



**CONESTOGA-ROVERS
& ASSOCIATES**

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Environmental Health

5900 Hollis Street, Suite A, Emeryville, California 94608
Telephone: 510-420-0700 Facsimile: 510-420-9170
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August 7, 2008

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

Re: **Groundwater Monitoring Report - Second Quarter 2008**
Allright Parking
1432 Harrison Street, Oakland, California
Fuel Leak Case No. RO0000266
CRA Project No. 540188

Dear Mr. Wickham:

On behalf of the Est. of A. Bacharach/Barbara Jean Borsuk, Conestoga-Rovers & Associates, Inc. (CRA) is submitting the *Groundwater Monitoring Report - Second Quarter 2008*. Presented in this report are a summary of the field activities and a presentation of the results from the second quarter 2008 groundwater monitoring event.

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

Sincerely,

Conestoga-Rovers & Associates, Inc.

Mark Jonas, P.G.
Senior Project Geologist

Attachments: *Groundwater Monitoring Report - Second Quarter 2008*

cc: Est. of A. Bacharach/Barbara Jean Borsuk
c/o Mr. Mark Borsuk, 1626 Vallejo Street, San Francisco, CA 94123-5116

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**CONESTOGA-ROVERS
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GROUNDWATER MONITORING REPORT – SECOND QUARTER 2008

**Allright Parking
1432 Harrison Street
Oakland, California
Fuel Leak Case No. RO000266
CRA Project No. 540188**

August 7, 2008

Prepared for:

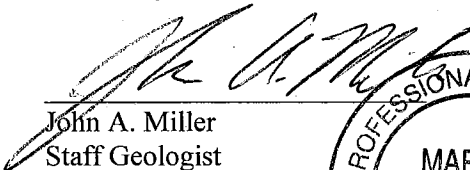
Est. of A. Bacharach/Barbara Jean Borsuk
c/o Mr. Mark Borsuk
1626 Vallejo Street
San Francisco, California 94123-5116

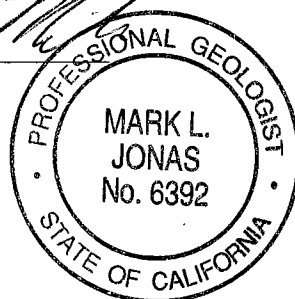
Prepared by:

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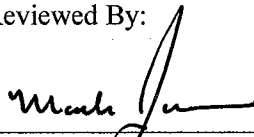
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Written by:


John A. Miller
Staff Geologist



Reviewed By:


Mark Jonas, P.G.
Senior Project Geologist



**CONESTOGA-ROVERS
& ASSOCIATES**

GROUNDWATER MONITORING REPORT – SECOND QUARTER 2008

**Allright Parking
1432 Harrison Street, Oakland, California
Fuel Leak Case No. RO0000266
CRA Project No. 540188**

August 7, 2008

INTRODUCTION

On behalf of the Est. of A. Bacharach/Barbara Jean Borsuk, Conestoga-Rovers & Associates, Inc. (CRA) has prepared this *Groundwater Monitoring Report – Second Quarter 2008* for the above-referenced site (see Figure 1). Presented in this report are the second quarter 2008 groundwater monitoring activities and results, and the anticipated third quarter 2008 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 the field data sheets for the second quarter 2008 monitoring events. Appendix B is the analytical laboratory report for the groundwater sampling event. Appendix C contains benzene concentrations and depth to water time-series graphs.

SECOND QUARTER 2008 ACTIVITIES AND RESULTS

Monitoring Activities

Field Activities: On June 4, 2008, CRA coordinated with Muskan Environmental Sampling (MES) to conduct quarterly monitoring activities. MES gauged groundwater levels and inspected for SPH in all monitoring wells. No measurable SPH was detected in any of the wells. Groundwater samples were collected from wells MW-2 and MW-4. There was insufficient water available in well MW-1 to collect a groundwater sample. At well MW-5, a grab sample was collected in place of a groundwater sample, due to restrictions with road construction near well MW-5. Groundwater monitoring field data sheets are provided in Appendix A. 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 A).

Groundwater samples were collected using 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.

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.

Monitoring Results

Groundwater Flow Direction: Based on depth-to-water measurements collected during the June 4, 2008 site visit, groundwater beneath the site apparently flows toward the north-northeast, at a gradient of 0.003 feet/foot. Groundwater flow conditions observed during the second quarter 2008 are consistent with conditions observed during previous monitoring events. Groundwater elevation data is summarized on Figure 2 and presented in Table 2.

Hydrocarbon Distribution in Groundwater: Hydrocarbon concentrations were detected in three of the six sampled wells. TPHg concentrations ranged from 86 micrograms per liter ($\mu\text{g/L}$) to 56,000 $\mu\text{g/L}$, with the highest concentration detected in well MW-2. Benzene concentrations ranged from 2.2 $\mu\text{g/L}$ to 7,400 $\mu\text{g/L}$, with the highest concentration detected in well MW-2. Toluene concentrations ranged from 4.6



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Groundwater Monitoring Report - Second Quarter 2008
1432 Harrison Street, Oakland, California
August 7, 2008

$\mu\text{g/L}$ to 600 $\mu\text{g/L}$, with the highest concentration detected in well MW-2. Ethylbenzene concentrations ranged from 25 $\mu\text{g/L}$ to 1,500 $\mu\text{g/L}$, with the highest concentration detected in well MW-2. Xylenes concentrations ranged from 0.58 $\mu\text{g/L}$ to 4,100 $\mu\text{g/L}$, with the highest concentration detected in well MW-2. No MTBE was detected in any of the sampled wells. Refer to Table 2 for dissolved hydrocarbon concentrations, and Appendix C for benzene concentration trend graphs for wells MW-2, MW-4, and MW-5. The unshaded symbols on the graphs represent results below laboratory detection limits.

