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TRANSMITTAL

DATE: October 18, 2010

REFERENCE NO.: 540188

PROJECT NAME: 1432 Harrison Street, Oakland

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

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9:02 am, Oct 27, 2010

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QUANTITY	DESCRIPTION
1	Second 2010 Semi-Annual Groundwater Monitoring Report

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

COMMENTS:

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

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

Completed by: Robert Foss
[Please Print]

Signed: Robert Foss

Filing: Correspondence File

With respect to:

Groundwater Monitoring Report - SECOND 2010 SEMI-ANNUAL

Dated OCTOBER 18, 2010

Fuel Leak Case No. **RO0000266**

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Barbara Jean Borsuk

Estate of A. Bacharach/Barbara Jean Borsuk

10/24/10

Date



SECOND 2010 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

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

FUEL LEAK CASE NO. RO0000266

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

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OCTOBER 18, 2010

REF. NO. 540188 (9)

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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 MONITORING/SAMPLING EVENT ACTIVITIES	2
2.1.1 FIELD ACTIVITIES	2
2.1.2 SAMPLE ANALYSIS	3
2.2 CURRENT MONITORING/SAMPLING EVENT RESULTS	3
2.2.1 GROUNDWATER FLOW DIRECTION.....	3
2.2.2 HYDROCARBON DISTRIBUTION IN GROUNDWATER	3
2.3 REDEVELOPMENT OF WELL MW-1	4
2.4 PROPOSED ACTIVITIES FOR THE FIRST 2011 SEMI-ANNUAL GROUNDWATER MONITORING/SAMPLING EVENT	4
2.4.1 MONITORING ACTIVITIES	4

LIST OF FIGURES
(Following Text)

FIGURE 1 VICINITY MAP

FIGURE 2 GROUNDWATER ELEVATION AND HYDROCARBON CONCENTRATION MAP, SEPTEMBER 7, 2010

LIST OF TABLES

TABLE 1 WELL CONSTRUCTION DETAILS

TABLE 2 GROUNDWATER ELEVATIONS AND ANALYTICAL DATA

LIST OF APPENDICES

APPENDIX A FIELD DATA SHEETS

APPENDIX B CRA's STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

APPENDIX C CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

APPENDIX D BENZENE CONCENTRATION AND DEPTH TO WATER vs TIME-SERIES GRAPHS

1.0 INTRODUCTION

On behalf of the Estate of A. Bacharach/Barbara Jean Borsuk, Conestoga-Rovers & Associates (CRA) has prepared this *Second 2010 Semi-Annual Groundwater Monitoring Report* for the site located at 1432 Harrison Street in Oakland, California (Figure 1). Presented in this report are the second 2010 semi-annual groundwater monitoring activities/results and activities anticipated for the first 2011 semi-annual event. Work is performed under the regulatory oversight of Alameda County Environmental Health (ACEH).

Figure 2 presents groundwater elevation contours calculated from depth to water measurements, and reported hydrocarbon concentrations from the September 7, 2010 field activities. Table 1 provides well construction details. Table 2 presents recent and historical depth to water measurements, analytical data and light non-aqueous phase liquid (LNAPL, previously referred to as SPH) observations and measurements. Appendix A contains field data sheets of this sampling event. Appendix B contains the CRA's *Standard Field Procedures for Groundwater Monitoring and Sampling*. Appendix C contains the laboratory analytical report of sample results and Appendix D contains benzene concentrations and depth to water time-series graphs.

1.1 SITE INFORMATION

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

2.0 SITE ACTIVITIES AND RESULTS

2.1 CURRENT MONITORING/SAMPLING EVENT ACTIVITIES

2.1.1 FIELD ACTIVITIES

CRA coordinated with Muskan Environmental Sampling (MES) to conduct monitoring and sampling activities on September 7, 2010. MES measured depth to water and inspected each well for the presence of separate-phase hydrocarbons (SPH). During well purging prior to sample collection, SPH was observed entering the well casing of MW-2, and accumulated to an approximate thickness of 0.29 feet. Groundwater samples were collected from wells MW-4 and MW-5. Similar to the First Half 2010 event, there was insufficient water available in well MW-1 to measure or to collect a groundwater sample. Groundwater monitoring field data sheets are included in Appendix A and groundwater monitoring data have been uploaded to the GeoTracker database. Field activities were conducted in accordance with CRA's *Standard Field Procedures for Groundwater Monitoring and Sampling*, included as Appendix B.

Prior to sampling, groundwater levels were measured and each well was purged by placing the intake tube of a clean peristaltic pump approximately 1 foot below the initial water level. Depth of groundwater was again measured prior to low-flow purging, during purging, at termination of purging, and immediately prior to sample collection. Temperature, pH, specific conductance, oxygen reduction potential (ORP) and dissolved oxygen (DO) were measured initially and at regular volume intervals. Well purging continued until consecutive pH, specific conductance and temperature measurements were relatively stable. Field measurements, purge volumes and sample collection data were recorded on field sampling data forms, presented in Appendix A.

Groundwater samples were collected from each well using a clean peristaltic pump. The samples were collected in 40-milliliter (mL) glass volatile organic analysis (VOA) vials and 1-liter amber glass containers supplied by McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California. Sample containers were labeled, sealed in a plastic bag, and placed on ice in a chilled cooler. Field water quality measurements, purge volumes, and sample collection data were recorded on field sampling data sheets. The COC used for this monitoring event is provided in Appendix C.

To minimize the potential for cross-contamination, the groundwater monitoring equipment was decontaminated prior to being deployed in the first monitoring well and between successive wells. The probe of the well sounder used for water level measurements was rinsed thoroughly with distilled water prior to its first use and

between subsequent water level measurements. The tubing for the peristaltic pump was discarded after use at each well.

2.1.2 SAMPLE ANALYSIS

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

2.2 CURRENT MONITORING/SAMPLING EVENT RESULTS

Groundwater Flow Direction	Northeast
Hydraulic Gradient	0.003
Range of Depth to Water	
Measurements From Top of Casing	19.43 to 20.78 feet
Presence of Measureable Light	
Non-Aqueous Phase Liquid (LNAPL)?	Yes

2.2.1 GROUNDWATER FLOW DIRECTION

Based on depth-to-water measurements from the September 7, 2010 site visit, the calculated flow direction of groundwater beneath the site is toward the north at an approximate gradient of 0.003. This flow direction and gradient are generally consistent with conditions observed during previous monitoring events. Groundwater elevation data are summarized on Figure 2 and presented in Table 2.

2.2.2 HYDROCARBON DISTRIBUTION IN GROUNDWATER

Hydrocarbon concentrations were detected in wells MW-4 and MW-5, and are assumed to be at saturation levels in well MW-2 based to the presence of LNAPL. TPHg concentrations were detected at 320 micrograms per liter ($\mu\text{g}/\text{L}$) in well MW-4 and 35,000 $\mu\text{g}/\text{L}$ in well MW-5. Benzene, toluene, ethylbenzene and xylenes were detected

in well MW-4 at concentrations of 11, 0.83 and 2.4 and 2.0 µg/L, respectively. Benzene, toluene, ethylbenzene, and xylenes were detected in well MW-5 at concentrations of 12,000, 160, 970 and 2,900 µg/L, respectively. No MTBE was detected above detection limits of 0.5 µg/L (MW-4) and 25 µg/L (MW-5). Table 2 documents dissolved hydrocarbon concentrations and Appendix D contains benzene concentration trend graphs for wells MW-1 through MW-6. The un-shaded symbols on the graphs represent results below laboratory detection limits.

