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TRANSMITTAL

DATE: April 16, 2010 REFERENCE NO.: 540188
PROJECT NAME: 1432 Harrison Street, Oakland
TO: Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

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QUANTITY	DESCRIPTION
1	First 2010 Semi-Annual Groundwater Monitoring Report

As Requested For Review and Comment
 For Your Use For Signature and Return

COMMENTS:

Should you have any questions regarding the content of this document, please contact Robert Foss at (510) 420-3348.

Copy to: Est. of A. Bacharach/Barbara Jean Borsuk
c/o Mr. Mark Borsuk

Completed by: Robert Foss
[Please Print]

Signed: Robert Foss

Filing: **Correspondence File**



FIRST 2010 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

ALLRIGHT PARKING
1432 HARRISON STREET
OAKLAND, CALIFORNIA

FUEL LEAK CASE NO. RO0000266

APRIL 16, 2010
REF. NO. 540188 (7)

This report is printed on recycled paper.

Prepared by:
**Conestoga-Rovers
& Associates**

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1.0 INTRODUCTION

On behalf of the Estate of A. Bacharach/Barbara Jean Borsuk, Conestoga-Rovers & Associates (CRA) has prepared this *First 2010 Semi-Annual Groundwater Monitoring Report* for the site located at 1432 Harrison Street in Oakland, California (Figure 1). Presented in this report are the first 2010 semi-annual groundwater monitoring activities and results and activities anticipated for the second semi-annual 2010 event. Work is performed under the regulatory oversight of Alameda County Environmental Health (ACEH).

Figure 2 presents groundwater elevation contours and hydrocarbon concentrations for this monitoring event. Table 1 provides well construction details. Table 2 presents recent and historical depth to water measurements, analytical data and separate phase hydrocarbon (SPH) observations and measurements. Appendix A contains CRA's *Standard Field Procedures for Groundwater Monitoring and Sampling*. Appendix B contains the analytical laboratory report of sample results. Appendix C contains field data sheets of this sampling event, and Appendix D contains benzene concentrations and depth to water time-series graphs.

1.1 SITE INFORMATION

Site Address	1432 Harrison Street, Oakland
Site Use	Parking Facility
Client and Contact	The Estate of A. Bacharach/ Barbara Jean Borsuk Contact: Mark Borsuk
Consultant and Contact Person	CRA, Robert Foss, P.G.
Lead Agency and Contact Person	ACEH, Jerry Wickham, P.G.

2.0 SITE ACTIVITIES AND RESULTS

2.1 CURRENT MONITORING/SAMPLING EVENT ACTIVITIES

2.1.1 FIELD ACTIVITIES

CRA coordinated with Muskan Environmental Sampling (MES) to conduct monitoring and sampling activities on March 1, 2010. MES measured depth to water and inspected

each well for the presence of separate-phase hydrocarbons (SPH). During well purging prior to sample collection, SPH was observed entering the well casing of MW-2, and accumulated to an approximate thickness of 0.22 feet. An SPH sample was collected and submitted to McCampbell Analytical Laboratory (McCampbell) of Pittsburg, California for fuel fingerprinting. Groundwater samples were collected from wells MW-3 through MW-6. Similar to the Third Quarter 2009 event, there was insufficient water available in well MW-1 to measure and collect a groundwater sample. Groundwater monitoring field data sheets are included in Appendix C and groundwater monitoring data have been uploaded to the GeoTracker database.

Prior to sampling, each well was purged by repeated bailing using a new, disposable bailer. Field measurements of pH, specific conductance, and temperature of the purged groundwater were measured after extraction of each successive casing volume or at regular volume intervals. Purging of groundwater continued until at least three casing volumes were extracted and consecutive pH, conductivity and temperature measurements appeared to stabilize. Field water quality measurements, purge volumes, and sample collection data were recorded on field sampling data sheets (Appendix C).

Samples were decanted from the bailers into 40 milliliter (mL) glass volatile organic analysis (VOA) vials supplied by McCampbell. Immediately after collection, the sample containers were labeled and placed on ice in a cooler. Samples were logged onto a chain-of-custody (COC) form that accompanied them to the laboratory (Appendix B).

To minimize the potential for cross-contamination, groundwater monitoring equipment was decontaminated prior to being deployed in the first well, and between each successive well. The probe of the electric well sounder used for water level measurements was rinsed thoroughly with distilled water and Alconox™ detergent prior to first use and between subsequent water level measurements. The disposable bailers were discarded after use in each well.

2.1.2 SAMPLE ANALYSIS

Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene and xylenes (BTEX) by modified EPA Method 8015/8021, and methyl tertiary butyl ether (MTBE) by EPA Method 8260. All analyses were performed by McCampbell. The laboratory analytical report is included as Appendix B. Hydrocarbon concentrations are summarized on Figure 2 and presented in Table 2. The analytical data were submitted to the GeoTracker database.

2.2 CURRENT MONITORING/SAMPLING EVENT RESULTS

Groundwater Flow Direction	North
Hydraulic Gradient	0.002
Range of Depth to Water Measurements From Top of Casing	19.20 to 21.20 feet
Presence of Measureable Separate Phase Hydrocarbons?	Yes

2.2.1 GROUNDWATER FLOW DIRECTION

Based on depth-to-water measurements from the March 1, 2010 site visit the calculated flow direction of groundwater beneath the site is toward the north at a gradient of 0.002. This flow direction and gradient are consistent with conditions observed during previous monitoring events. Groundwater elevation data are summarized on Figure 2 and presented in Table 2.

2.2.2 HYDROCARBON DISTRIBUTION IN GROUNDWATER

Hydrocarbon concentrations were detected in wells MW-4 and MW-5, and are assumed to be at saturation levels in well MW-2 based to the presence of SPH. TPHg concentrations were detected at 220 micrograms per liter ($\mu\text{g/L}$) in well MW-4 and 57,000 $\mu\text{g/L}$ in well MW-5. Benzene, ethylbenzene and xylenes were detected in well MW-4 at concentrations of 1.8, 1.2 and 1.5 $\mu\text{g/L}$, respectively. Benzene, toluene, ethylbenzene, and xylenes were detected in well MW-5 at concentrations of 16,000, 240, 1,800 and 5,000 $\mu\text{g/L}$, respectively. No MTBE was detected in any of the sampled wells. Refer to Table 2 for dissolved hydrocarbon concentrations and Appendix D for benzene concentration trend graphs for wells MW-1 through MW-6. The unshaded symbols on the graphs represent results below laboratory detection limits.


2.3 PROPOSED ACTIVITIES FOR THE SECOND 2010 SEMI-ANNUAL GROUNDWATER MONITORING/SAMPLING EVENT

2.3.1 MONITORING ACTIVITIES

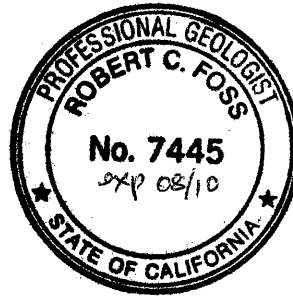
The second groundwater monitoring and sampling event will be scheduled for September. All wells will be gauged and wells MW-1, MW-2, MW-4, and MW-5 will be sampled. Wells MW-3 and MW-6 will not be sampled during the next event as they are sampled annually during the first semi-annual event. CRA will contract MES to perform these monitoring and sampling activities. MES will gauge depth to water and check each well for accumulations of SPH. Groundwater samples will be collected from wells not containing SPH. Groundwater samples will be analyzed for TPHg and BTEX by Modified EPA Method 8015/8021 and MTBE by EPA Method 8260B. If another laboratory is selected to analyze the next round of samples, TPHg, BTEX, and MTBE would be analyzed using EPA Method 8260. Groundwater monitoring and sampling results will be uploaded to the State's GeoTracker database. CRA will summarize groundwater monitoring activities and results in the *Second 2010 Semi-Annual Groundwater Monitoring Report*.

Well MW-1 has not been sampled during the previous four monitoring/sampling events due to insufficient water present in the well. This is not a result of a decreasing water table, but due to approximately 6 feet of silt in the well. CRA has proposed the redevelopment of this well prior to the September 2010 event. In the December 2009 Additional Site Characterization Report, it was erroneously stated that MW-1 had been used for extraction during remediation. No records of any groundwater extraction have been located and the only documented remediation efforts have involved Air Sparging and Vapor Extraction. It was hypothesized that infiltration and deposition in the well of fine-grained material occurred during groundwater extraction. As there is no available documentation of groundwater extraction, CRA has no hypothesis of how this well has silted in to this degree. CRA recommends the redevelopment of well MW-1 occurs prior to the next sampling to again obtain source area samples.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES



Bryan A. Fong



Robert Foss, P.G.

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FIGURES



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

Allright Parking
1432 Harrison Street
Oakland, California



Vicinity Map

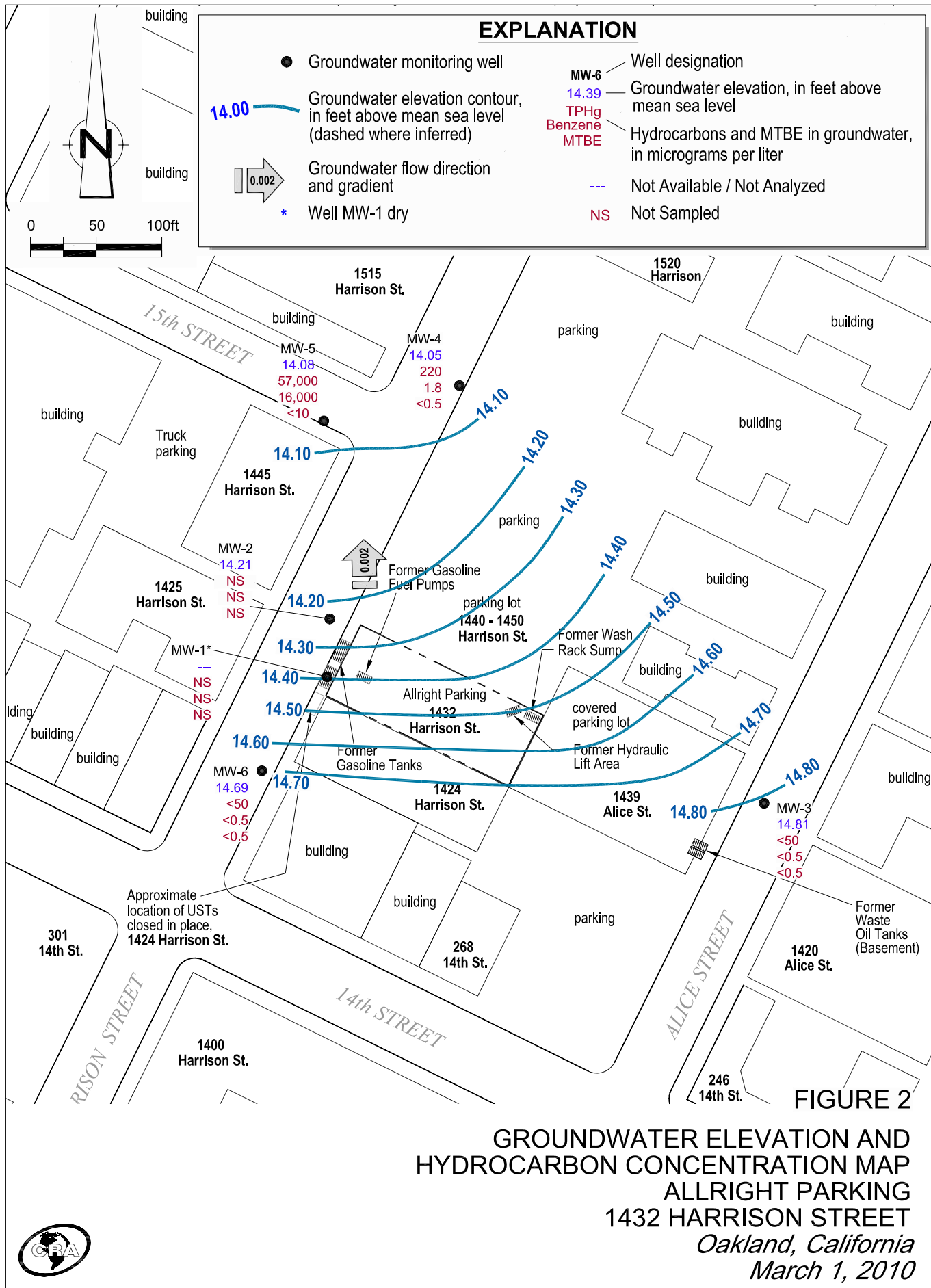


FIGURE 2

**GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP
ALLRIGHT PARKING
1432 HARRISON STREET
Oakland, California
March 1, 2010**



