

C A M B R I A

December 21, 2006

Mr. Don Hwang
Alameda County Environmental Health Services
UST Local Oversight Program
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Fourth Quarter 2006 Monitoring Report**
Former ARCO Service Station
706 Harrison Street
Oakland, California
STID 3749
Fuel Leak Case RO0000484
Cambria Project #230-0116



Dear Mr. Hwang:

On behalf of Mr. Bo K. Gin, Cambria Environmental Technology, Inc. is submitting this *Fourth Quarter 2006 Monitoring Report* for the subject site. This report describes fourth quarter 2006 activities and results as well as anticipated first quarter 2007 activities.

If you have any questions or comments regarding this report, please contact Mark Jonas at (510) 420-3307.

Sincerely,
Cambria Environmental Technology, Inc.

Mark Jonas, P.G.
Senior Project Manager

Attachments: *Fourth Quarter 2006 Monitoring Report*

cc: Mr. Bo K. Gin, 342 Lester Avenue, Oakland, California 94606
Mr. Mike Rauser, Aqua Science Engineering, 208 W. Pintado Road, Danville, California 94526

**Cambria
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FOURTH QUARTER 2006 MONITORING REPORT

**Former ARCO Service Station
706 Harrison Street
Oakland, California
STID 3749
Fuel Leak Case RO0000484
Cambria Project #230-0116**

December 21, 2006

Prepared for:

Mr. Bo K. Gin
342 Lester Avenue
Oakland, California 94606

Prepared by:


Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, California 94608

Written by:



Christina McClelland
Staff Geologist

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Mark Jonas, P.G.
Senior Project Manager



FOURTH QUARTER 2006 MONITORING REPORT

Former ARCO Service Station
706 Harrison Street
Oakland, California
STID 3749
Fuel Leak Case RO0000484
Cambria Project #230-0116

December 21, 2006

INTRODUCTION



On behalf of Mr. Bo K. Gin, Cambria Environmental Technology, Inc. (Cambria) is submitting this *Fourth Quarter 2006 Monitoring Report* for the subject site. Presented below are the fourth quarter 2006 groundwater monitoring activities and results and the anticipated first quarter 2007 activities.

Figure 1 presents recent monitoring groundwater elevations and selected hydrochemical data. Table 1 provides recent and historic groundwater level measurements and elevations, and hydrochemical data. Appendix A contains field data sheets for this monitoring event. Appendix B presents the recent laboratory analytical report. Appendix C includes time-series plots with benzene and methyl tertiary butyl ether (MTBE) concentrations, and groundwater elevations. Appendix D provides monitoring groundwater elevations and analytical data for the neighboring former Shell Station located at 726 Harrison Street, in Oakland, California.

FOURTH QUARTER 2006 ACTIVITIES

Monitoring Activities

Field Activities: On October 16, 2006, Muskan Environmental Sampling (MES) conducted quarterly monitoring and sampling activities. MES measured well water levels in monitoring wells MW-1 through MW-7 (Figure 1). MES collected groundwater samples from monitoring wells MW-1 through MW-7. The groundwater depth measurements have been submitted to the GeoTracker database.

Prior to groundwater sampling, groundwater levels were measured in all monitoring wells. Each monitoring well was then purged before sampling. MES purged at least three well-casing volumes of groundwater from each monitoring well. Field measurements of pH, conductivity, and temperature of purged groundwater were measured after the extraction of each successive casing volume. Well purging continued until consecutive pH, specific conductance, and temperature measurements appeared to stabilize. Field measurements, purge volumes, and sample collection data were recorded on field sampling data forms, presented in Appendix A.

Groundwater samples were collected using new disposable bailers, decanted into appropriate sampling containers supplied by the analytical laboratory. Samples were labeled, placed in protective foam sleeves, stored on crushed, water-based ice at or below 4 degrees Celsius and transported under a chain-of-custody (COC) to the laboratory. The COC used for this monitoring event is provided in Appendix B.

Sample Analyses: Groundwater samples were analyzed by McCampbell Analytical, Inc. of Pacheco, California, a California-certified laboratory. All groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified United States Environmental Protection Agency (EPA) Method SW8015C; benzene, toluene, ethylbenzene, and total xylenes (BTEX) and MTBE by EPA Method SW8021B; and all samples were analyzed for MTBE by EPA Method SW8260B. The analytical laboratory report is included in Appendix B. Groundwater analytical results are provided on Table 1 and summarized on Figure 1. Groundwater analytical results have been submitted to the GeoTracker database.

Monitoring Results

Groundwater Flow Direction and Gradient: Based on depth-to-water measurements collected during the monitoring event on October 16, 2006, groundwater appears to flow towards the south with an apparent gradient of 0.02 feet per foot (Figure 1). The gradient and flow direction are consistent with historical data. Depth-to-water and groundwater elevation data for the site are presented in Table 1.

Hydrocarbon Distribution in Groundwater: Hydrocarbons were detected in down-gradient well MW-1, source area well MW-2, and up-gradient well MW-4 during this sampling event (Figure 1, Table 1). The highest TPHg, benzene, toluene, ethylbenzene, and xylenes concentrations were detected in monitoring well MW-2 at 110,000 micrograms per liter ($\mu\text{g/L}$), 3,600 $\mu\text{g/L}$, 16,000 $\mu\text{g/L}$, 2,400 $\mu\text{g/L}$, and 12,000 $\mu\text{g/L}$, respectively. TPHg and BTEX concentrations were detected in well MW-1 at 2,000 $\mu\text{g/L}$, 470 $\mu\text{g/L}$, 6.4 $\mu\text{g/L}$, 38 $\mu\text{g/L}$, and 13 $\mu\text{g/L}$, respectively.

TPHg and BTEX concentrations remain elevated in upgradient well MW-4 at 3,200 $\mu\text{g/L}$, 440 $\mu\text{g/L}$, 26 $\mu\text{g/L}$, 34 $\mu\text{g/L}$, and 63 $\mu\text{g/L}$, respectively. Analytical results are presented in Figure 1, Table 1, and Appendix B.

Significantly higher elevated concentrations of BTEX are present up-gradient of the site, on the adjacent property (see Figure 1 and Appendix D).


MTBE Distribution in Groundwater: MTBE was detected in down-gradient well MW-1, source area well MW-2 and up-gradient well MW-4 during this sampling event.

The highest on-site MTBE concentration was detected in up-gradient well MW-4 at 7,500 $\mu\text{g/L}$. MTBE concentrations in wells MW-1 and MW-2 were 6,400 $\mu\text{g/L}$, and 2,700 $\mu\text{g/L}$, respectively.

Significantly higher concentrations of MTBE were identified in wells located up-gradient, on the adjacent property. The highest MTBE concentration was detected in monitoring well MW-5, on the adjacent property, at 35,000 µg/L (Figure 1).

ANTICIPATED FIRST QUARTER 2007 ACTIVITIES

Monitoring Activities



During first quarter of 2007, Cambria will measure water levels and collect groundwater samples from monitoring wells MW-1 through MW-7. Pursuant to ACHCSA's letter dated February 25, 2003, the well sampling schedule was revised so that wells MW-1, MW-2, and MW-4 are sampled on a quarterly basis and wells MW-3, MW-5, MW-6, and MW-7 are sampled on a semi-annual basis, during the first and third quarters. Groundwater samples will be analyzed for TPHg by EPA Method SW8015C, BTEX, and MTBE by EPA Method SW8021B and by EPA Method SW8260B. Cambria will prepare a groundwater monitoring report summarizing the monitoring activities and results.

ATTACHMENTS:

Figure 1 – Groundwater Elevation Contour and Hydrocarbon Concentration Map

Table 1 – Groundwater Elevation and Analytical Data

Appendix A – Groundwater Monitoring Field Data Sheets

Appendix B – Laboratory Analytical Report

Appendix C – Benzene and MTBE Concentration Graphs

Appendix D – Former Shell Station Groundwater Monitoring and Analytical Results

FIGURE



FIGURE 1

0 1/8 1/4 1/2 1
SCALE : 1" = 1/4 MILE

Former ARCO Station

706 Harrison Street
Oakland, California



C A M B R I A

Vicinity Map

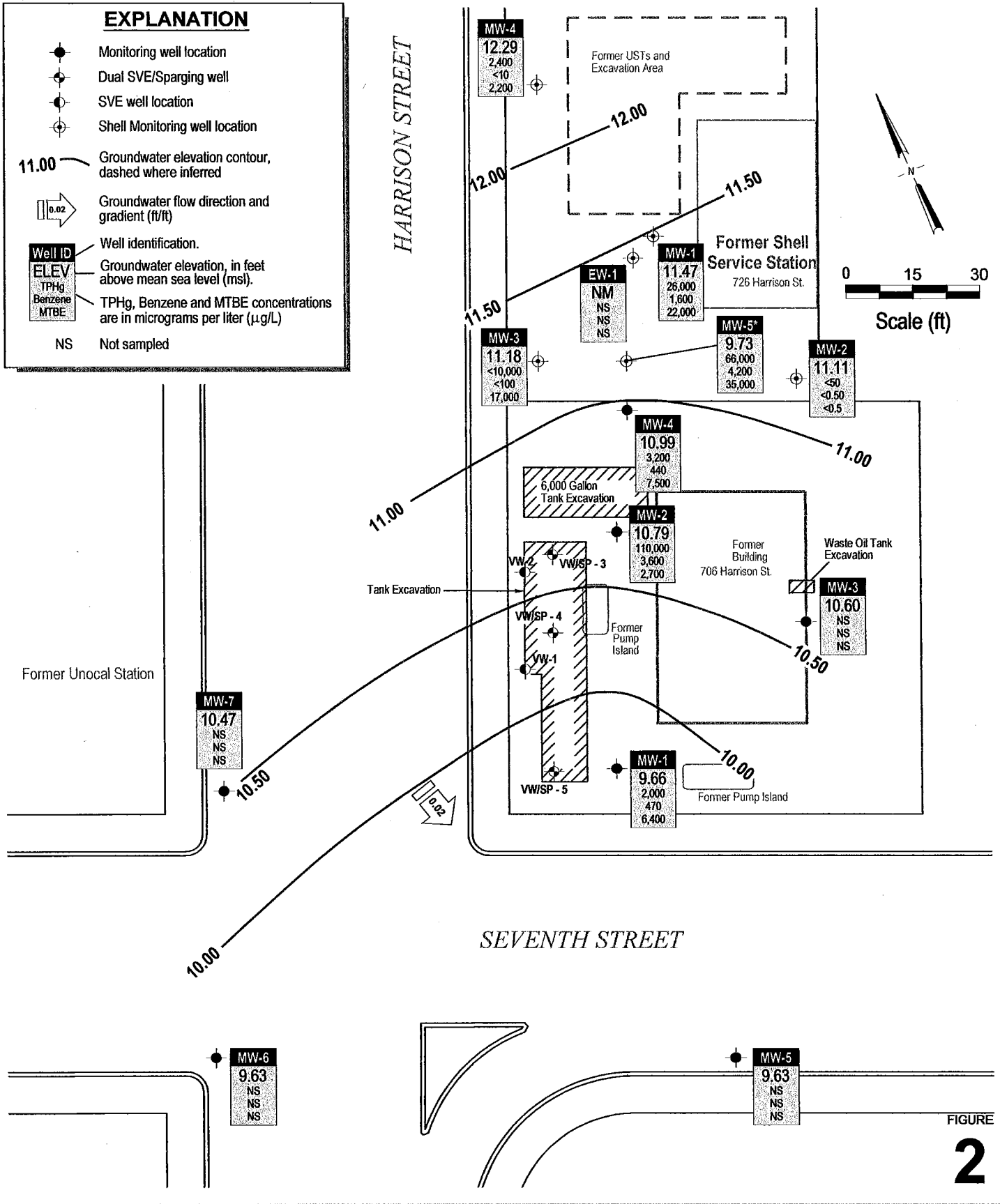
EXPLANATION

- Monitoring well location
- Dual SVE/Sparging well
- SVE well location
- Shell Monitoring well location
- 11.00 Groundwater elevation contour, dashed where inferred
- 0.02 Groundwater flow direction and gradient (ft/ft)
- | Well ID |
|---------|
| ELEV |
| TPHg |
| Benzene |
| MTBE |

