



**CONESTOGA-ROVERS
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Alameda County
Environmental Health

April 20, 2009

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 – First 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 – First Quarter 2009*. Presented in this report are a summary of the field activities and a presentation of the results from the first 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 Jones, P.G.

MW/aa/3
Encl.

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

Equal
Employment
Opportunity Employer



GROUNDWATER MONITORING REPORT - FIRST QUARTER 2009

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

FUEL LEAK CASE NO. RO0000266

APRIL 20, 2009

REF. NO. 540188 (4)

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

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1.0 INTRODUCTION

On behalf of the Est. of A. Bacharach/Barbara Jean Borsuk, Conestoga-Rovers & Associates (CRA) has prepared this *Groundwater Monitoring Report – First Quarter 2009* for the above-referenced site (see Figure 1). Presented in this report are the first quarter 2009 groundwater monitoring activities and results and the anticipated second quarter 2009 activities.

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 first 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
Lead Agency and Contact Person	ACEH, Jerry Wickham

2.0 SITE ACTIVITIES AND RESULTS

2.1 CURRENT QUARTER'S ACTIVITIES

2.1.1 FIELD ACTIVITIES

On March 2, 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-3, MW-4, MW-5, and MW-6. There was insufficient water available in well MW-1 to collect a groundwater sample and well MW-2 was inaccessible due to a high volume of surface water run-off during sampling. 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
Hydraulic Gradient	0.0033
Range of Measured Water Depth from Top of Casing in Monitoring Wells	19.19 to 21.30 feet
Were Measureable Separate Phase Hydrocarbons Observed	No

2.2.1 GROUNDWATER FLOW DIRECTION

Based on depth-to-water measurements collected during the March 2, 2009 site visit, groundwater beneath the site in the vicinity of the former USTs and fuel pumps apparently flows toward the north at a gradient of 0.0033 feet/foot. Groundwater flow conditions observed during the first 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 two of the sampled wells. TPHg concentrations ranged were 520 micrograms per liter ($\mu\text{g/L}$) in well MW-4 and 34,000 $\mu\text{g/L}$ in well MW-5. Benzene concentrations were 6.0 $\mu\text{g/L}$ in well MW-4 and

9,700 µg/L in well MW-5. Toluene concentrations were 2.2 µg/L in well MW-4 and 41 µg/L in well MW-5. Ethylbenzene concentrations were 6.5 µg/L in well MW-4 and 1,100 µg/L in well MW-5. Xylenes concentrations were 9.2 µg/L in well MW-4 and 1,300 µg/L in well MW-5. 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

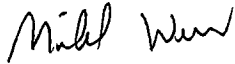
Per an email correspondence with the ACEH dated March 5, 2009, the sampling schedule for this site has been modified to a semi-annual basis. Wells MW-1, MW-2, MW-4, MW-5 will be sampled semi-annually during the first and third quarters. Wells MW-3 and MW-6 will be sampled annually during the first quarter. Therefore, the next sampling event will occur during third quarter 2009 in September. During this event, all wells will be gauged and wells MW-1, MW-2, MW-4, and MW-5 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 - Third Quarter 2009*.

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 third 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.

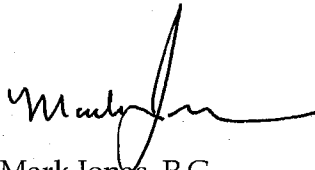
2.3.2 IMPLEMENT WORK PLAN

An *Additional Site Characterization Work Plan* (Work Plan) was submitted July 1, 2008. Mr. Wickham (ACEH) responded with conditional approval in an August 1, 2008 letter from ACEH. CRA is in the process of obtaining the necessary access agreement to conduct the proposed off-site work as well as permits from the City of Oakland to perform work in the public right-of-way. Mr. Wickham authorized a deadline extension to June 30, 2009, in an email correspondence dated March 4, 2009.

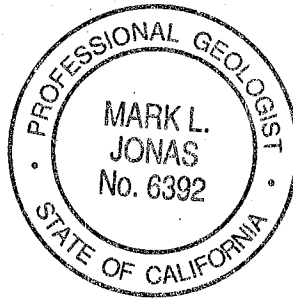
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES



Michael Werner



Mark Jonas, P.G.