TABLES

**WELL CONSTRUCTION DETAILS
ALLRIGHT PARKING
1432 HARRISON STREET
OAKLAND, CALIFORNIA**

<i>Well No.</i>	<i>Installation Date</i>	<i>Total Depth (ft-bgs)</i>	<i>Boring Diameter (inch)</i>	<i>Well Diameter (inch)</i>	<i>Screen Size (inch)</i>	<i>Screened Interval (ft-bgs)</i>	<i>Sand Pack Interval (ft-bgs)</i>	<i>Surface Seal (ft-bgs)</i>	<i>TOC Elevation (ft-msl)</i>
MW-1	1/12/1994	27	12	4	0.020	16-26.5	14.5-27	0-14.5	35.37
MW-2	7/30/1994	26		2	0.010	11-26	9-26	0-9	35.21
MW-3	7/30/1994	25		2	0.010	15-25	13-25	0-13	34.01
MW-4	10/2/1996	25	8	2	0.010	15-25	13-25	0-13	33.75
MW-5	10/2/1996	30	8	2	0.010	14-29	12-30	0-12	34.63
MW-6	10/2/1996	30.5	8	2	0.010	14-29	30-Dec	0-12	35.89
VES-1 (VE)	7/23/1999	30	8	3	0.020	5-20	4.5-20	0-5	--
VES-1 (AS)				1	0.020	28-30	27.5-30	0-27.5	--
VES-2 (VE)	7/22/1999	29.5	8	3	0.020	5-20	4-20	0-4	--
VES-2 (AS)				1	0.020	27.5-29.5	27-29.5	0-27	--
VES-3 (VE)	7/23/1999	30	8	3	0.020	5-20	4-20	0-4	--
VES-3 (AS)				1	0.020	28-30	25-30	0-25	--
VES-4 (VE)	7/23/1999	29	8	3	0.020	5-20	4-20	0-4	--
VES-4 (AS)				1	0.020	27-29	26.5-28.5	0-26.5	--
SV-3	8/31/2009	5.5	3	1/4	probe	4.8-5.3	4.5-5.5	0.5-4.5	--
SV-4	8/31/2009	5.75	3	1/4	probe	4.8-5.3	4.5-5.75	0.5-4.5	--
SV-5	8/31/2009	5.5	3	1/4	probe	4.8-5.3	4.5-5.5	0.5-4.5	--
SV-6	8/31/2009	5.5	3	1/4	probe	4.8-5.3	4.5-5.5	0.5-4.5	--
SV-7	8/31/2009	5.75	3	1/4	probe	4.8-5.3	4.5-5.75	0.5-4.5	--
SV-8	8/31/2009	5.5	3	1/4	probe	4.8-5.3	4.5-5.5	0.5-4.5	--

Notes:

ft-bgs Feet below ground surface
ft-msl Feet above mean sea level
-- Not surveyed
VE Vapor extraction
AS Air sparge
SV Soil Vapor Well

GROUNDWATER ELEVATION AND ANALYTICAL DATA
 ALLRIGHT PARKING
 1432 HARRISON STREET
 OAKLAND, CALIFORNIA

Well ID Sample ID TOC (ft amsl)	Date	Depth to Groundwater (ft below TOC)	SPH Thickness (feet)	TOC Groundwater							Notes
				Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	
Monitoring Well Sample Results:											
MW-1	8/1/1994	--	--	--	170,000	35,000	51,000	2,400	13,000	--	--
34.95	12/21/1994	19.53	--	15.42	180,000	41,000	64,000	3,100	100,000	--	--
	3/13/1995	18.66	--	16.29	150,000	31,000	45,000	2,500	17,000	--	--
	6/27/1995	18.20	--	16.75	71,000	17,000	18,000	1,600	7,700	--	--
	7/7/1995	18.35	--	16.60	71,000	17,000	18,000	1,600	7,700	--	--
	9/28/1995	18.20	--	16.75	110,000	27,000	34,000	1,700	14,000	--	--
	12/20/1995	19.96	--	14.99	120,000	33,000	43,000	2,300	15,000	--	--
	3/26/1996	19.27	--	15.68	140,000	29,000	36,000	1,900	13,000	<200*	d
	6/20/1996	18.64	--	16.31	110,000	30,000	38,000	2,200	13,000	<200*	--
	9/26/1996	19.35	--	15.60	170,000	28,000	40,000	2,200	15,000	ND**	--
	10/28/1996	19.58	--	15.37	--	--	--	--	--	--	--
	12/12/1996	19.68	--	15.27	110,000	36,000	47,000	2,500	16,000	ND*	--
	3/31/1997	18.80	--	16.15	160,000	24,000	39,000	1,900	13,000	ND*	--
	6/27/1997	19.26	--	15.69	130,000	25,000	36,000	2,000	14,000	ND*	--
	9/9/1997	19.70	--	15.25	99,000	22,000	27,000	1,600	13,000	270*	--
	12/18/1997	19.25	--	15.70	160,000	30,000	44,000	2,200	15,000	ND***	--
	3/12/1998	17.52	--	17.43	190,000	20,000	49,000	2,500	18,000	ND***	--
	6/22/1998	18.63	--	16.32	90,000	19,000	40,000	2,100	16,000	--	--
	9/18/1998	18.60	--	16.35	190,000	29,000	48,000	2,400	17,000	--	--
	12/23/1998	19.18	--	15.77	140,000	24,000	44,000	2,000	8,200	--	--
	3/29/1999	18.52	--	16.43	181,000	22,200	40,100	1,844	12,200	--	--
	6/23/1999	18.60	--	16.35	80,000	20,000	33,000	1,600	11,000	--	--
	9/24/1999	19.05	--	15.90	117,000	15,100	20,700	1,550	11,800	--	--
	12/23/1999	19.95	--	15.00	186,000	25,900	39,000	1,990	12,400	--	--
	3/21/2000	18.48	--	16.47	210,000	35,000	42,000	2,200	13,000	<3,000	a
	7/3/2000	18.95	--	16.00	200,000	33,000	46,000	2,200	15,000	<200*	a
	9/7/2000	19.45	Sheen ^{field}	15.50	--	--	--	--	--	--	--
	12/5/2000	19.90	--	15.05	220,000	42,000	57,000	2,700	17,000	<200	a
	3/6/2001	18.20	--	16.75	180,000	27,000	39,000	2,000	13,000	<1200* / <20***	a,l
	6/8/2001	20.14	--	14.81	170,000	28,000	40,000	1,900	13,000	<200	a
	8/27/2001	21.19	--	13.76	130,000	24,000	33,000	1,600	11,000	<350	a
	10/25/2001	21.74	--	13.21	160,000	22,000	28,000	1,500	10,000	<350	a
	3/1/2002	21.39	0.41	13.84 ^x	--	--	--	--	--	--	--
	6/10/2002	22.30	--	12.65	210,000	30,000	51,000	3,100	22,000	<1,000*	a
34.96	9/3/2002	21.40	--	13.56	2,500,000	31,000	170,000	29,000	170,000	2,500,000*	a
	12/22/2002	20.50	--	14.46	89,000	2,600	9,300	530	28,000	<1,700	a,m
	1/23/2003	18.57	Sheen ^{Lab}	16.39	130,000	600	1,600	<100	41,000	<50***	a,b,l
	6/12/2003	19.10	0.07	15.91 ^x	--	--	--	--	--	--	--
	7/23/2003	19.42	0.07	15.59 ^x	--	--	--	--	--	--	--
35.37#	12/22/2003	17.09	0.01	18.29 ^x	--	--	--	--	--	--	--
	3/10/2004	13.82	--	21.55	22,000	190	250	<10	5,100	<100	a,c
	6/16/2004	14.75	--	20.62	2,700	23	160	13	520	<25	a
	9/27/2004	18.02	Sheen ^{field}	17.35	27,000	580	2,000	56	6,800	<10***	a,m
	12/22/2004	11.25	--	24.12	250	3.5	18	<0.5	47	<0.5***	a,m
	3/3/2005	14.42	--	20.95	320	5.2	13	3.2	46	<5.0	a
34.96##	6/9/2005	17.80	--	17.16	--	--	--	--	--	--	+
	9/9/2005	18.26	--	16.70	--	--	--	--	--	--	+
	12/20/2005	18.68	--	16.28	--	--	--	--	--	--	+
	3/26/2006	16.96	--	18.00	23,000	270	400	65	4,400	<50	a
	6/23/2006	17.55	--	17.41	30,000	340	680	170	6,900	<500	a,m
	9/7/2006	18.53	--	16.43	34,000	540	630	190	7,000	<500	a
	12/29/2006	19.43	Sheen ^{field}	15.53	20,000	550	55	130	4,700	<100* / <0.5***	a,m
	3/21/2007	18.92	Sheen ^{field}	16.04	23,000	910	210	140	5,900	<250*	a
	6/7/2007	19.22	Sheen ^{field}	15.74	24,000	680	61	190	4,300	<100*	a,b
	9/28/2007	20.19	--	14.77	--	--	--	--	--	--	+
	12/9/2007	20.40	--	14.56	--	--	--	--	--	--	+
	3/3/2008	19.16	Sheen ^{Lab}	15.80	10,000	510	28	<10	1,700	<2.5***	a,b,m,l
	6/4/2008	20.05	--	14.91	--	--	--	--	--	--	--
	9/9/2008	20.40	--	14.56	--	--	--	--	--	--	--
	12/5/2008	20.42	--	14.54	--	--	--	--	--	--	--