 Well identification.
- | ELEV |
|---------|
| TPHg |
| Benzene |
| MTBE |

 Groundwater elevation, in feet above mean sea level (msl).
- | TPHg |
|---------|
| Benzene |
| MTBE |

 TPHg, Benzene and MTBE concentrations are in micrograms per liter (µg/L)
- NS Not sampled



H:\BO_GIN_OAKLAND\FIGURES\2008\KQ\065-IMP.DWG

FIGURE

2

Former ARCO Station

706 Harrison Street
Oakland, California



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Groundwater Elevation Contour and Hydrocarbon Concentration Map

October 16, 2006

TABLE

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Table 1. Groundwater Elevation and Analytical Data: Former ARCO Station - 706 Harrison Street, Oakland, California

Well ID/ Sample ID TOC	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft-msl)	TPHg (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	MTBE by 8021B (mg/L)	MTBE by 8260B (mg/L)	Notes	
MW-1 29.15	8/13/1993	17.40	11.75	20,000	8,500	640	280	440	-	-		
	12/14/1993	17.27	11.88	17,000	9,200	1,200	4,400	540	-	-		
	4/15/1994	17.00	12.15	9,500	3,600	530	160	280	-	-		
	12/29/1994	16.40	12.75	-	-	-	-	-	-	-		
	7/19/1996	15.83	13.32	17,000	5,200	1,100	330	530	-	-	sheen/odor	
	1/27/1997	13.58	15.57	30,000	9,800	1,300	790	880	400	-	b, sheen/odor	
	6/18/1997	16.11	13.04	19,000	5,600	1,400	510	770	1,200	800	a, b	
	9/18/1997	16.62	12.53	48,000	18,000	4,400	1,000	1,700	ND<640	-	b	
	12/10/1997	15.93	13.22	22,000	4,900	1,300	580	650	460	260	a, b, odor	
	2/18/1998	11.56	17.59	16,000	5,000	750	400	780	1,800	-	b	
	5/12/1998	13.53	15.62	19,000	4,600	810	450	770	5,500	-	b, c	
	8/18/1998	15.19	13.96	12,000	3,600	1,300	300	570	5,100	3,700	a, b	
	11/24/1998	15.67	13.48	13,000	3,600	890	330	380	6,100	-	b	
	2/4/1999	15.31	13.84	20,000	5,900	830	450	500	4,900	-	b	
	5/18/1999	14.95	14.20	23,000	7,000	1,600	520	830	6,100	-	b	
	8/27/1999	15.84	13.31	19,000	5,800	1,700	410	710	1,800	2,100	a, b	
	11/18/1999	16.39	12.76	20,000	4,900	630	410	580	4,900	3,600	b	
	2/29/2000	13.43	15.72	12,000	2,800	24	290	170	3,100	3,400	a	
	5/25/2000	15.08	14.07	12,000	2,200	120	330	260	9,100	12,000	a, b	
	8/9/2000	16.09	13.06	13,000	2,500	44	310	140	16,000	-	b	
	11/9/2000	15.90	13.25	11,000	2,500	140	380	150	11,000	12,000	b	
	1/29/2001	16.05	13.10	9,600	3,100	100	77	200	2,600	2,400	b	
	4/16/2001	16.90	12.25	3,300	1,200	4.4	2.7	28	900	940	b	
	8/14/2001	17.13	12.02	2,000	500	3.4	24	7.8	68	53	a	
	10/22/2001	16.11	13.04	220	83	0.63	2.8	ND<0.5	ND<10	5.7	a	
	2/1/2002	16.93	12.22	640	220	1.7	4.7	0.57	ND<10	-	a	
	5/10/2002	15.09	14.06	230	26	0.97	ND<0.5	ND<0.5	ND<5.0	-	a	
	7/8/2002	15.20	13.95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5		
	10/2/2002	15.70	13.45	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	1/23/2003	15.09	14.06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	4/29/2003	13.02	16.13	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	26.17	7/18/2003	14.50	11.67	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
		10/9/2003	13.81	12.36	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
1/28/2004		13.09	13.08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
4/7/2004		14.97	11.20	180	60	0.56	1.9	ND<0.5	ND<5.0	-	a	
7/23/2004		14.15	12.02	130	36	ND<0.5	0.65	ND<0.5	ND<5.0	-	a	
10/12/2004		16.30	9.87	ND<50	2.5	1.5	ND<0.5	0.86	ND<5.0	-		
2/14/2005		13.85	12.32	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
4/27/2005		13.35	12.82	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
7/19/2005		14.68	11.49	4,500	1,400	6.5	160	58	630	-	a	
10/18/2005		15.15	11.02	1,700	340	ND<5.0	28	ND<5.0	8,000	7,200	a	
1/23/2006		13.27	12.90	3,100	790	6.5	79	32	4,200	5,100	a	
4/12/2006		12.33	13.84	7,200	2,600	110	350	320	5,600	4,000	a	
7/10/2006		14.93	11.24	2,700	550	4.2	77	47	5,500	8,300	a	
10/16/2006		16.51	9.66	2,000	470	6.4	38	13	6,300	6,400	a	
MW-2 30.51		8/13/1993	17.05	13.46	34,000	6,800	10,000	740	3,900	-	-	
	12/14/1993	18.28	12.23	16,000	3,200	4,200	500	1,700	-	-		
	4/15/1994	18.10	12.41	23,000	2,500	4,200	470	1,800	-	-		
	12/29/1994	17.40	13.11	-	-	-	-	-	-	-		

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Table 1. Groundwater Elevation and Analytical Data: Former ARCO Station - 706 Harrison Street, Oakland, California

Well ID/ Sample ID TOC	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft-msl)	TPHg (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	MTBE by 8021B (mg/L)	MTBE by 8260B (mg/L)	Notes
MW-2 ^{cont}	7/19/1996	16.72	13.79	90,000	7,300	14,000	1,600	7,300	-	-	odor
	1/27/1997	14.89	15.62	63,000	7,100	13,000	1,600	7,100	500	-	b, odor
	6/18/1997	17.12	13.39	52,000	5,100	10,000	1,400	6,000	ND<200	-	b
	9/18/1997	17.63	12.88	110,000	9,400	23,000	2,600	13,000	ND<890	-	b, sheen/odor
	12/10/1997	16.98	13.53	39,000	2,600	5,300	940	3,900	780	320	b, odor
	2/18/1998	12.61	17.90	85,000	9,000	19,000	2,300	11,000	2,400	-	b
	5/12/1998	14.45	16.06	110,000	9,500	21,000	2,500	12,000	ND<1,200	-	b
	8/18/1998	16.14	14.37	64,000	6,000	13,000	1,700	7,800	2,000	1,300	a, b
	11/24/1998	16.70	13.81	78,000	5,300	14,000	2,300	11,000	ND<2,000	-	b, g
	2/4/1999	18.39	12.12	66,000	5,800	16,000	2,600	12,000	3,000	-	b, g
	5/18/1999	15.90	14.61	78,000	6,700	17,000	2,400	10,000	4,300	-	b
	8/27/1999	16.79	13.72	91,000	7,400	17,000	2,300	11,000	1,200	1,000	a, b
	11/18/1999	17.32	13.19	180,000	7,000	20,000	3,300	16,000	ND<6,000	1,700	b, g
	2/29/2000	14.37	16.14	86,000	5,500	13,000	2,000	9,500	3,500	4,700	a
	5/25/2000	16.01	14.50	110,000	6,300	14,000	2,400	10,000	7,500	6,500	a, b, g
	8/9/2000	17.02	13.49	77,000	5,000	13,000	2,000	8,600	5,900	-	b
	11/9/2000	17.00	13.51	70,000	4,800	12,000	1,900	8,000	9,400	8,300	b
	1/29/2001	18.31	12.20	110,000	8,200	21,000	2,800	13,000	2,500	1,900	b, g
	4/16/2001	18.59	11.92	97,000	7,400	15,000	2,500	12,000	ND<3,000	ND<50	b, g
	8/14/2001	18.74	11.77	97,000	6,200	14,000	2,400	13,000	ND<250	ND<50	a, j
	10/22/2001	18.27	12.24	71,000	5,900	15,000	2,400	12,000	ND<1,400	150	a
	2/1/2002	18.05	12.46	1,400	11	88	44	210	ND<5.0	-	a
	5/10/2002	17.15	13.36	97,000	4,500	15,000	2,500	12,000	ND<3,000	-	a, g
	7/8/2002	15.30	15.21	42,000	2,100	6,500	2,200	8,800	ND<1,000	65	a
	10/2/2002	15.89	14.62	70,000	1,700	5,700	1,900	8,300	ND<1,700	-	a
	1/23/2003	17.51	13.00	40,000	1,900	7,800	1,200	5,600	ND<1,000	-	a
	4/29/2003	15.31	15.20	82,000	2,500	11,000	2,200	9,400	ND<2,000	-	a
	7/18/2003	16.84	10.69	57,000	2,100	8,700	2,200	10,000	-	ND<50	a
	10/9/2003	16.05	11.48	49,000	1,800	7,000	1,700	7,600	ND<1,500	26	a
	1/28/2004	15.39	12.14	550	21	33	3.0	61	ND<100	-	a
	4/7/2004	16.01	11.52	41,000	2,500	11,000	1,900	8,000	ND<2,000	-	a
	7/23/2004	15.30	12.23	81,000	2,000	12,000	2,500	12,000	ND<2,000	-	a, h
	10/12/2004	17.87	9.66	75,000	2,600	13,000	2,300	11,000	ND<1,300	-	a
2/14/2005	14.80	12.73	75,000	2,600	12,000	2,400	10,000	ND<1,800	-	a, h	
4/27/2005	14.63	12.90	61,000	2,800	11,000	1,600	7,000	ND<2,700	-	a	
7/19/2005	15.60	11.93	90,000	3,700	14,000	2,600	10,000	ND<7,000	-	a	
10/18/2005	16.08	11.45	77,000	3,300	14,000	2,400	11,000	7,900	6,400	a	
1/23/2006	14.20	13.33	54,000	1,600	8,000	1,600	6,700	6,600	7,000	a	
4/12/2006	12.51	15.02	43,000	1,800	7,800	1,300	5,200	6,400	4,900	a	
7/10/2006	14.76	12.77	86,000	2,800	11,000	2,100	9,600	<6,500	400	a, h	
10/16/2006	16.74	10.79	110,000	3,600	16,000	2,400	12,000	ND<6000	2,700	a, h	
MW-3	8/13/1993	17.05	12.72	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	-	-	No SVOCs.
29.77	12/14/1993	17.70	12.07	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.5	-	-	
	4/15/1994	17.40	12.37	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	-	
	12/29/1994	16.80	12.97	-	-	-	-	-	-	-	
	7/19/1996	16.28	13.49	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	-	
	1/27/1997	13.83	15.94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
	6/18/1997	16.53	13.24	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
	9/18/1997	17.07	12.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	