ANTICIPATED THIRD QUARTER 2008 ACTIVITIES

Monitoring Activities

CRA will coordinate with MES to perform quarterly monitoring activities. MES will gauge all monitoring wells; check wells for SPH; and collect groundwater samples from wells not containing SPH. As per the sampling schedule, wells MW-1, MW-2, MW-4, and MW-5 will be sampled during the third quarter event. Groundwater samples will be analyzed for TPHg by modified EPA Method 8015, BTEX by EPA Method 8021 and MTBE by EPA Method 8260B. 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 2008.

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. We will implement this Work Plan as modified in the ACEH letter.



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Groundwater Monitoring Report - Second Quarter 2008
1432 Harrison Street, Oakland, California
August 7, 2008

ATTACHMENTS

Figure 1 – Vicinity Map

Figure 2 – Groundwater Elevation and Hydrocarbon Concentration Map

Table 1 – Well Construction Details

Table 2 – Groundwater Elevations and Analytical Data

Appendix A – Field Data Sheets

Appendix B – Laboratory Analytical Report

Appendix C – Benzene Concentration and Depth to Water vs. Time-Series Graphs

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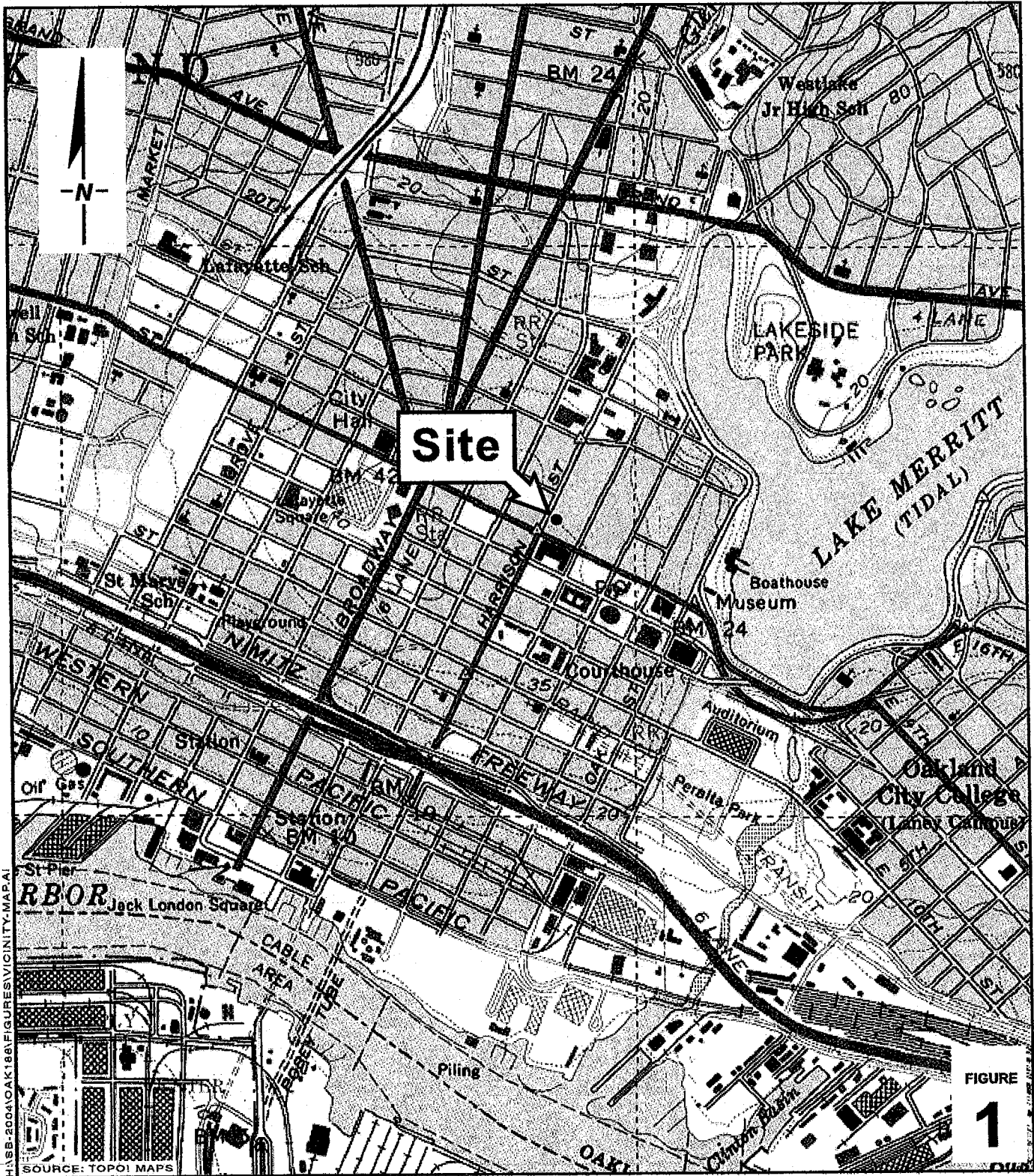


