



**CONESTOGA-ROVERS
& ASSOCIATES**

October 16, 2009

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Reference No. 540188

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Dear Mr. Wickham:

Re: Groundwater Monitoring Report - Third Quarter 2009
Allright Parking
1432 Harrison Street
Oakland, California
Agency Case No. RO0266

On behalf of the Est. of A. Bacharach/Barbara Jean Borsuk, Conestoga-Rovers & Associates (CRA) is submitting the *Groundwater Monitoring Report -Third Quarter 2009*. Presented in this report are a summary of the field activities and a presentation of the results from the third quarter 2009 groundwater monitoring event.

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

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Mark Jonas, P.G.

MJ/aa/4
Encl.

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

Equal
Employment
Opportunity Employer



GROUNDWATER MONITORING REPORT - THIRD QUARTER 2009

**ALLRIGHT PARKING
1432 HARRISON STREET
OAKLAND, CALIFORNIA**

FUEL LEAK CASE NO. RO0000266

**OCTOBER 16, 2009
REF. NO. 540188 (5)**

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**Prepared by:
Conestoga-Rovers
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TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION	1
1.1 SITE INFORMATION.....	1
2.0 SITE ACTIVITIES AND RESULTS	2
2.1 CURRENT QUARTER'S ACTIVITIES	2
2.1.1 FIELD ACTIVITIES	2
2.1.2 SAMPLE ANALYSES	3
2.2 CURRENT QUARTER'S RESULTS	3
2.2.1 GROUNDWATER FLOW DIRECTION.....	3
2.2.2 HYDROCARBON DISTRIBUTION IN GROUNDWATER	3
2.3 PROPOSED ACTIVITIES FOR NEXT QUARTER.....	4
2.3.1 MONITORING ACTIVITIES	4

LIST OF FIGURES
(Following Text)

FIGURE 1	VICINITY MAP
FIGURE 2	GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP

LIST OF TABLES

TABLE 1	WELL CONSTRUCTION DETAILS
TABLE 2	GROUNDWATER ELEVATIONS AND ANALYTICAL DATA

LIST OF APPENDICES

APPENDIX A	STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING
APPENDIX B	CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION
APPENDIX C	FIELD DATA SHEETS
APPENDIX D	BENZENE CONCENTRATION AND DEPTH TO WATER VS. TIME-SERIES GRAPHS

1.0 INTRODUCTION

On behalf of the Est. of A. Bacharach/Barbara Jean Borsuk, Conestoga-Rovers & Associates (CRA) has prepared this *Groundwater Monitoring Report – Third Quarter 2009* for the above-referenced site (Figure 1). Presented in this report are the third quarter 2009 groundwater monitoring activities and results and the anticipated first quarter 2010 activities. Work is performed under the regulatory oversight of Alameda County Environmental Health (ACEH).

Figure 1 is a vicinity map. Figure 2 presents groundwater elevation contours and hydrocarbon concentrations for this monitoring event. Table 1 provides well construction details. Table 2 presents recent and historic well water depth measurements and hydrochemical data, and separate phase hydrocarbon (SPH) measurements and observations. Appendix A contains CRA's standard field procedures for groundwater monitoring and sampling. Appendix B is the analytical laboratory report for the groundwater sampling event. Appendix C contains field sheets for the third quarter 2009 monitoring events. 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	Est. of A. Bacharach/ Barbara Jean Borsuk Contact: Mark Borsuk
Consultant and Contact Person	CRA, Mark Jonas, P.G.
Lead Agency and Contact Person	ACEH, Jerry Wickham, P.G.

2.0 SITE ACTIVITIES AND RESULTS

2.1 CURRENT QUARTER'S ACTIVITIES

2.1.1 FIELD ACTIVITIES

On September 15, 2009, CRA coordinated with Muskan Environmental Sampling (MES) to conduct quarterly monitoring activities. MES gauged groundwater levels and inspected for SPH in all monitoring wells. No measurable SPH was detected in any of the wells. Groundwater samples were collected from wells MW-2, MW-4, and MW-5. There was insufficient water available in well MW-1 to measure and collect a groundwater sample. Groundwater monitoring field data sheets are provided in Appendix C. The groundwater monitoring data has been submitted to the GeoTracker database.

Field activities associated with well sampling included well purging, water quality measurements, sample collection, and equipment decontamination. Prior to sampling, the monitoring wells were purged by repeated bailing using a new, disposable bailer for each well. 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 from each monitoring well continued until at least three casing volumes of water 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 forms (Appendix C).

Groundwater samples were collected using new disposable bailers. The samples were decanted from the bailers into 40 milliliter (mL) glass volatile organic analysis (VOA) vials supplied by McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California. Immediately after collection, the sample containers were labeled and placed on water-based ice in a cooler. Chain-of-custody procedures were followed from sample collection to transfer to the laboratory (Appendix B).

To minimize the potential for cross-contamination, groundwater monitoring equipment was decontaminated prior to being deployed in the first monitoring well and between successive wells. 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 at each well.

2.1.2 SAMPLE ANALYSES

Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015; and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 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 QUARTER'S RESULTS

Groundwater Flow Direction	North-northeast
Hydraulic Gradient	0.003
Range of Measured Water Depth from Top of Casing in Monitoring Wells	19.90 to 21.55 feet
Were Measureable Separate Phase Hydrocarbons Observed	No

2.2.1 GROUNDWATER FLOW DIRECTION

Based on depth-to-water measurements collected during the September 15, 2009 site visit, groundwater beneath the site in the vicinity of the former USTs and fuel pumps apparently flows toward the north-northeast at a gradient of 0.003 feet/foot. Groundwater flow conditions observed during the third quarter 2009 are consistent with conditions observed during previous monitoring events. Groundwater elevation data is summarized on Figure 2 and presented in Table 2.

