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	Alamed	la Coun	ty Environm	ental He	ealth			
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COMME Should you 420-3369.	ou have a		tions regardi	ng the c	ontent	s of the d	locum	nent, please contact Bryan Fong at (510)
Copy to:		Ms. Ann	y Chiu			-		
Complete	ed by: _ <u>I</u>	Bryan A.		_		Signed	1	3 mg lots
			[Please Prir	ıt]				
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GROUNDWATER MONITORING REPORT - FIRST HALF 2012

CHIU PROPERTY 800 FRANKLIN STREET OAKLAND, CALIFORNIA

AGENCY CASE NO. RO0000196

Prepared by: Conestoga-Rovers & Associates

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1.0 INTRODUCTION

On behalf of Mr. Tommy Chiu, Conestoga-Rovers & Associates (CRA) is submitting this *Groundwater Monitoring Report – First Half 2012*. This report presents a summary of First Half 2012 groundwater monitoring and sampling event activities, analytical results and activities anticipated to occur during the Second Half of 2012 at the subject site, located at 800 Franklin Street, Oakland, California (Figure 1). This groundwater monitoring event was conducted in accordance with guidelines issued by Alameda County Department of Environmental Health (ACEH).

1.1 <u>SITE INFORMATION</u>

Site Address 800 Franklin Street, Oakland

Site Use Commercial Building

Client and Contact Tommy Chiu

Consultant and Contact Person CRA, Bryan A. Fong

Lead Agency and Contact Alameda County Environmental

Health, Jerry Wickham, P.G.

Agency Case No. RO0000196

2.0 <u>SITE ACTIVITIES AND RESULTS</u>

2.1 CURRENT SAMPLING EVENT ACTIVITIES

On March 5, 2012, Muskan Environmental Sampling (MES) conducted groundwater monitoring and sampling activities at the subject site. MES measured water levels and collected groundwater samples from monitoring wells MW-1, MW-2, MW-3A, MW-4, MW-5 and MW-6 (Figure 2). Well construction details are provided in Table 1. CRA's standard field procedures are presented as Appendix A. The laboratory analytical report and sample chain-of-custody (COC) documents are presented as Appendix B, and copies of the field data sheets are included as Appendix C.

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2.1.1 WATER LEVEL MEASUREMENTS

Depth-to-water measurements were recorded to the nearest 0.01-foot from the surveyed reference elevation on the top of the well casing (TOC). Measurements were collected using a conductance-actuated well sounder. Groundwater elevation and depth data are presented in Table 2.

2.1.2 GROUNDWATER SAMPLING

MES collected groundwater samples from wells MW-1, MW-2, MW-3A, MW-4, MW-5 and MW-6. Field activities associated with groundwater sampling included low flow well purging, measuring groundwater parameters and sample collection. Field equipment was decontaminated before use and between each well.

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

Groundwater samples were collected from each well using the peristaltic pump. The samples were decanted into 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, placed on ice in a chilled cooler and transported under COC to a State-certified laboratory for analysis. The COC used for this monitoring event is included in Appendix B.

2.1.3 <u>EQUIPMENT DECONTAMINATION</u>

To minimize the potential of cross-contamination, the groundwater monitoring equipment was decontaminated prior to being deployed in the first well, and again between each successive well. The tubing for the peristaltic pump was discarded after use at each well.

2.1.4 <u>SAMPLE ANALYSIS</u>

Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified Environmental Protection Agency (EPA) Method SW8015Bm. Samples were also analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) by EPA Method SW8021B. In addition, groundwater samples were analyzed for TPH as diesel (TPHd) by EPA Method SW8015B. Based on the lack of historical detections, chloroform and 1,2-dichloroethane (1,2-DCA) analyses have been eliminated from the monitoring program. The analyses were performed by McCampbell and the laboratory analytical report is included in Appendix B. Groundwater analytical results are summarized on Figure 2 and presented in Table 2.

2.2 CURRENT SAMPLING EVENT RESULTS

Groundwater Flow Direction Northwest

Hydraulic Gradient 0.005

Groundwater Depth

from Top of Casing in Monitoring Wells 22.32 to 23.16 feet

Were Measureable Separate

Phase Hydrocarbons Observed No

2.2.1 GROUNDWATER FLOW DIRECTION AND GRADIENT

Depth-to-water measurements collected on March 5, 2012 ranged from 22.32 to 23.16 feet below TOC. Groundwater elevations were calculated by subtracting the depth-to-water measurements from the surveyed TOC elevations. Groundwater elevations were plotted on a site plan and contoured. Based on depth-to-water data collected during the site visit, groundwater flow direction was calculated toward the northwest at a low gradient of 0.005. Depth-to-water and groundwater elevation data for the site are summarized in Table 2 and presented on Figure 2.