FIGURE 1

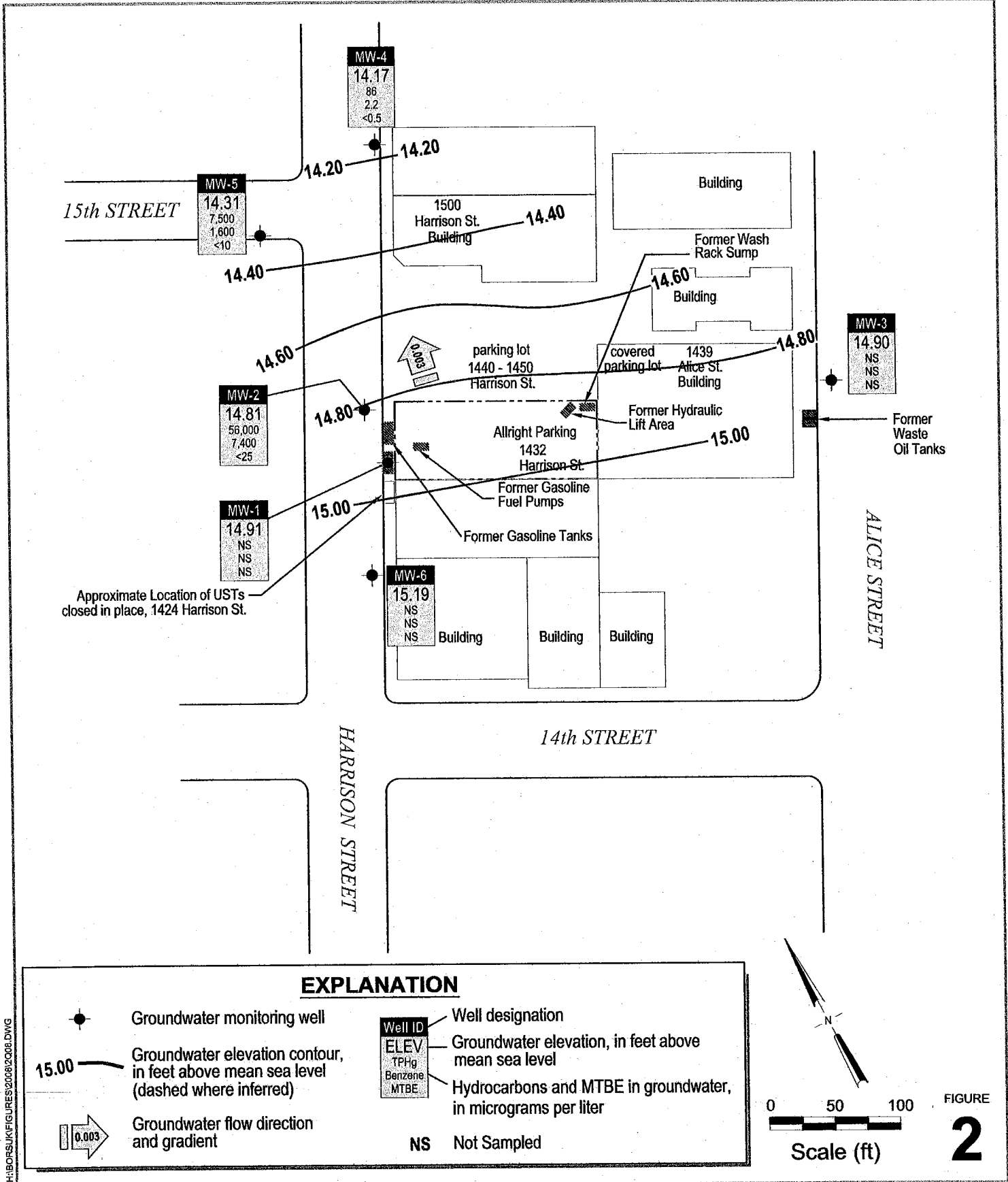
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Allright Parking
1432 Harrison Street
Oakland, California



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Vicinity Map



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Allright Parking
 1432 Harrison Street
 Oakland, California



Groundwater Elevation and Hydrocarbon Concentration Map
 June 4, 2008

Conestoga-Rovers & Associates

Table 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)	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	-