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Table 1. Groundwater Elevation and Analytical Data: Former ARCO Station - 706 Harrison Street, Oakland, California

Well ID/ Sample ID TOC	Date Sampled	Depth to Groundwater		TPHg (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	MTBE by 8021B (mg/L)	MTBE by 8260B (mg/L)	Notes		
		Water (ft)	Elevation (ft-msl)										
MW-3 ^{cont}	12/10/1997	16.15	13.62	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-			
	2/18/1998	11.80	17.97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-			
	5/12/1998	13.85	15.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-			
	8/18/1998	15.57	14.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-			
	11/24/1998	16.04	13.73	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-			
	2/4/1999	17.80	11.97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-			
	5/18/1999	15.29	14.48	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-			
	8/27/1999	16.15	13.62	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-			
	11/18/1999	16.77	13.00	-	-	-	-	-	-	-	-		
	2/29/2000	13.71	16.06	ND<50	2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-		
	5/25/2000	15.46	14.31	-	-	-	-	-	-	-	-		
	8/9/2000	16.46	13.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-		
	11/9/2000	16.25	13.52	-	-	-	-	-	-	-	-		
	1/29/2001	16.52	13.25	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-		
	4/16/2001	16.95	12.82	-	-	-	-	-	-	-	-		
	8/14/2001	17.11	12.66	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-		
	10/22/2001	16.50	13.27	-	-	-	-	-	-	-	-		
	2/1/2002	16.90	12.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-		
	5/10/2002	15.03	14.74	-	-	-	-	-	-	-	-		
	7/8/2002	14.45	15.32	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-		
	10/2/2002	15.03	14.74	-	-	-	-	-	-	-	-		
	1/23/2003	15.48	14.29	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-		
	4/29/2003	12.49	17.28	-	-	-	-	-	-	-	-		
	26.79	7/18/2003	14.80	11.99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	
		10/9/2003	14.13	12.66	-	-	-	-	-	-	-	-	
		1/28/2004	13.47	13.32	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	
		4/7/2004	15.41	11.38	-	-	-	-	-	-	-	-	
		7/23/2004	14.54	12.25	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	
		10/12/2004	16.58	10.21	-	-	-	-	-	-	-	-	
		2/14/2005	14.19	12.60	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	
		4/27/2005	13.68	13.11	-	-	-	-	-	-	-	-	
		7/19/2005	15.15	11.64	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	
		10/18/2005	15.60	11.19	-	-	-	-	-	-	-	-	
1/23/2006		13.65	13.14	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	270	260		
4/12/2006		11.94	14.85	-	-	-	-	-	-	-	-		
7/10/2006		14.48	12.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1,100	1,600		
10/16/2006		16.19	10.60	--	--	--	--	--	--	--	--		
MW-4 31.18		12/16/1994	18.10	13.08	2,500	32	6.5	4.5	17	-	-		
	12/29/1994	17.95	13.23	-	-	-	-	-	-	-			
	7/19/1996	17.38	13.80	3,300	520	39	67	60	-	-			
	1/27/1997	15.25	15.93	4,500	860	55	100	91	1,100	-	b		
	6/18/1997	17.61	13.57	2,700	700	52	81	76	2,200	2,300	a, b		
	9/18/1997	18.01	13.17	3,900	760	38	56	64	ND<170	-	b		
	12/10/1997	17.45	13.73	12,000	1,800	120	210	210	2,900	2,600	a, b		
	2/18/1998	13.09	18.09	1,700	210	8	6.7	16	200	-	b		
	5/12/1998	14.78	16.40	2,100	300	15	36	34	920	-	b, c		
	8/18/1998	16.59	14.59	4,700	1,000	130	110	150	5,200	4,900	a, b		
	11/24/1998	17.18	14.00	3,000	810	44	76	94	4,800	-	b		
	2/4/1999	18.90	12.28	2,800	770	50	69	69	3,100	-	b		

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Table 1. Groundwater Elevation and Analytical Data: Former ARCO Station - 706 Harrison Street, Oakland, California

Well ID/ Sample ID TOC	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft-msl)	TPHg (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	MTBE by 8021B (mg/L)	MTBE by 8260B (mg/L)	Notes	
MW-4 ^{cont}	5/18/1999	16.30	14.88	4,000	780	57	7.7	79	4,800	-	b	
	8/27/1999	17.21	13.97	4,100	870	51	74	99	3,300	4,100	a, b	
	11/18/1999	17.77	13.41	3,000	760	43	67	65	5,100	5,400	b	
	2/29/2000	14.85	16.33	4,600	1,000	64	94	170	4,100	4,600	a	
	5/25/2000	16.45	14.73	2,600	540	39	59	41	3,500	5,300	b	
	8/9/2000	17.47	13.71	4,400	930	66	98	79	9,400	-	b	
	11/9/2000	17.45	13.73	4,200	630	34	54	44	7,800	9,400	b	
	1/29/2001	18.90	12.28	3,100	710	34	66	51	9,400	8,000	b	
	4/16/2001	19.17	12.01	160	1.2	1.3	ND<0.5	12	22	20	b	
	8/14/2001	19.20	11.98	1,700	190	11	35	13	300	250	b	
	10/22/2001	18.95	12.23	1,100	120	3.7	29	7.9	ND<25	16	a	
	2/1/2002	19.05	12.13	2,600	25	43	21	280	ND<5.0	-	a	
	5/10/2002	17.69	13.49	490	3.5	2.0	2.1	2.2	ND<5.0	-	a	
	7/8/2002	15.75	15.43	170	0.51	0.62	1.6	1.2	ND<5.0	2.0	m	
	10/2/2002	16.30	14.88	240	1.7	2.0	2.2	0.88	ND<5.0	-	a	
	1/23/2003	17.74	13.44	ND<50	0.52	4.1	ND<0.5	1.9	ND<5.0	-	-	
	4/29/2003	15.47	15.71	1,300	75	4.8	21	7.3	130	120	a	
	28.20	7/18/2003	17.08	11.12	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	0.74	a
		10/9/2003	16.25	11.95	210	4.7	0.57	1.6	1.1	ND<10	10	a
		1/28/2004	15.65	12.55	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	a
4/7/2004		16.49	11.71	-	-	-	-	-	-	-	-	
4/12/2004		-	-	770	56	3.2	7.0	6.5	120	160	a	
7/23/2004		15.86	12.34	1,100	130	11	17	17	790	800	a	
10/12/2004		18.05	10.15	150	0.86	ND<0.5	ND<0.5	0.97	ND<10	-	a	
2/14/2005		15.30	12.90	1,500	200	16	30	31	420	550	a	
4/27/2005		14.20	14.00	3,000	520	100	27	86	600	480	a	
7/19/2005		16.08	12.12	1,800	310	16	36	25	1,000	1,100	a	
10/18/2005		16.55	11.65	2,500	450	28	47	51	3,800	4,500	a	
1/23/2006		14.66	13.54	1,300	170	13	14	14	2,500	3,300	a	
4/12/2006		12.92	15.28	940	150	12	7.6	12	3,400	3,300	a	
7/10/2006		15.38	12.82	1,700	260	14	26	20	4,300	5,900	a	
10/16/2006		17.21	10.99	3,200	440	26	34	63	7,800	7,500	a	
MW-5 28.04	12/16/1994	16.07	11.97	ND<50	1.1	ND<0.5	ND<0.5	2.4	-	-	-	
	12/29/1994	16.10	11.94	-	-	-	-	-	-	-	-	
	7/19/1996	15.49	12.55	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	-	-	
	1/27/1997	13.60	14.44	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	-	
	6/18/1997	15.55	12.49	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	-	
	9/18/1997	16.16	11.88	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	-	
	12/10/1997	15.41	12.63	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	-	
	2/18/1998	10.93	17.11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	-	
	5/12/1998	13.25	14.79	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	-	
	8/18/1998	14.75	13.29	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	-	
	11/24/1998	15.15	12.89	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	-	
	2/4/1999	14.61	13.43	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	-	
	5/18/1999	14.15	13.89	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	-	
	8/27/1999	15.43	12.61	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	-	
	11/18/1999	15.97	12.07	-	-	-	-	-	-	-	-	
2/29/2000	13.16	14.88	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	-		
5/25/2000	14.72	13.32	-	-	-	-	-	-	-	-		

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Well ID/ Sample ID TOC	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft-msl)	TPHg (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	MTBE by 8021B (mg/L)	MTBE by 8260B (mg/L)	Notes	
MW-5 ^{cont}	8/9/2000	15.68	12.36	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	11/9/2000	15.39	12.65	-	-	-	-	-	-	-		
	1/29/2001	15.97	12.07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	4/16/2001	16.24	11.80	-	-	-	-	-	-	-		
	8/14/2001	17.39	10.65	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	10/22/2001	15.90	12.14	-	-	-	-	-	-	-		
	2/1/2002	16.55	11.49	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	5/10/2002	15.12	12.92	-	-	-	-	-	-	-		
	7/8/2002	15.92	12.12	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	10/2/2002	16.42	11.62	-	-	-	-	-	-	-		
	1/23/2003	14.90	13.14	ND<50	20	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	4/29/2003	12.05	15.99	-	-	-	-	-	-	-		
	25.07	7/18/2003	14.28	10.79	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
		10/9/2003	13.36	11.71	-	-	-	-	-	-	-	
		1/28/2004	12.68	12.39	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
		4/7/2004	14.71	10.36	-	-	-	-	-	-	-	
		7/23/2004	13.49	11.58	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	i
		10/12/2004	15.88	9.19	-	-	-	-	-	-	-	
		2/14/2005	13.22	11.85	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	i
4/27/2005		13.40	11.67	-	-	-	-	-	-	-		
7/19/2005		14.21	10.86	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	i	
10/18/2005		14.79	10.28	-	-	-	-	-	-	-		
1/23/2006	13.12	11.95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	i		
4/12/2006	11.39	13.68	-	-	-	-	-	-	-			
7/10/2006	14.40	10.67	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	25	-	i		
10/16/2006	15.44	9.63	--	--	--	--	--	--	-			
MW-6 29.10	12/16/1994	17.74	11.36	-	-	-	-	-	-	-		
	12/29/1994	17.40	11.70	-	-	-	-	-	-	-		
	7/19/1996	16.60	12.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	-	-		
	1/27/1997	14.88	14.22	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	6/18/1997	16.73	12.37	51	22	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	c	
	9/18/1997	17.24	11.86	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	12/10/1997	16.56	12.54	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	2/18/1998	12.93	16.17	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	5/12/1998	14.35	14.75	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	8/18/1998	15.94	13.16	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	11/24/1998	16.46	12.64	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	2/4/1999	18.25	10.85	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	5/18/1999	15.73	13.37	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	8/27/1999	15.64	13.46	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	11/18/1999	17.04	12.06	-	-	-	-	-	-	-		
	2/29/2000	14.55	14.55	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	5/25/2000	15.86	13.24	-	-	-	-	-	-	-		
8/9/2000	16.80	12.30	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-			
11/9/2000	16.60	12.50	-	-	-	-	-	-	-			