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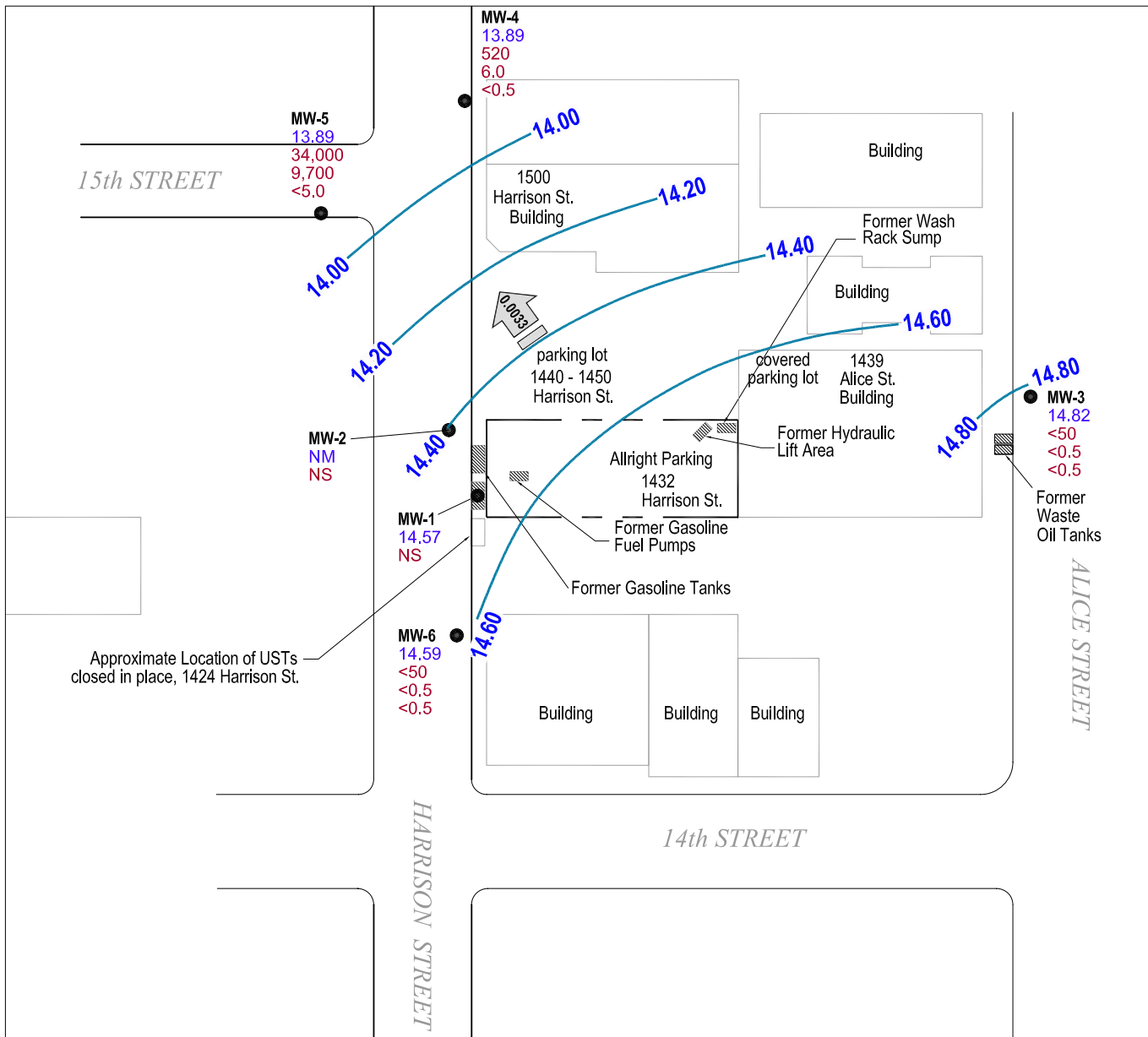
FIGURES



Allright Parking
1432 Harrison Street
Oakland, California



Vicinity Map



EXPLANATION

- Groundwater monitoring well
- 14.00 — Groundwater elevation contour, in feet above mean sea level (dashed where inferred)
- 0.0033 Groundwater flow direction and gradient
- MW-6 — Well designation
- 14.39 — Groundwater elevation, in feet above mean sea level
- TPHg — Hydrocarbons and MTBE in groundwater, in micrograms per liter
- Benzene
- MTBE
- NM Not Measured
- NS Not Sampled

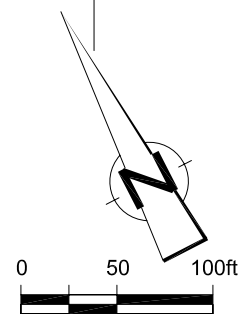


Figure 2
GROUNDWATER ELEVATION AND
HYDROCARBON CONCENTRATION MAP
ALLRIGHT PARKING
1432 HARRISON STREET
Oakland, California
March 2, 2009



TABLES

TABLE 1

**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	--

Notes:

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

TABLE 2
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	Xylenes	MTBE	Notes
MW-1 cont.	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	--	--	--	--	--	--	--
	3/2/2009	20.39	--	14.57	--	--	--	--	--	--	--
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