ft-bgs

feet below ground surface

ft-msl

feet above mean sea level

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Table 2. Groundwater Elevations 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
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*	--	--	--	--	--	--	--
	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*	--	--	--	--	--	--	--	
7/23/2003	19.42	0.07	15.59*	--	--	--	--	--	--	--	
35.37#	12/22/2003	17.09	0.01	18.29*	--	--	--	--	--	--	
	3/10/2004	13.82	--	21.55	22,000	190	250	<10	5,100	<100	a,c
6/16/2004	14.75	--	20.62	2,700	23	160	13	520	<25	a	
9/27/2004	18.02	Sheen ^{Field}	17.35	27,000	580	2,000	56	6,800	<10***	a,m	
12/22/2004	11.25	--	24.12	250	3.5	18	<0.5	47	<0.5***	a,m	
3/3/2005	14.42	--	20.95	320	5.2	13	3.2	46	<5.0	a	
34.96##	6/9/2005	17.80	--	17.16	--	--	--	--	--	--	+
	9/9/2005	18.26	--	16.70	--	--	--	--	--	--	+
	12/20/2005	18.68	--	16.28	--	--	--	--	--	--	+
	3/26/2006	16.96	--	18.00	23,000	270	400	65	4,400	<50	a
	6/23/2006	17.55	--	17.41	30,000	340	680	170	6,900	<500	a,m
	9/7/2006	18.53	--	16.43	34,000	540	630	190	7,000	<500	a
	12/29/2006	19.43	Sheen ^{Field}	15.53	20,000	550	55	130	4,700	<100*/<0.5***	a,m
	3/21/2007	18.92	Sheen ^{Field}	16.04	23,000	910	210	140	5,900	<250*	a
	6/7/2007	19.22	Sheen ^{Field}	15.74	24,000	680	61	190	4,300	<100*	a,b
	9/28/2007	20.19	--	14.77	--	--	--	--	--	--	+
12/9/2007	20.40	--	14.56	--	--	--	--	--	--	+	
3/3/2008	19.16	Sheen ^{Lab}	15.80	10,000	510	28	<10	1,700	<2.5***	a,b,m,l	
6/4/2008	20.05	--	14.91	--	--	--	--	--	--	--	
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***	--

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Table 2. Groundwater Elevations 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	
												← (µg/L) →
MW-2 (cont.) 35.21	6/22/1998	18.29	--	16.89	38,000	9,800	9,500	1,500	6,000	--	--	
	9/18/1998	19.09	--	16.09	68,000	12,000	16,000	1,400	5,900	--	--	
	12/23/1998	19.67	--	15.51	180,000	16,000	22,000	2,200	8,300	--	--	
	3/29/1999	18.97	--	16.21	16,600	1,380	1,920	373	1,840	--	--	
	6/23/1999	18.25	--	16.93	41,000	10,000	9,400	1,100	5,000	--	--	
	9/24/1999	19.60	--	15.58	40,600	4,880	3,490	1,090	4,560	--	--	
	12/23/1999	20.21	--	14.97	61,900	6,710	9,320	1,150	5,360	--	--	
	3/21/2000	18.93	--	16.25	98,000	14,000	21,000	1,600	6,900	<1600	a	
	7/3/2000	19.38	--	15.80	140,000	18,000	33,000	2,600	11,000	<200*	a	
	9/7/2000	19.83	--	15.35	110,000	17,000	21,000	2,200	9,700	<100***	a,l	
	12/5/2000	20.30	--	14.88	130,000	19,000	28,000	2,500	11,000	<200	a	
	3/6/2001	19.57	--	15.61	32,000	3,400	3,400	580	2,500	<200	a	
	6/8/2001	20.59	--	14.59	72,000	9,400	9,200	1,300	5,800	<200	a	
	8/27/2001	21.79	--	13.39	110,000	17,000	28,000	2,600	11,000	<950	a	
	10/25/2001	22.05	--	13.13	110,000	15,000	18,000	2,000	8,700	<350	a	
	3/1/2002	21.80	--	13.38	3,100	370	180	62	330	<5.0*	a	
	6/10/2002	22.83	--	12.35	7,800	2,000	1,100	76	570	<100*	a	
	9/3/2002	22.03	--	13.18	21,000	2,400	2,900	320	1,400	<500	a	
	12/22/2002	22.70	--	12.51	630	48	56	19	82	<5.0	a	
	1/23/2003	20.49	--	14.72	1,100	27	32	19	150	<25	a	
	6/12/2003	21.03	--	14.18	10,000	2,100	1,600	150	660	<250	a	
	7/23/2003	21.40	--	13.81	28,000	4,800	4,800	380	1,700	<500	a	
	12/22/2003	19.33	--	15.88	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	
	3/10/2004	19.33	--	15.88	3,100	460	290	38	240	<50	a	
	6/16/2004	19.90	--	15.31	9,100	1,600	1,200	220	830	<400	a	
	9/27/2004	22.08	--	13.13	14,000	2,800	490	340	1,600	<350	a	
	12/22/2004	21.74	--	13.47	1,100	300	28	22	71	<15	a	
	3/3/2005	19.60	--	15.61	340	12	4.4	9.1	28	<10	a	
	6/9/2005	18.65	--	16.56	240	22	2.7	6.4	27	<10	a	
	9/9/2005	19.27	--	15.94	7,800	1,100	170	380	690	<160	a	
12/20/2005	19.70	--	15.51	150	10	1.9	2.8	10	<5.0	a		
3/26/2006	18.51	--	16.70	2,200	93	19	66	130	<50	a		
6/23/2006	18.47	--	16.74	8,800	1,600	110	500	480	<500	a,m		
9/7/2006	18.97	--	16.24	29,000	4,800	280	940	1,000	<500	a		
12/29/2006	19.76	--	15.45	4,500	720	54	250	480	75*/<0.5***	a		
3/21/2007	19.59	--	15.62	34,000	9,100	500	890	2,500	<1,100*	a		
6/7/2007	19.74	Sheen 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		
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	--	--	--	--	--	--	--	