2.2.2 HYDROCARBON DISTRIBUTION IN GROUNDWATER

Hydrocarbon concentrations were detected in all of the sampled wells. TPHg concentrations ranged from 370 micrograms per liter ($\mu\text{g/L}$) in well MW-4 to 48,000 $\mu\text{g/L}$ in well MW-2. Benzene concentrations ranged from 2.2 $\mu\text{g/L}$ in well MW-4

to 10,000 µg/L in well MW-5. Toluene concentrations ranged from 1.1 µg/L in well MW-4 to 600 µg/L in well MW-2. Ethylbenzene concentrations ranged from 2.8 µg/L in well MW-4 to 1,900 µg/L in well MW-2. Xylenes concentrations ranged from 3.3 µg/L in well MW-4 to 2,800 µg/L in well MW-2. No MTBE was detected in any well. 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 NEXT QUARTER

2.3.1 MONITORING ACTIVITIES

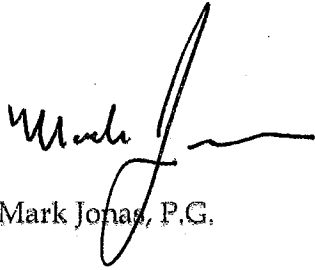
Per an email correspondence with the ACEH dated March 5, 2009, the sampling schedule for this site has been modified to a semi-annual basis. Wells MW-1, MW-2, MW-4, MW-5 will be sampled semi-annually during the first and third quarters. Wells MW-3 and MW-6 will be sampled annually during the first quarter. Therefore, the next sampling event will occur during first quarter 2010 in March. During this event, all wells will be gauged and wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6 will be sampled. CRA will contract MES to perform these sampling activities. MES will gauge all monitoring wells, check wells for SPH, and collect groundwater samples from wells not containing SPH. Groundwater samples will be analyzed for TPHg by modified EPA Method 8015, BTEX by EPA Method 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 submitted to the State's GeoTracker database. CRA will summarize groundwater monitoring activities and results in the *Groundwater Monitoring Report - First Quarter 2010*.

Because MW-1 has not been sampled during the past four quarterly monitoring events due to insufficient amounts of water, CRA proposes to redevelop this well before the first quarter event. Field observations indicate that the total depth of the well, which was formerly used to extract groundwater, has risen to the approximate depth of groundwater. This is likely due to the infiltration and deposition of fine-grained material into the well during groundwater extraction.

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



Bryan Fong



Mark Jonas, P.G.



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FIGURES



Allright Parking
1432 Harrison Street
Oakland, California



Vicinity Map

EXPLANATION

- Groundwater monitoring well
- Groundwater elevation contour, in feet above mean sea level (dashed where inferred)
- Groundwater flow direction and gradient
- * Well MW-1 dry

<ul style="list-style-type: none"> MW-6 14.39 TPHg Benzene MTBE 	<ul style="list-style-type: none"> Well designation Groundwater elevation, in feet above mean sea level Hydrocarbons and MTBE in groundwater, in micrograms per liter --- Not Available / Not Analyzed NS Not Sampled
--	--

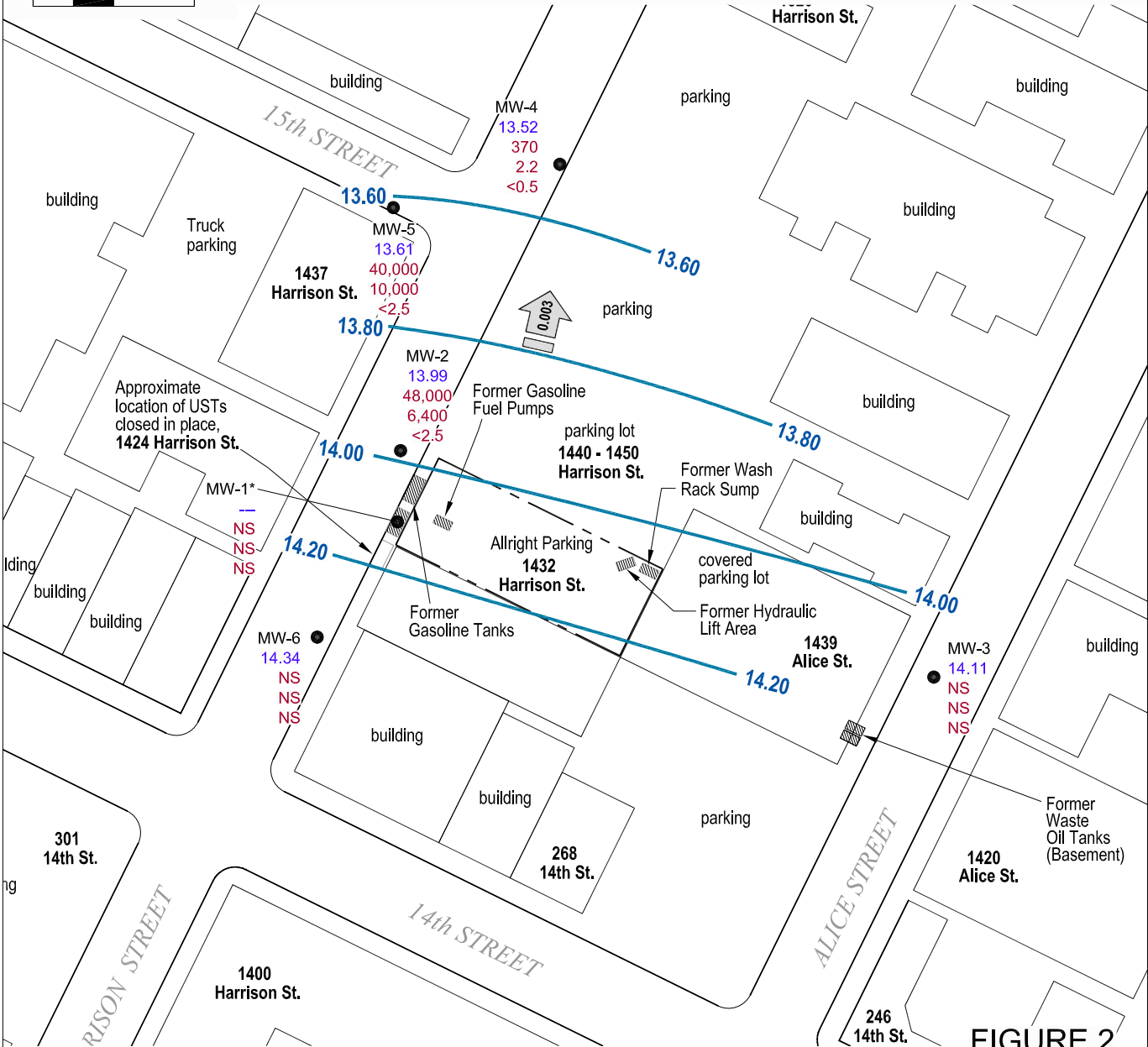


FIGURE 2
GROUNDWATER ELEVATION AND
HYDROCARBON CONCENTRATION MAP
ALLRIGHT PARKING
1432 HARRISON STREET
Oakland, California
September 15, 2009