TABLE 2
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	Xylenes	MTBE	Notes
MW-2 cont.	12/29/2006	19.76	--	15.45	4,500	720	54	250	480	75 ^{sl} / <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
	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 →									
	MW-3 33.97	8/1/1994	--	--	--	<50	<0.5	<0.5	<0.5	<2.0	--
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	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	

TABLE 2
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	Xylenes	MTBE	Notes
MW-3 cont.	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***	--
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	

TABLE 2
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	Xylenes	MTBE	Notes
MW-5 cont.	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
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	--	--	--	--	--	--	--	
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	<5.0***		
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	<5.0***		

TABLE 2
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	Xylenes	MTBE	Notes
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:

$$\text{Groundwater Elevation} = \text{TOC Elevation} - \text{Depth to Groundwater} + (0.7 \times \text{SPH thickness})$$

= 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.

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: 03/02/09
		Date Received: 03/02/09
	Client Contact: Mark Jonas	Date Reported: 03/09/09
	Client P.O.:	Date Completed: 03/05/09

WorkOrder: 0903008

March 09, 2009

Dear Mark:

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.

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0903008

ClientCode: CETE

WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Mark Jonas
 Conestoga-Rovers & Associates
 5900 Hollis St, Suite A
 Emeryville, CA 94608
 (510) 420-0700 FAX (510) 420-9170

Email: mjonas@CRAworld.com
 cc: mwerner@craworld.com
 PO:
 ProjectNo: #540188; Borsuk

Bill to:

Accounts Payable
 Conestoga-Rovers & Associates
 5900 Hollis St, Ste. A
 Emeryville, CA 94608

Requested TAT: 5 days

Date Received: 03/02/2009

Date Printed: 03/02/2009

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	
0903008-001	MW-3	Water	3/2/2009 7:20	<input type="checkbox"/>	A	B	A										
0903008-002	MW-4	Water	3/2/2009 8:00	<input type="checkbox"/>	A	B											
0903008-003	MW-5	Water	3/2/2009 8:20	<input type="checkbox"/>	A	B											
0903008-004	MW-6	Water	3/2/2009 7:40	<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: **03/02/09 1:51:06 PM**

Project Name: **#540188; Borsuk**

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

WorkOrder N°: **0903008** Matrix Water

Carrier: EnviroTech

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: 4.4°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:



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 41749

WorkOrder 0903008

Analyte	EPA Method SW8260B		Extraction SW5030B						Spiked Sample ID: 0903008-001B			
	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	93.2	92.2	1.03	102	95.9	5.68	70 - 130	30	70 - 130	30
%SS1:	84	25	77	77	0	81	80	0.693	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 41749 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903008-001B	03/02/09 7:20 AM	03/04/09	03/04/09 12:48 AM	0903008-002B	03/02/09 8:00 AM	03/05/09	03/05/09 6:15 AM
0903008-003B	03/02/09 8:20 AM	03/04/09	03/04/09 2:04 AM	0903008-004B	03/02/09 7:40 AM	03/04/09	03/04/09 2:41 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.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 41753

WorkOrder 0903008

Analyte	EPA Method SW8021B/8015Bm		Extraction SW5030B						Spiked Sample ID: 0903007-002A			
	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) ^f	ND	60	96.5	102	5.88	98.1	96.4	1.74	70 - 130	20	70 - 130	20
MTBE	ND	10	114	115	1.07	99.6	110	10.1	70 - 130	20	70 - 130	20
Benzene	ND	10	93.2	96.1	3.04	97	98.7	1.77	70 - 130	20	70 - 130	20
Toluene	ND	10	102	106	3.89	107	107	0	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	101	105	4.08	106	106	0	70 - 130	20	70 - 130	20
Xylenes	ND	30	113	117	4.04	118	118	0	70 - 130	20	70 - 130	20
%SS:	92	10	93	93	0	97	97	0	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 41753 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0903008-001A	03/02/09 7:20 AM	03/04/09	03/04/09 10:08 PM	0903008-002A	03/02/09 8:00 AM	03/05/09	03/05/09 2:51 AM
0903008-003A	03/02/09 8:20 AM	03/04/09	03/04/09 2:35 AM	0903008-003A	03/02/09 8:20 AM	03/05/09	03/05/09 9:25 PM
0903008-004A	03/02/09 7:40 AM	03/04/09	03/04/09 11:14 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.