Conestoga-Rovers & Associates

Table 2. Groundwater Elevations 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.)	1/23/2003	20.08	--	13.93	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/12/2003	20.95	--	13.06	--	--	--	--	--	--	--
	7/23/2003	21.28	--	12.73	--	--	--	--	--	--	--
	12/22/2003	19.05	--	14.96	--	--	--	--	--	--	--
	3/10/2004	18.22	--	15.79	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/16/2004	18.82	--	15.19	--	--	--	--	--	--	--
	9/27/2004	21.03	--	12.98	--	--	--	--	--	--	--
	12/22/2004	20.69	--	13.32	--	--	--	--	--	--	--
	3/3/2005	17.94	--	16.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/9/2005	18.00	--	16.01	--	--	--	--	--	--	--
	9/9/2005	18.43	--	15.58	--	--	--	--	--	--	--
	12/20/2005	18.18	--	15.83	--	--	--	--	--	--	--
	3/26/2006	17.42	--	16.59	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/23/2006	17.77	--	16.24	--	--	--	--	--	--	--
	9/7/2006	18.20	--	15.81	--	--	--	--	--	--	--
	12/29/2006	18.49	--	15.52	--	--	--	--	--	--	--
	3/21/2007	18.44	--	15.57	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	6/7/2007	18.68	--	15.33	--	--	--	--	--	--	--
	9/28/2007	19.19	--	14.82	--	--	--	--	--	--	--
	12/9/2007	19.31	--	14.70	--	--	--	--	--	--	--
3/3/2008	18.68	--	15.33	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	--	
6/4/2008	19.11	--	14.90	--	--	--	--	--	--	--	
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	1,700	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,j	
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	
MW-5 34.63	10/28/1996	19.88	--	14.75	90	4.0	0.6	<0.50	<0.50	16*	n
	12/12/1996	20.09	--	14.54	230	5.6	0.9	ND	0.9	3.6*	--
	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*	--

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Table 2. Groundwater Elevations 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.)	12/18/1997	19.77	--	14.86	ND	ND	ND	ND	ND	ND***	--
	3/12/1998	19.77	--	14.86	79	2.3	ND	0.8	ND	ND*	--
	6/22/1998	18.08	--	16.55	ND	ND	ND	ND	ND	--	--
	9/18/1998	19.12	--	15.51	ND	ND	ND	ND	ND	--	--
	12/23/1998	19.60	--	15.03	ND	0.8	0.9	ND	ND	--	--
	3/29/1999	18.88	--	15.75	ND	ND	ND	ND	ND	--	--
	6/23/1999	18.05	--	16.58	ND	ND	ND	ND	ND	--	--
	9/24/1999	19.61	--	15.02	ND	ND	ND	ND	ND	--	--
	12/23/1999	20.01	--	14.62	ND	ND	ND	ND	ND	--	--
	3/21/2000	19.05	--	15.58	140	<0.5	<0.5	<0.5	<0.5	<5.0	--
	7/3/2000	19.40	--	15.23	85	8.1	3.1	1.6	7.8	<5.0*	k
	9/7/2000	19.62	--	15.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	a
	12/5/2000	20.25	--	14.38	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/6/2001	19.07	--	15.56	91	5.5	<0.5	<0.5	<0.5	<5.0	--
	6/8/2001	20.77	--	13.86	290	22.0	0.8	<0.5	<0.5	<5.0	--
	8/27/2001	21.33	--	13.30	660	24.0	2.2	1.3	4.0	<25	a
	10/25/2001	21.62	--	13.01	55	3.5	<0.5	<0.5	<0.5	<5.0	a
	3/1/2002	21.49	--	13.14	200	1.9	0.69	<0.5	<0.5	<5.0*	a
	6/10/2002	22.15	--	12.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	a
	9/3/2002	21.50	--	13.13	60	1.9	<0.5	<0.5	0.77	<5.0	--
	12/22/2002	22.19	--	12.44	82	0.57	<0.5	0.68	<0.5	<5.0	a
	1/23/2003	20.27	--	14.36	<50	2.1	<0.5	<0.5	<0.5	<5.0	a
	6/12/2003	21.10	--	13.53	<50	0.88	<0.5	<0.5	<0.5	<5.0	--
	7/23/2003	21.47	--	13.16	<50	4.0	<0.5	<0.5	<0.5	<5.0	--
	12/22/2003	19.57	--	15.06	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/10/2004	19.61	--	15.02	990	200	2.9	4.0	20	<70	--
	6/16/2004	20.15	--	14.48	250	42	<0.5	0.88	<0.5	<35	a
	9/27/2004	22.14	--	12.49	1,600	140	4.8	45	18	<110	a
	12/22/2004	21.81	--	12.82	<50	5.3	<0.5	<0.5	0.66	<5.0	--
	3/3/2005	19.35	--	15.28	2,000	330	4.4	63	39	<150	a
6/9/2005	18.73	--	15.90	250	42	1.4	14	3.2	<5.0	a	
9/9/2005	19.30	--	15.33	2,000	390	5.0	71	38	<400	a	
12/20/2005	19.65	--	14.98	4,300	760	18	170	150	<35	a	
3/26/2006	18.58	--	16.05	1,600	460	3.3	35	32	<50	a	
6/23/2006	18.57	--	16.06	1,900	500	3.9	81	56	<17	a	
9/7/2006	18.98	--	15.65	8,800	1,900	12	350	220	<260	a,j	
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,j	
6/4/2008	20.32	--	14.31	7,500	1,600	4.6	25	91	<10***	a,j	
MW-6 35.89 (annual sampling)	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	--	--	--	--	--	--	--	