GROUNDWATER ELEVATION AND ANALYTICAL DATA
 ALLRIGHT PARKING
 1432 HARRISON STREET
 OAKLAND, CALIFORNIA

Well ID Sample ID TOC (ft amsl)	Date	Depth to Groundwater (ft below TOC)	SPH Thickness (feet)	TOC Groundwater							Notes
				Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	
MW-1 cont.	3/2/2009	20.39	--	14.57	--	--	--	--	--	--	--
	9/15/2009	Well Dry	--	--	--	--	--	--	--	--	--
	3/1/2010	Well Dry	--	--	--	--	--	--	--	--	--
MW-2 35.18	8/1/1994	--	--	--	130,000	28,000	35,000	3,000	12,000	--	--
	12/21/1994	19.91	--	15.27	200	140,000	200,000	3,500	22,000	--	--
	3/13/1995	19.15	--	16.03	500	9,200	23,000	7,000	36,000	--	--
	6/27/1995	18.74	--	16.44	120,000	23,000	30,000	2,700	13,000	--	--
	7/7/1995	18.80	--	16.38	120,000	23,000	30,000	2,700	13,000	--	--
	9/28/1995	19.30	--	15.88	110,000	23,000	29,000	2,500	11,000	--	--
	12/20/1995	20.24	--	14.94	83,000	980	1,800	2,200	10,000	--	--
	3/26/1996	19.69	--	15.49	150,000	23,000	32,000	2,800	12,000	<200*	d
	6/20/1996	19.20	--	15.98	94,000	15,000	23,000	2,400	12,000	<200*	--
	9/26/1996	19.80	--	15.38	150,000	20,000	29,000	2,800	12,000	ND**	--
	10/28/1996	20.18	--	15.00	--	--	--	--	--	--	--
	12/12/1996	20.17	--	15.01	58,000	3,100	11,000	1,700	8,100	220*	--
	3/31/1997	19.67	--	15.51	38,000	6,000	7,900	690	3,300	ND*	--
	6/27/1997	19.68	--	15.50	62,000	13,000	16,000	1,300	6,000	ND*	--
	9/9/1997	20.20	--	14.98	81,000	16,000	18,000	1,800	8,600	ND***	--
	12/18/1997	19.80	--	15.38	110,000	18,000	26,000	2,200	9,500	ND***	--
	3/12/1998	18.07	--	17.11	120,000	16,000	26,000	2,200	9,400	ND***	--
	6/22/1998	18.29	--	16.89	38,000	9,800	9,500	1,500	6,000	--	--
	9/18/1998	19.09	--	16.09	68,000	12,000	16,000	1,400	5,900	--	--
	12/23/1998	19.67	--	15.51	180,000	16,000	22,000	2,200	8,300	--	--
	3/29/1999	18.97	--	16.21	16,600	1,380	1,920	373	1,840	--	--
	6/23/1999	18.25	--	16.93	41,000	10,000	9,400	1,100	5,000	--	--
	9/24/1999	19.60	--	15.58	40,600	4,880	3,490	1,090	4,560	--	--
	12/23/1999	20.21	--	14.97	61,900	6,710	9,320	1,150	5,360	--	--
	3/21/2000	18.93	--	16.25	98,000	14,000	21,000	1,600	6,900	<1600	a
	7/3/2000	19.38	--	15.80	140,000	18,000	33,000	2,600	11,000	<200*	a
	9/7/2000	19.83	--	15.35	110,000	17,000	21,000	2,200	9,700	<100***	a,l
	12/5/2000	20.30	--	14.88	130,000	19,000	28,000	2,500	11,000	<200	a
	3/6/2001	19.57	--	15.61	32,000	3,400	3,400	580	2,500	<200	a
	6/8/2001	20.59	--	14.59	72,000	9,400	9,200	1,300	5,800	<200	a
	8/27/2001	21.79	--	13.39	110,000	17,000	28,000	2,600	11,000	<950	a
	10/25/2001	22.05	--	13.13	110,000	15,000	18,000	2,000	8,700	<350	a
	3/1/2002	21.80	--	13.38	3,100	370	180	62	330	<5.0*	a
	6/10/2002	22.83	--	12.35	7,800	2,000	1,100	76	570	<100*	a
35.21	9/3/2002	22.03	--	13.18	21,000	2,400	2,900	320	1,400	<500	a
	12/22/2002	22.70	--	12.51	630	48	56	19	82	<5.0	a
	1/23/2003	20.49	--	14.72	1,100	27	32	19	150	<25	a
	6/12/2003	21.03	--	14.18	10,000	2,100	1,600	150	660	<250	a
	7/23/2003	21.40	--	13.81	28,000	4,800	4,800	380	1,700	<500	a
	12/22/2003	19.33	--	15.88	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/10/2004	19.33	--	15.88	3,100	460	290	38	240	<50	a
	6/16/2004	19.90	--	15.31	9,100	1,600	1,200	220	830	<400	a
	9/27/2004	22.08	--	13.13	14,000	2,800	490	340	1,600	<350	a
	12/22/2004	21.74	--	13.47	1,100	300	28	22	71	<15	a
	3/3/2005	19.60	--	15.61	340	12	4.4	9.1	28	<10	a
	6/9/2005	18.65	--	16.56	240	22	2.7	6.4	27	<10	a
	9/9/2005	19.27	--	15.94	7,800	1,100	170	380	690	<160	a
	12/20/2005	19.70	--	15.51	150	10	1.9	2.8	10	<5.0	a
	3/26/2006	18.51	--	16.70	2,200	93	19	66	130	<50	a
	6/23/2006	18.47	--	16.74	8,800	1,600	110	500	480	<500	a,m
	9/7/2006	18.97	--	16.24	29,000	4,800	280	940	1,000	<500	a
	12/29/2006	19.76	--	15.45	4,500	720	54	250	480	75*1/<0.5***	a
	3/21/2007	19.59	--	15.62	34,000	9,100	500	890	2,500	<1,100*	a
	6/7/2007	19.74	Sheen Lab	15.47	46,000	7,100	410	870	2,400	<800*	a,b
	9/28/2007	20.23	--	14.98	44,000	9,400	630	1,400	3,600	<0.5***	a
	12/9/2007	20.68	--	14.53	37,000	8,400	550	1,400	4,500	<17***	a,l
	3/3/2008	20.11	--	15.10	40,000	7,700	490	1,400	4,400	<17***	a,l

GROUNDWATER ELEVATION AND ANALYTICAL DATA
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 OAKLAND, CALIFORNIA

Well ID Sample ID TOC (ft amsl)	Date	Depth to Groundwater (ft below TOC)	SPH Thickness (feet)	TOC Groundwater Elevation (ft amsl)	TPHg ←	Benzene	Toluene	Ethylbenzene (µg/L)	Xylenes	MTBE	Notes
MW-3 cont.	12/9/2007	19.31	--	14.70	--	--	--	--	--	--	--
	3/3/2008	18.68	--	15.33	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	--
	6/4/2008	19.11	--	14.90	--	--	--	--	--	--	--
	9/9/2008	19.65	--	14.36	--	--	--	--	--	--	--
	12/5/2008	19.96	--	14.05	--	--	--	--	--	--	--
	3/2/2009	19.19	--	14.82	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	--
	9/15/2009	19.90	--	14.11	--	--	--	--	--	--	--
	3/1/2010	19.20	--	14.81	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	--
MW-4 33.75	10/28/1996	19.32	--	14.43	10,000	3,900	420	400	360	<200*	n
	12/12/1996	19.42	--	14.33	11,000	4,200	410	420	260	32*	--
	3/31/1997	18.67	--	15.08	ND	ND	ND	ND	ND	ND*	--
	6/27/1997	19.08	--	14.67	160	49	1.2	ND	5.9	ND*	--
	9/9/1997	19.33	--	14.42	7,400	5,000	410	230	470	33*	--
	12/18/1997	19.17	--	14.58	710	170	8.0	ND	39	ND***	--
	3/12/1998	17.68	--	16.07	1,300	410	21	ND	57	ND***	--
	6/22/1998	17.63	--	16.12	ND	ND	ND	ND	ND	--	--
	9/18/1998	18.58	--	15.17	ND	42	1.6	ND	4.8	--	--
	12/23/1998	19.01	--	14.74	1,900	1,000	76	50	120	--	--
	3/29/1999	18.35	--	15.40	ND	ND	ND	ND	ND	--	--
	6/23/1999	17.58	--	16.17	ND	ND	ND	ND	ND	--	--
	9/24/1999	19.05	--	14.70	9,150	3,270	131	34	537	--	--
	12/23/1999	19.41	--	14.34	12,200	5,360	275	424	592	--	--
	3/21/2000	18.42	--	15.33	45,000	16,000	1,100	1,400	1,900	1400* / <35***	a,l
	7/3/2000	18.82	--	14.93	33,000	10,000	720	840	1,800	<200*	a
	9/7/2000	19.21	--	14.54	26,000	8,800	800	740	1,500	<50***	a,c,l
	12/5/2000	19.60	--	14.15	41,000	11,000	840	930	1,900	<200	a
	3/6/2001	18.24	--	15.51	1,100	400	5.7	<0.5	20	<5.0	a
	6/8/2001	20.91	--	12.84	92	19	<0.5	<0.5	1	<5.0	a
	8/27/2001	21.63	--	12.12	49,000	17,000	1700	1,700	3,200	<260	a
	10/25/2001	21.70	--	12.05	57,000	16,000	1,500	1,600	2,600	<300	a
	3/1/2002	21.53	--	12.22	400	140	2.3	<0.5	12	<5.0*	a
	6/10/2002	22.23	--	11.52	<50	2.5	<0.5	<0.5	<0.5	<5.0*	--
	9/3/2002	21.85	--	11.90	31,000	9,700	300	650	1,100	<1,000	a
	12/22/2002	22.39	--	11.36	35,000	13,000	310	1,100	1,800	<1,500	a
	1/23/2003	20.61	--	13.14	51,000	18,000	430	1,500	2,200	<5.0***	a,l
	6/12/2003	21.20	--	12.55	80	12	<0.5	<0.5	1.0	<10	a
	7/23/2003	21.51	--	12.24	20,000	7,600	100	65	660	<250	a
	12/22/2003	19.60	--	14.15	26,000	9,500	200	380	1,100	<150	a
	3/10/2004	18.81	--	14.94	14,000	4,800	150	320	530	<400	a
	6/16/2004	19.32	--	14.43	2,800	1,100	24	17	100	<50	a
9/27/2004	21.45	--	12.30	45,000	16,000	260	1,700	2,000	<25***	a	
12/22/2004	21.15	--	12.60	29,000	10,000	160	890	1,200	<5.0***	a,j	
3/3/2005	18.60	--	15.15	18,000	6,400	98	500	610	<600	a	
6/9/2005	18.11	--	15.64	20,000	6,100	110	460	580	<500	a	
9/9/2005	18.65	--	15.10	17,000	6,400	100	470	730	<250	a	
12/20/2005	19.01	--	14.74	26,000	8,500	160	640	800	<120	a	
3/26/2006	17.84	--	15.91	1,900	700	22	49	85	<50	a	
6/23/2006	17.96	--	15.79	12,000	3,400	130	370	510	260	a	
9/7/2006	18.29	--	15.46	8,600	1,800	100	170	220	<210	a,i	
12/29/2006	18.93	--	14.82	4,200	1,100	120	150	280	<150* / <0.5***	a	
3/21/2007	18.76	--	14.99	550	30	2.0	4.5	5.1	<30*	a	
6/7/2007	18.92	--	14.83	85	4.4	<0.5	0.77	0.82	<5.0*	a	
9/28/2007	19.41	--	14.34	140	7.0	<0.5	1.2	<0.5	<0.5***	a	
12/9/2007	19.86	--	13.89	120	4.5	<0.5	0.62	<0.5	<0.5	a	
3/3/2008	19.22	--	14.53	63	0.78	<0.5	<0.5	<0.5	<0.5***	i	
6/4/2008	19.58	--	14.17	86	2.2	<0.5	<0.5	0.58	<0.5***	a	
9/9/2008	20.01	--	13.74	460	9.4	0.95	3.1	19	<0.5***	a	
12/5/2008	20.29	--	13.46	290	4.3	1.4	3.0	14	<0.5***	a	
3/2/2009	19.86	--	13.89	520	6.0	2.2	6.5	9.2	<0.5***	a	
9/15/2009	20.23	--	13.52	370	2.2	1.1	2.8	3.3	<0.5***	a	