2.3 REDEVELOPMENT OF WELL MW-1

CRA contracted Gregg Drilling (Gregg) to redevelop well MW-1 on September 24, 2010. Prior to well development, well MW-1 was tagged at a total depth of 20.3 feet. The redevelopment of well MW-1 consisted of the introduction of water ranging from 4 to 8 gallons followed by surging of the well for approximately 15 minutes followed by the bailing to remove water, sands, silts, and clays from the well casing. During well redevelopment activities, sheen was observed in bailed water. The well was surged and bailed for a total of seven well case volumes. At the completion of well redevelopment, well MW-1 was measured with a total depth of 25.6 feet (hard bottom). Well redevelopment notes are included, along with the September 7 field data sheets, in Appendix A.

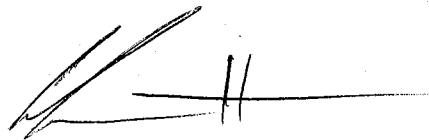
2.4 PROPOSED ACTIVITIES FOR THE FIRST 2011 SEMI-ANNUAL GROUNDWATER MONITORING/SAMPLING EVENT

2.4.1 MONITORING ACTIVITIES

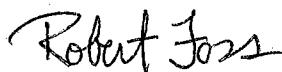
Groundwater monitoring and sampling will occur in March 2011. All wells will be gauged and sampled during the first quarter 2011 event. Upon approval of the Additional Site Characterization Workplan, submitted to ACEH on September 28, 2010, CRA will implement the scope of work that includes the installation of one monitoring well, two soil boring, and four soil vapor probes along Harrison Street. CRA will contract MES to perform monitoring and sampling activities. MES will gauge depth to water and check each well for accumulations of LNAPL. Groundwater samples will be collected from wells not containing LNAPL. Groundwater samples will be analyzed for TPHg and BTEX by Modified EPA Method 8015/8021 and MTBE by EPA Method 8260B. If another laboratory is selected to analyze the next round of samples, TPHg, BTEX, and MTBE would be analyzed using EPA Method 8260. Groundwater monitoring and sampling results will be uploaded to the State's GeoTracker database.

CRA will summarize groundwater monitoring activities and results in the First 2011 Semi-Annual *Groundwater Monitoring Report*.

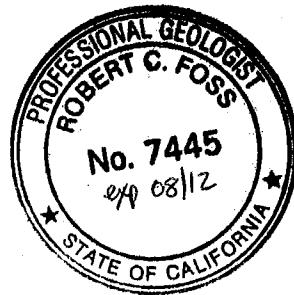
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES



Calvin Hee



Robert Foss, P.G.



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FIGURES



Allright Parking

1432 Harrison Street
Oakland, California



CONESTOGA-ROVERS
& ASSOCIATES

Vicinity Map

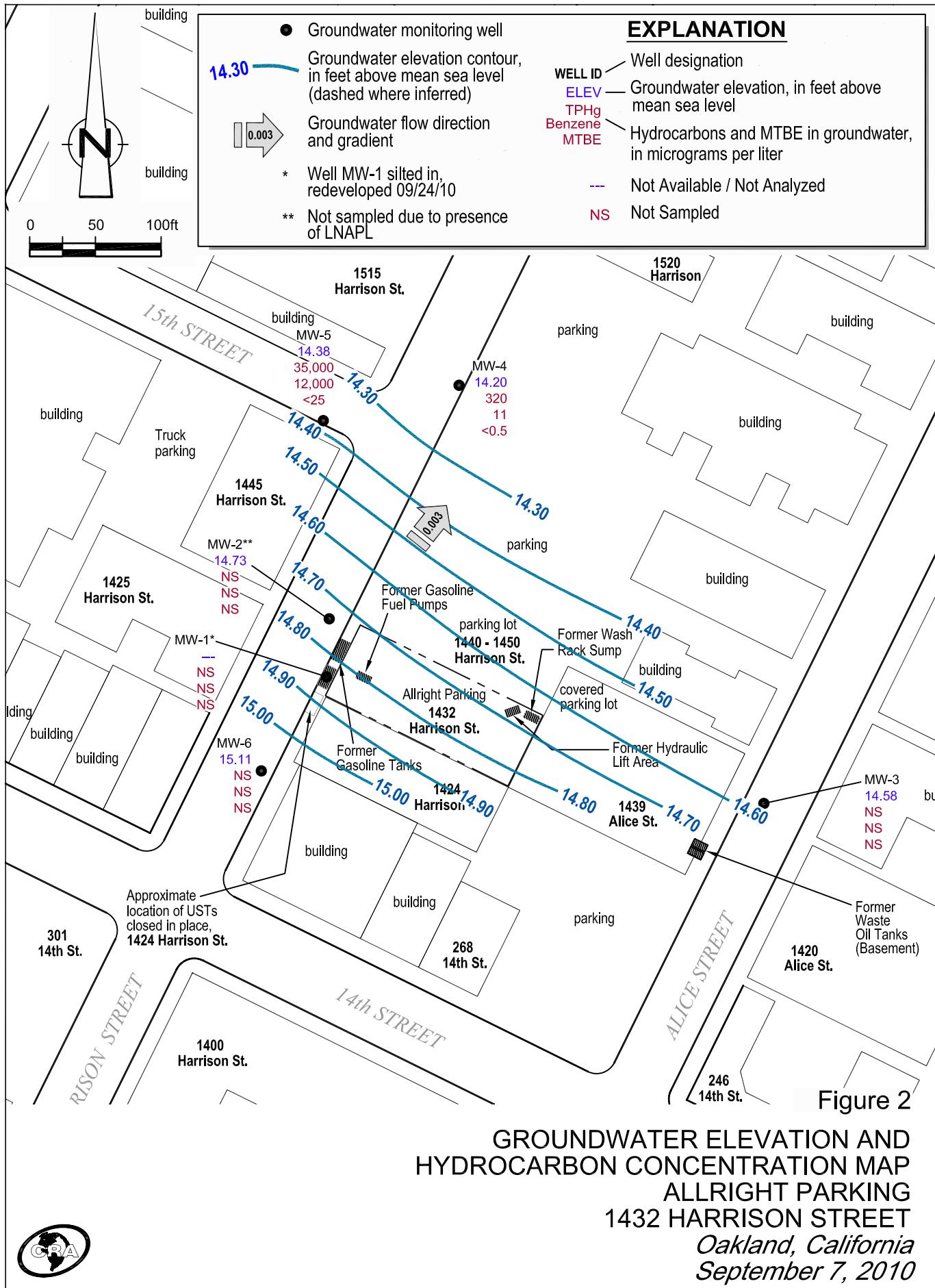


Figure 2

GROUNDWATER ELEVATION AND
HYDROCARBON CONCENTRATION MAP
ALLRIGHT PARKING
1432 HARRISON STREET
Oakland, California
September 7, 2010



TABLES

TABLE 1

Page 1 of 1

WELL CONSTRUCTION DETAILS
ALLRIGHT PARKING
1432 HARRISON STREET
OAKLAND, CALIFORNIA

Well No.	Installation Date	Total Depth (ft-bgs)	Boring Diameter (inch)	Well Diameter (inch)	Screen Size (inch)	Screened Interval (ft-bgs)	Sand Pack Interval (ft-bgs)	Surface Seal (ft-bgs)	TOC Elevation (ft-msl)
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) VES-1 (AS)	7/23/1999	30	8	3 1	0.020 0.020	5-20 28-30	4.5-20 27.5-30	0-5 0-27.5	-- --
VES-2 (VE) VES-2 (AS)	7/22/1999	29.5	8	3 1	0.020 0.020	5-20 27.5-29.5	4-20 27-29.5	0-4 0-27	-- --
VES-3 (VE) VES-3 (AS)	7/23/1999	30	8	3 1	0.020 0.020	5-20 28-30	4-20 25-30	0-4 0-25	-- --
VES-4 (VE) VES-4 (AS)	7/23/1999	29	8	3 1	0.020 0.020	5-20 27-29	4-20 26.5-28.5	0-4 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