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Table 2. Groundwater Elevations 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)	Groundwater Elevation (ft amsl)	TPHg	TOC					Notes
						Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	
MW-6	12/22/2004	22.53	--	13.36	--	--	--	--	--	--	--
(cont.)	3/3/2005	19.87	--	16.02	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/9/2005	18.95	--	16.94	--	--	--	--	--	--	--
	9/9/2005	19.45	--	16.44	--	--	--	--	--	--	--
	12/20/2005	19.90	--	15.99	--	--	--	--	--	--	--
	3/26/2006	18.85	--	17.04	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	6/23/2006	18.57	--	17.32	--	--	--	--	--	--	--
	9/7/2006	19.13	--	16.76	--	--	--	--	--	--	--
	12/29/2006	19.96	--	15.93	--	--	--	--	--	--	--
	3/21/2007	19.87	--	16.02	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	m
	6/7/2007	20.05	--	15.84	--	--	--	--	--	--	--
	9/28/2007	20.51	--	15.38	--	--	--	--	--	--	--
	12/9/2007	20.90	--	14.99	--	--	--	--	--	--	--
	3/3/2008	20.47	--	15.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5***	--
	6/4/2008	20.70	--	15.19	--	--	--	--	--	--	--
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

l = 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 µg/L

ND = Not detected above laboratory detection limit

x = Groundwater elevation adjusted for SPH by the relation:

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

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

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

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

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

Field = Observed in the field

Lab = Observed in analytical laboratory

* = Samples associated with 1439 Alice St. Property

a = Unmodified or weakly modified gasoline is significant.

b = Lighter than water immiscible sheen is present.

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 Method SW8015,

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




**CONESTOGA-ROVERS
& ASSOCIATES**

**APPENDIX A
Field Data Sheets**



WELL SAMPLING FORM

Date:		6/4/2008						
Client:		Conestoga-Rovers and Associates						
Site Address:		1432 Harrison Street, Oakland, CA						
Well ID:		MW-5						
Well Diameter:		2"						
Purging Device:		NO PURGE						
Sampling Method:		Disposable Bailer						
Total Well Depth:		27.90	Fe=		mg/L			
Depth to Water:		20.32	ORP=		mV			
Water Column Height:			DO=		mg/L			
Gallons/ft:								
1 Casing Volume (gal):		COMMENTS: Well was not purged due to construction in the roadway, unable to close street to purge well and sample, therefore a grab sample was taken due to safety concerns.						
3 Casing Volumes (gal):								
TIME:	CASING VOLUME (gal)					TEMP (Celsius)	pH	COND. (µS)
Sample ID:	Sample Date:	Sample Time:	Container Type	Preservative	Analytes			
MW-5	6/4/2008	10:45	40 ml VOA	HCl, ICE	TPHg BTEX MTBE			
					8015, 8021, 8260			
Signature:								



**CONESTOGA-ROVERS
& ASSOCIATES**

APPENDIX B
Laboratory Analytical Report



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540188; Borsuk	Date Sampled: 06/04/08
		Date Received: 06/04/08
	Client Contact: Mark Jonas	Date Reported: 06/09/08
	Client P.O.:	Date Completed: 06/09/08

WorkOrder: 0806081

June 09, 2008

Dear Mark:

Enclosed within are:

- 1) The results of the 3 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.

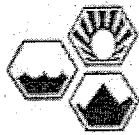
If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

0806081



McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

GeoTracker EDF PDF Excel Write On (DW)

Check if sample is effluent and "J" flag is required

Report To: Mark Jonas Bill To: Conestoga-Rovers & Associates
Company: Conestoga-Rovers & Associates
5900 Hollis St, Ste A
Emeryville, CA E-Mail: mjonas@cesaworld.com
Tele: (510) 420-3307 Fax: (510) 420-9170
Project #: 540188 Project Name: Borsuk
Project Location: 1432 Harrison St, Oakland, CA
Sampler Signature: Muskan Environmental Sampling

Analysis Request

Other Comments

BTEX & TPH as Gas (602 / 8021 + 8015) / AMBMS
TPH as Diesel (8015)
Total Petroleum Oil & Grease (1664 / 8820 E/D&P)
Total Petroleum Hydrocarbons (418, 1)
EPA 502.2 / 601 / 8010 / 8021 (HVOCS)
MTBE / BTEX ONLY (EPA 602 / 8021)
EPA 505/ 608 / 8081 (C) Pesticides
EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners
EPA 507 / 811 (NP Pesticides)
EPA 515 / 8151 (Acidic C) Herbicides
EPA 524.2 / 624 / 8260 (VOCs)
EPA 825.3 / 625 / 8270 (SVOCs)
EPA 8270 SIM / 8140 (PAHs / PNAs)
CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)
LAUT 5 Metals (200.7 / 200.8 / 6010 / 6020)
Lead (200.7 / 200.8 / 6010 / 6020)
MTBE by 8260