GROUNDWATER ELEVATION AND ANALYTICAL DATA
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Well ID Sample ID TOC (ft amsl)	Date	Depth to Groundwater (ft below TOC)	SPH Thickness (feet)	TOC Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene (µg/L)	Xylenes	MTBE	Notes
MW-4 cont.	3/1/2010	19.70	--	14.05	220	1.8	<0.5	1.2	1.5	<0.5***	a
MW-5 34.63	10/28/1996	19.88	--	14.75	90	4.0	0.6	<0.50	<0.50	16*	
	12/12/1996	20.09	--	14.54	230	5.6	0.9	ND	0.9	3.6*	n
	3/31/1997	19.24	--	15.39	90	3.1	ND	ND	ND	ND*	--
	6/27/1997	19.16	--	15.47	ND	ND	ND	ND	ND	ND*	--
	9/9/1997	19.93	--	14.70	ND	ND	ND	ND	ND	ND*	--
	12/18/1997	19.77	--	14.86	ND	ND	ND	ND	ND	ND***	--
	3/12/1998	19.77	--	14.86	79	2.3	ND	0.8	ND	ND*	--
	6/22/1998	18.08	--	16.55	ND	ND	ND	ND	ND	--	--
	9/18/1998	19.12	--	15.51	ND	ND	ND	ND	ND	--	--
	12/23/1998	19.60	--	15.03	ND	0.8	0.9	ND	ND	--	--
	3/29/1999	18.88	--	15.75	ND	ND	ND	ND	ND	--	--
	6/23/1999	18.05	--	16.58	ND	ND	ND	ND	ND	--	--
	9/24/1999	19.61	--	15.02	ND	ND	ND	ND	ND	--	--
	12/23/1999	20.01	--	14.62	ND	ND	ND	ND	ND	--	--
	3/21/2000	19.05	--	15.58	140	<0.5	<0.5	<0.5	<0.5	<5.0	--
	7/3/2000	19.40	--	15.23	85	8.1	3.1	1.6	7.8	<5.0*	k
	9/7/2000	19.62	--	15.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	a
	12/5/2000	20.25	--	14.38	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/6/2001	19.07	--	15.56	91	5.5	<0.5	<0.5	<0.5	<5.0	--
	6/8/2001	20.77	--	13.86	290	22.0	0.8	<0.5	<0.5	<5.0	--
	8/27/2001	21.33	--	13.30	660	24.0	2.2	1.3	4.0	<25	a
	10/25/2001	21.62	--	13.01	55	3.5	<0.5	<0.5	<0.5	<5.0	a
	3/1/2002	21.49	--	13.14	200	1.9	0.69	<0.5	<0.5	<5.0*	a
	6/10/2002	22.15	--	12.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	a
	9/3/2002	21.50	--	13.13	60	1.9	<0.5	<0.5	0.77	<5.0	--
	12/22/2002	22.19	--	12.44	82	0.57	<0.5	0.68	<0.5	<5.0	a
	1/23/2003	20.27	--	14.36	<50	2.1	<0.5	<0.5	<0.5	<5.0	a
	6/12/2003	21.10	--	13.53	<50	0.88	<0.5	<0.5	<0.5	<5.0	--
	7/23/2003	21.47	--	13.16	<50	4.0	<0.5	<0.5	<0.5	<5.0	--
	12/22/2003	19.57	--	15.06	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/10/2004	19.61	--	15.02	990	200	2.9	4.0	20	<70	--
	6/16/2004	20.15	--	14.48	250	42	<0.5	0.88	<0.5	<35	a
	9/27/2004	22.14	--	12.49	1,600	140	4.8	45	18	<110	a
	12/22/2004	21.81	--	12.82	<50	5.3	<0.5	<0.5	0.66	<5.0	--
	3/3/2005	19.35	--	15.28	2,000	330	4.4	63	39	<150	a
	6/9/2005	18.73	--	15.90	250	42	1.4	14	3.2	<5.0	a
	9/9/2005	19.30	--	15.33	2,000	390	5.0	71	38	<400	a
	12/20/2005	19.65	--	14.98	4,300	760	18	170	150	<35	a
	3/26/2006	18.58	--	16.05	1,600	460	3.3	35	32	<50	a
	6/23/2006	18.57	--	16.06	1,900	500	3.9	81	56	<17	a
	9/7/2006	18.98	--	15.65	8,800	1,900	12	350	220	<260	a,i
	12/29/2006	19.70	--	14.93	15,000	3,400	69	610	700	<450*/<0.5***	a
	3/21/2007	19.57	--	15.06	9,900	2,300	24	360	410	<240*	a
	6/7/2007	19.70	--	14.93	14,000	3,800	40	790	720	<550*	a
	9/28/2007	20.16	--	14.47	26,000	7,200	84	1,100	1,600	<25***	a,l
	12/9/2007	20.56	--	14.07	25,000	7,000	59	1,100	2,000	<17	a,l
	3/3/2008	19.97	--	14.66	30,000	6,200	31	900	1,400	<10***	a,l
	6/4/2008	20.32	--	14.31	7,500	1,600	4.6	25	91	<10***	a,j
	9/9/2008	20.75	--	13.88	54,000	8,900	76	1,300	1,700	<25***	a,l
	12/5/2008	21.08	--	13.55	33,000	9,200	43	1,500	1,800	<5.0***	a,l
	3/2/2009	20.74	--	13.89	34,000	9,700	41	1,100	1,300	<5.0***	a,l
	9/15/2009	21.02	--	13.61	40,000	10,000	280	1,400	2,600	<2.5***	a,l
	3/1/2010	20.55	--	14.08	57,000	16,000	240	1,800	5,000	<10***	a,l
MW-6 35.89	10/28/1996	20.02	--	15.87	<50	<0.50	<0.50	<0.50	<0.50	<2.0*	
	12/12/1996	20.18	--	15.71	ND	ND	ND	ND	ND	ND*	n
	3/31/1997	19.81	--	16.08	--	--	--	--	--	--	--
	6/27/1997	19.76	--	16.13	--	--	--	--	--	--	--
	9/9/1997	20.06	--	15.83	ND	ND	ND	ND	ND	ND*	--

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MW-6 cont.	12/18/1997	19.90	--	15.99	ND	ND	ND	ND	ND	--	--
	3/12/1998	18.00	--	17.89	ND	ND	ND	ND	ND	ND*	--
	6/22/1998	18.43	--	17.46	ND	ND	ND	ND	ND	--	--
	9/18/1998	19.10	--	16.79	ND	ND	ND	ND	ND	--	--
	12/23/1998	19.61	--	16.28	ND	ND	ND	ND	ND	--	--
	3/29/1999	18.92	--	16.97	ND	ND	ND	ND	ND	--	--
	6/23/1999	18.41	--	17.48	ND	ND	ND	ND	ND	--	--
	9/24/1999	19.61	--	16.28	ND	ND	ND	ND	ND	--	--
	12/23/1999	20.30	--	15.59	ND	ND	ND	ND	ND	--	--
	3/21/2000	18.97	--	16.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	7/3/2000	19.46	--	16.43	59	5.1	2.3	1.1	5.3	<5.0*	--
	9/7/2000	19.95	--	15.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	a
	12/5/2000	20.50	--	15.39	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/6/2001	19.54	--	16.35	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/8/2001	20.92	--	14.97	<50	<0.5	<0.5	<0.5	<0.5	<5.1	--
	8/27/2001	21.37	--	14.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	10/25/2001	21.59	--	14.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/1/2002	21.33	--	14.56	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	6/10/2002	21.97	--	13.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	9/3/2002	21.55	--	14.34	--	--	--	--	--	--	--
	12/22/2002	22.25	--	13.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	1/23/2003	20.47	--	15.42	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/12/2003	21.09	--	14.80	--	--	--	--	--	--	--
	7/23/2003	21.42	--	14.47	--	--	--	--	--	--	--
	12/22/2003	19.49	--	16.40	--	--	--	--	--	--	--
	3/10/2004	20.20	--	15.69	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/16/2004	20.73	--	15.16	--	--	--	--	--	--	--
	9/27/2004	22.88	--	13.01	--	--	--	--	--	--	--
	12/22/2004	22.53	--	13.36	--	--	--	--	--	--	--
	3/3/2005	19.87	--	16.02	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/9/2005	18.95	--	16.94	--	--	--	--	--	--	--
	9/9/2005	19.45	--	16.44	--	--	--	--	--	--	--
	12/20/2005	19.90	--	15.99	--	--	--	--	--	--	--
	3/26/2006	18.85	--	17.04	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/23/2006	18.57	--	17.32	--	--	--	--	--	--	--
	9/7/2006	19.13	--	16.76	--	--	--	--	--	--	--
	12/29/2006	19.96	--	15.93	--	--	--	--	--	--	--
	3/21/2007	19.87	--	16.02	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	m
	6/7/2007	20.05	--	15.84	--	--	--	--	--	--	--
	9/28/2007	20.51	--	15.38	--	--	--	--	--	--	--
	12/9/2007	20.90	--	14.99	--	--	--	--	--	--	--
	3/3/2008	20.47	--	15.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	--
	6/4/2008	20.70	--	15.19	--	--	--	--	--	--	--
MW-6 cont.	9/9/2008	21.09	--	14.80	--	--	--	--	--	--	--
	12/5/2008	21.50	--	14.39	--	--	--	--	--	--	--
	3/2/2009	21.30	--	14.59	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	--
	9/15/2009	21.55	--	14.34	--	--	--	--	--	--	--
	3/1/2010	21.20	--	14.69	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	m
Trip Blank	3/21/2000	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	9/7/2000	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
Grab Groundwater Sample Results:											
SB-A	7/6/1995	~20	--	--	330	16	3.6	1.3	4.9	--	ij
SB-B	7/7/1995	~20	--	--	450	55	3.1	5.1	5.0	--	a
SB-C	7/6/1995	~20	--	--	44,000	6,600	5,900	980	4,400	--	a
SB-D	7/6/1995	~20	--	--	70,000	7,400	10,000	1,600	7,200	--	a
SB-E	7/6/1995	~20	--	--	25,000	1,000	3,000	610	2,700	--	a
SB-G	7/7/1995	~20	--	--	84,000	9,400	16,000	2,200	9,900	--	a,b
SB-I	7/7/1995	~20	--	--	24,000	6,100	1,400	680	1,600	--	a
SB-J	7/7/1995	~20	--	--	960	110	66	8.7	71	--	a

GROUNDWATER ELEVATION AND ANALYTICAL DATA
ALLRIGHT PARKING
1432 HARRISON STREET
OAKLAND, CALIFORNIA

Well ID Sample ID TOC (ft amsl)	Date	Depth to Groundwater (ft below TOC)	SPH Thickness (feet)	TOC Groundwater Elevation (ft amsl)	TPHg ←	Benzene	Toluene	Ethylbenzene (µg/L)	Xylenes	MTBE →	Notes
SB-K	7/7/1995	~20	--	--	72,000	9,600	9,600	1,800	7,000	--	a
CB-1-W	7/22/1999	--	--	--	110,000	1,300	16,000	2,700	12,000	<3000*	a,b,c
CB-2-W	7/22/1999	--	--	--	4,700	21	13	170	76	<50*	a,c
GW-1	7/30/1994	--	--	--	<50	<0.5	<0.5	<0.5	<2.0	--	--
GW-2 ^	7/29/1994	--	--	--	<50	<0.5	<0.5	<0.5	<2.0	--	--
GW-3 ^	7/29/1994	--	--	--	<50	<0.5	<0.5	<0.5	<2.0	--	--

Abbreviations, Methods, & Notes

TOC = Top of casing elevation

ft amsl = feet above mean sea level

SPH = Separate-phase hydrocarbons

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method SW8015C

Benzene, toluene, ethylbenzene, and xylenes by EPA Method SW8021B

MTBE = Methyl tert-butyl ether * = MTBE by EPA Method SW8021B

** = MTBE by EPA Method SW8240

*** = MTBE by EPA Method SW8260

1 = Not confirmed with EPA Method 8260B.

µg/L = micrograms per liter, equivalent to parts per billion

-- = Not sampled, not analyzed, not applicable, or no SPH was measured or observed

<n = Not detected in sample above n mg/L

ND = Not detected above laboratory detection limit

x = Groundwater elevation adjusted for SPH by the relation:

Groundwater Elevation = TOC Elevation - Depth to Groundwater + (0.7 x SPH thickness)

= The wellhead elevation was raised by 0.41 feet when well MW-1 was connected to the SVE system on October 31, 2003.

= The wellhead elevation was lowered by 0.41 feet when well MW-1 was disconnected from the SVE system on April 30, 2005.

+ = Well de-watered during purging, no measurable water to sample.

Sheen = A sheen was observed on the water's surface

Field = Observed in the field

Lab = Observed in analytical laboratory

^ = Samples associated with 1439 Alice St. Property

a = Unmodified or weakly modified gasoline is significant.

b = Lighter than water immiscibl 20.46

c = Liquid sample that contains greater than ~2 vol. % sediment.

d = MTBE result confirmed by secondary column or GC/MS analysis.

e = Sample analyzed for purgeable hydrocarbons by EPA Method SW8010, no purgeable hydrocarbons were detected.

f = Sample analyzed for VOCs by EPA Method SW8240, no non-BTEX compounds were detected.

g = Sample analyzed for Total Petroleum Hydrocarbons as motor oil (TPHmo) by Modified EPA Method SW8015, no TPHmo was detected.

h = Analytic sampling discontinued. Approved by Alameda County Department of Environmental Health.

i = Lighter gasoline range compounds are significant.

j = Gasoline range compounds having broad chromatographic peaks are significant.

k = No recognizable pattern.

l = Sample diluted due to high organic content.

m = Liquid sample that contains greater than ~1 vol. % sediment.

n = TOC well elevation was increased by 3 ft based on a benchmark discrepancy discovered during a well survey performed on September 11, 2002.