APPENDIX C

FIELD DATA SHEETS



WELL SAMPLING FORM

Date:		3/2/2009				
Client:		Conestoga-Rovers and Associates				
Site Address:		1432 Harrison Street, Oakland, CA				
Well ID:		MW-2				
Well Diameter:		2"				
Purging Device:						
Sampling Method:						
Total Well Depth:		Fe= mg/L				
Depth to Water:		ORP= mV				
Water Column Height:		DO= mg/L				
Gallons/ft:						
1 Casing Volume (gal):		COMMENTS: Inaccessible				
3 Casing Volumes (gal):						
TIME:	CASING VOLUME (gal)				TEMP (Celsius)	pH
Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
				Signature:		



WELL SAMPLING FORM

Date:		3/2/2009				
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:		19.19	ORP=	mV		
Water Column Height:		4.76	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)
7:10	0.8	17.6			7.09	498
7:13	1.5	17.4			7.02	513
7:15	2.3	17.4	7.08	520		
Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-3	3/2/2009	7:20	40 ml VOA	HCl, ICE	TPHg BTEX MTBE	8015, 8021, 8260
				Signature:		



WELL SAMPLING FORM

Date: 3/2/2009																															
Client: Conestoga-Rovers and Associates																															
Site Address: 1432 Harrison Street, Oakland, CA																															
Well ID: MW-4																															
Well Diameter: 2"																															
Purging Device: Disposable Bailer																															
Sampling Method: Disposable Bailer																															
Total Well Depth: 24.49	Fe= mg/L																														
Depth to Water: 19.86	ORP= mV																														
Water Column Height: 4.63	DO= mg/L																														
Gallons/ft: 0.16																															
1 Casing Volume (gal): 0.74	COMMENTS: very turbid, silty																														
3 Casing Volumes (gal): 2.22																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">TIME:</th> <th style="width: 15%;">CASING VOLUME (gal)</th> <th style="width: 15%;">TEMP (Celsius)</th> <th style="width: 15%;">pH</th> <th style="width: 15%;">COND. (µS)</th> </tr> </thead> <tbody> <tr> <td>7:50</td> <td>0.7</td> <td>17.6</td> <td>6.91</td> <td>1070</td> </tr> <tr> <td>7:53</td> <td>1.5</td> <td>17.9</td> <td>6.89</td> <td>1074</td> </tr> <tr> <td>7:55</td> <td>2.2</td> <td>17.9</td> <td>6.86</td> <td>1102</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)	7:50	0.7	17.6	6.91	1070	7:53	1.5	17.9	6.89	1074	7:55	2.2	17.9	6.86	1102										
TIME:		CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)																										
7:50		0.7	17.6	6.91	1070																										
7:53	1.5	17.9	6.89	1074																											
7:55	2.2	17.9	6.86	1102																											
Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method																									
MW-4	3/2/2009	8:00	40 ml VOA	HCl, ICE	TPHg BTEX MTBE	8015, 8021, 8260																									
Signature:																															