TABLE 2

Page 1 of 8

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

Well ID Sample ID	Date	Depth to Groundwater (ft below TOC)	LNAPL Thickness (feet)	Groundwater Elevation (ft amsl)	TOC		TPHg	Benzene	Toluene	Ethylbenzene ($\mu\text{g/L}$)	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 Field	15.50	--	--	--	--	--	--	--	--	--
	12/5/2000	19.90	--	15.05	220,000	42,000	57,000	2,700	17,000	<200	a	--	--
	3/6/2001	18.20	--	16.75	180,000	27,000	39,000	2,000	13,000	<1200*/<20***	a,l	--	--
	6/8/2001	20.14	--	14.81	170,000	28,000	40,000	1,900	13,000	<200	a	--	--
	8/27/2001	21.19	--	13.76	130,000	24,000	33,000	1,600	11,000	<350	a	--	--
	10/25/2001	21.74	--	13.21	160,000	22,000	28,000	1,500	10,000	<350	a	--	--
	3/1/2002	21.39	0.41	13.84 ^x	--	--	--	--	--	--	--	--	--
	6/10/2002	22.30	--	12.65	210,000	30,000	51,000	3,100	22,000	<1,000*	a	--	--
34.96	9/3/2002	21.40	--	13.56	2,500,000	31,000	170,000	29,000	170,000	2,500,000*	a	--	--
	12/22/2002	20.50	--	14.46	89,000	2,600	9,300	530	28,000	<1,700	a,m	--	--
	1/23/2003	18.57	Sheen Lab	16.39	130,000	600	1,600	<100	41,000	<50***	a,b,l	--	--
	6/12/2003	19.10	0.07	15.91 ^x	--	--	--	--	--	--	--	--	--
	7/23/2003	19.42	0.07	15.59 ^x	--	--	--	--	--	--	--	--	--
35.37#	12/22/2003	17.09	0.01	18.29 ^x	--	--	--	--	--	--	--	--	--
	3/10/2004	13.82	--	21.55	22,000	190	250	<10	5,100	<100	a,c	--	--
	6/16/2004	14.75	--	20.62	2,700	23	160	13	520	<25	a	--	--
	9/27/2004	18.02	Sheen Field	17.35	27,000	580	2,000	56	6,800	<10***	a,m	--	--
	12/22/2004	11.25	--	24.12	250	3.5	18	<0.5	47	<0.5***	a,m	--	--
	3/3/2005	14.42	--	20.95	320	5.2	13	3.2	46	<5.0	a	--	--
34.96##	6/9/2005	17.80	--	17.16	--	--	--	--	--	--	+	--	--
	9/9/2005	18.26	--	16.70	--	--	--	--	--	--	+	--	--
	12/20/2005	18.68	--	16.28	--	--	--	--	--	--	+	--	--
	3/26/2006	16.96	--	18.00	23,000	270	400	65	4,400	<50	a	--	--
	6/23/2006	17.55	--	17.41	30,000	340	680	170	6,900	<500	a,m	--	--
	9/7/2006	18.53	--	16.43	34,000	540	630	190	7,000	<500	a	--	--
	12/29/2006	19.43	Sheen Field	15.53	20,000	550	55	130	4,700	<100*/<0.5***	a,m	--	--
	3/21/2007	18.92	Sheen Field	16.04	23,000	910	210	140	5,900	<250*	a	--	--
	6/7/2007	19.22	Sheen Field	15.74	24,000	680	61	190	4,300	<100*	a,b	--	--
	9/28/2007	20.19	--	14.77	--	--	--	--	--	--	+	--	--
	12/9/2007	20.40	--	14.56	--	--	--	--	--	--	+	--	--
	3/3/2008	19.16	Sheen Lab	15.80	10,000	510	28	<10	1,700	<2.5***	a,b,m,l	--	--

TABLE 2

Page 2 of 8

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

Well ID Sample ID	Date	Depth to Groundwater (ft below TOC)	LNAPL Thickness (feet)	Groundwater Elevation (ft amsl)	TOC						MTBE	Notes
					TPHg	Benzene	Toluene	Ethylbenzene ($\mu\text{g/L}$)	Xylenes	↔		
MW-1 cont.	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	--	--	--	--	--	--	--	--	--	--
	3/1/2010	Well Dry	--	--	--	--	--	--	--	--	--	--
	9/7/2010	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	--	--	--
	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	<50*	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	--

TABLE 2

Page 3 of 8

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

Well ID Sample ID	Date	Depth to Groundwater (ft below TOC)	LNAPL Thickness (feet)	Groundwater Elevation (ft amsl)	TOC						Notes
					TPHg	Benzene	Toluene	Ethylbenzene ($\mu\text{g/L}$)	Xylenes	MTBE	
MW-2 cont.	9/7/2006	18.97	--	16.24	29,000	4,800	280	940	1,000	<500	a
	12/29/2006	19.76	--	15.45	4,500	720	54	250	480	75* ¹ / <0.5***	a
	3/21/2007	19.59	--	15.62	34,000	9,100	500	890	2,500	<1,100*	a
	6/7/2007	19.74	Sheen ^{Lab}	15.47	46,000	7,100	410	870	2,400	<800*	a,b
	9/28/2007	20.23	--	14.98	44,000	9,400	630	1,400	3,600	<0.5***	a
	12/9/2007	20.68	--	14.53	37,000	8,400	550	1,400	4,500	<17***	a,l
	3/3/2008	20.11	--	15.10	40,000	7,700	490	1,400	4,400	<17***	a,l
	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
	3/1/2010	21.00	0.22	14.39	SPH Observed During Purging						--
	9/7/2010	20.71	0.29	14.73	SPH Observed During Purging						--
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	--	--	--	--	--	--	--
	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	--	--	--	--	--	--	--

TABLE 2

Page 4 of 8

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

Well ID Sample ID	Date	Depth to Groundwater (ft below TOC)	LNAPL Thickness (feet)	Groundwater Elevation (ft amsl)	TOC						MTBE	Notes
					TPHg	Benzene	Toluene	Ethylbenzene ($\mu\text{g/L}$)	Xylenes	<—————>		
MW-3 cont.	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	--	--	--	--	--	--	--	
	3/1/2010	19.20	--	14.81	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	--	
	9/7/2010	19.43	--	14.58	--	--	--	--	--	--	--	
MW-4	10/28/1996	19.32	--	14.43	10,000	3,900	420	400	360	<200*	n	
33.75	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	

TABLE 2

Page 5 of 8

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1432 HARRISON STREET
OAKLAND, CALIFORNIA