APPENDIX A

STANDARD FIELD PROCEDURES FOR
GROUNDWATER MONITORING AND SAMPLING

Conestoga–Rovers & Associates

STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

This document presents standard field methods for groundwater monitoring, purging and sampling, and well development. These procedures are designed to comply with Federal, State and local regulatory guidelines. Cambria's specific field procedures are summarized below.

Groundwater Elevation Monitoring

Prior to performing monitoring activities, the historical monitoring and analytical data of each monitoring well shall be reviewed to determine if any of the wells are likely to contain non-aqueous phase liquid (NAPL) and to determine the order in which the wells will be monitored (i.e. cleanest to dirtiest). Groundwater monitoring should not be performed when the potential exists for surface water to enter the well (i.e. flooding during a rainstorm).

Prior to monitoring, each well shall be opened and the well cap removed to allow water levels to stabilize and equilibrate. The condition of the well box and well cap shall be observed and recommended repairs noted. Any surface water that may have entered and flooded the well box should be evacuated prior to removing the well cap. In wells with no history of NAPL, the static water level and total well depth shall be measured to the nearest 0.01 foot with an electronic water level meter. Wells with the highest contaminant concentrations shall be measured last. In wells with a history of NAPL, the NAPL level/thickness and static water level shall be measured to the nearest 0.01 foot using an electronic interface probe. The water level meter and/or interface probe shall be thoroughly cleaned and decontaminated at the beginning of the monitoring event and between each well. Monitoring equipment shall be washed using soapy water consisting of Liqui-nox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water.

Groundwater Purging and Sampling

Prior to groundwater purging and sampling, the historical analytical data of each monitoring well shall be reviewed to determine the order in which the wells should be purged and sampled (i.e. cleanest to dirtiest). No purging or groundwater sampling shall be performed on wells with a measurable thickness of NAPL or floating NAPL globules. If a sheen is observed, the well should be purged and a groundwater sample collected only if no NAPL is present. Wells shall be purged either by hand using a disposal or PVC bailer or by using an aboveground pump (e.g. peristaltic or Wattera™) or down-hole pump (e.g. Grundfos™ or DC Purger pump).

Groundwater wells shall be purged approximately three to ten well-casing volumes (depending on the regulatory agency requirements) or until groundwater parameters of temperature, pH, and conductivity have stabilized to within 10% for three consecutive readings. Temperature, pH, and conductivity shall be measured and recorded at least once per well casing volume removed. The total volume of groundwater removed shall be recorded along with any other notable physical characteristic such as color and odor. If required, field parameters such as turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) shall also be measured prior to collection of each groundwater sample.

Groundwater samples shall be collected after the well has been purged. If the well is slow to recharge, a sample shall be collected after the water column is allowed to recharge to 80% of the pre-purging static water level. If the well does not recover to 80% in 2 hours, a sample shall be collected once there is enough groundwater in the well. Groundwater samples shall be collected using clean disposable bailers or pumps (if an operating remediation system exists on site and the project manager approves of its use for sampling) and shall be decanted into clean containers supplied by the analytical laboratory. New latex gloves and disposable tubing or bailers shall be

Conestoga–Rovers & Associates

used for sampling each well. If a PVC bailer or down-hole pump is used for groundwater purging, it shall be decontaminated before purging each well by using soapy water consisting of Liqui-nox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water. If a submersible pump with non-dedicated discharge tubing is used for groundwater purging, both the inside and outside of pump and discharge tubing shall be decontaminated as described above.

Sample Handling

Except for samples that will be tested in the field, or that require special handling or preservation, samples shall be stored in coolers chilled to 4° C for shipment to the analytical laboratory. Samples shall be labeled, placed in protective foam sleeves or bubble wrap as needed, stored on crushed ice at or below 4° C, and submitted under chain-of-custody (COC) to the laboratory. The laboratory shall be notified of the sample shipment schedule and arrival time. Samples shall be shipped to the laboratory within a time frame to allow for extraction and analysis to be performed within the standard sample holding times.

Sample labels shall be filled out using indelible ink and must contain the site name; field identification number; the date, time, and location of sample collection; notation of the type of sample; identification of preservatives used; remarks; and the signature of the sampler. Field identification must be sufficient to allow easy cross-reference with the field datasheet.

All samples submitted to the laboratory shall be accompanied by a COC record to ensure adequate documentation. A copy of the COC shall be retained in the project file. Information on the COC shall consist of the project name and number; project location; sample numbers; sampler/recorder's signature; date and time of collection of each sample; sample type; analyses requested; name of person receiving the sample; and date of receipt of sample.

Laboratory-supplied trip blanks shall accompany the samples and be analyzed to check for cross-contamination, if requested by the project manager.

Waste Handling and Disposal

Groundwater extracted during sampling shall be stored onsite in sealed U.S. DOT H17 55-gallon drums and shall be labeled with the contents, date of generation, generator identification, and consultant contact. Extracted groundwater may be disposed offsite by a licensed waste handler or may be treated and discharged via an operating onsite groundwater extraction/treatment system.

APPENDIX B

CERTIFIED ANALYTICAL REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTATION



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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540188; Borsuk	Date Sampled: 03/01/10
		Date Received: 03/01/10
	Client Contact: Bob Foss	Date Reported: 03/04/10
	Client P.O.:	Date Completed: 03/04/10

WorkOrder: 1003009

March 22, 2010

Dear Bob:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **#540188; Borsuk,**
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

1003009



McCAMPBELL ANALYTICAL, INC.
 1534 WILLOW PASS ROAD
 PITTSBURG, CA 94565-1701
 Website: www.mccampbell.com Email: main@mccampbell.com
 Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD
TURN AROUND TIME
 RUSH 24 HR 48 HR 72 HR 5 DAY
 GeoTracker EDF PDF Excel Write On (DW)
 Check if sample is effluent and "J" flag is required

Report To: Bob Foss Bill To: Same Conestoga Rivers & Associates
 Company: Conestoga-Rivers & Associates
5900 Hollis St. Ste. A
Emeryville, CA E-Mail: bfoss@ecroworld.com
chee@ecroworld.com
 Tele: (510) 420-3348 Fax: (510) 420-9170
 Project #: 540/88 Project Name: Bacsk
 Project Location: 1432 Harrison St. Oakland, CA
 Sampler Signature: Muska Environmental Sampling

Analysis Request										Other	Comments	
BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE TPH as Diesel (8015) Total Petroleum Oil & Grease (1664 / 5520 E/B&F) Total Petroleum Hydrocarbons (418.1) EPA 8260 (HVOCs) MTBE / BTEX ONLY (EPA 602 / 8021) EPA 505 / 608 / 8081 (CI Pesticides) EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners EPA 507 / 8141 (NP Pesticides) EPA 515.3 / 8151 (Acidic CI Herbicides) EPA 524.2 / 624 / 8260 (VOCs) EPA 525.2 / 625 / 8270 (SVOCs) EPA 8270 SIM / 8310 (PAHs / PNAs) CAM 17 Metals (200.8 / 6020) 10 X Rate LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020) Lead (200.7 / 200.8 / 6010 / 6020)											Filter Samples for Metals analysis: Yes / No	
MW-2		3-1-14	10:40	3	VOA						X	

Relinquished By: [Signature] Date: 3/1/10 Time: 12:02 Received By: [Signature]
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/A° 1.20
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 APPROPRIATE CONTAINERS
 PRESERVED IN LAB
 COMMENTS:
 VOAS O&G METALS OTHER
 PRESERVATION pH<2

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1003009

ClientCode: CETE

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:	Bill to:	Requested TAT: 5 days
Bob Foss	Accounts Payable	
Conestoga-Rovers & Associates	Conestoga-Rovers & Associates	<i>Date Received: 03/01/2010</i>
5900 Hollis St, Suite A	5900 Hollis St, Ste. A	<i>Date Printed: 03/01/2010</i>
Emeryville, CA 94608	Emeryville, CA 94608	
(510) 420-0700 FAX (510) 420-9170		

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1003009-001	MW-2	Product	3/1/2010 10:40	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTEX_Product	2		3		4		5	
6		7		8		9		10	
11		12							

The following SampID: 001A contains testgroup.

Prepared by: Melissa Valles

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **Conestoga-Rovers & Associates**

Date and Time Received: **3/1/2010 1:34:27 PM**

Project Name: **#540188; Borsuk**

Checklist completed and reviewed by: **Melissa Valles**

WorkOrder N°: **1003009** Matrix Product

Carrier: Client Drop-In

Chain of Custody (COC) Information

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Sample IDs noted by Client on COC? Yes No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No
 - Container/Temp Blank temperature Cooler Temp: 1.2°C NA
 - Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 - Sample labels checked for correct preservation? Yes No
 - Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 - Samples Received on Ice? Yes No
- (Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:

Contacted by:

Comments:



McC Campbell Analytical, Inc.

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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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540188; Borsuk	Date Sampled: 03/01/10
	Client Contact: Bob Foss	Date Received: 03/01/10
	Client P.O.:	Date Extracted: 03/01/10
		Date Analyzed 03/01/10