WELL SAMPLING FORM

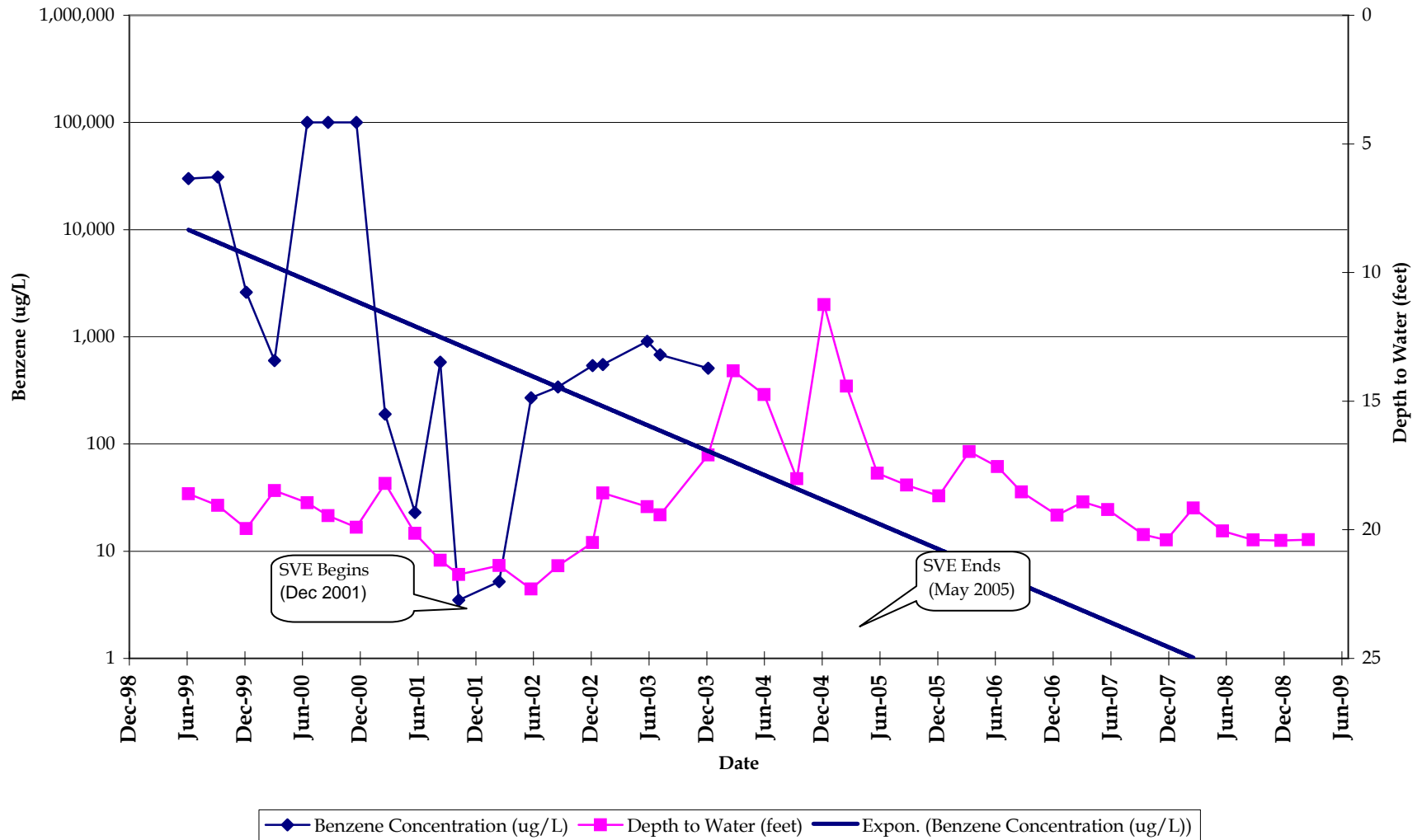
Date:		3/2/2009				
Client:		Conestoga-Rovers and Associates				
Site Address:		1432 Harrison Street, Oakland, CA				
Well ID:		MW-6				
Well Diameter:		2"				
Purging Device:		Disposable Bailer				
Sampling Method:		Disposable Bailer				
Total Well Depth:		28.24	Fe= mg/L			
Depth to Water:		21.30	ORP= mV			
Water Column Height:		6.94	DO= mg/L			
Gallons/ft:		0.16				
1 Casing Volume (gal):		1.11	COMMENTS: very turbid, silty			
3 Casing Volumes (gal):		3.33				
TIME:	CASING VOLUME (gal)	TEMP (Celsius)			pH	COND. (µS)
7:30	1.1	18.3			6.95	1045
7:33	2.2	17.9			6.98	1017
7:35	3.3	18.1	6.91	1002		
Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes	Method
MW-6	3/2/2009	7:40	40 ml VOA	HCl, ICE	TPHg BTEX MTBE	8015, 8021, 8260
Signature:						