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	Date	Depth to Groundwater (ft below TOC)	SPH Thickness (feet)	TOC Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene (µg/L)	Xylenes	MTBE	Notes
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 ^{L1C1M4}	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 [^]	--	--	--	--	--	--	--
	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 ^{L4U}	16.39	130,000	600	1,600	<100	41,000	<50***	a,b,l
	6/12/2003	19.10	0.07	15.91 [^]	--	--	--	--	--	--	--
	7/23/2003	19.42	0.07	15.59 [^]	--	--	--	--	--	--	--
35.37#	12/22/2003	17.09	0.01	18.29 [^]	--	--	--	--	--	--	--
	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 ^{F1C1M4}	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 ^{L1C1M4}	15.53	20,000	550	55	130	4,700	<100* / <0.5***	a,m
	3/21/2007	18.92	Sheen ^{L1C1M4}	16.04	23,000	910	210	140	5,900	<250*	a
	6/7/2007	19.22	Sheen ^{L1C1M4}	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 ^{L4U}	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	--	--	--	--	--	--	--
	3/2/2009	20.39	--	14.57	--	--	--	--	--	--	--
	9/15/2009	Well Dry	--	--	--	--	--	--	--	--	--
MW-2	8/1/1994	--	--	--	130,000	28,000	35,000	3,000	12,000	--	--
35.18	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	--	--

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
MW-2 (Cont.)	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
	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*+ / <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 ^{LAU}	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	
6/4/2008	20.40	--	14.81	56,000	7,400	600	1,500	4,100	<25***	a,j	
9/9/2008	20.85	--	14.36	65,000	7,800	510	1,700	4,700	<25***	a,l	
12/5/2008	Well Inaccessible										
3/2/2009	Well Inaccessible										
9/15/2009	21.22	--	13.99	48,000	6,400	600	1,900	2,800	<2.5***	a,l	
MW-3	8/1/1994	--	--	--	<50	<0.5	<0.5	<0.5	<2.0	--	--
33.97	12/21/1994	18.82	--	15.15	<50	<0.5	<0.5	<0.5	<0.5	--	--
	3/13/1995	17.86	--	16.11	<50	<0.5	<0.5	<0.5	<0.5	--	e
	7/7/1995	18.25	--	15.72	--	--	--	--	--	--	f,g
	9/28/1995	18.00	--	15.97	--	--	--	--	--	--	h
	12/20/1995	18.74	--	15.23	--	--	--	--	--	--	--
	3/26/1996	18.25	--	15.72	--	--	--	--	--	--	--

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
MW-3 (Cont.)	6/20/1996	18.35	--	15.62	--	--	--	--	--	--	--
	9/26/1996	19.12	--	14.85	--	--	--	--	--	--	--
	10/28/1996	19.11	--	14.86	--	--	--	--	--	--	--
	12/12/1996	18.61	--	15.36	--	--	--	--	--	--	--
	3/31/1997	18.35	--	15.62	--	--	--	--	--	--	--
	6/27/1997	18.81	--	15.16	--	--	--	--	--	--	--
	9/9/1997	19.18	--	14.79	--	--	--	--	--	--	--
	12/18/1997	18.64	--	15.33	--	--	--	--	--	--	--
	3/12/1998	17.56	--	16.41	--	--	--	--	--	--	--
	6/22/1998	18.64	--	15.33	--	--	--	--	--	--	--
	9/18/1998	18.33	--	15.64	--	--	--	--	--	--	--
	12/23/1998	18.60	--	15.37	--	--	--	--	--	--	--
	3/29/1999	17.85	--	16.12	--	--	--	--	--	--	--
	6/23/1999	18.67	--	15.30	--	--	--	--	--	--	--
	9/24/1999	18.64	--	15.33	--	--	--	--	--	--	--
	12/23/1999	19.32	--	14.65	--	--	--	--	--	--	--
	3/21/2000	17.89	--	16.08	--	--	--	--	--	--	--
	7/3/2000	18.40	--	15.57	--	--	--	--	--	--	--
	9/7/2000	18.75	--	15.22	--	--	--	--	--	--	--
34.01	12/5/2000	19.03	--	14.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/6/2001	18.12	--	15.85	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/8/2001	20.02	--	13.95	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	8/27/2001	21.09	--	12.88	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	10/25/2001	21.29	--	12.68	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/1/2002	21.14	--	12.83	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	6/10/2002	21.99	--	11.98	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	9/3/2002	21.17	--	12.84	--	--	--	--	--	--	--
	12/22/2002	21.94	--	12.07	--	--	--	--	--	--	--
	1/23/2003	20.08	--	13.93	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/12/2003	20.95	--	13.06	--	--	--	--	--	--	--
	7/23/2003	21.28	--	12.73	--	--	--	--	--	--	--
	12/22/2003	19.05	--	14.96	--	--	--	--	--	--	--
	3/10/2004	18.22	--	15.79	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/16/2004	18.82	--	15.19	--	--	--	--	--	--	--
	9/27/2004	21.03	--	12.98	--	--	--	--	--	--	--
	12/22/2004	20.69	--	13.32	--	--	--	--	--	--	--
	3/3/2005	17.94	--	16.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/9/2005	18.00	--	16.01	--	--	--	--	--	--	--
	9/9/2005	18.43	--	15.58	--	--	--	--	--	--	--
	12/20/2005	18.18	--	15.83	--	--	--	--	--	--	--
	3/26/2006	17.42	--	16.59	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/23/2006	17.77	--	16.24	--	--	--	--	--	--	--
	9/7/2006	18.20	--	15.81	--	--	--	--	--	--	--
	12/29/2006	18.49	--	15.52	--	--	--	--	--	--	--
	3/21/2007	18.44	--	15.57	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	6/7/2007	18.68	--	15.33	--	--	--	--	--	--	--
	9/28/2007	19.19	--	14.82	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--
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	--	--

GROUNDWATER ELEVATION AND ANALYTICAL DATA
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1432 HARRISON STREET
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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-5 (Cont.)	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
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*	--
	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	--	--	--	--	--	--	--

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MW-6	9/7/2006	19.13	--	16.76	--	--	--	--	--	--	--
(Cont.)	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	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--
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
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 immiscible sheen is present.

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

<i>Well ID</i>	<i>Date</i>	<i>Depth to Groundwater</i> <i>(ft below TOC)</i>	<i>SPH Thickness</i> <i>(feet)</i>	<i>TOC Groundwater Elevation</i> <i>(ft amsl)</i>	<i>TPHg</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethylbenzene</i> <i>(µg/L)</i>	<i>Xylenes</i>	<i>MTBE</i>	<i>Notes</i>
----------------	-------------	--	---------------------------------------	--	-------------	----------------	----------------	--------------------------------------	----------------	-------------	--------------

- 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-noxTM or AlconoxTM 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 WatteraTM) or down-hole pump (e.g. GrundfosTM 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-Oakland	Date Sampled: 09/15/09
		Date Received: 09/15/09
	Client Contact: Mark Jonas	Date Reported: 09/18/09
	Client P.O.:	Date Completed: 09/17/09

WorkOrder: 0909417

September 18, 2009

Dear Mark:

Enclosed within are:

- 1) The results of the **3** analyzed samples from your project: **#540188; Borsuk-Oakland,**
- 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.