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MW-6 ^{cont}	1/29/2001	17.00	12.10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	4/16/2001	17.15	11.95	-	-	-	-	-	-	-		
	8/14/2001	17.30	11.80	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	10/22/2001	17.13	11.97	-	-	-	-	-	-	-		
	2/1/2002	16.57	12.53	70	37	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	a	
	5/10/2002	15.25	13.85	-	-	-	-	-	-	-		
	7/8/2002	15.79	13.31	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	10/2/2002	16.38	12.72	-	-	-	-	-	-	-		
	1/23/2003	16.03	13.07	ND<50	21	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	4/29/2003	14.19	14.91	-	-	-	-	-	-	-		
	26.13	7/18/2003	15.47	10.66	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
		10/9/2003	14.73	11.40	-	-	-	-	-	-	-	
		1/28/2004	14.05	12.08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
4/7/2004		14.41	11.72	-	-	-	-	-	-	-		
7/23/2004		15.15	10.98	3,300	1,300	ND<5.0	52	9.7	ND<50	-	a	
10/12/2004		17.29	8.84	-	-	-	-	-	-	-		
2/14/2005		14.60	11.53	350	160	ND<0.5	ND<0.5	ND<0.5	ND<25	2.0	a,i	
4/27/2005		14.10	12.03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5		
7/19/2005		15.18	10.95	110	15	ND<0.5	0.62	ND<0.5	ND<5.0	1.7	a,i	
10/18/2005		15.65	10.48	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	0.87	i	
1/23/2006		14.02	12.11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	0.50	i	
4/12/2006		12.66	13.47	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5		
7/10/2006		14.64	11.49	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5		
10/16/2006	16.50	9.63	--	--	--	--	--	--	--			
MW-7 29.67	12/16/1994	17.07	12.60	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	12/29/1994	17.65	12.02	-	-	-	-	-	-	-		
	7/19/1996	16.44	13.23	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	1/27/1997	15.09	14.58	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	6/18/1997	16.59	13.08	73	ND<0.5	0.55	ND<0.5	ND<0.5	ND<5.0	-	d	
	9/18/1997	17.06	12.61	94	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	b, f	
	12/10/1997	16.58	13.09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	2/18/1998	12.60	17.07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	5/12/1998	14.81	14.86	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	8/18/1998	15.67	14.00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	11/24/1998	16.30	13.37	200	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	d	
	2/4/1999	15.99	13.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	5/18/1999	15.42	14.25	200	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	d	
	8/27/1999	16.35	13.32	140	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	11/18/1999	16.81	12.86	--	--	--	--	--	--	--		
	2/29/2000	14.16	15.51	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	f	
	5/25/2000	15.54	14.13	--	--	--	--	--	--	--		
	8/9/2000	16.56	13.11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	11/9/2000	16.45	13.22	-	-	-	-	-	-	-		
	1/29/2001	16.92	12.75	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	4/16/2001	17.03	12.64	-	-	-	-	-	-	-		
	8/14/2001	17.27	12.40	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-		
	10/22/2001	16.95	12.72	-	-	-	-	-	-	-		
2/1/2002	16.14	13.53	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-			
5/10/2002	15.30	14.37	-	-	-	-	-	-	-			

CAMBRIA

Table 1. Groundwater Elevation and Analytical Data: Former ARCO Station - 706 Harrison Street, Oakland, California

Well ID/ Sample ID TOC	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft-msl)	TPHg (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	MTBE by 8021B (mg/L)	MTBE by 8260B (mg/L)	Notes
MW-7 ^{cont}	7/8/2002	15.73	13.94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
	10/2/2002	16.24	13.43	-	-	-	-	-	-	-	
26.70	1/23/2003	15.70	13.97	ND<50	23	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
	4/29/2003	12.68	16.99	-	-	-	-	-	-	-	
	7/18/2003	15.19	11.51	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
	10/9/2003	14.45	12.25	-	-	-	-	-	-	-	
	1/28/2004	13.88	12.82	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
	4/7/2004	15.71	10.99	-	-	-	-	-	-	-	
	7/23/2004	14.85	11.85	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	130	120	
	10/12/2004	16.90	9.80	-	-	-	-	-	-	-	
	2/14/2005	14.42	12.28	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	190	200	
	4/27/2005	13.75	12.95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	1.3	
	7/19/2005	14.91	11.79	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	65	66	
	10/18/2005	15.40	11.30	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	15	
	1/23/2006	13.99	12.71	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	2.2	
	4/12/2006	12.32	14.38	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	2.0	
	7/10/2006	14.31	12.39	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	1.5	
		10/16/2006	16.23	10.47	--	--	--	--	--	--	--
VW-3	3/6/2003	-	-	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	i
	3/25/2003	-	-	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	i
VW-4	3/6/2003	-	-	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
	3/25/2003	-	-	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
Trip Blank	11/9/2000	-	-	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
	2/14/2005	-	-	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	

Abbreviations and Analyses:

mg/L = Milligrams per liter
 ND<0.5 = Not Detected (ND) above laboratory detection limit.
 - = Not sampled, not analyzed, or not applicable
 TOC = Top of casing elevation, measured in feet, relative to mean sea level
 ft = Measured in feet
 ft-msl = Elevation in feet relative to mean sea level
 TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method SW8015C
 Benzene, ethylbenzene, toluene and xylenes by EPA Method SW8021B.
 MTBE = Methyl tertiary butyl ether by EPA Method SW8021B and/or SW8260B.
 SVOCs = Semi-Volatile Organic Compounds (EPA Method 8270)
 Wells were re-surveyed on October 27, 2003 to City of Oakland Benchmark 25A.

Analytical Laboratory Notes:

a = "unmodified or weakly modified gasoline is significant"
 b = "heavier gasoline range compounds are significant"
 c = "lighter gasoline range compounds are significant"
 d = "isolated peaks are present"
 f = "hydrocarbons with no recognizable patterns are present"
 g = "lighter than water immiscible sheen is present"
 h = "lighter than water immiscible sheen/product is present"
 i = "sample contains greater than ~1 vol. % sediment"
 j = "sample was diluted due to high organic content"
 m = "no recognizable pattern"

APPENDIX A

Groundwater Monitoring Field Data Sheets



WELL GAUGING SHEET

Client: Cambria Environmental Technology Inc.

Site

Address: 706 Harrison Street Oakland, CA

Date: 10/16/2006

Signature: 

Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MW-1	4:40		16.51		24.93	
MW-2	4:50		16.74		25.80	
MW-3	4:10		16.19		27.75	
MW-4	4:45		17.21		25.61	
MW-5	4:00		15.44		27.86	
MW-6	4:20		16.50		25.90	
MW-7	4:30		16.23		27.73	

APPENDIX B

Laboratory Analytical Report



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #230-0116; BoGin	Date Sampled: 10/16/06
		Date Received: 10/16/06
	Client Contact: Mark Jonas	Date Reported: 10/20/06
	Client P.O.:	Date Completed: 10/20/06

WorkOrder: 0610323

October 20, 2006

Dear Mark:

Enclosed are:

- 1). the results of 3 analyzed samples from your #230-0116; BoGin project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #230-0116; BoGin	Date Sampled: 10/16/06
		Date Received: 10/16/06
	Client Contact: Mark Jonas	Date Extracted 10/17/06-10/19/06
	Client P.O.:	Date Analyzed: 10/17/06-10/19/06

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0610323

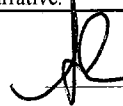
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	2000,a	6300	470	6.4	38	13	10	97
002A	MW-2	W	110,000,a,h	ND<6000	3600	16,000	2400	12,000	200	101
003A	MW-4	W	3200,a	7800	440	26	34	63	5	113

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0610323

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 24308			Spiked Sample ID: 0610316-037A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	60	105	100	4.75	102	97.9	4.44	70 - 130	30	70 - 130	30
MTBE	ND	10	95.2	98.1	2.97	100	106	5.79	70 - 130	30	70 - 130	30
Benzene	ND	10	99.2	96.6	2.70	98.8	108	9.24	70 - 130	30	70 - 130	30
Toluene	0.91	10	82.1	75.8	7.21	91.2	107	16.0	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	97.6	98.6	0.996	96.1	103	7.18	70 - 130	30	70 - 130	30
Xylenes	ND	30	90.3	90.3	0	86.3	94.7	9.21	70 - 130	30	70 - 130	30
%SS:	101	10	102	106	4.03	107	112	5.19	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 24308 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0610323-001A	10/16/06 5:30 AM	10/17/06	10/17/06 11:26 AM	0610323-001A	10/16/06 5:30 AM	10/18/06	10/18/06 11:05 PM
0610323-002A	10/16/06 6:30 AM	10/17/06	10/17/06 8:49 PM	0610323-003A	10/16/06 6:00 AM	10/19/06	10/19/06 5:04 AM
0610323-003A	10/16/06 6:00 AM	10/19/06	10/19/06 7:02 PM				


MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

 QA/QC Officer



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0610323

EPA Method: SW8260B		Extraction: SW5030B				BatchID: 24304			Spiked Sample ID: 0610310-001B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Methyl-t-butyl ether (MTBE)	ND	10	78	84.8	8.43	94	81.7	14.0	70 - 130	30	70 - 130	30
%SS1:	105	10	93	95	1.59	105	94	11.5	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 24304 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0610323-001B	10/16/06 5:30 AM	10/19/06	10/19/06 5:42 PM	0610323-002B	10/16/06 6:30 AM	10/17/06	10/17/06 1:52 PM
0610323-003B	10/16/06 6:00 AM	10/19/06	10/19/06 6:25 PM				

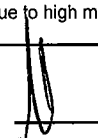
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

 QA/QC Officer

0610323

McCAMPBELL ANALYTICAL, INC.

110 2ND AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required Yes No

Report To: Mark Jonas / Glenn Weiss Bill To: Cambria Environmental Technology
Company: Cambria Environmental Technology
5900 Hollis St. Ste A
Emeryville, CA 94608
E-Mail: mjonas@cambria-env.com
gweiss@cambria-env.com
Tele: 510-420-3307 Fax: (510) 420-9170
Project #: 230-0116 Project Name: Bogin
Project Location: 706 Harrison St. Oakland, CA
Sampler Signature: Muskan Environmental Sampling

Analysis Request

Other Comments

Filter Samples for Metals analysis: Yes / No

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				MTBE / BTEX & TPH as Gas (602 / 8021 + 8015) MTBE / BTEX ONLY (EPA 602 / 8021) TPH as Diesel / Motor Oil (8015) Total Petroleum Oil & Grease (1664 / 5520 E/A&F) Total Petroleum Hydrocarbons (418.1) EPA 502.2 / 501 / 8010 / 8021 (HVOCs) EPA 505 / 608 / 8081 (CI Pesticides) EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners EPA 507 / 8141 (NP Pesticides) EPA 515 / 8151 (Acidic CI Herbicides) EPA 524.2 / 624 / 8260 (VOCs) Fuel Additives (MTBE, ETBE, TAME, DIPE, TBA, 1,2-DCA, 1,2-EDB, ethaned) by 8260B TPHg by 8015 M VOCs and fuel additives by 8260 TPHg / BTEX (8015 / 8020) MTBE by 8260	Other	Comments	
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other				
MW-1		10-16-06	5:30	4	VOC	X						X	X					
MW-2			6:30	1														
MW-4			6:00	X	X							X	X					
TB		X		1	X	X						X	X					Hold

Relinquished By: [Signature] Date: 10/16/06 Time: 12:08 Received By: [Signature]

ICE# 2.3
GOOD CONDITION APPROPRIATE CONTAINERS
HEAD SPACE ABSENT
DECHLORINATED IN LAB PRESERVED IN LAB
PRESERVATION VOAS O&G METALS OTHER

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0610323

ClientID: CETE

EDF

Fax

Email

HardCopy

ThirdParty

Report to:

Mark Jonas
Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608

Email: mjonas@cambria-env.com
TEL: (510) 420-0700 FAX: (510) 420-9170
ProjectNo: #230-0116; BoGin
PO:

Bill to:

Accounts Payable
Cambria Env. Technology
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT:

5 days

Date Received: 10/16/2006

Date Printed: 10/16/2006

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0610323-001	MW-1	Water	10/16/06 5:30:00	<input type="checkbox"/>	A	B	A										
0610323-002	MW-2	Water	10/16/06 6:30:00	<input type="checkbox"/>	A	B											
0610323-003	MW-4	Water	10/16/06 6:00:00	<input type="checkbox"/>	A	B											

Test Legend:

1	G-MBTX_W	2	MTBE_W	3	PREFD REPORT	4		5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

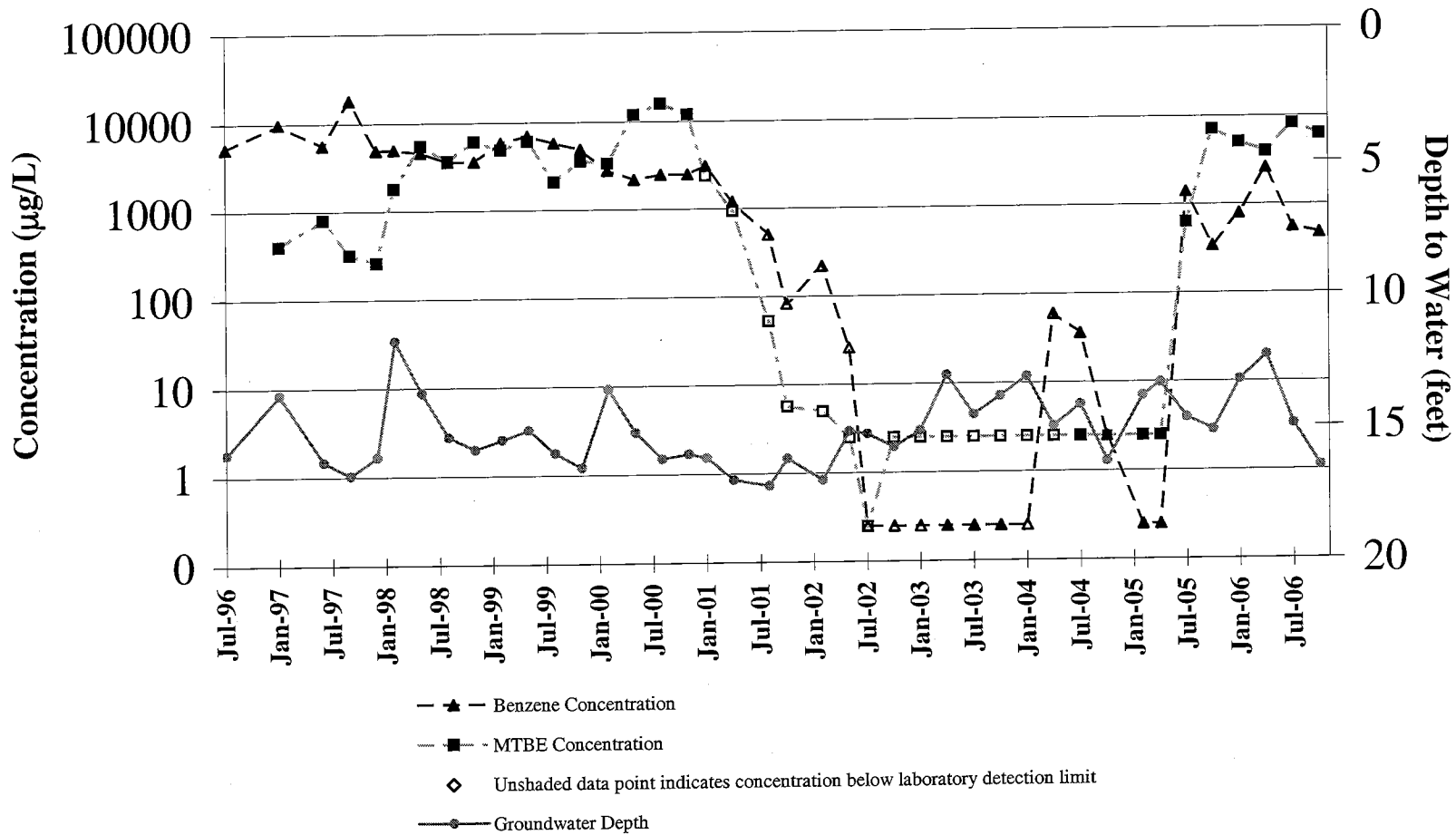
APPENDIX C

Benzene and MTBE Concentration Graphs

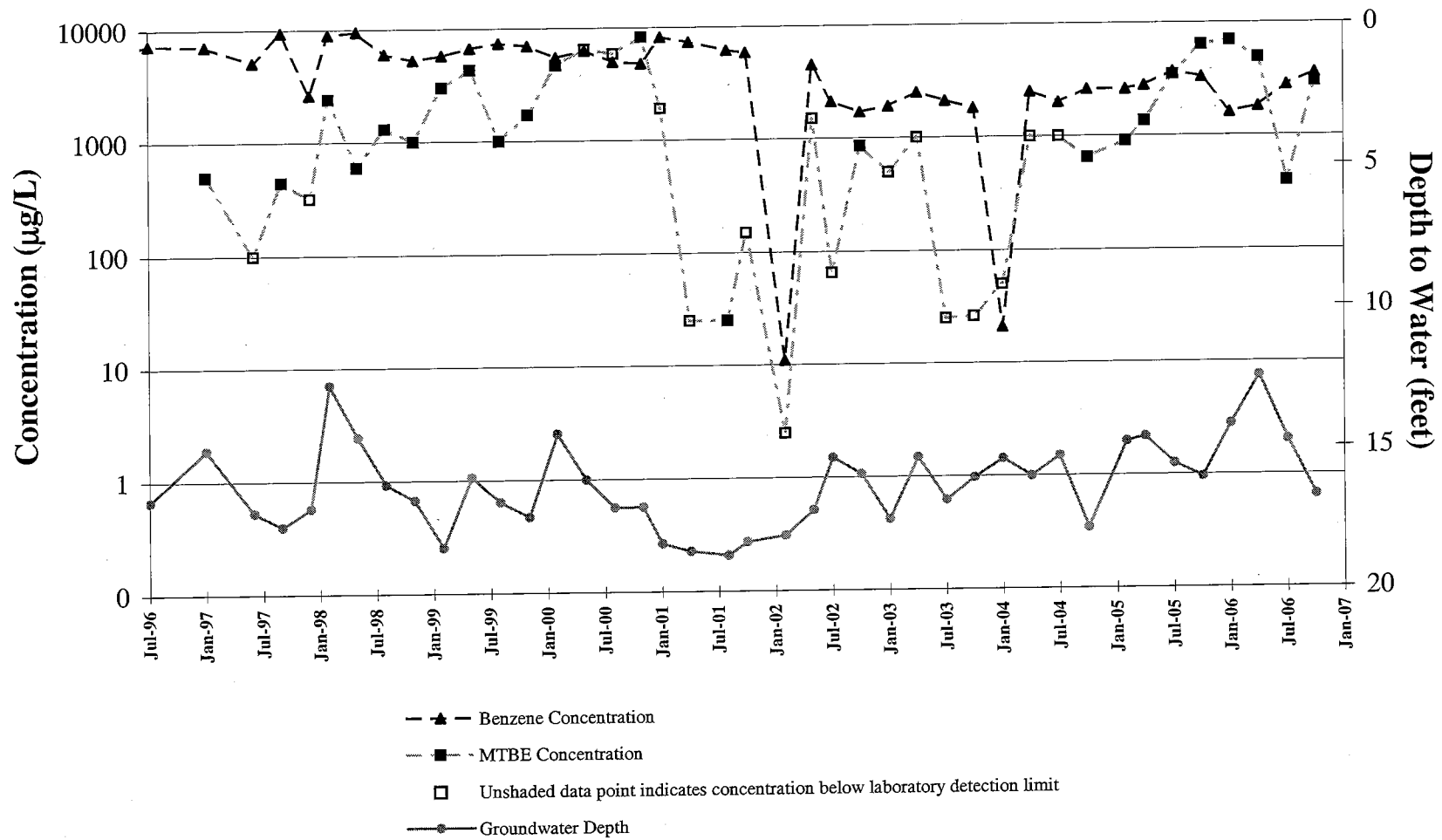
Monitoring Well MW-1

Benzene and MTBE Concentration Trends

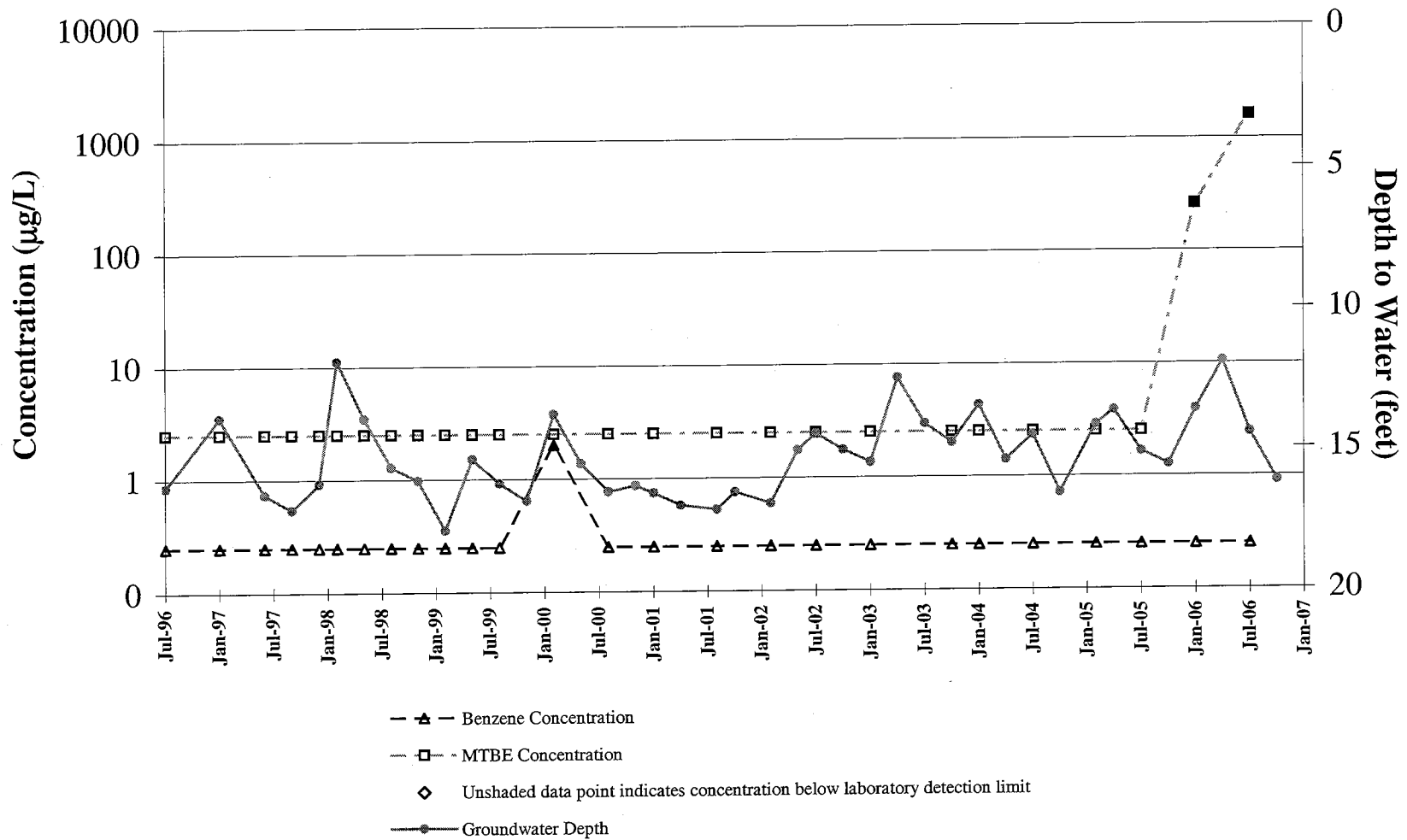
Former ARCO Service Station, 706 Harrison Street, Oakland, CA