Fuel FingerPrint *

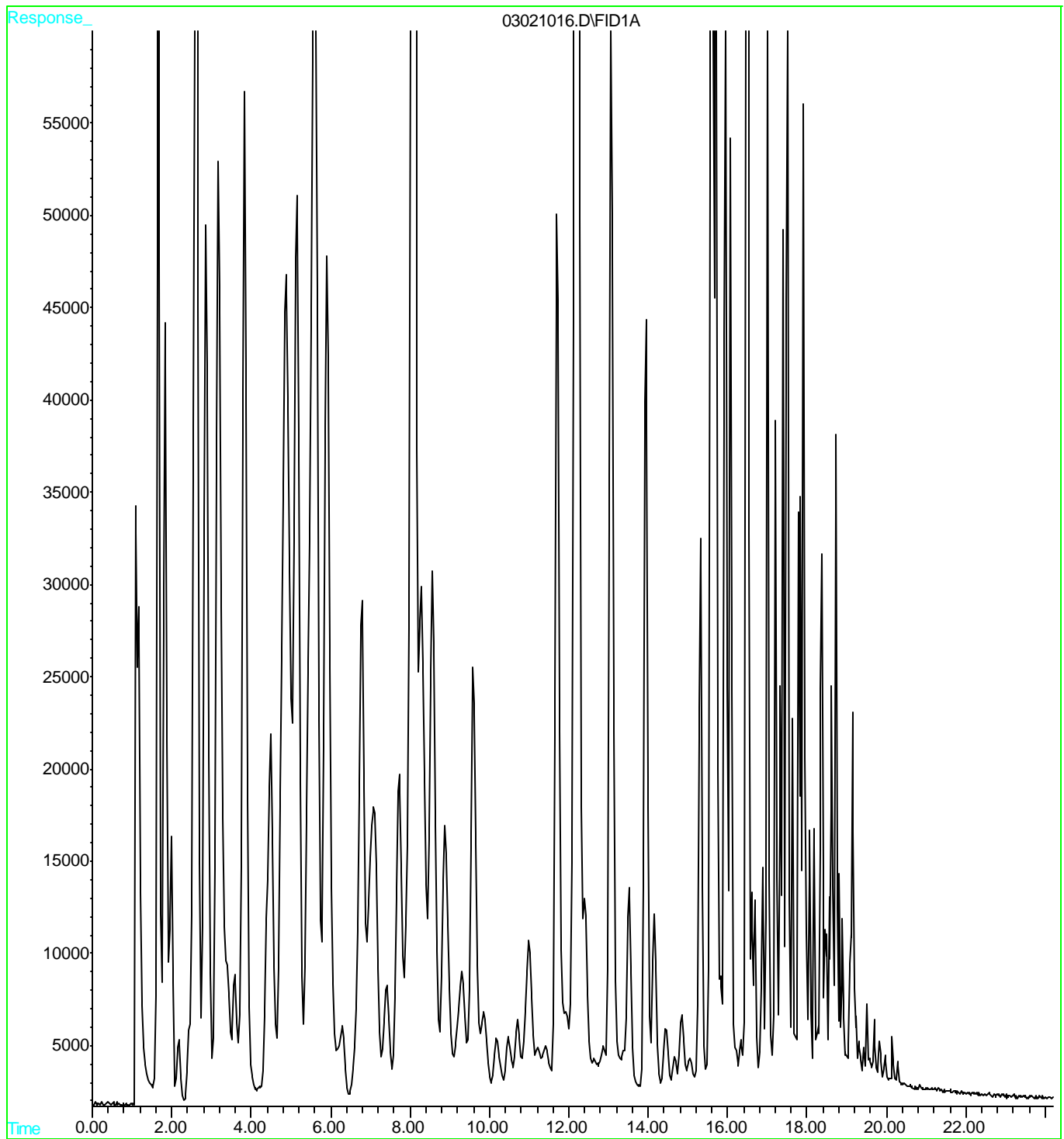
Extraction method SW3550C

Analytical methods SW8015B

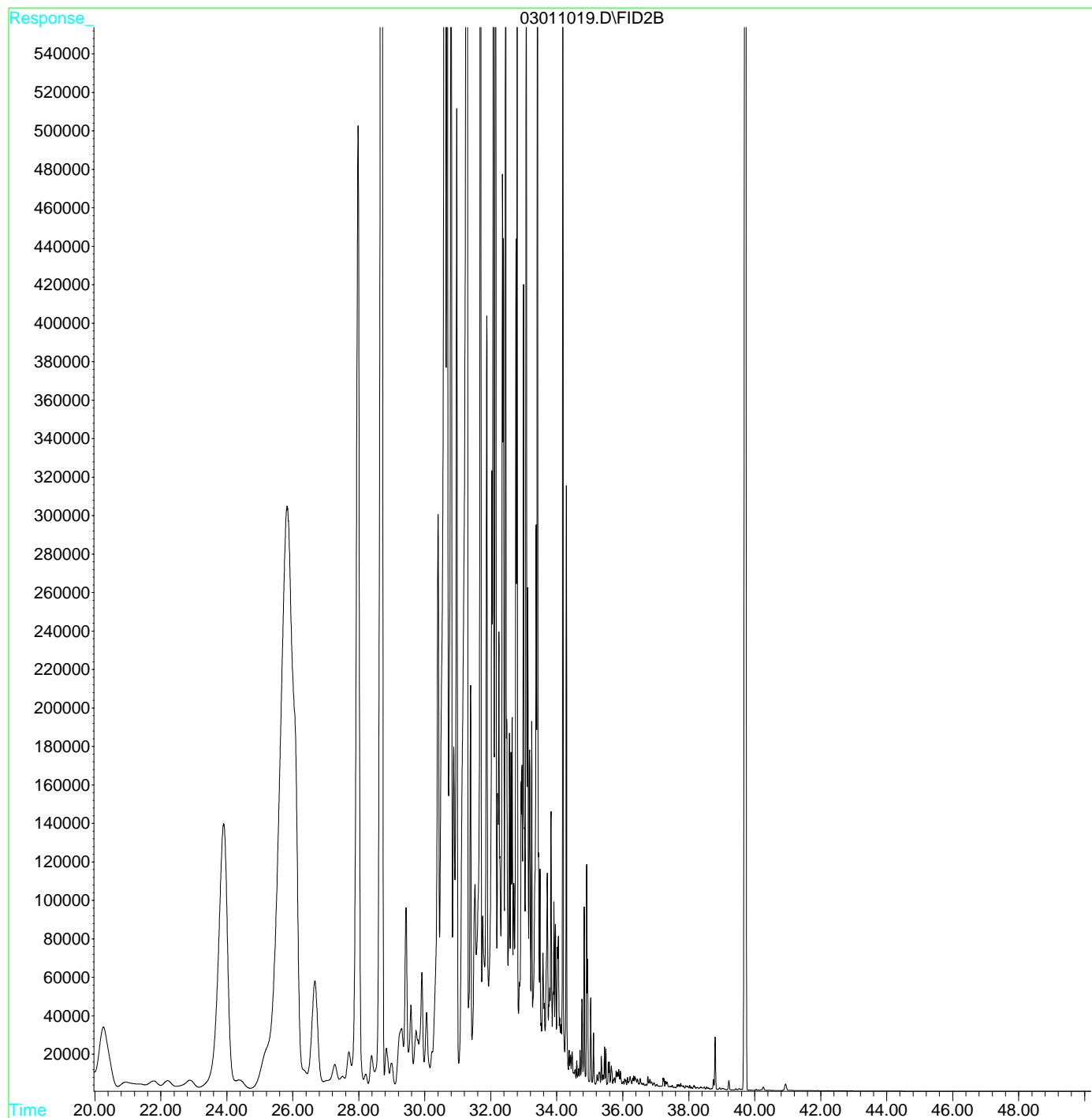
Work Order: 1003009

Lab ID	Client ID	Matrix	Fuel Fingerprint
1003009-001A	MW-2	p	This sample has a significant hydrocarbon pattern between C6 and C12 that resembles unmodified to weakly modified gasoline. Chromatograms enclosed.

File : D:\HPCHEM\GC19\DATA\03021016.D
Operator :
Acquired : 2 Mar 2010 5:31 pm using AcqMethod GC19M.M
Instrument : GC-19
Sample Name: 1003009-001A S
Misc Info : G-MBTEX_PRODUCT
Vial Number: 16



File : D:\HPCHEM\GC6\DATAB\03011019.D
Operator :
Acquired : 1 Mar 2010 10:49 pm using AcqMethod GC6A50B.M
Instrument : GC-6
Sample Name: 1003009-001A
Misc Info : TPH(FF)_P
Vial Number: 60





QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Product

QC Matrix: Soil

BatchID: 48886

WorkOrder 1003009

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 1002449-009A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) ^f	ND	0.60	106	110	4.18	107	109	2.17	70 - 130	20	70 - 130	20
MTBE	ND	0.10	121	118	2.53	119	116	2.54	70 - 130	20	70 - 130	20
Benzene	ND	0.10	100	98.2	1.81	101	97.9	3.56	70 - 130	20	70 - 130	20
Toluene	ND	0.10	99.9	98.3	1.65	101	98.1	3.06	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	99.2	97.3	1.91	101	97.2	4.05	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	99.1	97.8	1.29	101	98.8	2.53	70 - 130	20	70 - 130	20
%SS:	84	0.10	86	84	2.73	88	84	4.47	70 - 130	20	70 - 130	20

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

BATCH 48886 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1003009-001A	03/01/10 10:40 AM	03/01/10	03/02/10 5:31 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.

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.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Product

QC Matrix: Soil

BatchID: 48887

WorkOrder 1003009

EPA Method SW8015B

Extraction SW3550C

Spiked Sample ID: 1002449-010A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	460	40	123	120	0.178	93.2	92.8	0.485	70 - 130	30	70 - 130	30
%SS:	112	25	114	113	0.519	98	97	0.476	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 48887 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1003009-001A	03/01/10 10:40 AM	03/01/10	03/01/10 10:49 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.



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Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540188; Borsuk	Date Sampled: 03/01/10
		Date Received: 03/01/10
	Client Contact: Bob Foss	Date Reported: 03/04/10
	Client P.O.:	Date Completed: 03/03/10

WorkOrder: 1003008

March 04, 2010

Dear Bob:

Enclosed within are:

- 1) The results of the **4** analyzed samples from your project: **#540188; Borsuk,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

1003008



McCAMPBELL ANALYTICAL, INC.
 1534 WILLOW PASS ROAD
 PITTSBURG, CA 94565-1701
 Website: www.mccampbell.com Email: main@mccampbell.com
 Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD
TURN AROUND TIME
 RUSH 24 HR 48 HR 72 HR 5 DAY
 GeoTracker EDF PDF Excel Write On (DW)
 Check if sample is effluent and "J" flag is required

Report To: Bob Foss Bill To: Same Creston-Rivers & Associates
 Company: Creston-Rivers & Associates
5900 Hollis St, Ste. A
Emeryville, CA
 E-Mail: b.foss@crw.com
chris@crw.com
 Tele: (510) 420-3348 Fax: (510) 420-9170
 Project #: 510188 Project Name: Bank
 Project Location: 1432 Harrison St. Oakland CA
 Sampler Signature: Muskem Environmental Sampling

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other			
MW-2		3-1-10	10:47	4	VOA X						X	X					Hold
MW-3			9:23														
MW-4			10:03														
MW-5			10:22														
MW-6			9:45	X													
TIS		X	-	1	X						X	X					Hold

Relinquished By: [Signature] Date: 3/1/10 Time: 1302 Received By: [Signature]
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE# 126
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 APPROPRIATE CONTAINERS
 PRESERVED IN LAB

COMMENTS:

VOAS O&G METALS OTHER
 PRESERVATION pH<2

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1003008

ClientCode: CETE

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:	Bill to:	Requested TAT: 5 days
Bob Foss	Accounts Payable	
Conestoga-Rovers & Associates	Conestoga-Rovers & Associates	<i>Date Received: 03/01/2010</i>
5900 Hollis St, Suite A	5900 Hollis St, Ste. A	<i>Date Printed: 03/01/2010</i>
Emeryville, CA 94608	Emeryville, CA 94608	
(510) 420-0700 FAX (510) 420-9170		

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1003008-002	MW-3	Water	3/1/2010 9:23	<input type="checkbox"/>	A	B	A									
1003008-003	MW-4	Water	3/1/2010 10:03	<input type="checkbox"/>	A	B										
1003008-004	MW-5	Water	3/1/2010 10:22	<input type="checkbox"/>	A	B										
1003008-005	MW-6	Water	3/1/2010 9:45	<input type="checkbox"/>	A	B										

Test Legend:

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

Prepared by: Melissa Valles

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **Conestoga-Rovers & Associates**

Date and Time Received: **3/1/2010 1:29:54 PM**

Project Name: **#540188; Borsuk**

Checklist completed and reviewed by: **Melissa Valles**

WorkOrder N°: **1003008** Matrix Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Sample IDs noted by Client on COC? Yes No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No
 - Container/Temp Blank temperature Cooler Temp: 1.2°C NA
 - Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 - Sample labels checked for correct preservation? Yes No
 - Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 - Samples Received on Ice? Yes No
- (Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

Client contacted:

Date contacted:

Contacted by:

Comments:



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 48966

WorkOrder 1003008

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 1003007-008A			
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	111	109	1.74	112	110	1.61	70 - 130	20	70 - 130	20
MTBE	ND	10	107	112	3.93	105	108	3.71	70 - 130	20	70 - 130	20
Benzene	ND	10	105	110	5.27	107	108	1.56	70 - 130	20	70 - 130	20
Toluene	ND	10	94.2	98.1	4.05	94.9	96.1	1.28	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	93.5	97.1	3.78	94.7	96	1.30	70 - 130	20	70 - 130	20
Xylenes	ND	30	107	110	3.47	108	110	1.17	70 - 130	20	70 - 130	20
%SS:	99	10	106	107	0.512	104	107	2.48	70 - 130	20	70 - 130	20

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

BATCH 48966 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1003008-002A	03/01/10 9:23 AM	03/03/10	03/03/10 1:30 AM	1003008-003A	03/01/10 10:03 AM	03/03/10	03/03/10 1:59 AM
1003008-004A	03/01/10 10:22 AM	03/02/10	03/02/10 2:28 PM	1003008-005A	03/01/10 9:45 AM	03/03/10	03/03/10 2:28 AM

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.