0909417



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: Mark Jonas Bill To: Conestoga-Rovers & Associates
 Company: Conestoga-Rovers & Associates
5900 Hollis St., Ste. A
Emeryville, CA E-Mail: mjonas@croworld.com
chee@croworld.com
 Tele: (510) 420-3307 Fax: (510) 420-9170
 Project #: 540188 Project Name: Borsuk-Oakland
 Project Location: 1432 Harrison St., Oakland CA
 Sampler Signature: Muskm 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 502.2 / 601 / 8010 / 8021 (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 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	<u>MTBE by 8260</u>	Filter Samples for Metals analysis: Yes / No
+ MW-2		9-15-09	10:33	4	VOR	X	X	X	X	X	X	X	X	X	X	X	
+ MW-4			9:32														
+ MW-5			9:56			X	X	X	X	X	X	X	X	X	X	X	

Relinquished By: [Signature] Date: 9/15/09 Time: 1256 Received By: [Signature]
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/# 9.0 COMMENTS:
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 APPROPRIATE CONTAINERS
 PRESERVED IN LAB
 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: 0909417

ClientCode: CETE

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:	Mark Jonas	Email: mjonas@CRAworld.com, chee@crowor	Bill to:	Accounts Payable	Requested TAT: 5 days
	Conestoga-Rovers & Associates	cc:		Conestoga-Rovers & Associates	<i>Date Received: 09/15/2009</i>
	5900 Hollis St, Suite A	PO:		5900 Hollis St, Ste. A	<i>Date Printed: 09/15/2009</i>
	Emeryville, CA 94608	ProjectNo: #540188; Borsuk-Oakland		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	
0909417-001	MW-2	Water	9/15/2009 10:33	<input type="checkbox"/>	A	B	A										
0909417-002	MW-4	Water	9/15/2009 9:32	<input type="checkbox"/>	A	B											
0909417-003	MW-5	Water	9/15/2009 9:56	<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: Maria Venegas

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: **9/15/2009 1:33:31 PM**

Project Name: **#540188; Borsuk-Oakland**

Checklist completed and reviewed by: **Maria Venegas**

WorkOrder N°: **0909417** 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: 9°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- TTLC 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:



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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-Oakland	Date Sampled: 09/15/09
	Client Contact: Mark Jonas	Date Received: 09/15/09
	Client P.O.:	Date Extracted: 09/16/09-09/17/09
		Date Analyzed: 09/16/09-09/17/09

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 0909417

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	MW-2	W	48,000	---	6400	600	1900	2800	20	107	d1
002A	MW-4	W	370	---	2.2	1.1	2.8	3.3	1	110	d1
003A	MW-5	W	40,000	---	10,000	280	1400	2600	50	111	d1

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	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



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Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540188; Borsuk-Oakland	Date Sampled: 09/15/09
	Client Contact: Mark Jonas	Date Received: 09/15/09
	Client P.O.:	Date Extracted: 09/16/09
		Date Analyzed 09/16/09

Methyl tert-Butyl Ether*

Extraction method SW5030B

Analytical methods SW8260B

Work Order: 0909417

Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	DF	% SS	Comments
001B	MW-2	W	ND<2.5	5	105	a3
002B	MW-4	W	ND	1	113	
003B	MW-5	W	ND<2.5	5	106	a3

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

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 45839

WorkOrder: 0909417

Analyte	EPA Method SW8021B/8015Bm		Extraction SW5030B						Spiked Sample ID: 0909412-001A			
	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	106	110	3.50	107	104	3.19	70 - 130	20	70 - 130	20
MTBE	ND	10	89.4	103	13.8	96.5	87.6	9.66	70 - 130	20	70 - 130	20
Benzene	ND	10	88.2	91.2	3.34	92.3	91.5	0.793	70 - 130	20	70 - 130	20
Toluene	ND	10	87	90.5	3.97	90.5	90.2	0.385	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	86.4	90	4.09	89.5	89.9	0.379	70 - 130	20	70 - 130	20
Xylenes	ND	30	87.8	91.6	4.28	90.8	91.1	0.321	70 - 130	20	70 - 130	20
%SS:	100	10	95	95	0	98	95	2.81	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 45839 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909417-001A	09/15/09 10:33 AM	09/16/09	09/16/09 4:07 PM	0909417-002A	09/15/09 9:32 AM	09/17/09	09/17/09 5:42 AM
0909417-003A	09/15/09 9:56 AM	09/16/09	09/16/09 5:14 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 = 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: 45840

WorkOrder: 0909417

EPA Method SW8260B		Extraction SW5030B							Spiked Sample ID: 0909411-005C			
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	101	98.1	2.79	103	100	2.75	70 - 130	30	70 - 130	30
%SS1:	80	25	76	76	0	79	78	0.897	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

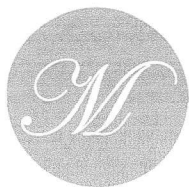
BATCH 45840 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0909417-001B	09/15/09 10:33 AM	09/16/09	09/16/09 12:33 PM	0909417-002B	09/15/09 9:32 AM	09/16/09	09/16/09 2:41 PM
0909417-003B	09/15/09 9:56 AM	09/16/09	09/16/09 3:24 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.
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

APPENDIX C

FIELD DATA SHEETS



DRUM INVENTORY

Client:	Conestoga-Rovers and Associates			
Project:	Borsuk			
Site Address:	1432 Harrison Street, Oakland, CA			
Date:	9/15/2009			
ARRIVAL	Amount	SPH	Soil	Water
COMMENTS (color, type, label markings, location etc.): One drum with 5 gallon bucket in it. One black open top steel drum with non haz purgenwater. One black open top steel drum with non haz soil	FULL		1	1
	3/4			
	2/3			
	1/2			
	1/3			
	1/4			
	>0, <1/4			1
DEPARTURE	Amount	SPH	Soil	Water
COMMENTS (color, type, label markings, location etc.): One drum with 5 gallon bucket in it. One steel black drum with non haz soil. Two black open top steel drums with non haz purgenwater. Drums are located in the former remediation compound.	FULL		1	1
	3/4			
	2/3			
	1/2			
	1/3			
	1/4			
	>0, <1/4			1
TOTAL			1	2