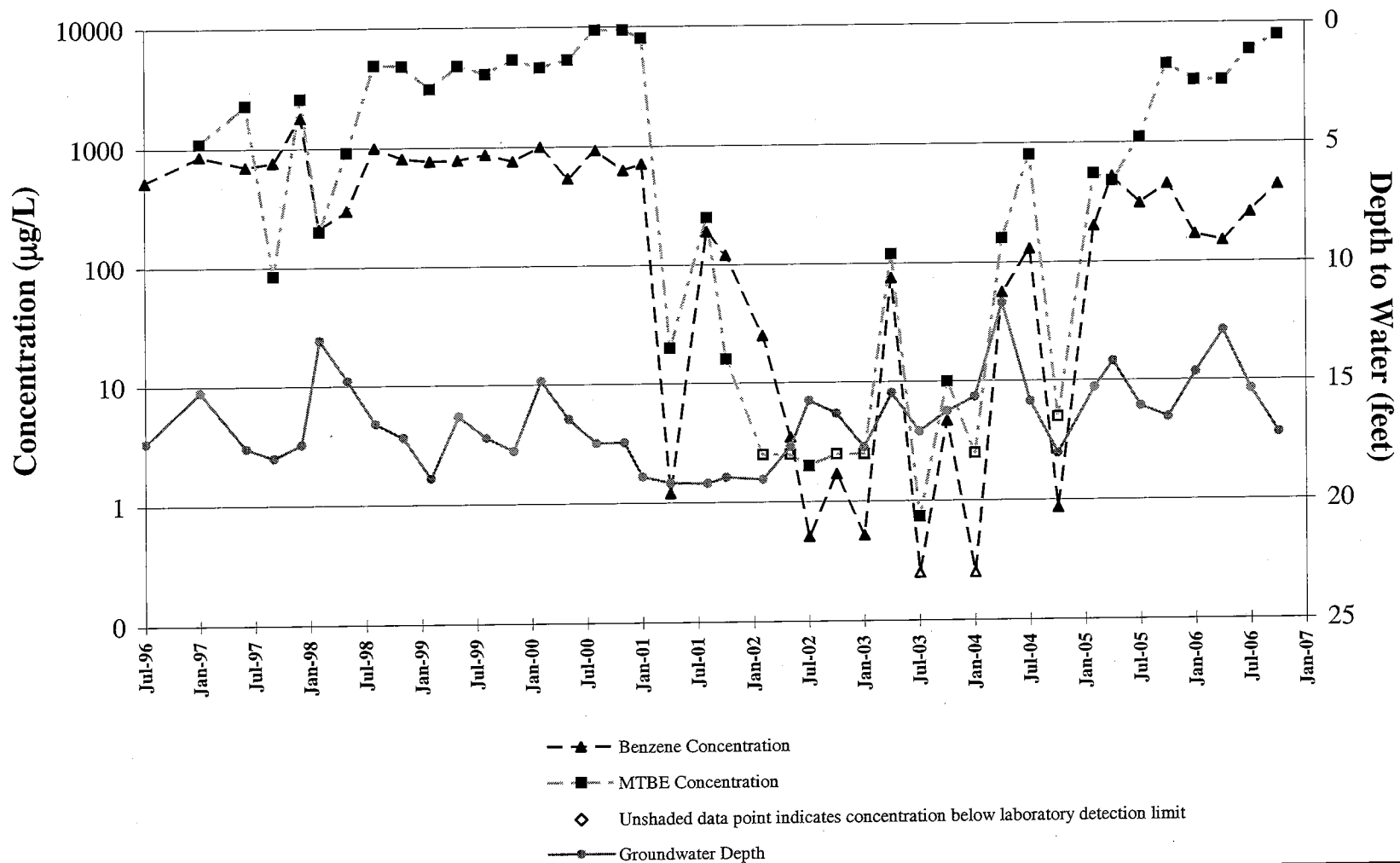
Monitoring Well MW-2 Benzene and MTBE Concentration Trends Former ARCO Service Station, 706 Harrison Street, Oakland, CA



**Monitoring Well MW-3
Benzene and MTBE Concentration Trends
Former ARCO Service Station, 706 Harrison Street, Oakland, CA**



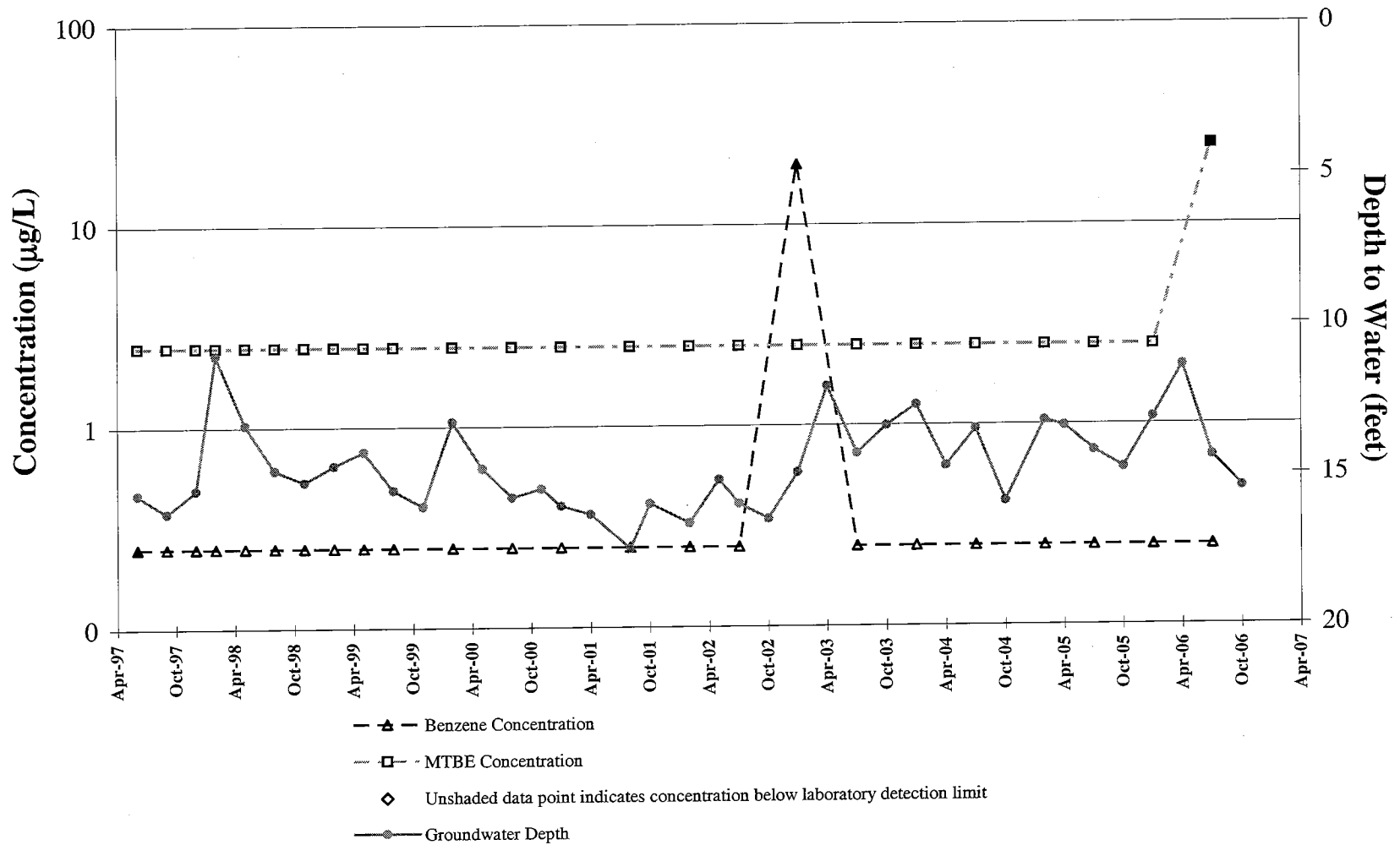
Monitoring Well MW-4 Benzene and MTBE Concentration Trends Former ARCO Service Station, 706 Harrison Street, Oakland, CA