APPENDIX D

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

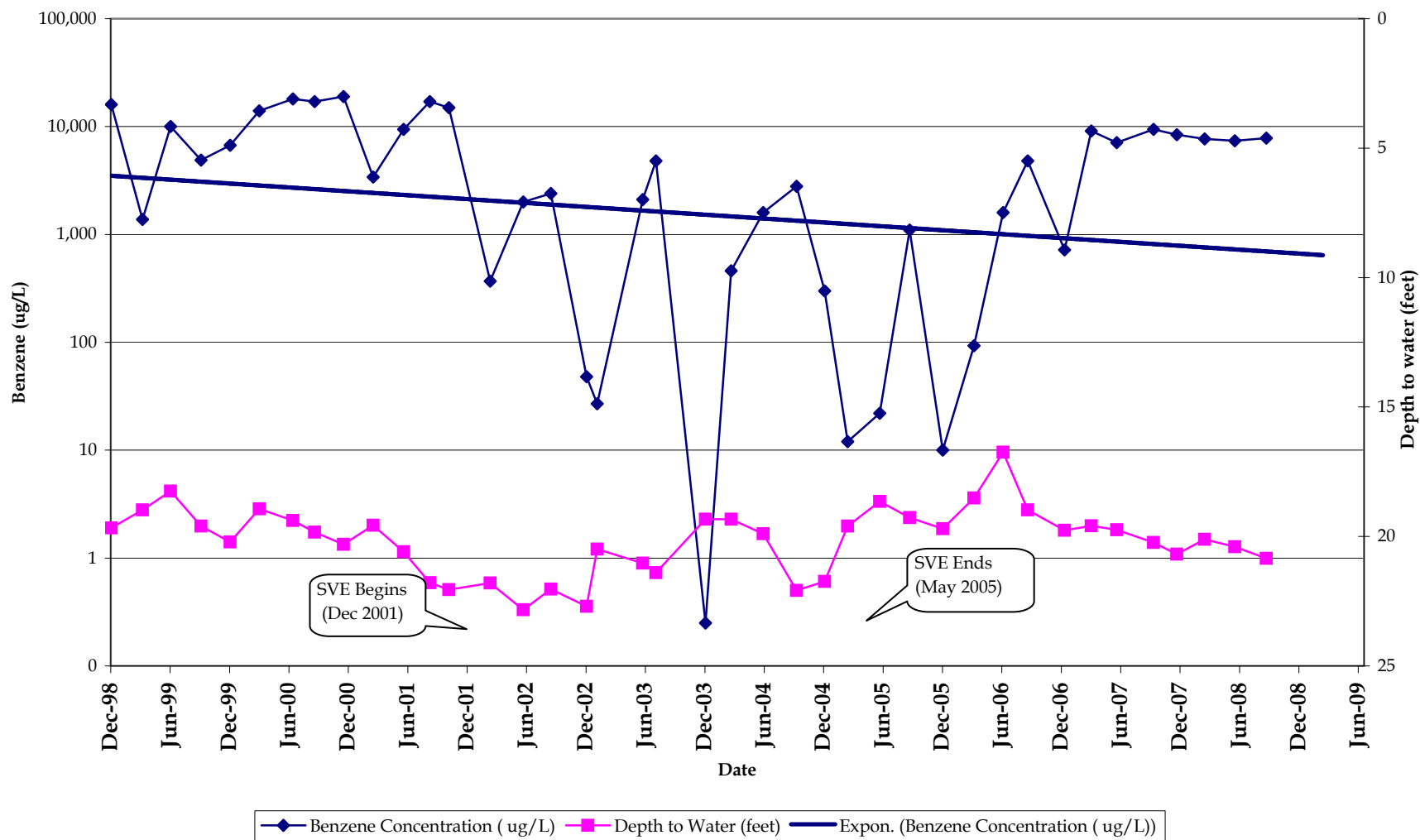
MW-1: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



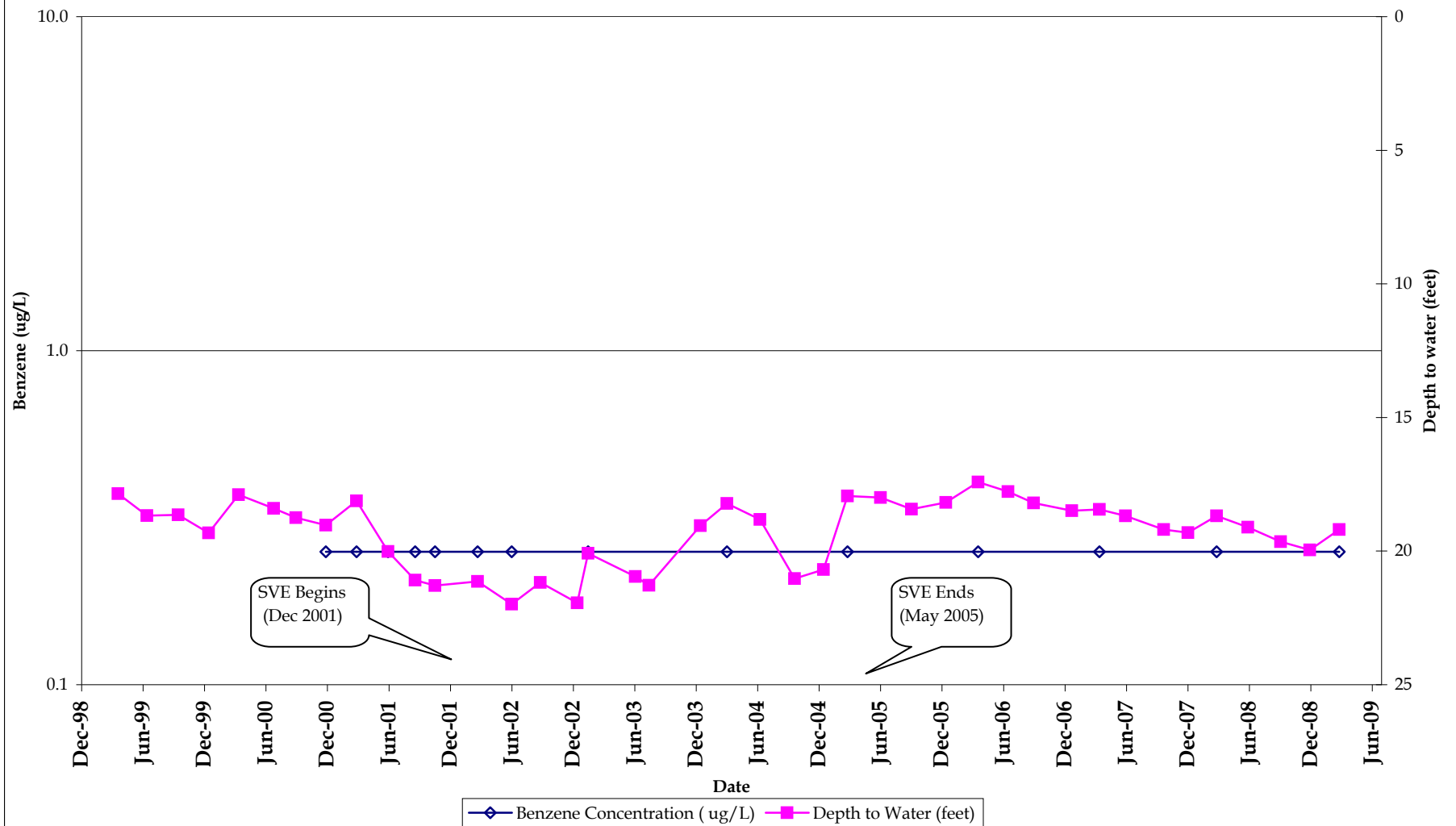
MW-2: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