WELL SAMPLING FORM

Date:		9/15/2009				
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:		20.35	Fe=	mg/L		
Depth to Water:		Dry	ORP=	mV		
Water Column Height:			DO=	mg/L		
Gallons/ft:						
1 Casing Volume (gal):		COMMENTS: Dry				
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, MTBE	8015, 8021, 8260
Signature:						



WELL SAMPLING FORM

Date:		9/15/2009				
Client:		Conestoga-Rovers and Associates				
Site Address:		1432 Harrison Street, Oakland, CA				
Well ID:		MW-2				
Well Diameter:		2"				
Purging Device:		Disposable Bailer				
Sampling Method:		Disposable Bailer				
Total Well Depth:	25.53	Fe=	mg/L			
Depth to Water:	21.22	ORP=	mV			
Water Column Height:	4.31	DO=	mg/L			
Gallons/ft:	0.16					
1 Casing Volume (gal):	0.68	COMMENTS: very turbid, silty				
3 Casing Volumes (gal):	2.04					
TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)		
10:25	1.0	22.2	7.09	1018		
10:27	1.5	22.0	7.01	1004		
10:30	2.0	22.0	7.03	1009		
Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-2	9/15/09	10:33	40 ml VOA	HCl, ICE	TPH, BTEX, MTBE	8015, 8021, 8260
Signature:						



WELL SAMPLING FORM

Date:		9/15/2009				
Client:		Conestoga-Rovers and Associates				
Site Address:		1432 Harrison Street, Oakland, CA				
Well ID:		MN-4				
Well Diameter:		2"				
Purging Device:						
Sampling Method:		Disposable Bailer				
Total Well Depth:		24.50	Fe=	mg/L		
Depth to Water:		20.23	ORP=	mV		
Water Column Height:		4.27	DO=	mg/L		
Gallons/ft:		0.16				
1 Casing Volume (gal):		0.68	COMMENTS: very turbid, silty			
3 Casing Volumes (gal):		2.04				
TIME:	CASING VOLUME (gal)	TEMP (Celsius)			pH	COND. (µS)
9:25	1.0	22.5	7.40	436		
9:27	1.5	22.0	7.31	424		
9:29	2.0	21.8	7.34	422		
Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MN-4	9/15/09	9:32	40 ml VOA	HCl, ICE	TPHg, BTEX, MTBE	8015, 8021, 8260
Signature:						



WELL SAMPLING FORM

Date: 9/15/2009	
Client: Conestoga-Rovers and Associates	
Site Address: 1432 Harrison Street, Oakland, CA	
Well ID: MW-5	
Well Diameter: 2"	
Purging Device: Disposable Bailer	
Sampling Method: Disposable Bailer	
Total Well Depth:	27.40
Depth to Water:	21.02
Water Column Height:	6.88
Gallons/ft:	0.16
1 Casing Volume (gal):	1.10
3 Casing Volumes (gal):	3.30
COMMENTS:	
TIME:	CASING VOLUME (gal)
	TEMP (Celsius)
	pH
	COND. (µS)
9:50	1.0
9:52	2.0
9:54	3.0
Sample ID:	Sample Date:
	Sample Time:
	Container Type
	Preservative
	Analytes
	Method
MW-5	9/15/09
	9:56
	40 ml VOA
	HCl, ICE
	TPHg, BTEX, MTBE
	8015, 8021, 8260
Signature:	



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: Mark Jonas Bill To: Conestoga-Rovers & Associates

Company: Conestoga-Rovers & Associates
5900 Hottel St., Ste. A
Emeryville, CA E-Mail: mjonas@ceroworld.com
chiee@ceroworld.com

Tele: (510) 420-3317 Fax: (510) 420-9170
Project #: 540188 Project Name: Borsuk-Oakland

Project Location: 1432 Harrison St, Oakland, CA
Sampler Signature: Muskan Environmental Sampling

Analysis Request

Other

Filter Samples for Metals analysis: Yes / No

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED			
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other
MW-2		9/15/09	10:33	4	VOL	X					X	X	X	
MW-4		9/15/09	9:32	1	VOL	X					X	X	X	
MW-5		9/15/09	9:56	1	VOL	X					X	X	X	

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 502.2 / 601 / 8010 / 8021 (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 / 8151 (Acidic CI Herbicides)	
EPA 524.2 / 624 / 8260 (VOCs)	
EPA 525.2 / 625 / 8270 (SVOCs)	
EPA 8270 SIM / 8310 (PAHs / PNAAs)	
CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	
LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	
Lead (200.7 / 200.8 / 6010 / 6020)	
<u>MTBE by 8260</u>	

Relinquished By: _____ Date: 9/15/09 Time: 12:56 Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/# 9.0 COMMENTS:
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____
 VOAS O&G METALS OTHER
 PRESERVATION pH<2

Cambria QM Well Sampling Protocol

Client: Borsuk - Oakland

CAMBRIA

Address	1432 Harrison Street	Cambria_Project_NO	540188 540188
City	Oakland	Cambria Project Manager:	MJ
Cross Street	14th	Sample Month:	C

General Notes: Changed to semi-annual gauging/sampling until fieldwork completed per reg approval (3/5/09)

Notify Cambria's project manager immediately if there is a schedule change. Perform field activities according to Cambria's Standard Field Procedures for Groundwater Monitoring & Sampling. Call the project manager from the site if any anomalous conditions are identified and at the completion of field activities. Arrange for submittal of groundwater samples to McCampbell Analytical. Provide the following six field documents within ONE day following completion of field activity. 1. Daily Field Report, 2. GW Monitoring Field Sheet, 3. Well Sampling Form, 4. Signed Cambria QM Well Sampling Protocol, 5. Signed Chain of Custody, 6. Drum Inventory Form;

Site Specific Notes: Site is currently "ALLRIGHT PARKING LOT". Traffic control needed for all six wells. Signs to divert traffic and cones. Store labeled drums away from the traffic onsite. Need an annual encroachment permit and quarterly obstruction permits.

*Performing Monitoring well inspection and record on well inspection form.

*If necessary, perform minor repairs on wells charging time and material to the General Well Maintenance task.