Well ID Sample ID	Date	Depth to Groundwater (ft below TOC)	LNAPL Thickness (feet)	Groundwater Elevation (ft amsl)	TOC						Notes
					TPHg	Benzene	Toluene	Ethylbenzene ($\mu\text{g/L}$)	Xylenes	MTBE	
MW-4 cont.	12/20/2005	19.01	--	14.74	26,000	8,500	160	640	800	<120	a
	3/26/2006	17.84	--	15.91	1,900	700	22	49	85	<50	a
	6/23/2006	17.96	--	15.79	12,000	3,400	130	370	510	260	a
	9/7/2006	18.29	--	15.46	8,600	1,800	100	170	220	<210	a,i
	12/29/2006	18.93	--	14.82	4,200	1,100	120	150	280	<150*/<0.5***	a
	3/21/2007	18.76	--	14.99	550	30	2.0	4.5	5.1	<30*	a
	6/7/2007	18.92	--	14.83	85	4.4	<0.5	0.77	0.82	<5.0*	a
	9/28/2007	19.41	--	14.34	140	7.0	<0.5	1.2	<0.5	<0.5***	a
	12/9/2007	19.86	--	13.89	120	4.5	<0.5	0.62	<0.5	<0.5	a
	3/3/2008	19.22	--	14.53	63	0.78	<0.5	<0.5	<0.5	<0.5***	i
	6/4/2008	19.58	--	14.17	86	2.2	<0.5	<0.5	0.58	<0.5***	a
	9/9/2008	20.01	--	13.74	460	9.4	0.95	3.1	19	<0.5***	a
	12/5/2008	20.29	--	13.46	290	4.3	1.4	3.0	14	<0.5***	a
	3/2/2009	19.86	--	13.89	520	6.0	2.2	6.5	9.2	<0.5***	a
	9/15/2009	20.23	--	13.52	370	2.2	1.1	2.8	3.3	<0.5***	a
	3/1/2010	19.70	--	14.05	220	1.8	<0.5	1.2	1.5	<0.5***	a
	9/7/2010	19.55	--	14.20	320	11	0.83	2.4	2	<0.5***	a
MW-5 34.63	10/28/1996	19.88	--	14.75	90	4.0	0.6	<0.50	<0.50	16*	
	12/12/1996	20.09	--	14.54	230	5.6	0.9	ND	0.9	3.6*	n
	3/31/1997	19.24	--	15.39	90	3.1	ND	ND	ND	ND*	--
	6/27/1997	19.16	--	15.47	ND	ND	ND	ND	ND	ND*	--
	9/9/1997	19.93	--	14.70	ND	ND	ND	ND	ND	ND*	--
	12/18/1997	19.77	--	14.86	ND	ND	ND	ND	ND	ND***	--
	3/12/1998	19.77	--	14.86	79	2.3	ND	0.8	ND	ND*	--
	6/22/1998	18.08	--	16.55	ND	ND	ND	ND	ND	--	--
	9/18/1998	19.12	--	15.51	ND	ND	ND	ND	ND	--	--
	12/23/1998	19.60	--	15.03	ND	0.8	0.9	ND	ND	--	--
	3/29/1999	18.88	--	15.75	ND	ND	ND	ND	ND	--	--
	6/23/1999	18.05	--	16.58	ND	ND	ND	ND	ND	--	--
	9/24/1999	19.61	--	15.02	ND	ND	ND	ND	ND	--	--
	12/23/1999	20.01	--	14.62	ND	ND	ND	ND	ND	--	--
	3/21/2000	19.05	--	15.58	140	<0.5	<0.5	<0.5	<0.5	<5.0	--
	7/3/2000	19.40	--	15.23	85	8.1	3.1	1.6	7.8	<5.0*	k
	9/7/2000	19.62	--	15.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	a
	12/5/2000	20.25	--	14.38	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/6/2001	19.07	--	15.56	91	5.5	<0.5	<0.5	<0.5	<5.0	--
	6/8/2001	20.77	--	13.86	290	22.0	0.8	<0.5	<0.5	<5.0	--
	8/27/2001	21.33	--	13.30	660	24.0	2.2	1.3	4.0	<25	a
	10/25/2001	21.62	--	13.01	55	3.5	<0.5	<0.5	<0.5	<5.0	a
	3/1/2002	21.49	--	13.14	200	1.9	0.69	<0.5	<0.5	<5.0*	a
	6/10/2002	22.15	--	12.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	a
	9/3/2002	21.50	--	13.13	60	1.9	<0.5	<0.5	0.77	<5.0	--
	12/22/2002	22.19	--	12.44	82	0.57	<0.5	0.68	<0.5	<5.0	a
	1/23/2003	20.27	--	14.36	<50	2.1	<0.5	<0.5	<0.5	<5.0	a
	6/12/2003	21.10	--	13.53	<50	0.88	<0.5	<0.5	<0.5	<5.0	--
	7/23/2003	21.47	--	13.16	<50	4.0	<0.5	<0.5	<0.5	<5.0	--
	12/22/2003	19.57	--	15.06	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/10/2004	19.61	--	15.02	990	200	2.9	4.0	20	<70	--
	6/16/2004	20.15	--	14.48	250	42	<0.5	0.88	<0.5	<35	a
	9/27/2004	22.14	--	12.49	1,600	140	4.8	45	18	<110	a
	12/22/2004	21.81	--	12.82	<50	5.3	<0.5	<0.5	0.66	<5.0	--
	3/3/2005	19.35	--	15.28	2,000	330	4.4	63	39	<150	a
	6/9/2005	18.73	--	15.90	250	42	1.4	14	3.2	<5.0	a
	9/9/2005	19.30	--	15.33	2,000	390	5.0	71	38	<400	a
	12/20/2005	19.65	--	14.98	4,300	760	18	170	150	<35	a
	3/26/2006	18.58	--	16.05	1,600	460	3.3	35	32	<50	a
	6/23/2006	18.57	--	16.06	1,900	500	3.9	81	56	<17	a

TABLE 2

Page 6 of 8

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

Well ID Sample ID	Date	Depth to Groundwater (ft below TOC)	LNAPL Thickness (feet)	Groundwater Elevation (ft amsl)	TOC						Notes
					TPHg	Benzene	Toluene	Ethylbenzene ($\mu\text{g/L}$)	Xylenes	MTBE	
MW-5 cont.	9/7/2006	18.98	--	15.65	8,800	1,900	12	350	220	<260	a,i
	12/29/2006	19.70	--	14.93	15,000	3,400	69	610	700	<450*/<0.5***	a
	3/21/2007	19.57	--	15.06	9,900	2,300	24	360	410	<240*	a
	6/7/2007	19.70	--	14.93	14,000	3,800	40	790	720	<550*	a
	9/28/2007	20.16	--	14.47	26,000	7,200	84	1,100	1,600	<25***	a,l
	12/9/2007	20.56	--	14.07	25,000	7,000	59	1,100	2,000	<17	a,l
	3/3/2008	19.97	--	14.66	30,000	6,200	31	900	1,400	<10***	a,l
	6/4/2008	20.32	--	14.31	7,500	1,600	4.6	25	91	<10***	a,j
	9/9/2008	20.75	--	13.88	54,000	8,900	76	1,300	1,700	<25***	a,l
	12/5/2008	21.08	--	13.55	33,000	9,200	43	1,500	1,800	<5.0***	a,l
	3/2/2009	20.74	--	13.89	34,000	9,700	41	1,100	1,300	<5.0***	a,l
	9/15/2009	21.02	--	13.61	40,000	10,000	280	1,400	2,600	<2.5***	a,l
	3/1/2010	20.55	--	14.08	57,000	16,000	240	1,800	5,000	<10***	a,l
	9/7/2010	20.25	--	14.38	35,000	12,000	160	970	2,900	<25***	a,l
MW-6	10/28/1996	20.02		15.87	<50	<0.50	<0.50	<0.50	<0.50	<2.0*	
35.89	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

TABLE 2

Page 7 of 8

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

Well ID Sample ID	Date	Depth to Groundwater (ft below TOC)	LNAPL Thickness (feet)	Groundwater Elevation (ft amsl)	TOC						MTBE	Notes
					TPHg	Benzene	Toluene	Ethylbenzene ($\mu\text{g/L}$)	Xylenes	<-->		
MW-6 cont.	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	--	--	--	--	--	--	--	--
	3/1/2010	21.20	--	14.69	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	m	--
	9/7/2010	20.78	--	15.11	--	--	--	--	--	--	--	--
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	--	i,j	
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

LNAPL = light non-aqueous phase liquid (previously referred to as SPH)

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.