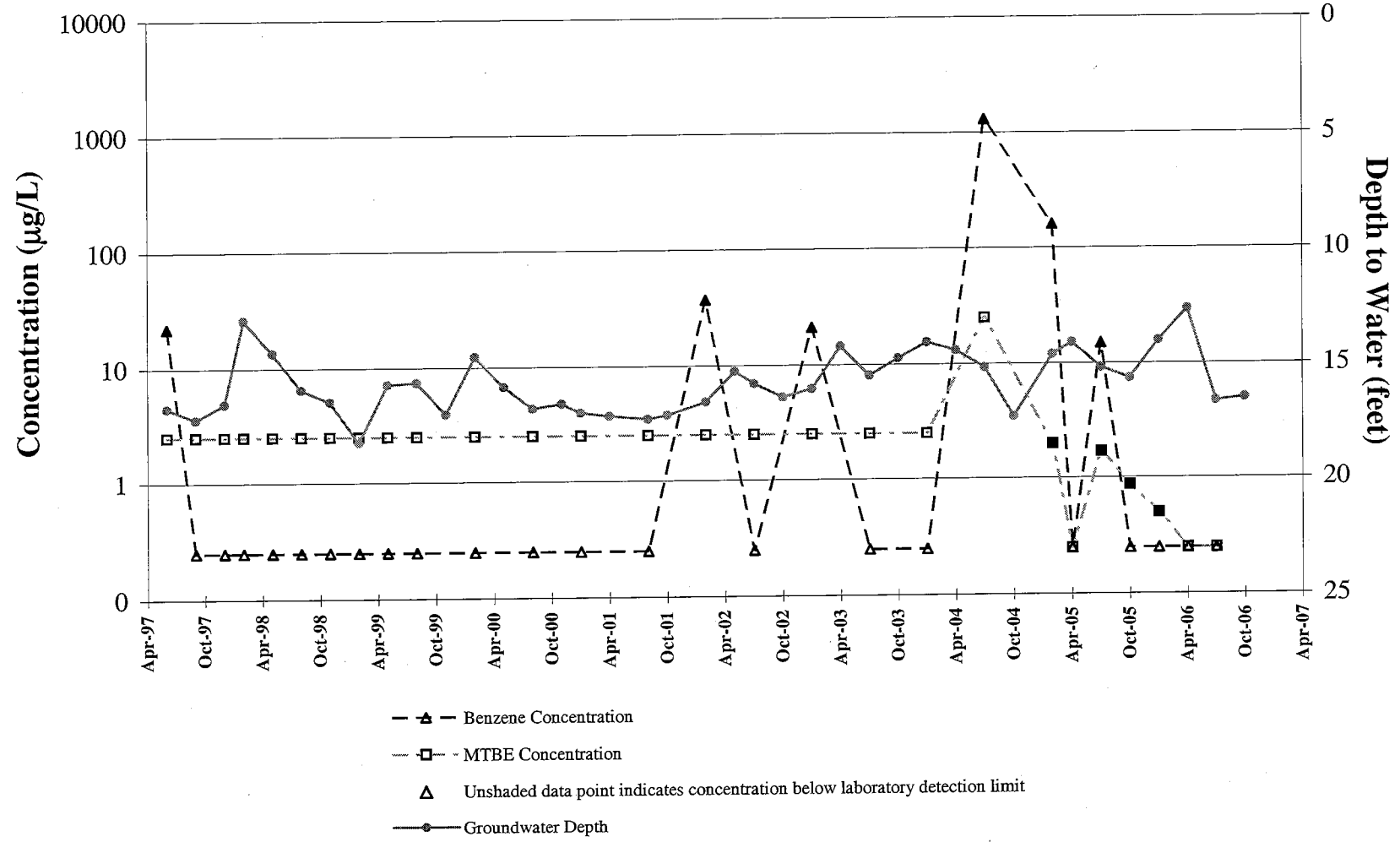
Monitoring Well MW-5

Benzene and MTBE Concentration Trends

Former ARCO Service Station, 706 Harrison Street, Oakland, CA



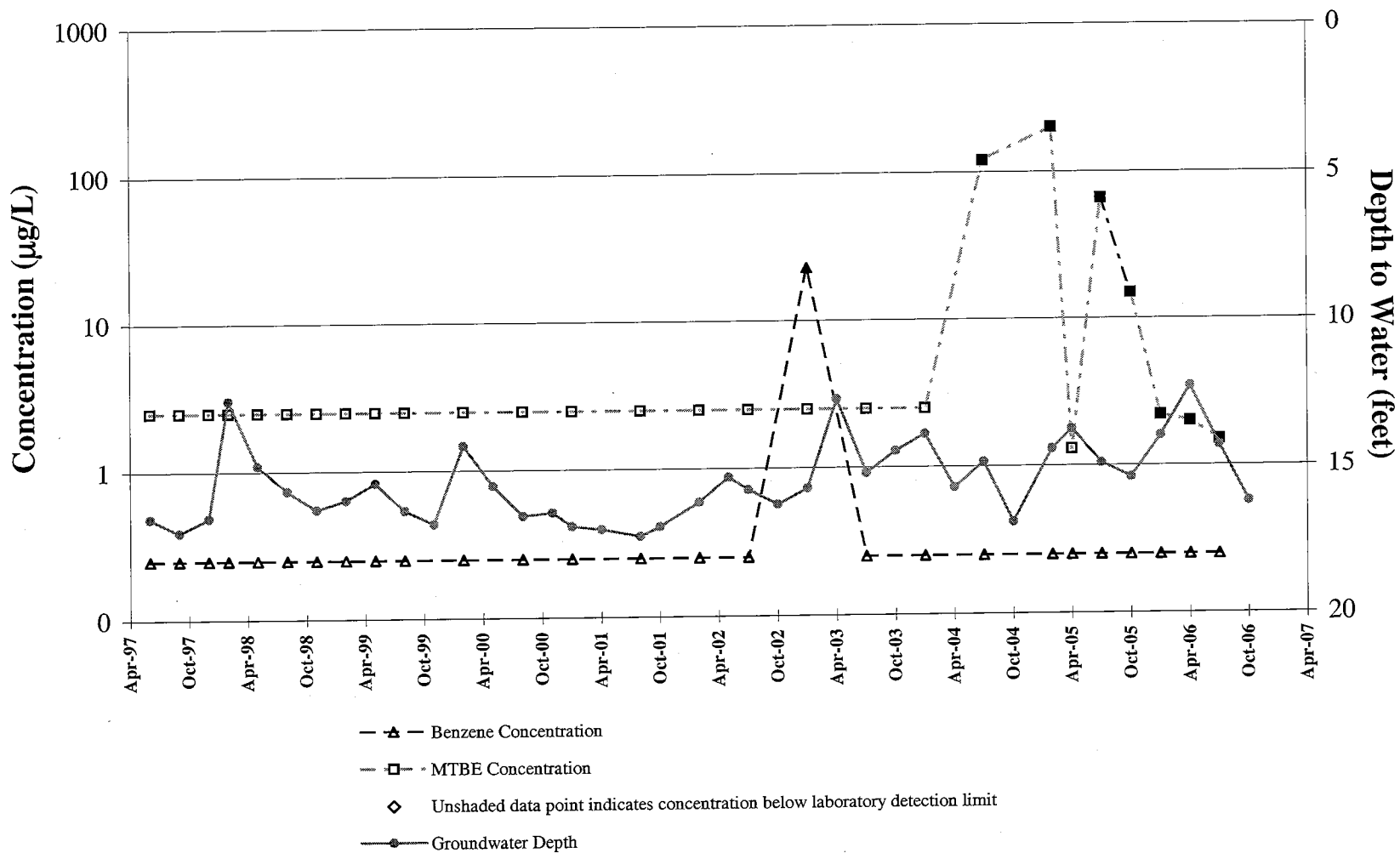
**Monitoring Well MW-6
Benzene and MTBE Concentration Trends
Former ARCO Service Station, 706 Harrison Street, Oakland, CA**



Monitoring Well MW-7

Benzene and MTBE Concentration Trends

Former ARCO Service Station, 706 Harrison Street, Oakland, CA



APPENDIX D

**Former Shell Station Groundwater Monitoring and Analytical
Results**

TABLE ONE
Groundwater Elevation Data
Yee Property
726 Harrison St., Oakland, CA

Well ID	Date of Measurement	Top of Casing Elevation (Relative to Mean Sea Level)	Depth to Water (feet)	Groundwater Elevation (project data)
MW-1	12/15/98	31.95*	17.32	14.63
	3/4/99		15.52	16.43
	6/17/99		16.9	15.05
	8/27/99		17.39	14.56
	12/9/99		18.03	13.92
	3/7/00		15.11	16.84
	6/7/00		16.66	15.29
	10/11/00		18.08	13.87
	1/18/01		17.96	13.99
	4/5/01		16.35	15.60
	7/17/01	16.94	15.01	
	10/5/01	28.98	17.35	11.63
	1/18/02		15.40	13.58
	4/11/02		15.76	13.22
	7/8/02		16.17	12.81
	10/9/02		16.72	12.26
	1/29/03		16.26	12.72
	4/11/03		16.56	12.42
	7/18/03		16.42	12.56
	10/9/03		16.88	12.10
	1/28/04		16.10	12.88
	4/7/04	15.43	13.55	
	7/23/04	16.41	12.57	
	10/12/04	17.73	11.25	
	1/29/05	15.02	13.96	
	4/28/05	14.99	13.99	
	7/19/05	16.36	12.62	
	10/18/05	17.82	11.16	
	1/23/06	15.80	13.18	
	4/12/06	13.24	15.74	
7/10/06	15.64	13.34		
10/16/06	17.51	11.47		
MW-2	12/15/98	32.40*	18.03	14.37
	3/4/99		16.11	16.29
	6/17/99		17.72	14.68
	8/27/99		Inaccessible	
	12/9/99		Inaccessible	
	3/7/00		Inaccessible	
	6/7/00		17.67	14.73
	10/11/00		18.91	13.49
	1/18/01		18.66	13.74
	4/5/01		16.97	15.43
	7/17/01	17.54	14.86	
	10/5/01	29.44	17.98	11.46
	1/18/02		15.87	13.57
	4/11/02		16.36	13.08
	7/8/02		16.72	12.72
	10/9/02		17.33	12.11
	1/29/03		16.82	12.62
	4/11/03		17.15	12.29
	7/18/03		17.05	12.39
	10/9/03		17.52	11.92
	1/28/04		16.70	12.74
	4/7/04	16.02	13.42	
	7/23/04	Inaccessible		
	10/12/04	17.31	12.13	
	1/29/05	15.46	13.98	
	4/28/05	15.79	13.65	
	7/19/05	17.25	12.19	
	10/18/05	17.72	11.72	
	1/23/05	15.65	13.79	
	4/12/06	12.33	17.11	
7/10/06	16.58	12.86		
10/16/06	18.33	11.11		

TABLE ONE
Groundwater Elevation Data
Yee Property
726 Harrison St., Oakland, CA

Well ID	Date of Measurement	Top of Casing Elevation (Relative to Mean Sea Level)	Depth to Water (feet)	Groundwater Elevation (project data)	
MW-3	12/15/98	31.61*	17.26	14.35	
	3/4/99		15.47	16.14	
	6/17/99		16.92	14.69	
	8/27/99		17.40	14.21	
	12/9/99		18.01	13.60	
	3/7/00		16.15	15.46	
	6/7/00		16.85	14.76	
	10/11/00		18.07	13.54	
	1/18/01		17.89	13.72	
	4/5/01		16.21	15.40	
	7/17/01		16.90	14.71	
	10/5/01		28.64	17.32	11.32
	1/18/02			15.35	13.29
	4/11/02			15.82	12.82
	7/8/02			16.15	12.49
	10/9/02	16.67		11.97	
	1/29/03	16.19		12.45	
	4/11/03	16.49		12.15	
	7/18/03	16.42		12.22	
	10/9/03	16.80		11.84	
	1/28/03	15.94		12.70	
	4/7/04	15.28		13.36	
	7/23/04	16.15		12.49	
	10/12/04	16.63		12.01	
	1/29/05	16.15		12.49	
	4/28/05	14.94		13.70	
	7/19/05	16.25	12.39		
	10/18/05	16.76	11.88		
	1/23/06	15.81	12.83		
	4/12/06	13.22	15.42		
7/10/06	15.49	13.15			
10/16/06	17.46	11.18			
MW-4	12/15/98	32.53*	17.59	14.94	
	3/4/99		15.88	16.65	
	6/17/99		17.14	15.39	
	8/27/99		17.65	14.88	
	12/9/99		18.28	14.25	
	3/7/00		15.41	17.12	
	6/7/00		17.09	15.44	
	10/11/00		18.33	14.20	
	1/18/01		18.23	14.30	
	4/5/01		16.69	15.84	
	7/17/01		17.32	15.21	
	10/5/01		29.58	17.71	11.87
	1/18/02			15.85	13.73
	4/11/02			16.14	13.44
	7/8/02			16.56	13.02
	10/9/02	17.09		12.49	
	1/29/03	16.65		12.93	
	4/11/03	16.93		12.65	
	7/18/03	16.78		12.80	
	10/9/03	17.26		12.32	
	1/28/04	16.38		13.20	
	4/7/04	15.64		13.94	
	7/23/04	16.58		13.00	
	10/12/04	Inaccessible			
	1/29/05	14.90		14.68	
	4/28/05	15.18		14.40	
	7/19/05	16.48	13.10		
	10/18/05	16.99	12.59		
	1/23/06	15.09	14.49		
	4/12/06	13.49	16.09		
7/10/06	14.99	14.59			
10/16/06	17.29	12.29			