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

NR = matrix interference and/or 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, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 48947

WorkOrder 1003008

EPA Method SW8260B		Extraction SW5030B							Spiked Sample ID: 1002666-001E			
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	78.3	79.7	1.72	96.1	101	5.40	70 - 130	30	70 - 130	30
%SS1:	92	25	106	106	0	92	94	1.58	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 48947 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1003008-002B	03/01/10 9:23 AM	03/02/10	03/02/10 1:20 AM	1003008-003B	03/01/10 10:03 AM	03/02/10	03/02/10 2:03 AM
1003008-004B	03/01/10 10:22 AM	03/02/10	03/02/10 11:25 AM	1003008-005B	03/01/10 9:45 AM	03/02/10	03/02/10 3:31 AM

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.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

APPENDIX C

FIELD DATA SHEETS



WELL GAUGING SHEET

Client: Conestoga-Rovers and Associates

Site

Address: 1432 Harrison Street, Oakland, CA

Date: 3/1/2010

Signature: 

Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MW-1	8:40		Dry		20.38	
MW-2	8:35		21.00		25.54	
MW-3	8:15		19.20		23.95	
MW-4	8:25		19.70		24.50	
MW-5	8:30		20.55		27.90	
MW-6	8:20		21.20		28.25	



WELL SAMPLING FORM

Date:		3/1/2010				
Client:		Conestoga-Rovers and Associates				
Site Address:		1432 Harrison Street, Oakland, CA				
Well ID:		MW-1				
Well Diameter:		4"				
Purging Device:		_____				
Sampling Method:		Disposable Bailer				
Total Well Depth:		20.38	Fe= mg/L			
Depth to Water:		Dry	ORP= mV			
Water Column Height:			DO= mg/L			
Gallons/ft:						
1 Casing Volume (gal):		COMMENTS:				
3 Casing Volumes (gal):						
TIME:	CASING VOLUME (gal)			TEMP (Celsius)	pH	COND. (µS)
Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
			40 mL VOA	HCl, ICE	TPHg, BTEX, 1-2-DCA, MTBE	8015, 8021, 8260
Signature:						




WELL SAMPLING FORM

Date:		3/1/2010				
Client:		Conestoga-Rovers and Associates				
Site Address:		1432 Harrison Street, Oakland, CA				
Well ID:		MW-2				
Well Diameter:		2"				
Purging Device:		Disposable Bailers				
Sampling Method:		Disposable Bailer				
Total Well Depth:	25.54	Fe=	mg/L			
Depth to Water:	21.00	ORP=	mV			
Water Column Height:	4.54	DO=	mg/L			
Gallons/ft:	0.16					
1 Casing Volume (gal):	0.72	COMMENTS: SPH in well \approx 20.78 DTW \approx 21.00 SPH sampled for fuel fingerprint at 10:40 purged to a heavy sheen, sample taken H ₂ O Rx HCl bubbles in VOAs				
3 Casing Volumes (gal):	2.16					
TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (μ S)		
10:40	SPH sample taken					
10:45	purged heavy sheen					
10:50	well sampled for					
	TPH, BTEX, MTBE					
Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-2	3/1/10	10:47	40 ml. VOA	HCl, ICE	TPH, BTEX, 1,2-DCA, MTBE	8015, 8021, 8260
				Signature:		



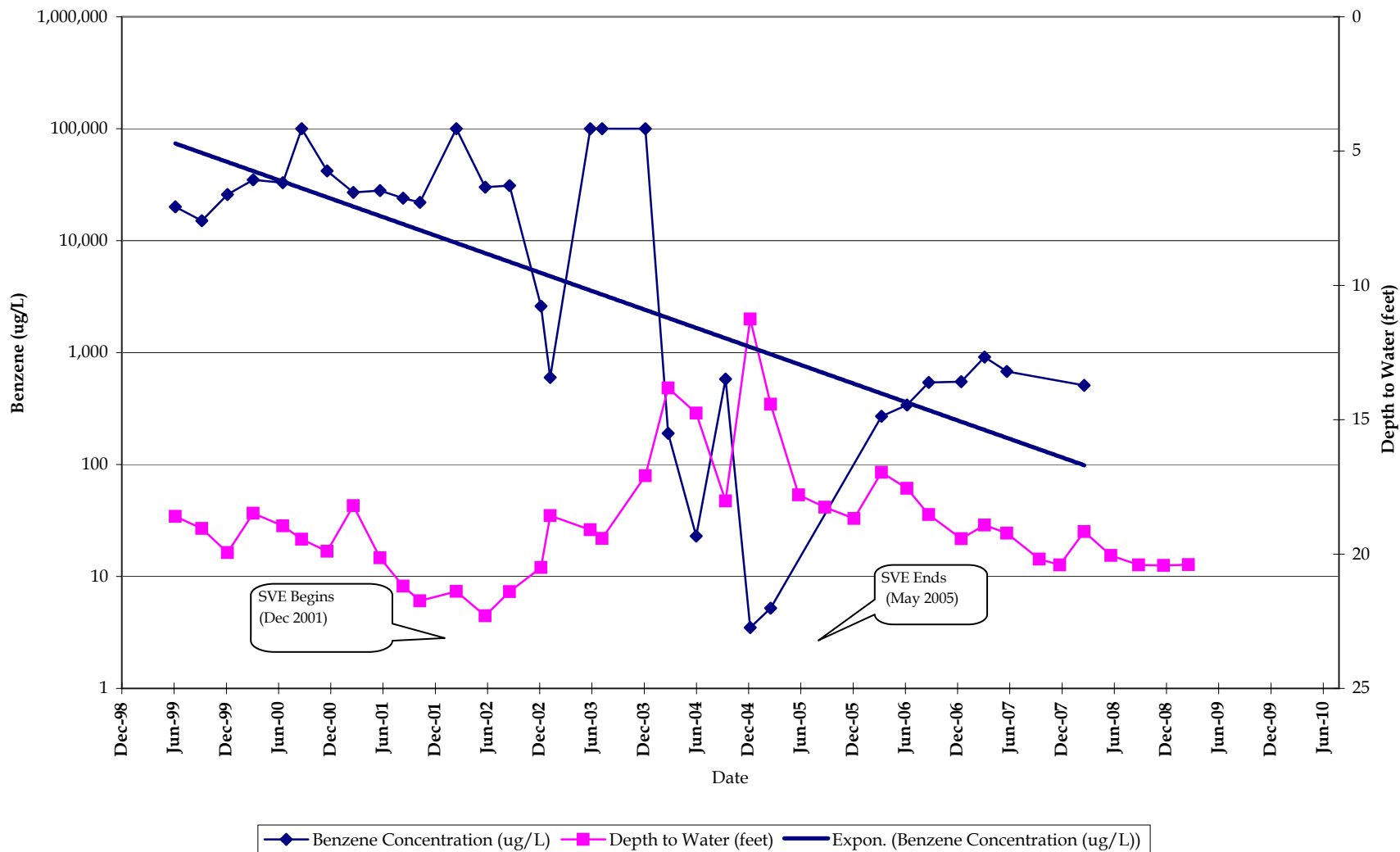
WELL SAMPLING FORM

Date:		3/1/2010				
Client:		Conestoga-Rovers and Associates				
Site Address:		1432 Harrison Street, Oakland, CA				
Well ID:		MW-3				
Well Diameter:		2"				
Purging Device:		Disposable Bailer				
Sampling Method:		Disposable Bailer				
Total Well Depth:		23.95	Fe= mg/L			
Depth to Water:		19.20	ORP= mV			
Water Column Height:		4.75	DO= mg/L			
Gallons/ft:		0.16				
1 Casing Volume (gal):		0.76	COMMENTS: very turbid, silty			
3 Casing Volumes (gal):		2.28				
TIME:	CASING VOLUME (gal)	TEMP (Celsius)		pH		
			COND. (µS)			
9:15	1.0	19.1	7.12			
9:17	1.5	19.1	7.09			
9:20	2.0	19.1	7.10			
Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-3	3/1/10	9:23	40 mL VOA	HCl, ICE	TPH, BTEX, 1-2 DCA, MTBE	8015, 8021, 8260
Signature:						