 $\mu\text{g/L}$ = 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

TABLE 2

Page 8 of 8

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

<i>Well ID</i>	<i>Date</i>	<i>Depth to Groundwater</i> (ft below TOC)	<i>LNAPL Thickness</i> (feet)	<i>Groundwater Elevation</i> (ft amsl)	<i>TOC</i>					<i>MTBE</i>	<i>Notes</i>
					<i>TPHg</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethylbenzene</i>	<i>Xylenes</i>		
<i>TOC (ft amsl)</i>					←					→	

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.

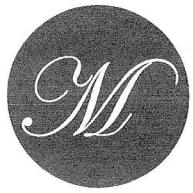
l = Sample diluted due to high organic content.

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

FIELD DATA SHEETS



MUSKAN
ENVIRONMENTAL
SAMPLING

WELL GAUGING SHEET

Client: Conestoga-Rovers and Associates

pg 1 of 1

Site

Address: 1432 Harrison Street, Oakland, CA

Date: 9/7/2010

Signature:



MICRO PURGE WELL SAMPLING FORM

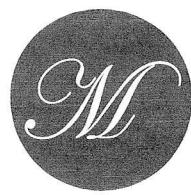
Date:	9/7/2010								
Client:	Conestoga-Rovers and Associates								
Site Address:	1432 Harrison Street, Oakland, CA								
									Well ID: <u>ML -1</u>
									Well Diameter: <u>4"</u>
									Purging Device: Peristaltic Pump
									Sampling Method: Peristaltic Pump
									Total Well Depth from top of casing: <u>20.50</u>
									Water level at the start of purge from top of casing: <u> </u> Dry
									Approximate depth of water intake on pump from top of casing: <u> </u>
TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. ($\mu\text{S}/\text{cm}$)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
	--	--	--	--	--	--			
	<i>Dry no sample</i>								
									total purge volume = ml
Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method			
			40 ml VOA	HCl	TPHg, BTEX, MTBE	8015, 8021, 8260			
<p>Signature: </p>									



MUSKAN
ENVIRONMENTAL
SAMPLING

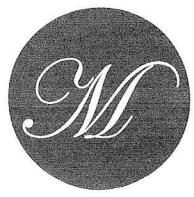
MICRO PURGE WELL SAMPLING FORM

Date:	9/7/2010								
Client:	Conestoga-Rovers and Associates								
Site Address:	1432 Harrison Street, Oakland, CA								
					Well ID:	ML-2			
					Well Diameter:	2"			
					Purging Device:	Peristaltic Pump			
					Sampling Method:	Peristaltic Pump			
					Total Well Depth from top of casing:	_____			
					Water level at the start of purge from top of casing:	20.71			
					Approximate depth of water intake on pump from top of casing:	_____			
TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. ($\mu\text{S}/\text{cm}$)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
	--	--	--	--	--	--			
No sample taken									
SPH at 20.42									
DTW at 20.71									
SPH thickness = 0.29									
Total purge volume = ml									
Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method			
ML-2			40 ml VOA	HCl	TPHg, BTEX, MTBE	8015, 8021, 8260			
Signature: 									



MUSKAN
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SAMPLING

MICRO PURGE WELL SAMPLING FORM



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ENVIRONMENTAL
SAMPLING

MICRO PURGE WELL SAMPLING FORM



Cambria QM Well Sampling Protocol

Client: Borsuk - Oakland

CAMBRIA

Address	1432 Harrison Street	Cambria_Project_No	540188
City	Oakland	Cambria Project Manager:	RCF
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?				Comments
	1Q	2Q	3Q	4Q	
MW-1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	TPHg/BTEX by 8015/8021 and MTBE by 8260 Gauge/sample semi-annual
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/sample semi-annual
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/sample Annually
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/sample semi-annual
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/sample semi-annual

APPENDIX B

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. Conestoga-Rovers and Associate's 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 according to low flow protocol using an aboveground peristaltic pump. Groundwater wells shall be purged at a low flow rate not to exceed 500 milliliters per minute (mL/min) until groundwater parameters of conductivity and/or dissolved oxygen have stabilized to within 10% for three consecutive readings. Temperature, pH, and conductivity shall also be measured and recorded approximately every 3 to 5 minutes. 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 shall also be measured prior to collection of each groundwater sample.

Conestoga-Rovers & Associates

Groundwater samples shall be collected after well parameters have stabilized at a low flow rate not to exceed 500 mL/min. Groundwater samples shall be decanted into clean containers supplied by the analytical laboratory. New latex gloves and Teflon lined tubing shall be used for sampling each well.

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 C

CERTIFIED ANALYTICAL REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTATION



McCampbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.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: 09/07/10
		Date Received: 09/07/10
	Client Contact: Bob Foss	Date Reported: 09/13/10
	Client P.O.:	Date Completed: 09/13/10

WorkOrder: 1009131

September 13, 2010

Dear Bob:

Enclosed within are:

- 1) The results of the **2** 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
McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.



McCAMPBELL ANALYTICAL, INC.

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

1009131

Report To:

Bill To: Conestoga-Rovers & Associates

Company: Conestoga-Rovers & Associates

5900 Hollis St., Ste. A

Emeryville, CA

Tele: (510) 420-3348

E-Mail: bfooss@eraworld.com

Fax: (510) 420-9170

Project #: 540188

Project Name: Bor-Suk - Oakland

Project Location: 1432 Harrison St., Oakland, CA

Sampler Signature: Muskan Environmental Sampling LLC

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

Analysis Request

Filter sample for DISSOLVED metals analysis

MTBE by 8/26

**Indicate here if these samples are potentially dangerous to handle:

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX	METHOD PRESERVED	BTEX & TPH as Gas (602 / 8021 + 8015 / 8021)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (IV/OCs)	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 / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUF7 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other	Comments	
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other												
MN-U		9-7-10	9:51	4	VQA	X			X		X															
MN+S		9-7-10	10:45	UVQA	VQA	X			X		X															
TB		9-7-10	-	1	VQA	X			X		X															

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date: 9/1/10	Time: 1215	Received By:	ICE/I ^o 5.6 GOOD CONDITION HEAD SPACE ABSENT DECHLORINATED IN LAB APPROPRIATE CONTAINERS PRESERVED IN LAB	COMMENTS:
Relinquished By:	Date:	Time:	Received By:	VOAS O&G METALS OTHER PRESERVATION pH<2	
Relinquished By:	Date:	Time:	Received By:		

McCampbell Analytical, Inc.

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

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:		Bill to:	Requested TAT:
Bob Foss Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608 (510) 420-0700 FAX (510) 420-9170	Email: bfoss@craworld.com, chee@craworld.co cc: PO: ProjectNo: #540188; Borsuk-Oakland	Accounts Payable Conestoga-Rovers & Associates 5900 Hollis St, Ste. A Emeryville, CA 94608	5 days
			Date Received: 09/07/2010
			Date Printed: 09/07/2010

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
1009131-001	MW-4	Water	9/7/2010 9:51	<input type="checkbox"/>	A	B	A									
1009131-002	MW-5	Water	9/7/2010 10:46	<input type="checkbox"/>	A	B										

Test Legend:

1	G-MBTEX_W
6	
11	

2	MTBE_W
7	
12	

3	PREDF REPORT
8	

4	
9	

5	
10	

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.