Well ID	Sample?				Analytes	Comments
	1Q	2Q	3Q	4Q		
✓ MW-1 <i>Insignificant water Dry</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TPHg/BTEX by 8015/8021 and MTBE by 8260	Gauge quarterly
✓ MW-2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TPHg/BTEX by 8015/8021 and MTBE by 8260	Gauge quarterly
✓ MW-3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TPHg/BTEX by 8015/8021 and MTBE by 8260	Gauge quarterly
✓ MW-4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TPHg/BTEX by 8015/8021 and MTBE by 8260	Gauge quarterly
✓ MW-5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TPHg/BTEX by 8015/8021 and MTBE by 8260	Gauge quarterly



Cambria QM Well Sampling Protocol

Client: Borsuk - Oakland

CAMBRIA



MW-6



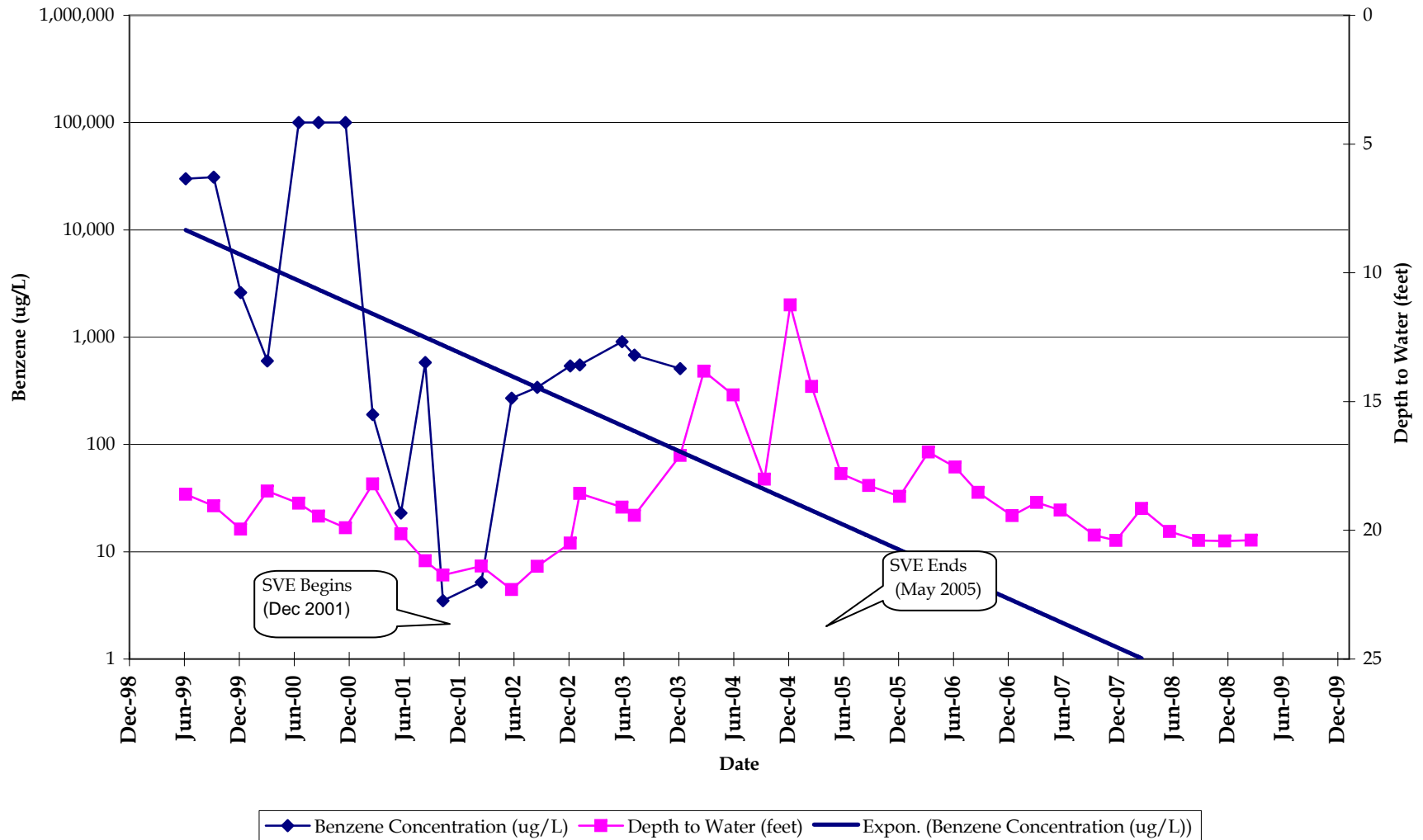
TPHg/BTEX by 8015/8021 and MTBE by Gauge quarterly
8260

APPENDIX D

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

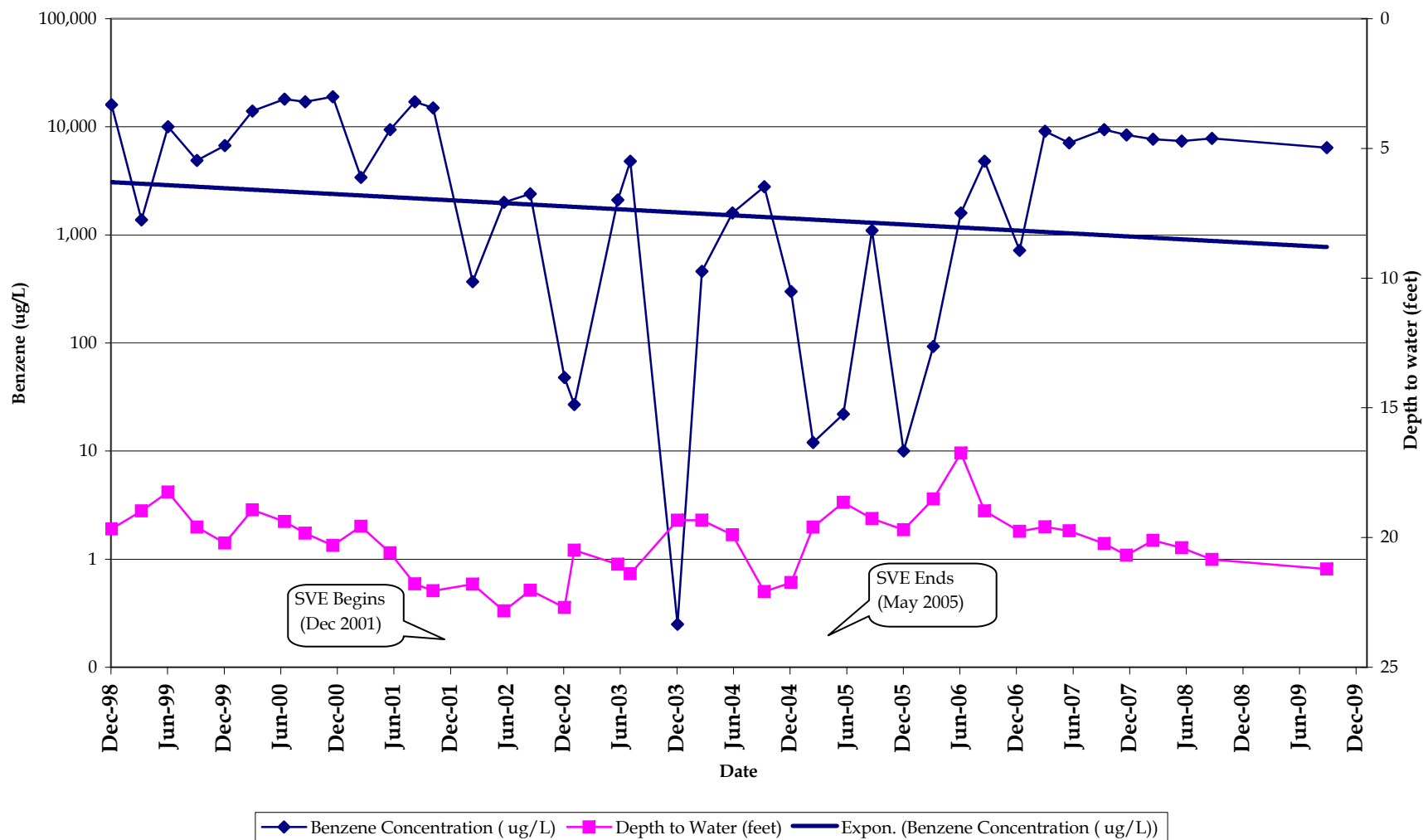
MW-1: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