Filter Samples for Metals analysis: Yes / No

+
+
+

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other			
MW-2		6-4-08	10:40	4	VOCs	X					X	X	X			X	
MW-4			11:15														
MW-5		K	10:45	X	X	X					X	X	X			X	

Relinquished By: [Signature] Date: 6/4/08 Time: 1305 Received By: [Signature]
Relinquished By: _____ Date: _____ Time: _____ Received By: _____
Relinquished By: _____ Date: _____ Time: _____ Received By: _____

COMMENTS:
ICE/ 6.10c
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ✓
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB ✓
PRESERVATION HOAS O&G METALS OTHER
pH < 2

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0806081

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:
 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: 06/04/2008

Date Printed: 06/05/2008

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	
0806081-001	MW-2	Water	6/4/2008 11:40	<input type="checkbox"/>	B	A											
0806081-002	MW-4	Water	6/4/2008 11:15	<input type="checkbox"/>	B	A											
0806081-003	MW-5	Water	6/4/2008 10:45	<input type="checkbox"/>	B	A											

Test Legend:

1	G-MBTX W	2	MTBE W	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Samantha Arbuckle

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: **6/4/2008 1:15:51 PM**

Project Name: **#540188; Borsuk**

Checklist completed and reviewed by: **Samantha Arbuckle**

WorkOrder N°: **0806081** Matrix Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No
- Container/Temp Blank temperature Cooler Temp: 12.1°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- TTLIC Metal - pH acceptable upon receipt (pH<2)? Yes No NA

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

Client contacted:

Date contacted:

Contacted by:

Comments:



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0806081

Table with columns: EPA Method SW8021B/8015Cm, Extraction SW5030B, BatchID: 36093, Spiked Sample ID: 0806101-001A. Rows include analytes like TPH, MTBE, Benzene, Toluene, Ethylbenzene, Xylenes, and %SS with various recovery and RPD values.

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 36093 SUMMARY

Summary table with columns: Lab ID, Date Sampled, Date Extracted, Date Analyzed. Contains three rows of sample data.

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0806081

EPA Method SW8260B	Extraction SW5030B			BatchID: 36068					Spiked Sample ID: 0806054-014B			
	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	106	103	2.68	105	106	0.646	70 - 130	30	70 - 130	30
%SS1:	100	25	100	100	0	101	101	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 36068 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0806081-001A	06/04/08 11:40 AM	06/07/08	06/07/08 4:11 AM	0806081-002A	06/04/08 11:15 AM	06/07/08	06/07/08 4:53 AM
0806081-003A	06/04/08 10:45 AM	06/07/08	06/07/08 5:36 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.