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Sample Receipt Checklist

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

Date and Time Received: **9/7/2010 12:20:00 PM**

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

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

WorkOrder N°: **1009131** Matrix Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

- | | | |
|---|---|-----------------------------|
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sample IDs noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Date and Time of collection noted by Client on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sampler's name noted on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

Sample Receipt Information

- | | | | |
|--|---|-----------------------------|--|
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper containers/bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Sample Preservation and Hold Time (HT) Information

- | | | | |
|---|---|-----------------------------|---|
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature | Cooler Temp: 5.6°C | | NA <input type="checkbox"/> |
| Water - VOA vials have zero headspace / no bubbles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Sample labels checked for correct preservation? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Metal - pH acceptable upon receipt (pH<2)? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Samples Received on Ice? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

(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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Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540188; Borsuk-Oakland	Date Sampled:	09/07/10
		Date Received:	09/07/10
	Client Contact: Bob Foss	Date Extracted:	09/08/10
	Client P.O.:	Date Analyzed:	09/08/10

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1009131

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	µg/L
	S	1.0	0.05	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.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

d1) weakly modified or unmodified gasoline is significant

 Angela Rydelius, Lab Manager



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Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540188; Borsuk-Oakland	Date Sampled: 09/07/10
		Date Received: 09/07/10
	Client Contact: Bob Foss	Date Extracted: 09/08/10
	Client P.O.:	Date Analyzed 09/08/10

Methyl tert-Butyl Ether*

Extraction method SW5030B

Analytical methods SW8260B

Work Order: 1009131

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, wine samples in µg/wine.

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

surrogate diluted out of range or surrogate coelutes with another peak

% SS = Percent Recovery of Surrogate Standard

DE = Dilution Factor

a3) sample diluted due to high organic content

 Angela Rydelius, Lab Manager



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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 52940

WorkOrder 1009131

EPA Method SW8021B/8015Bm		Extraction SW5030B								Spiked Sample ID: 1009119-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)				
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
TPH(btex) ^f	ND	60	98.4	99.1	0.741	96.5	100	3.96	70 - 130	20	70 - 130	20	
MTBE	ND	10	119	120	0.798	111	117	5.43	70 - 130	20	70 - 130	20	
Benzene	ND	10	108	111	2.30	111	108	2.53	70 - 130	20	70 - 130	20	
Toluene	ND	10	97.3	98.9	1.62	99.2	96.1	3.16	70 - 130	20	70 - 130	20	
Ethylbenzene	ND	10	95.9	97.1	1.22	98.3	95.1	3.30	70 - 130	20	70 - 130	20	
Xylenes	ND	30	108	109	0.886	110	107	2.92	70 - 130	20	70 - 130	20	
%SS:	104	10	105	102	2.40	105	109	3.52	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 52940 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1009131-001A	09/07/10 9:51 AM	09/08/10	09/08/10 7:30 PM	1009131-002A	09/07/10 10:46 AM	09/08/10	09/08/10 2:29 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.

^f 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.



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 52944

WorkOrder 1009131

EPA Method SW8260B			Extraction SW5030B			Spiked Sample ID: 1009107-005B						
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	118	117	0.407	107	112	4.34	70 - 130	30	70 - 130	30
%%SS1:	99	25	99	98	0.755	100	100	0	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 52944 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1009131-001B	09/07/10 9:51 AM	09/08/10	09/08/10 4:58 PM	1009131-002B	09/07/10 10:46 AM	09/08/10	09/08/10 5:36 PM

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

% Recovery = $100 * (\text{MS-Sample}) / (\text{Amount Spiked})$; RPD = $100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$.

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.

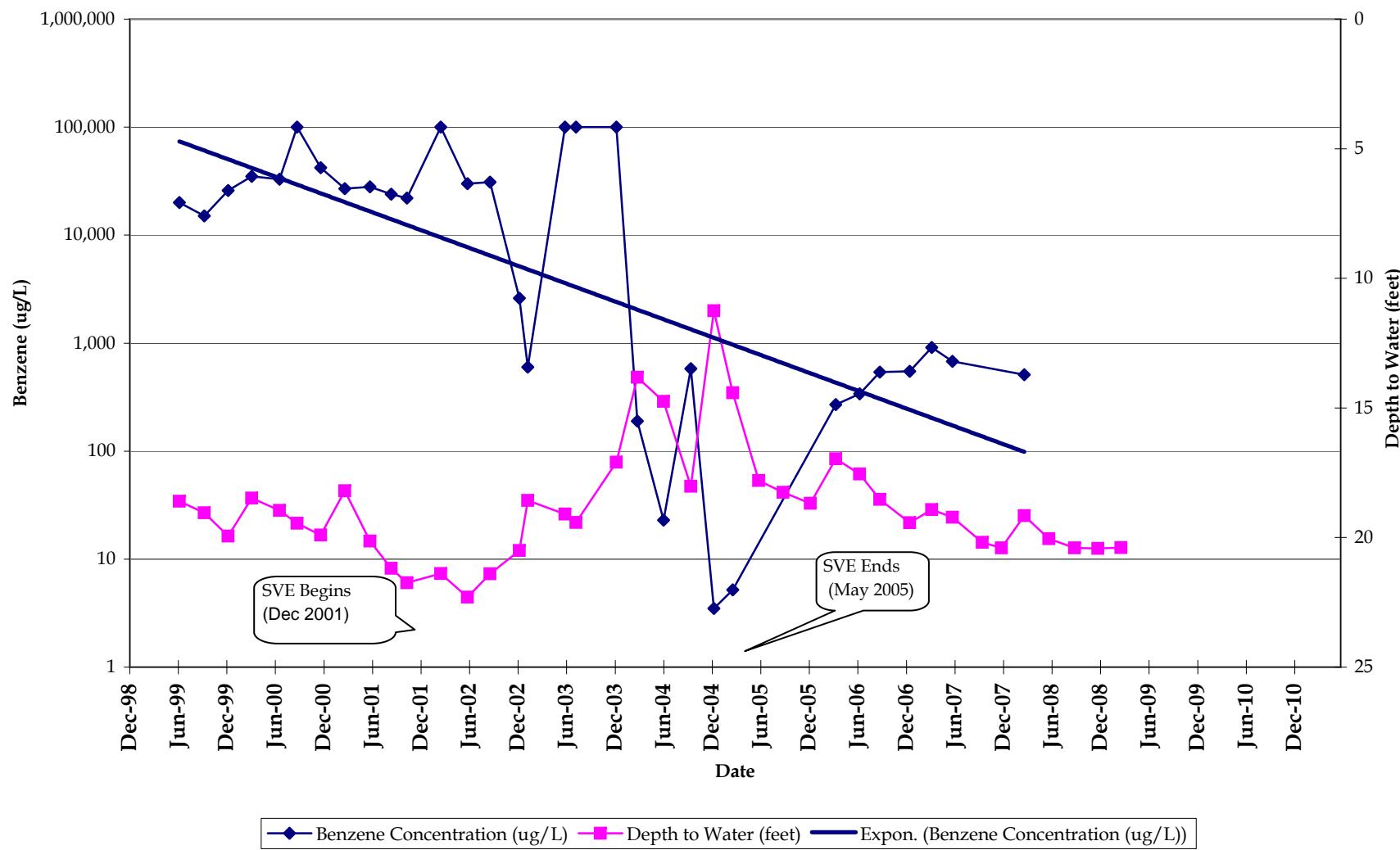
Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

