/31/2014 17:54	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14147SLG026	05/28/2014 11:00	William H Saadeh	1

*=This limit was used in the evaluation of the final result

Sample Description: CB-7-S-9-140521 Grab Soil
Facility# 206145 CRAW
800 Center St-Oakland T0600102230

LL Sample # SW 7476005
LL Group # 1476847
Account # 10880

Project Name: 206145

Collected: 05/21/2014 13:19 by NA

Submitted: 05/23/2014 09:20
Reported: 06/05/2014 13:25

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CB7-9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**mg/kg**	**mg/kg**	**mg/kg**	
10237	Benzene	71-43-2	3.2	0.053	0.53	105.26
10237	Ethylbenzene	100-41-4	29	0.11	0.53	105.26
GC/MS Semivolatiles	**SW-846 8270C**		**mg/kg**	**mg/kg**	**mg/kg**	
10724	Acenaphthene	83-32-9	0.013	0.003	0.017	1
10724	Acenaphthylene	208-96-8	N.D.	0.003	0.017	1
10724	Anthracene	120-12-7	0.004	0.003	0.017	1
10724	Benzo(a)anthracene	56-55-3	N.D.	0.003	0.017	1
10724	Benzo(a)pyrene	50-32-8	N.D.	0.003	0.017	1
10724	Benzo(b)fluoranthene	205-99-2	N.D.	0.003	0.017	1
10724	Benzo(g,h,i)perylene	191-24-2	N.D.	0.003	0.017	1
10724	Benzo(k)fluoranthene	207-08-9	N.D.	0.003	0.017	1
10724	Chrysene	218-01-9	0.005	0.003	0.017	1
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.003	0.017	1
10724	Fluoranthene	206-44-0	0.004	0.003	0.017	1
10724	Fluorene	86-73-7	0.017	0.003	0.017	1
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.003	0.017	1
10724	Naphthalene	91-20-3	2.9	0.003	0.017	1
10724	Phenanthrene	85-01-8	0.038	0.003	0.017	1
10724	Pyrene	129-00-0	0.016	0.003	0.017	1

General Sample Comments

CA ELAP Lab Certification No. 2792; CA NELAP Lab Certification No. 10276CA

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	Benzene/Ethylbenzene 8260	SW-846 8260B	1	R141481AA	05/29/2014 01:29	Andrea E Lando	105.26
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:20	Mitchell R Washel	n.a.
00374	GC/MS - Bulk Soil Prep	SW-846 5035A Modified	2	201414334611	05/23/2014 22:20	Mitchell R Washel	n.a.
06646	GC/MS HL Bulk Sample Prep	SW-846 5035A Modified	1	201414334611	05/23/2014 22:09	Mitchell R Washel	n.a.
10724	PAH's 8270C Soil	SW-846 8270C	1	14147SLG026	05/31/2014 18:19	Linda M Hartenstine	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	14147SLG026	05/28/2014 11:00	William H Saadeh	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1476847
Reported: 06/05/14 at 01:25 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A141531AA	Sample number(s): 7476000,7476004								
Benzene	N.D.	0.0005	0.005	mg/kg	107	109	80-120	1	30
Ethylbenzene	N.D.	0.001	0.005	mg/kg	108	107	80-120	1	30
Batch number: B141502AA	Sample number(s): 7475996,7475999								
Benzene	N.D.	0.0005	0.005	mg/kg	100	98	80-120	3	30
Ethylbenzene	N.D.	0.001	0.005	mg/kg	98	97	80-120	0	30
Batch number: R141481AA	Sample number(s): 7475993-7475995,7475997-7475998,7476001-7476003,7476005								
Benzene	N.D.	0.025	0.25	mg/kg	107	99	80-120	8	30
Ethylbenzene	N.D.	0.050	0.25	mg/kg	96	88	80-120	8	30
Batch number: R141491AA	Sample number(s): 7475994,7475998,7476003								
Ethylbenzene	N.D.	0.050	0.25	mg/kg	96	92	80-120	4	30
Batch number: 14147SLG026	Sample number(s): 7475993-7476005								
Acenaphthene	N.D.	0.003	0.017	mg/kg	84		83-111		
Acenaphthylene	N.D.	0.003	0.017	mg/kg	89		83-127		
Anthracene	N.D.	0.003	0.017	mg/kg	92		82-118		
Benzo(a)anthracene	N.D.	0.003	0.017	mg/kg	90		81-117		
Benzo(a)pyrene	N.D.	0.003	0.017	mg/kg	89		84-122		
Benzo(b)fluoranthene	N.D.	0.003	0.017	mg/kg	83		83-124		
Benzo(g,h,i)perylene	N.D.	0.003	0.017	mg/kg	86		82-120		
Benzo(k)fluoranthene	N.D.	0.003	0.017	mg/kg	93		80-125		
Chrysene	N.D.	0.003	0.017	mg/kg	90		77-116		
Dibenz(a,h)anthracene	N.D.	0.003	0.017	mg/kg	85		81-123		
Fluoranthene	N.D.	0.003	0.017	mg/kg	89		79-123		
Fluorene	N.D.	0.003	0.017	mg/kg	89		86-118		
Indeno(1,2,3-cd)pyrene	N.D.	0.003	0.017	mg/kg	84		84-121		
Naphthalene	N.D.	0.003	0.017	mg/kg	84		77-115		
Phenanthrene	N.D.	0.003	0.017	mg/kg	90		85-116		
Pyrene	N.D.	0.003	0.017	mg/kg	87		81-114		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 14147SLG026	Sample number(s): 7475993-7476005 UNSPK: 7475993								