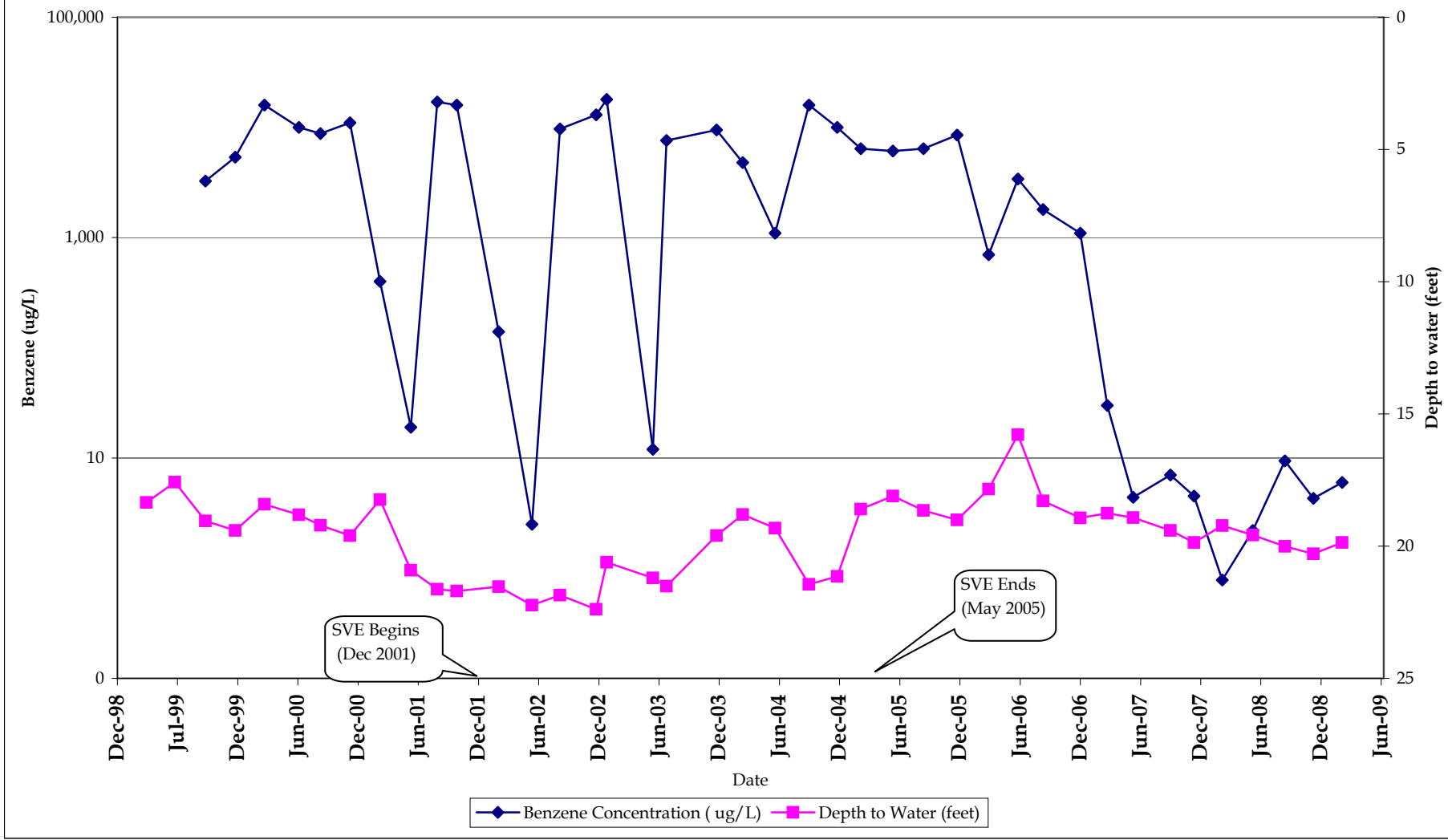
MW-3: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