APPENDIX D

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

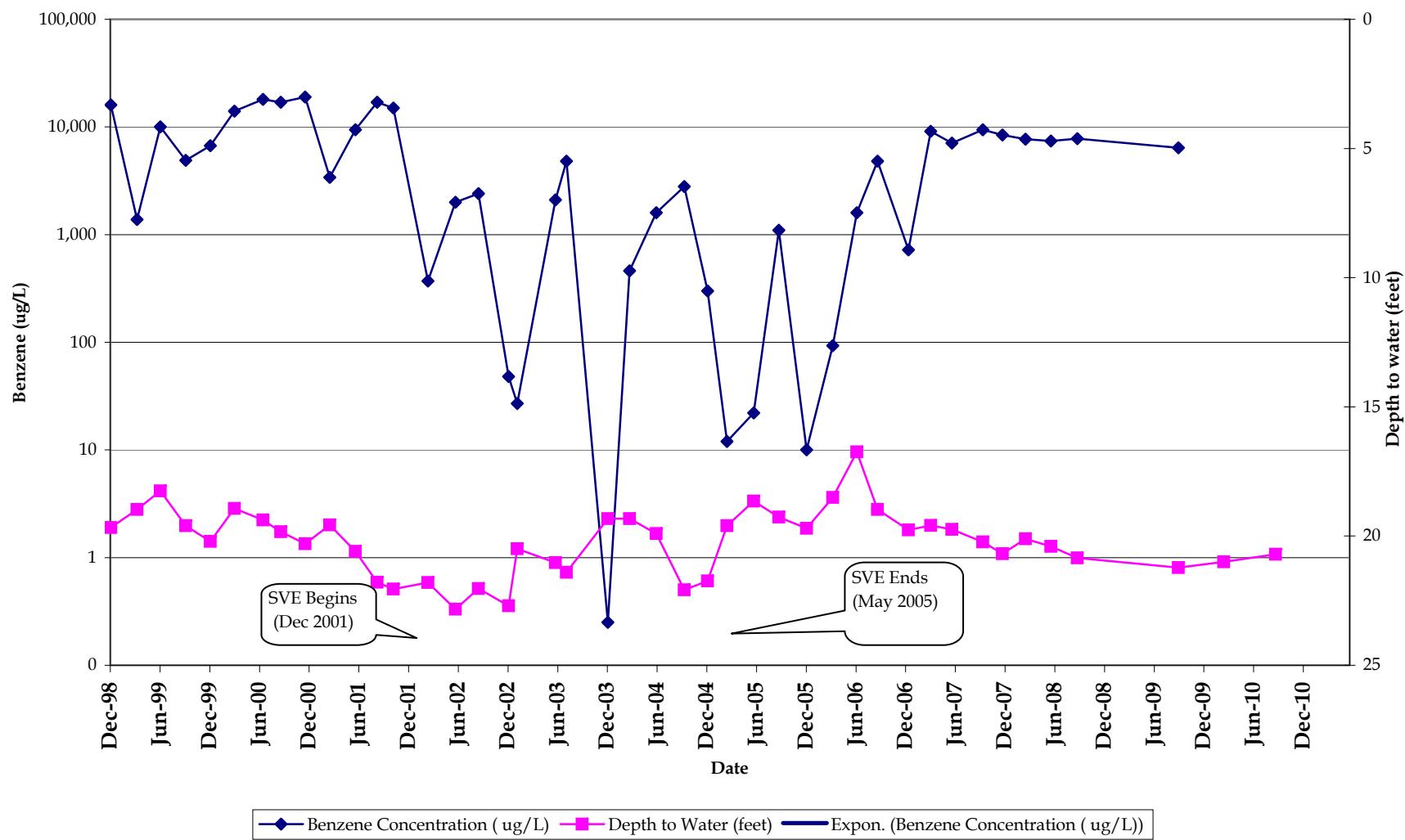
MW-1: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



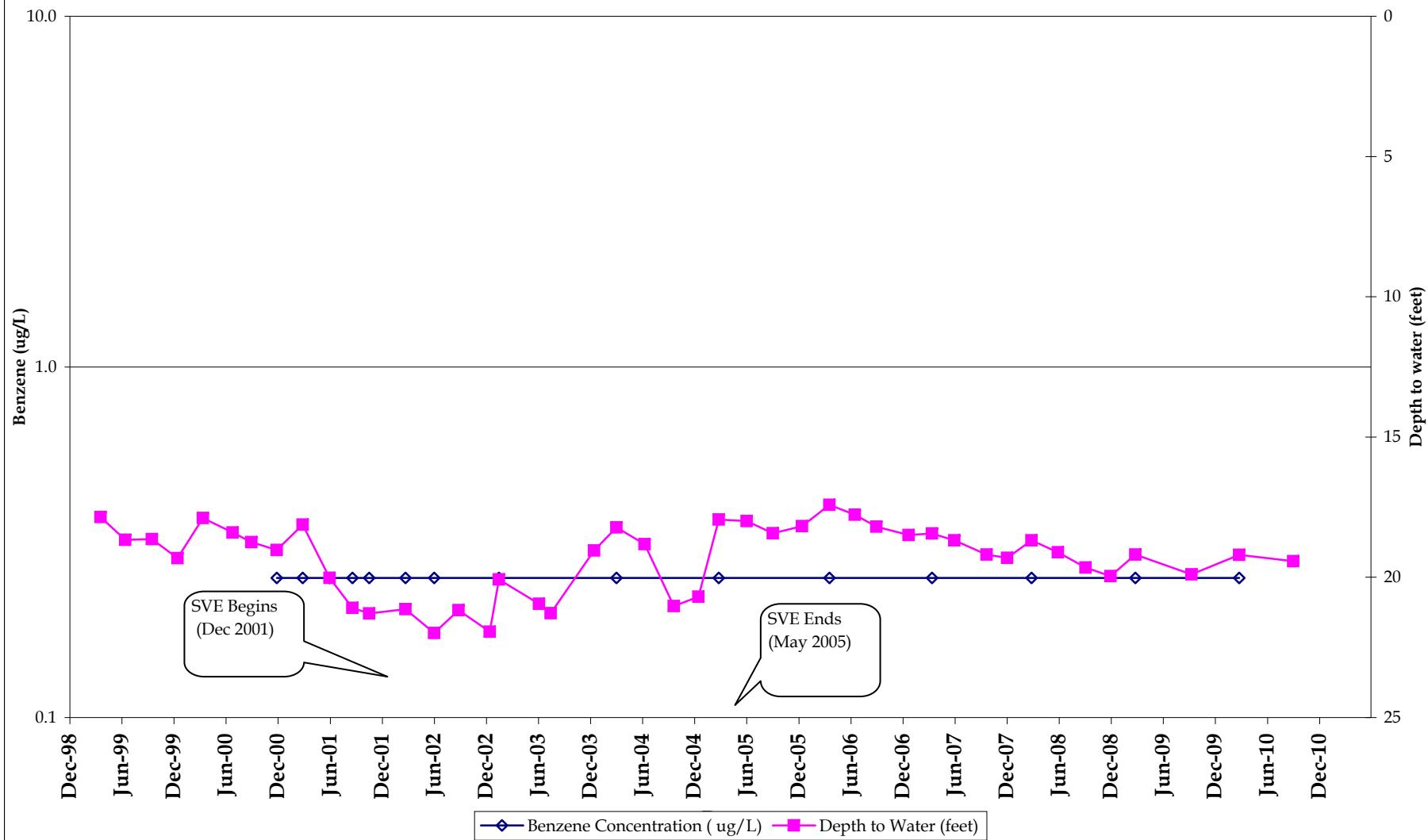
MW-2: Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