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1476847
Reported: 06/05/14 at 01:25 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Acenaphthene	82	70	61-128	16	30				
Acenaphthylene	86	74	67-130	16	30				
Anthracene	88	73	41-142	19	30				
Benzo(a)anthracene	89	75	32-150	18	30				
Benzo(a)pyrene	89	78	36-151	14	30				
Benzo(b)fluoranthene	94	81	29-150	14	30				
Benzo(g,h,i)perylene	96	82	41-147	17	30				
Benzo(k)fluoranthene	103	87	44-145	17	30				
Chrysene	92	76	28-146	19	30				
Dibenz(a,h)anthracene	95	80	54-142	18	30				
Fluoranthene	84	73	30-151	14	30				
Fluorene	86	72	55-128	17	30				
Indeno(1,2,3-cd)pyrene	90	76	44-147	18	30				
Naphthalene	-1406 (2)	-1425 (2)	44-142	1	30				
Phenanthrene	91	69	34-147	24	30				
Pyrene	90	73	29-148	20	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: A141531AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7476000	101	101	99	100
7476004	102	103	99	94
Blank	101	102	98	94
LCS	100	101	100	98
LCSD	101	102	100	99
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: B141502AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7475996	105	102	101	91
7475999	104	101	98	96
Blank	104	105	97	93
LCS	103	105	100	98
LCSD	102	103	101	97
Limits:	50-141	54-135	52-141	50-131

Analysis Name: 8260 Ext. Soil Master w/GRO
Batch number: R141481AA

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ChevronTexaco Group Number: 1476847
Reported: 06/05/14 at 01:25 PM

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7475993	88	84	99	109
7475994	97	93	96	104
7475995	87	79	97	106
7475997	84	81	87	102
7475998	94	91	102	127
7476001	88	83	81	86
7476002	80	82	88	114
7476003	92	94	89	88
7476005	87	85	79	79
Blank	101	102	89	82
LCS	106	105	90	88
LCSD	95	95	82	76
Limits:	50-141	54-135	52-141	50-131

Analysis Name: PAH's 8270C Soil
Batch number: 14147SLG026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7475993	98	84	94
7475994	73	76	87
7475995	80	83	93
7475996	77	80	91
7475997	77	80	90
7475998	75	81	90
7475999	72	80	89
7476000	89	93	106
7476001	91	97	107
7476002	87	95	104
7476003	90	97	109
7476004	91	97	108
7476005	91	96	105
Blank	81	86	97
LCS	82	86	95
MS	87	89	101
MSD	83	73	84
Limits:	60-120	69-120	66-137

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody

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For Lancaster Laboratories use only
Acct. # 10880 Group # 1476847 Sample # 7475993-6005
Instructions on reverse side correspond with circled numbers.