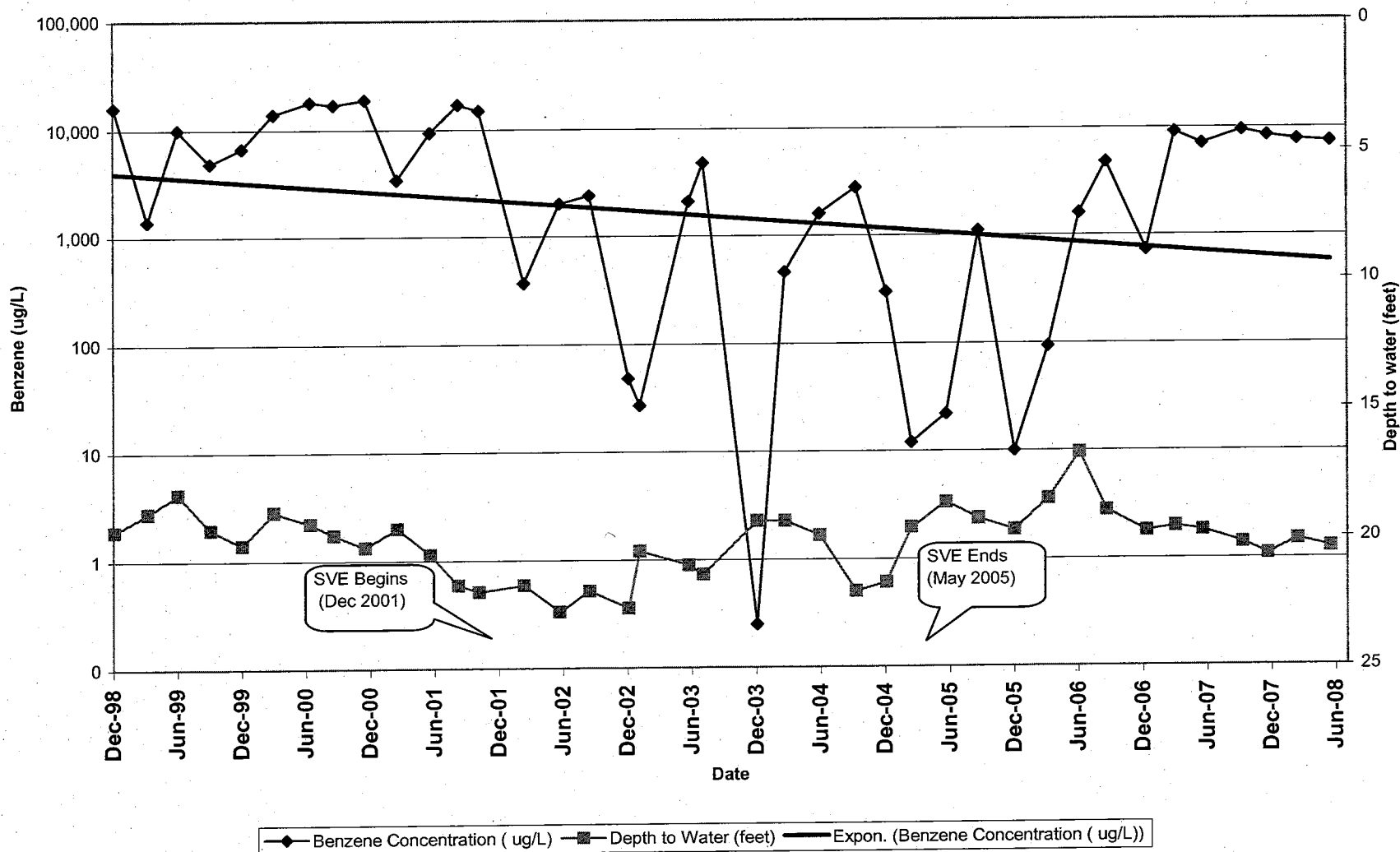
**CONESTOGA-ROVERS
& ASSOCIATES**

APPENDIX C

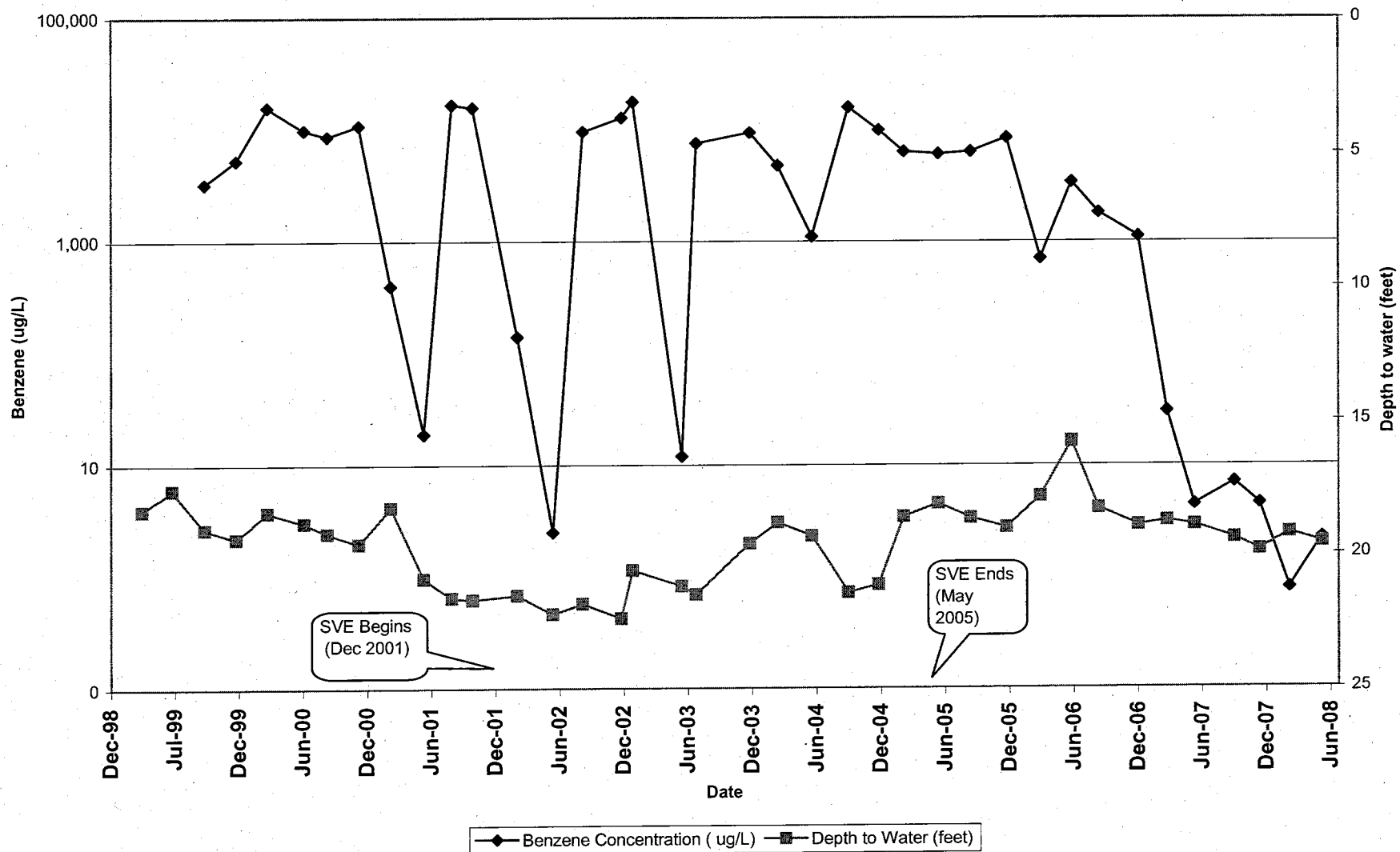
Benzene Concentration and Depth to Water vs. Time-Series Graphs

MW-2: 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