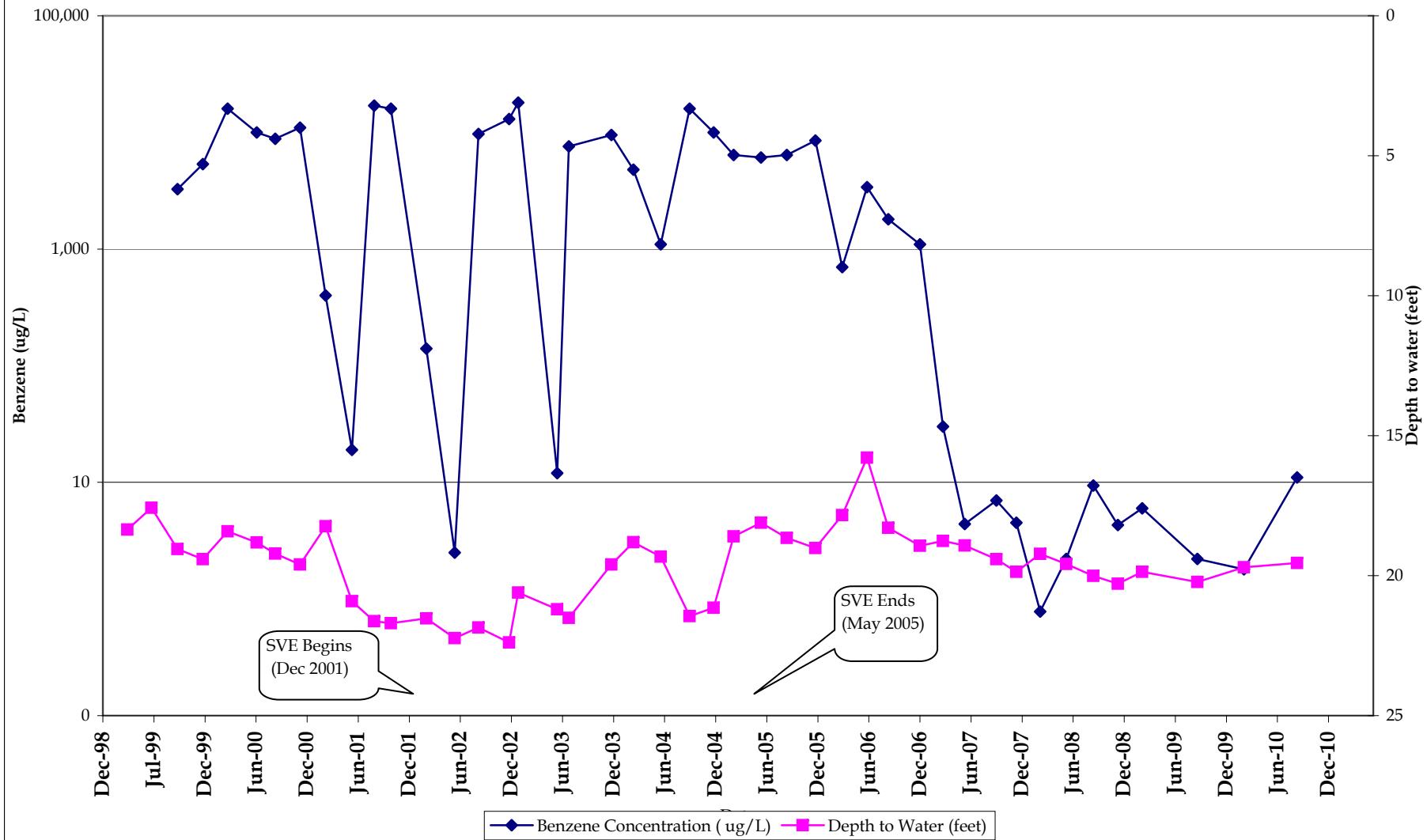
MW-3:Benzene Concentration and Depth to Water vs. Time

Allright Parking, 1432 Harrison Street, Oakland, California



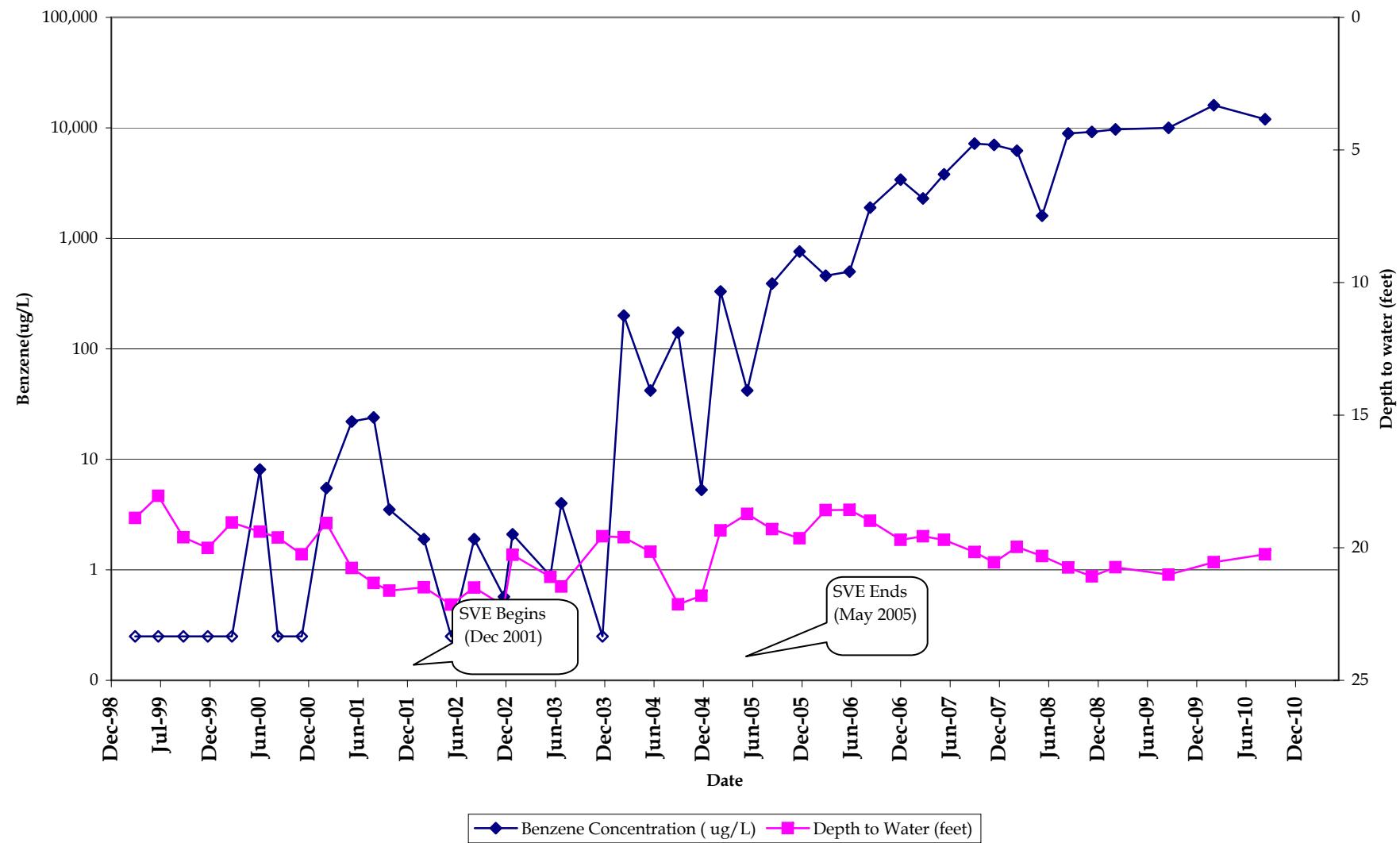
MW-4: Benzene Concentration and Depth to Water vs. Time

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