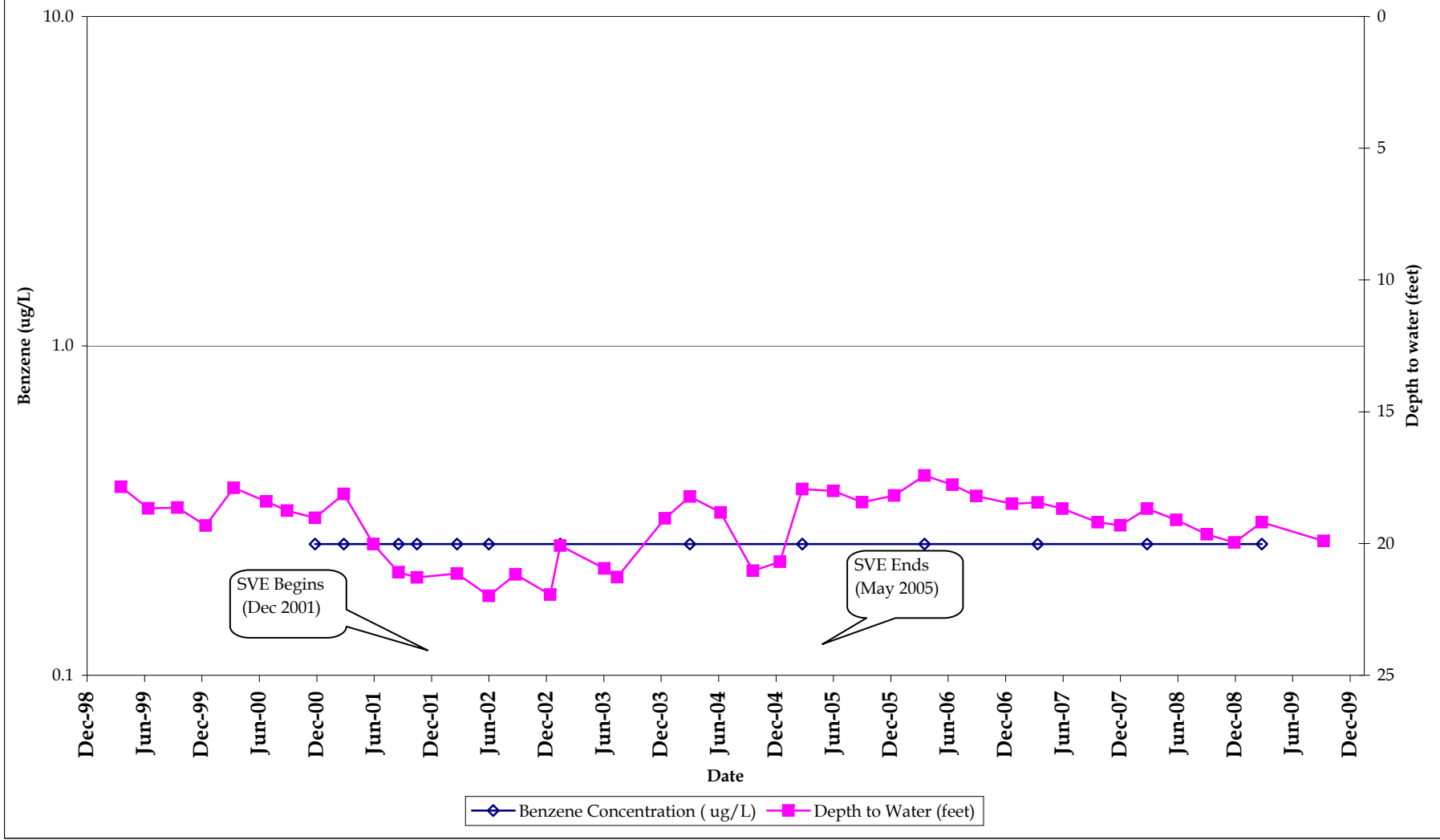
MW-2: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