1 Client Information

Facility # 206145 WBS
Site Address 800 CENTER STREET, OAKLAND
Chevron PM ALEXIS FISCHER / Lead Consultant CRA
Consultant/Office CRA / RANCHO CORDOVA
Consultant Project Mgr. NATE ALLEN
Consultant Phone # (916) 889-8929
Sampler NATE ALLEN

SCR #:

- ☐ Results in Dry Weight
- ☐ J value reporting needed
- ☐ Must meet lowest detection limits possible for 8260 compounds
- ☐ 8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run _____ oxy's on highest hit
- ☐ Run _____ oxy's on all hits

2 Sample Identification	Collected Date	Collected Time	3 Grab	3 Composite	4 Matrix: Soil	Water	Sediment	Potable	Ground	NPDES	Surface	Air	Oil	Total Number of Containers	5 Analyses Requested: BTEX + MTBE 8021 ☐ 8260 ☐	TPH GRO 8015 ☐ 8260 ☐	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 Full Scan Benzene Ethylbenzene	Oxygenates	Total Lead Method	Dissolved Lead Method	8270C PAH's (16)	
CB-1-7	5/21/14	9:47	X		X									1					X				X	
CB-2-6		10:11																						
CB-2-9		10:06																						
CB-3-2		10:59																						
CB-3-7		10:44																						
CB-3-9		10:41																						
CB-4-4		11:53																						
CB-4-6		11:14																						
CB-5-7		12:03																						
CB-5-9		11:59																						
CB-6-7		12:31																						
CB-7-4.5		13:00																						
CB-7-9		13:19																						

6 Remarks

EMAIL RESULTS TO NALLEN@CRAWORLD.COM

7 Turnaround Time Requested (TAT) (please circle)

Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

8 Data Package Options (please circle if required)

Type I - Full | Type VI (Raw Data)

9	Relinquished by	Date	Time	Received by	Date	Time
		5/22/13	1700	UPS		
	Relinquished by	Date	Time	Received by	Date	Time

Relinquished by Commerical Carrier: UPS X FedEx ____ Other ____

Temperature Upon Receipt 2.4 °C

Received by _____ Date 5.23.14 Time 920

Custody Seals Intact? Yes No

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

ATTACHMENT E

UPDATED SCM

Table 4-1
Site Conceptual Model

CSM Element	CSM Sub-Element	Description	Data Gap Item #	Resolution
Geology and Hydrogeology	Site	Subsurface sediment consists primarily of medium permeability sand and silty sand to the maximum depth explored of 80 feet below grade (fbg). The shallow water-bearing zone is monitored by wells installed at three different depth intervals, approximately 5 to 20 fbg, 35 to 40 fbg, and 55 to 60 fbg. Deeper screened wells have monitored groundwater since 2007. Historical depth to groundwater in the shallow screened wells ranges from approximately 3 to 13 fbg and in the deeper screened wells ranges from 7 to 19 fbg. Groundwater flow in the shallow and intermediate depth wells is consistently toward the southwest. Groundwater flow in the deep wells varies from southwest to northeast.		

Table 4-1
Site Conceptual Model (Continued)

CSM Element	CSM Sub-Element	Description	Data Gap Item #	Resolution
Geology and Hydrogeology	Regional	The site is part of the Oakland sub-area of the East Bay Plain. Lithology beneath the site is Holocene and late Pleistocene alluvial fan deposits. 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, provided by East Bay Municipal Utility District (EBMUD).		
Surface Water Bodies		The nearest surface water body is Oakland Inner Harbor, approximately 1 mile south of the site and downgradient edge of the residual groundwater plume.		
Nearby Wells		No water supply wells have been identified within a 2,000-foot radius of the site.		
Release Source and Volume		Based on soil data, the primary source of hydrocarbons was the former fuel USTs located on the west edge of the site and the former dispenser island located in the southwestern corner of the site. The release volume is unknown In 1973, four 1,000 gallon USTs were removed when the station closed. In 1999, Gettler-Ryan (G-R) removed dispenser islands, sump, hydraulic hoist, building foundations, garbage enclosure, yard lights and asphalt. During station demolition activities, an orphaned 1,000-gallon gasoline UST, an orphaned 550-gallon used-		

Table 4-1
Site Conceptual Model (Continued)