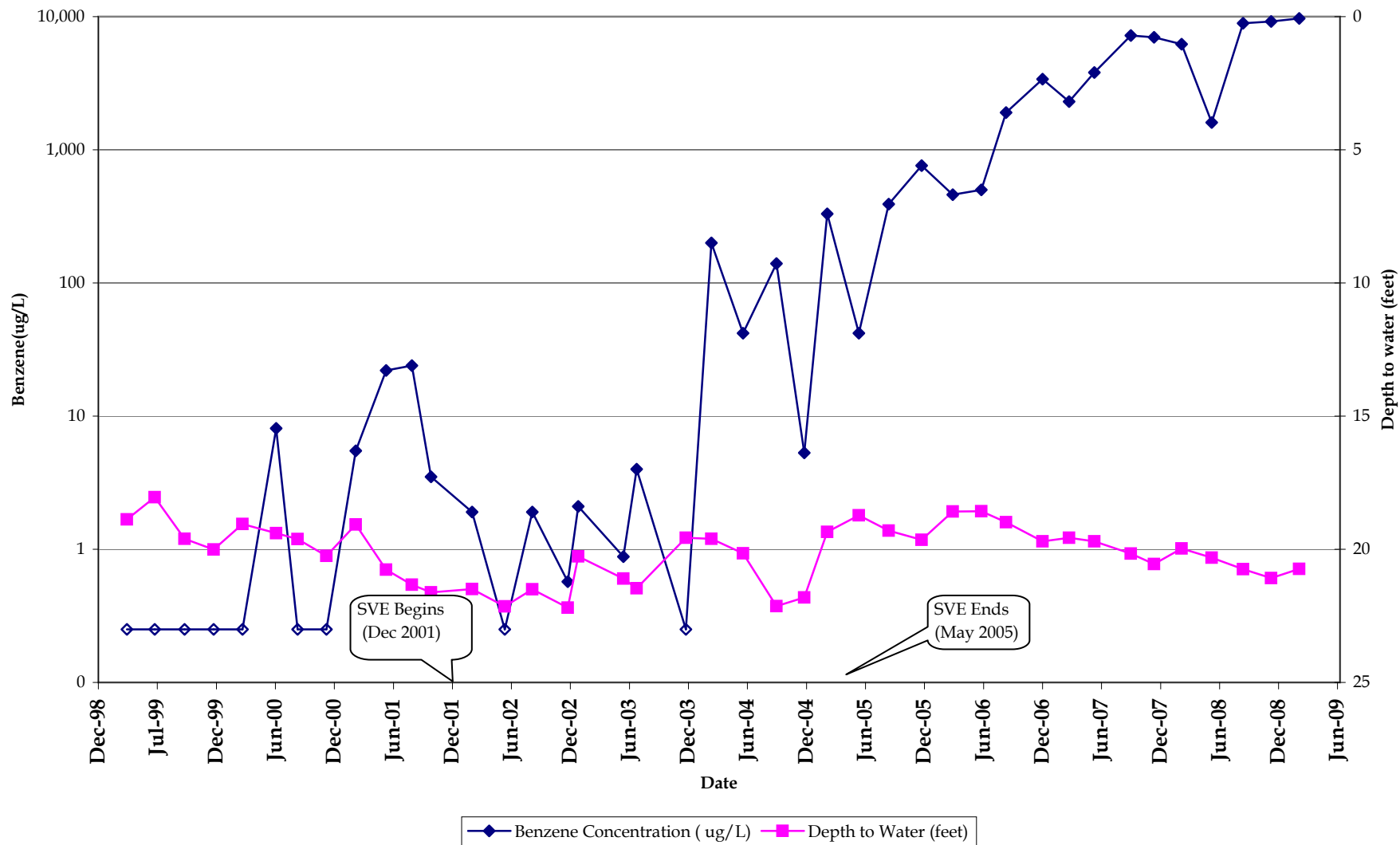
MW-4: Benzene Concentration and Depth to Water vs. Time

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