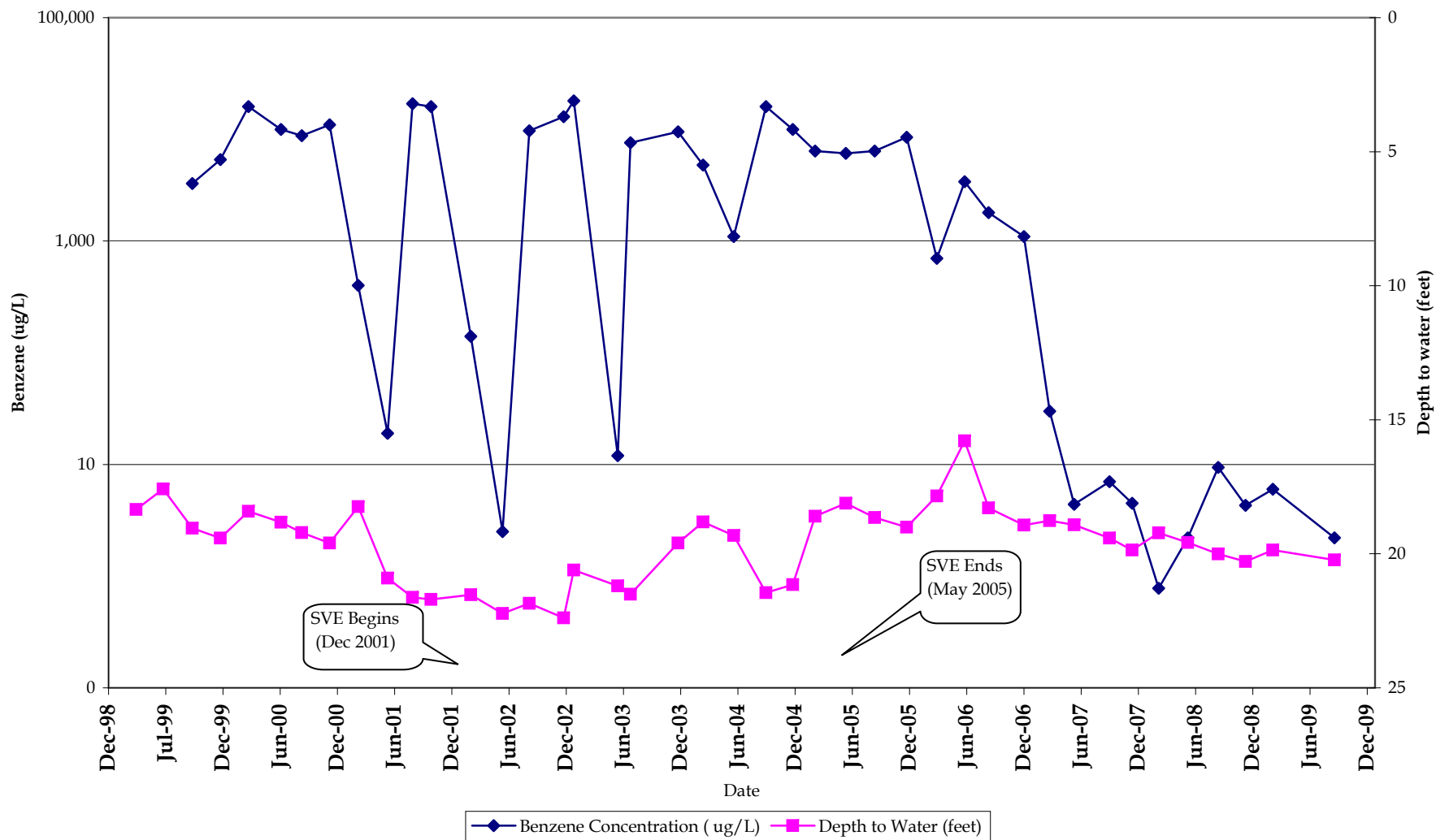
MW-3: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



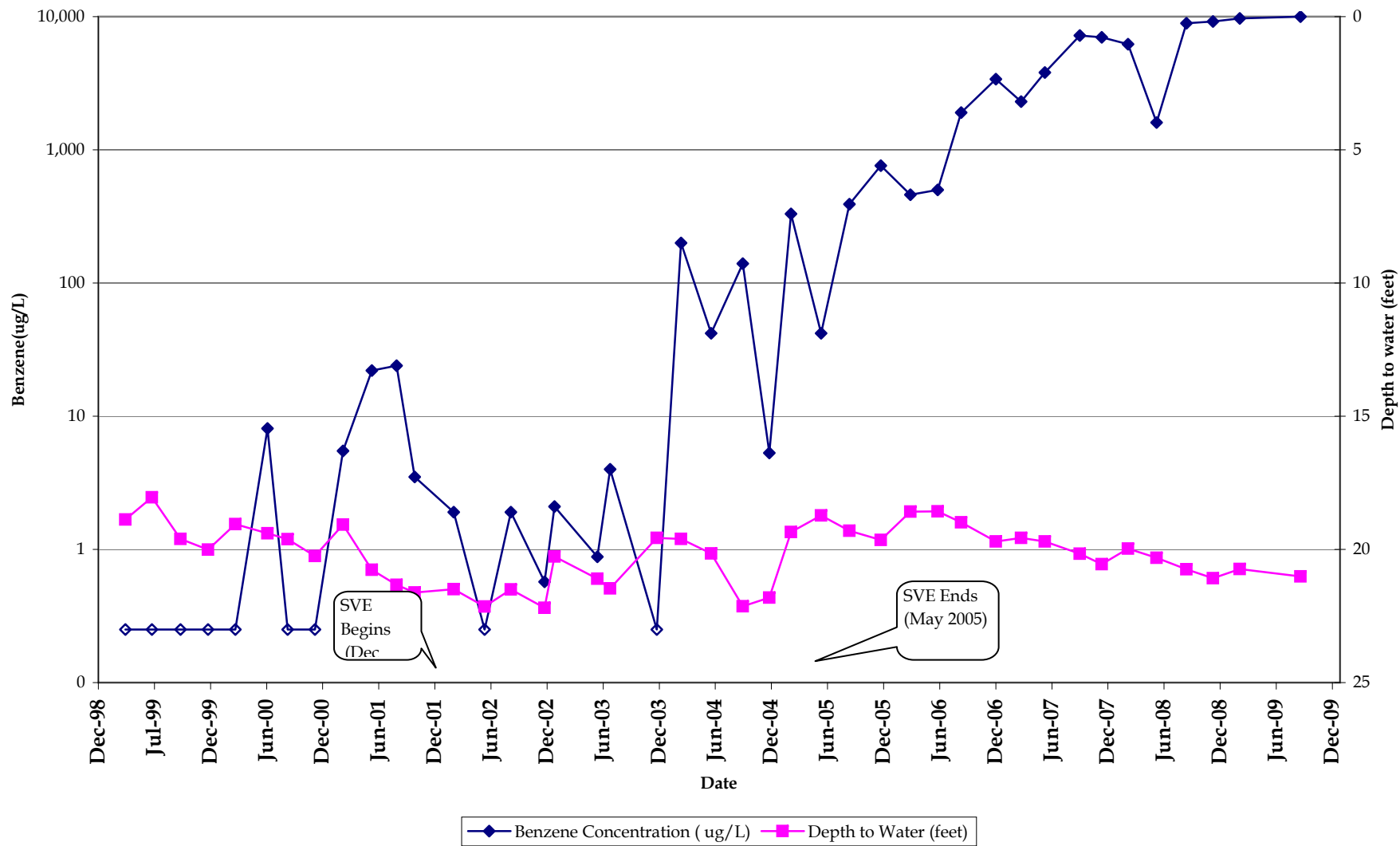
MW-4: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



MW-5: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



MW-6: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California