CSM Element	CSM Sub-Element	Description	Data Gap Item #	Resolution
		oil UST, and a buried 55-gallon drum were encountered; the USTs and drum were removed in 2001.		
LNAPL		No LNAPL has been observed at the site.		
Source Removal Activities		In 2002, G-R excavated approximately 1,600 tons of hydrocarbon-bearing soil in the areas of the former fuel USTs, dispenser islands, hydraulic lift, and sumps, to depths of 12 to 14 fbg. Prior to backfilling the excavation, approximately 900 pounds of oxygen releasing compound was placed at the base of the excavation. In 2011, a low-flow air sparge pilot test was conducted which reduced dissolved TPHg, toluene, ethylene and xylene concentrations in MW-3 by one order of magnitude.		
Contaminants of Concern		Contaminants of concern for the site include petroleum hydrocarbon constituents, primarily TPHg, TPHd, and benzene. The presence of these constituents is consistent with the site history as a gasoline service station. Organochlorine pesticides were detected above ESL's in four onsite samples collected in 2010 – Chevron is currently planning to treat that impact as a separate environmental case.		
Petroleum Hydrocarbons in Soil		Residual hydrocarbon concentrations are highest 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		

Table 4-1
Site Conceptual Model (Continued)

CSM Element	CSM Sub-Element	Description	Data Gap Item #	Resolution
		water table.		
Petroleum Hydrocarbons in Groundwater		Dissolved TPHd (using silica gel cleanup with reverse surrogate, capric acid), at concentrations above ESL, is limited to wells MW-1A, MW-3 and MW-7. TPHd from onsite sources is laterally defined in all directions. Dissolved TPHg, at concentrations above the ESL, is limited to onsite wells MW-3 and MW-4 and is adequately defined. Dissolved benzene is detected only in onsite well MW-3 and is laterally defined in all directions; the benzene concentration exceeds the ESL No MTBE is detected in groundwater. The plume is limited to the shallow depth interval and vertically defined by wells MW-9 through MW-17, which do not contain dissolved hydrocarbons. TPHd in offsite, upgradient well MW-7 has shown increasing concentrations since August 2011. The upgradient source for TPHd in MW-7 has not been identified, but due to the offsite up-gradient location of MW-7, it is unlikely to be associated with releases at the former service station site.		
Risk Evaluation		Vapor Intrusion Risk: Hydrocarbon concentrations in soil vapor are currently below the residential ESLs for shallow soil gas. The soil vapor samples collected in May 2011, one month after the low flow air sparge pilot test, contained concentrations up to three orders of magnitude above the residential ESL for soil gas. After that event, soil vapor samples were collected quarterly to confirm concentrations detected in May 2011. Over the next four quarters, concentrations decreased by up to five orders of magnitude and were below the residential ESLs for soil gas for all vapor samples for at least three quarters. Additionally, oxygen concentration data collected from vapor samples in May 2012 ranged from 13 to 19 percent,		

Table 4-1
Site Conceptual Model (Continued)

CSM Element	CSM Sub-Element	Description	Data Gap Item #	Resolution
		indicating a sufficient bioattenuation zone between the probe and the surface. Direct contact with impacted soil: Because the hydrocarbon-bearing soil is at 7 to 11 fbg, the exposure route for incidental ingestion, dermal contact, and dust inhalation is incomplete for residential and commercial/industrial use. The exposure pathway is partially complete for construction workers, depending on the scope of work. Volatilization from soil and groundwater to air: Unknown, site is vacant and fenced; current risk is minimal. Current (2014) data from 5-10 fbg show that benzene, ethylbenzene and naphthalene concentrations in soil in the south central portion of the site exceed the LTC criteria for direct contact or outdoor air exposure scenarios. Because recent soil vapor samples discussed above show that shallow soil gas concentrations are below residential ESLs, no significant exposure risk to outdoor air exists.	1	

Table 5-1
Data Gaps Summary and Proposed Investigation

Item	Data Gap Item #	Proposed Investigation	Rationale	Analyses
1	1	Prepare a soil management plan.	Due to the depth of hydrocarbon bearing soil beneath the site at 7 to 11 fbg, contact by residential and commercial/ industrial receptors are incomplete, and no current mitigation measures are needed. Mitigation measures to protect construction/ trench workers are needed when future subsurface work occurs.	