TABLE ONE
Groundwater Elevation Data
Yee Property
726 Harrison St., Oakland, CA

Well ID	Date of Measurement	Top of Casing Elevation (Relative to Mean Sea Level)	Depth to Water (feet)	Groundwater Elevation (project data)
MW-5	8/29/01	29.06	17.42	11.64
	1/18/02		15.68	13.38
	4/11/02		16.17	12.89
	7/8/02		16.51	12.55
	10/9/02		17.10	11.96
	1/29/03		16.58	12.48
	4/11/03		16.87	12.19
	7/18/03		16.77	12.29
	10/9/03		17.21	11.85
	1/28/04		16.34	12.72
	4/7/04		15.38	13.68
	7/23/04		16.55	12.51
	10/12/04		17.02	12.04
	1/29/05		15.23	13.83
	4/28/05		15.41	13.65
	7/19/05		16.79	12.27
	10/18/05		17.28	11.78
	1/23/06		15.28	13.78
	4/12/06		13.66	15.40
7/10/06	16.14	12.92		
10/16/06	19.33	9.73		

* Top of casing elevation relative to arbitrary project datum

TABLE THREE
Summary of Analytical Results for GROUNDWATER Samples
Yee Property
726 Harrison St., Oakland, CA
All results are in parts per billion (ppb)

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
<u>MW-1</u>						
7/3/1997	18,000	2,700	350	450	900	7,400
12/5/1998	18,000	1,500	270	260	560	14,000
3/4/1999	44,000	2,800	400	440	960	43,000
6/17/1999	33,000	2,200	250	460	660	25,000
8/27/1999	6,000	1,000	97	190	230	14,000/ 16,000*
12/9/1999	15,000	1,500	160	220	420	17,000
3/7/2000	9,300	1,500	210	66	530	12,000
6/7/2000	26,000**	1,700	< 250	360	580	30,000
10/11/2000	13,000**	1,600	< 100	140	160	19,000
1/18/2001	14,000**	450	< 100	110	230	9,600
4/5/2001	38,000	2,200	180	290	590	35,000
7/17/2001	35,000**	1,800	< 100	300	170	35,000
10/5/2001	17,000	1,500	210	420	790	27,000
1/18/2002	18,000	1,500	120	160	220	22,000
4/11/2002	41,000	2,700	210	340	380	30,000
7/8/2002	36,000	2,800	140	360	300	31,000
10/9/2002	30,000	1,700	310	< 100	< 100	19,000
1/29/2003	26,000	2,400	< 100	310	520	20,000
4/11/2003	22,000	1,700	< 100	270	580	16,000
7/18/2003	40,000	3,200	290	480	830	39,000
10/9/2003	54,000**	3,300	< 130	350	310	49,000
1/28/2004	26,000***	3,000	310	420	800	31,000
4/7/2004	33,000***	2,800	130	310	310	39,000
7/23/2004	56,000***	4,500	< 250	390	< 500	53,000
10/12/2004	25,000***	1,400	< 250	< 250	< 500	25,000
1/29/2005	24,000	1,600	< 100	160	< 200	19,000
4/28/2005	< 10,000	2,000	< 100	160	100	34,000
7/19/2005	37,000	2,100	83	210	230	28,000
10/18/2005	37,000	1,300	< 250	< 250	< 250	23,000
1/24/2006	23,000	780	< 100	160	260	11,000
4/12/2006	11,000	1,500	87	360	670	17,000
7/10/2006	72,000	4,700	< 250	350	< 500	66,000
10/16/2006	26,000	1,600	< 250	330	< 500	22,000

TABLE THREE
Summary of Analytical Results for GROUNDWATER Samples
Yee Property
726 Harrison St., Oakland, CA
All results are in parts per billion (ppb)

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
MW-2						
12/5/1998	< 50	< 0.5	< 0.52	< 0.53	< 0.54	< 5
3/4/1999	Inaccessible due to car parked over well					
6/17/1999	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5
8/27/1999	Inaccessible due to car parked over well					
12/9/1999	Inaccessible due to car parked over well					
3/7/2000	Inaccessible due to car parked over well					
6/7/2000	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
10/11/2000	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
1/18/2001	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
4/5/2001	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
7/17/2001	No longer sampled					
7/10/2006	< 50	< 0.50	< 0.50	< 0.50	< 1.0	4.5
10/16/2006	< 50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50

TABLE THREE
Summary of Analytical Results for GROUNDWATER Samples
Yee Property
726 Harrison St., Oakland, CA
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Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
MW-3						
12/5/1998	6,500***	< 50	50	60	502	3,900
3/4/1999	2,800	< 25	< 25	< 25	< 25	1,600
6/17/1999	1,000	< 10	< 10	< 10	< 10	1,400
8/27/1999	230	< 0.5	0.51	0.5	1	1,500/ 1,600*
12/9/1999	870**	< 0.5	< 0.5	< 0.5	< 0.5	2,100
3/7/2000	150**	4	< 0.5	< 0.5	< 0.5	830
6/7/2000	140**	< 0.5	< 0.5	< 0.5	< 0.5	1,100
10/11/2000	620**	< 5.0	< 5.0	< 5.0	< 5.0	1,500
1/18/2001	1,200**	< 5.0	< 5.0	< 5.0	< 5.0	1,000
4/5/2001	1,700**	< 5.0	< 5.0	< 5.0	< 5.0	1,900
7/17/2001	1,400**	< 10	< 10	< 10	< 10	1,700
10/5/2001	< 1,000	< 10	< 10	< 10	< 10	1,700
1/18/2002	1,600	26	20	16	54	2,100
4/11/2002	2,600	21	16	< 10	21	2,300
7/8/2002	2,800	< 10	< 10	< 10	< 10	3,800
10/9/2002	6,000	< 50	< 50	< 50	< 50	4,900
1/29/2003	1,800	< 10	< 10	< 10	< 10	2,300
4/11/2003	2,900	< 25	< 25	< 25	< 25	3,100
7/18/2003	3,400	< 10	< 10	< 10	< 10	3,200
10/9/2003	2,300	< 10	< 10	< 10	< 10	2,700
1/28/2003	1,700**	< 10	< 10	< 10	< 10	2,900
4/7/2004	2,700**	< 10	< 10	< 10	< 20	3,600
7/23/2004	4,200**	< 25	< 25	< 25	< 50	4,900
10/12/2004	5,000**	< 50	< 50	< 50	< 100	5,900
1/29/2005	< 1,000	< 10	< 10	< 10	< 20	3,100
4/28/2005	< 200	< 2.0	< 2.0	< 2.0	< 2.0	1,300
7/19/2005	4,400	< 20	< 20	< 20	< 40	3,000
10/18/2005	18,000	< 50	< 50	< 50	< 50	6,800
1/24/2006	17,000	< 100	< 100	< 100	< 200	7,000
4/12/2006	< 200	< 2.0	< 2.0	< 2.0	< 2.0	7,800
7/10/2006	11,000	< 100	< 100	< 100	< 200	12,000
10/16/2006	< 10,000	< 100	< 100	< 100	< 100	17,000

TABLE THREE
Summary of Analytical Results for GROUNDWATER Samples
Yee Property
726 Harrison St., Oakland, CA
All results are in parts per billion (ppb)

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
<u>MW-4</u>						
12/5/1998	880	3	< 0.5	< 0.52	< 0.53	950
3/4/1999	3,800	< 25	< 25	< 25	< 25	3,700
6/17/1999	2,700	< 25	< 25	< 25	< 25	2,700
8/27/1999	440	4.7	1.1	0.58	1.3	1,600/ 1,700*
12/9/1999	1,100**	< 2.5	< 2.5	< 2.5	< 2.5	1,700
3/7/2000	< 250	< 2.5	< 2.5	< 2.5	< 2.5	1,700
6/7/2000	530**	8.8	< 2.5	< 2.5	< 2.5	440
10/11/2000	700**	3.9	< 2.5	< 2.5	< 2.5	680
1/18/2001	2,000**	< 2.5	< 2.5	< 2.5	< 2.5	780
4/5/2001	810**	< 2.5	< 2.5	< 2.5	< 2.5	620
7/17/2001	880**	< 2.5	< 2.5	< 2.5	< 2.5	570
10/5/2001	550**	< 2.5	< 2.5	< 2.5	< 2.5	710
1/18/2002	960**	< 5.0	< 5.0	< 5.0	< 5.0	1,300
4/11/2002	1,100**	< 5.0	< 5.0	< 5.0	< 5.0	550
7/8/2002	1,200**	< 5.0	< 5.0	< 5.0	< 5.0	890
10/9/2002	1,300**	< 5.0	< 5.0	< 5.0	< 5.0	880
1/29/2003	530**	< 1.0	< 1.0	< 1.0	< 1.0	190
4/11/2003	690**	< 2.5	< 2.5	< 2.5	< 2.5	310
7/18/2003	1,600**	< 10	< 10	< 10	< 10	1,300
10/9/2003	1500***	< 10	< 10	< 10	< 10	1,400
1/28/2004	1,200**	< 10	< 10	< 10	< 10	1,900
4/7/2004	1,900**	< 10	< 10	< 10	< 20	2,200
7/23/2004	1,800**	< 10	< 10	< 10	< 20	1,600
10/12/2004	Inaccessible due to car parked over well					
1/29/2005	< 1,300	< 13	< 13	< 13	< 25	3,900
4/28/2005	510	< 1.5	< 1.5	< 1.5	< 1.5	510
7/19/2005	5,400	< 50	< 50	< 50	< 100	2,700
10/18/2005	10,000	< 50	< 50	< 50	< 50	9,000
1/24/2006	10,000	< 100	< 100	< 100	< 200	8,300
4/12/2006	1,900	< 10	< 10	< 10	< 20	2,200
7/10/2006	750	5.4	< 5.0	< 5.0	< 10	790
10/16/2006	2,400	< 10	< 10	< 10	< 10	2,200

TABLE THREE
Summary of Analytical Results for GROUNDWATER Samples
Yee Property
726 Harrison St., Oakland, CA
All results are in parts per billion (ppb)

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
MW-5						
8/29/2001	14,000	1,300	470	230	800	14,000
1/18/2002	24,000	3,200	1,300	390	1,500	5,700
4/11/2002	23,000	2,700	980	38	950	4,300
7/8/2002	19,000	3,300	25	360	1,100	2,100
10/9/2002	24,000	2,800	990	360	820	2,400
1/29/2003	17,000	2,100	1,400	380	1,400	< 250
4/11/2003	26,000	2,900	2,200	590	2,200	630
7/18/2003	26,000	3,500	1,700	480	1,300	1,300
10/9/2003	27,000	3,800	1,900	510	1,700	1,200
1/28/2004	29,000	4,800	2,900	770	2,300	3,300
4/7/2004	23,000	4,400	2,700	720	2,200	1,700
7/23/2004	29,000	5,200	2,200	810	1,400	2,200
10/12/2004	26,000	4,300	2,000	670	1,300	2,200
1/29/2005	29,000	4,600	2,500	750	1,400	2,200
10/9/2003	5,700**	500	28	53	35	3,600
1/28/2004	17,000***	1,600	90	250	280	9,700
4/7/2004	No longer sampled					
1/24/2006	21,000	1,800	1,200	270	820	13,000
7/10/2006	45,000	3,700	2,600	650	1,800	23,000
10/16/2006	66,000	4,200	3,300	800	2,100	35,000
ESL	100	1	40	30	20	1,800

Notes:

Most current data is in **Bold**

* Indicates EPA Method 8260

Concentrations separated by a "/" indicate results by both EPA Methods 8020/8260

ESL = Environmental screening levels presented in the "Screening For Environmental at Sites With Contaminated Soil and Groundwater (February 2005)" document prepared

Non-detectable concentrations noted by the less than sign (<) followed by the lab method reporting limit.