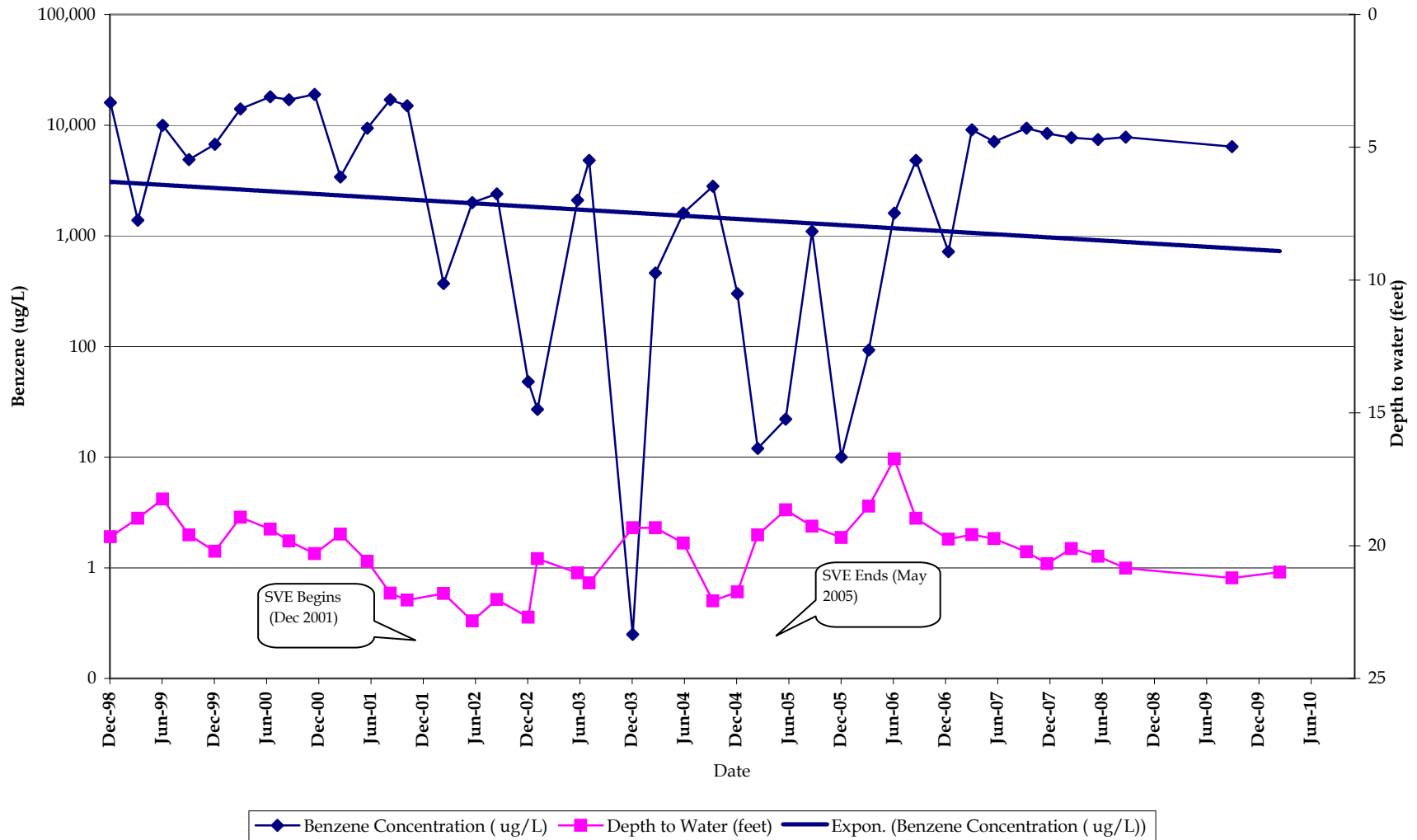
APPENDIX D

BENZENE CONCENTRATION AND
DEPTH TO WATER VS. TIME-SERIES GRAPHS

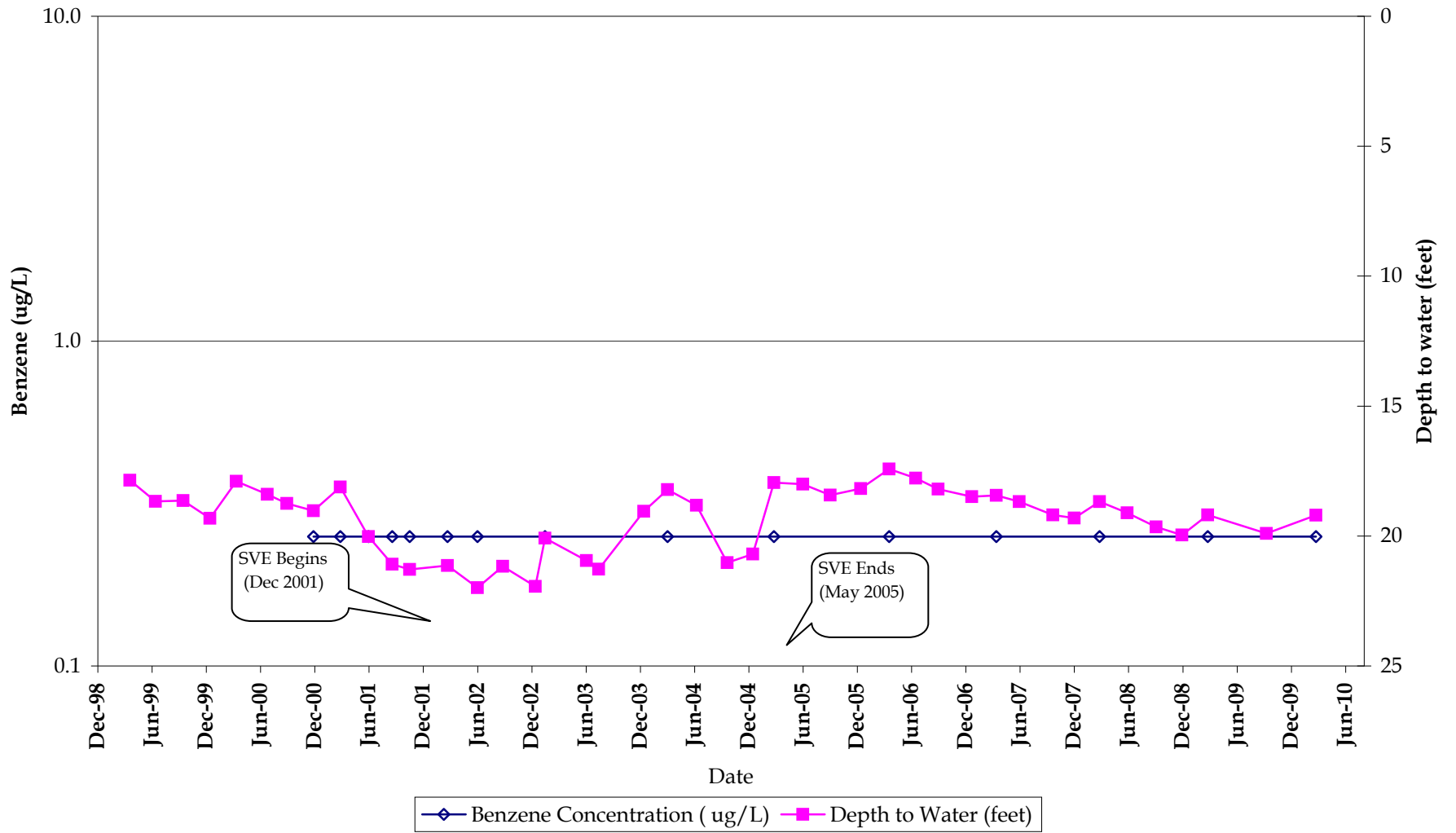
MW-1: BENZENE CONCENTRATION AND DEPTH TO WATER VS. TIME
 ALLRIGH PARKING
 1432 HARRISON STREET, OAKLAND CALIFORNIA



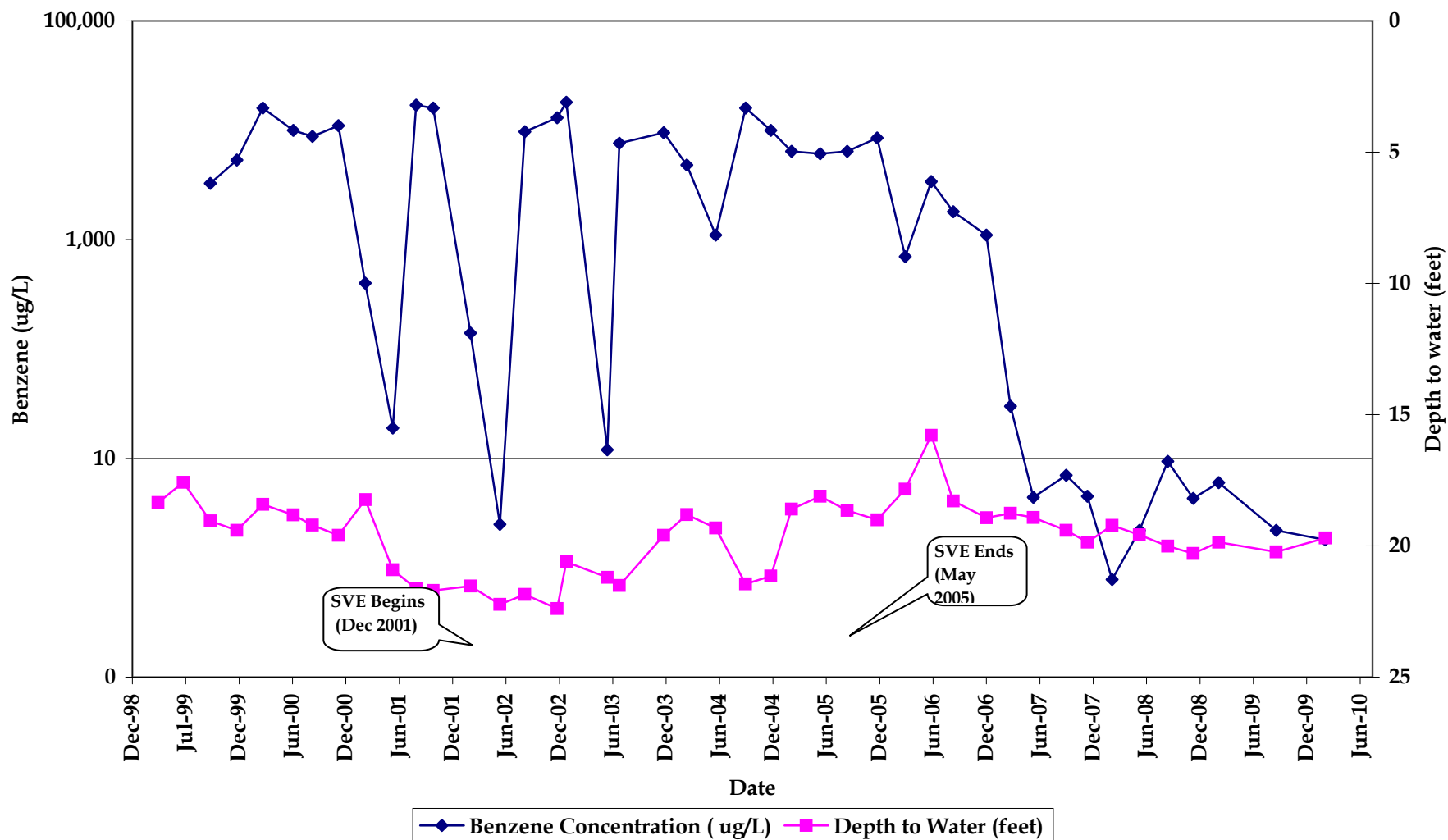
MW-2: BENZENE CONCENTRATION AND DEPTH TO WATER VS. TIME
 ALLRIGH PARKING
 1432 HARRISON STREET, OAKLAND CALIFORNIA



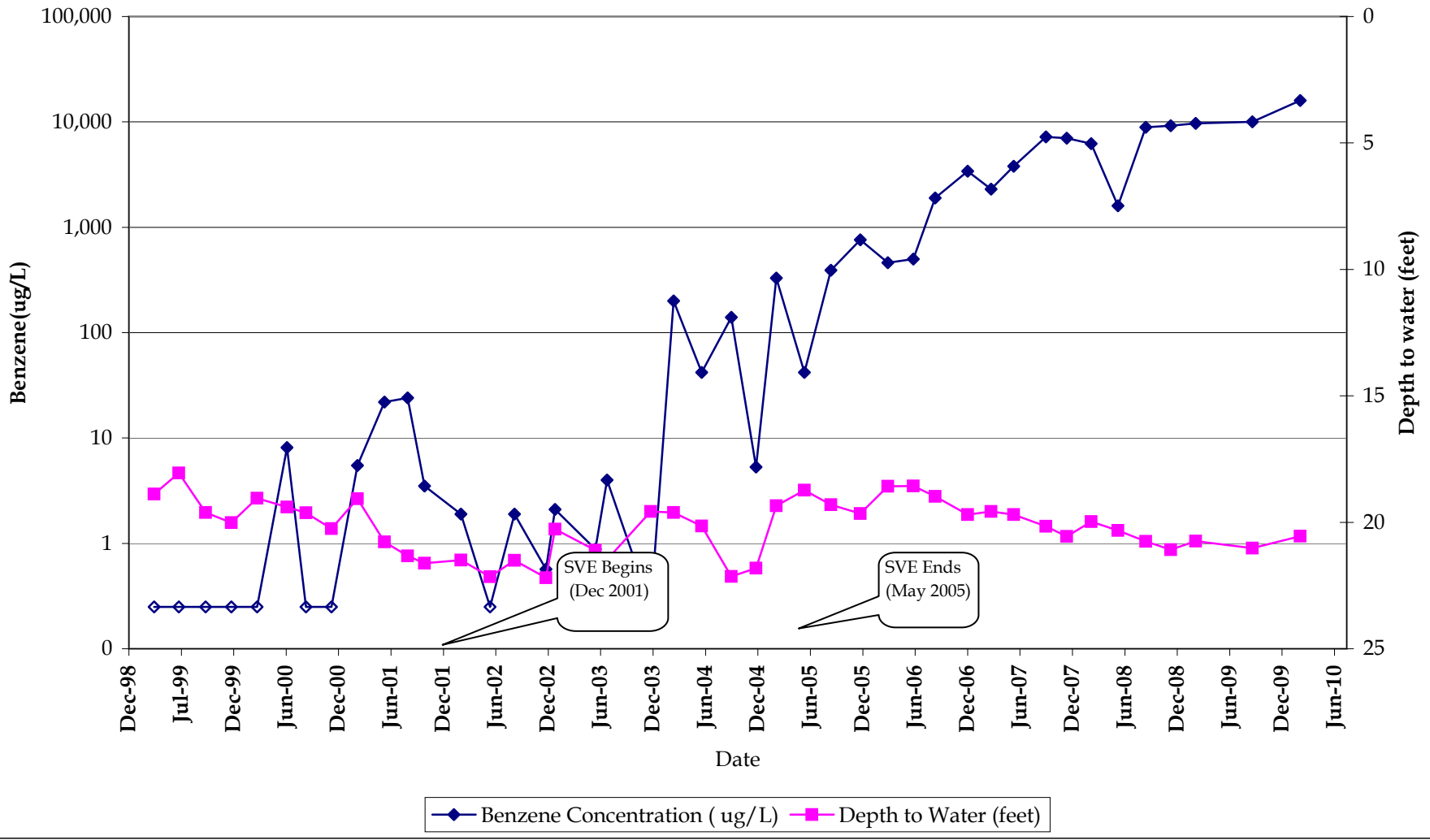
MW-3: BENZENE CONCENTRATION AND DEPTH TO WATER VS. TIME
ALLRIGH PARKING
1432 HARRISON STREET, OAKLAND CALIFORNIA



MW-4: BENZENE CONCENTRATION AND DEPTH TO WATER VS. TIME
 ALLRIGH PARKING
 1432 HARRISON STREET, OAKLAND CALIFORNIA



**MW-5: BENZENE CONCENTRATION AND DEPTH TO WATER VS. TIME
 ALLRIGH PARKING
 1432 HARRISON STREET, OAKLAND CALIFORNIA**



**MW-6: BENZENE CONCENTRATION AND DEPTH TO WATER VS. TIME
 ALLRIGH PARKING
 1432 HARRISON STREET, OAKLAND CALIFORNIA**