2.2.2 GROUNDWATER ANALYTICAL RESULTS

Hydrocarbon concentrations were detected in three of the six wells sampled during the First Half 2012.

- TPHg was detected in wells MW-2, MW-3A, and MW-6 at concentrations ranging from 190 micrograms per liter ($\mu g/L$) in MW-6 to 49,000 $\mu g/L$ in MW-3A. Benzene concentrations were also detected in wells MW-2, MW-3A and MW-6 at concentrations ranging from 38 $\mu g/L$ in MW-6 to 4,400 $\mu g/L$ in MW-3A. Toluene, ethylbenzene and xylenes were detected in wells MW-2, MW-3A, and MW-6 at varying concentrations. Laboratory analysis noted that the chromatographic pattern seen in these three wells suggests unmodified or weakly modified gasoline is significant in the samples.
- No MTBE was detected above laboratory reporting limits in any of the wells.
- Diesel-range hydrocarbons (TPHd) were detected in samples from wells MW-2, MW-3A and MW-6 at concentrations of 1,400, 1,500, and 65 μg/L, respectively. Laboratory analysis noted that the TPH chromatogram suggested gasoline range compounds were significant in these samples.

The analytical results are provided on Table 2. The laboratory analytical report and sample chain-of-custody (COC) documents are presented as Appendix B

2.2.3 GEOTRACKER SUBMITTAL

CRA uploaded relevant data from the First Half 2012 monitoring event to the GeoTracker database.

2.4 PROPOSED ACTIVITIES FOR THE SECOND 2012 SEMI-ANNUAL EVENT

The subject site will be monitored during the Second Half 2012. CRA will measure water levels and collect groundwater samples from wells MW-1 through MW-6. Groundwater samples will be analyzed for TPHd with silica gel cleanup and TPHg by modified EPA Method SW8015Bm, and MTBE and BTEX by modified EPA Method SW8021B.

CRA is currently working to obtain an encroachment permit from the City of Oakland to implement the second phase activities of the *Down-Gradient Site Characterization Work Plan* previously submitted and approved by the ACEH. Once CRA acquires the encroachment permit the above referenced work plan will commence.

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

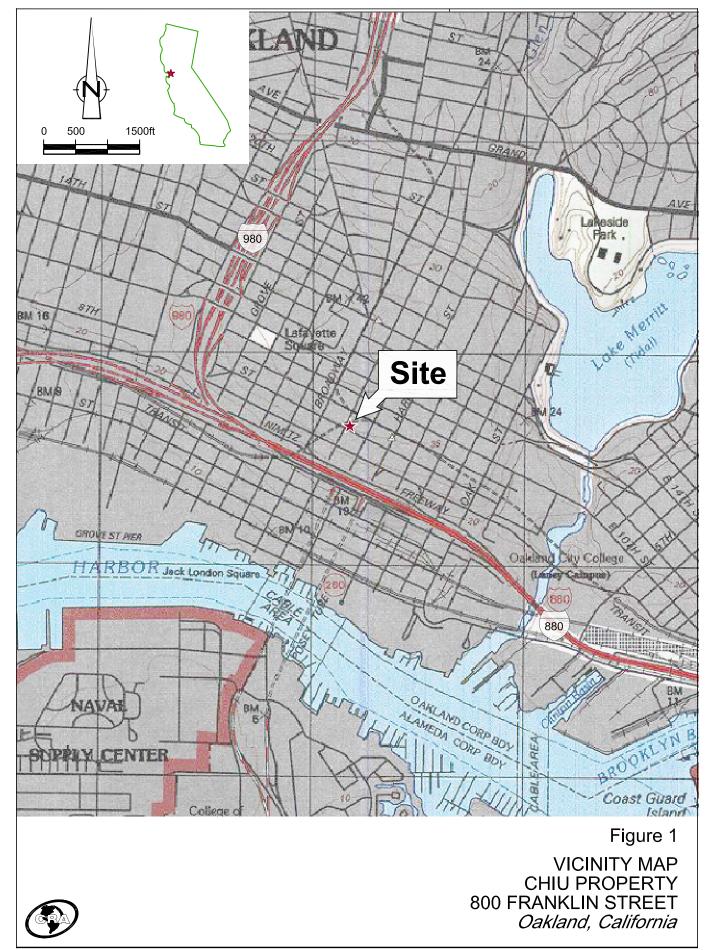
Bryan A. Fong

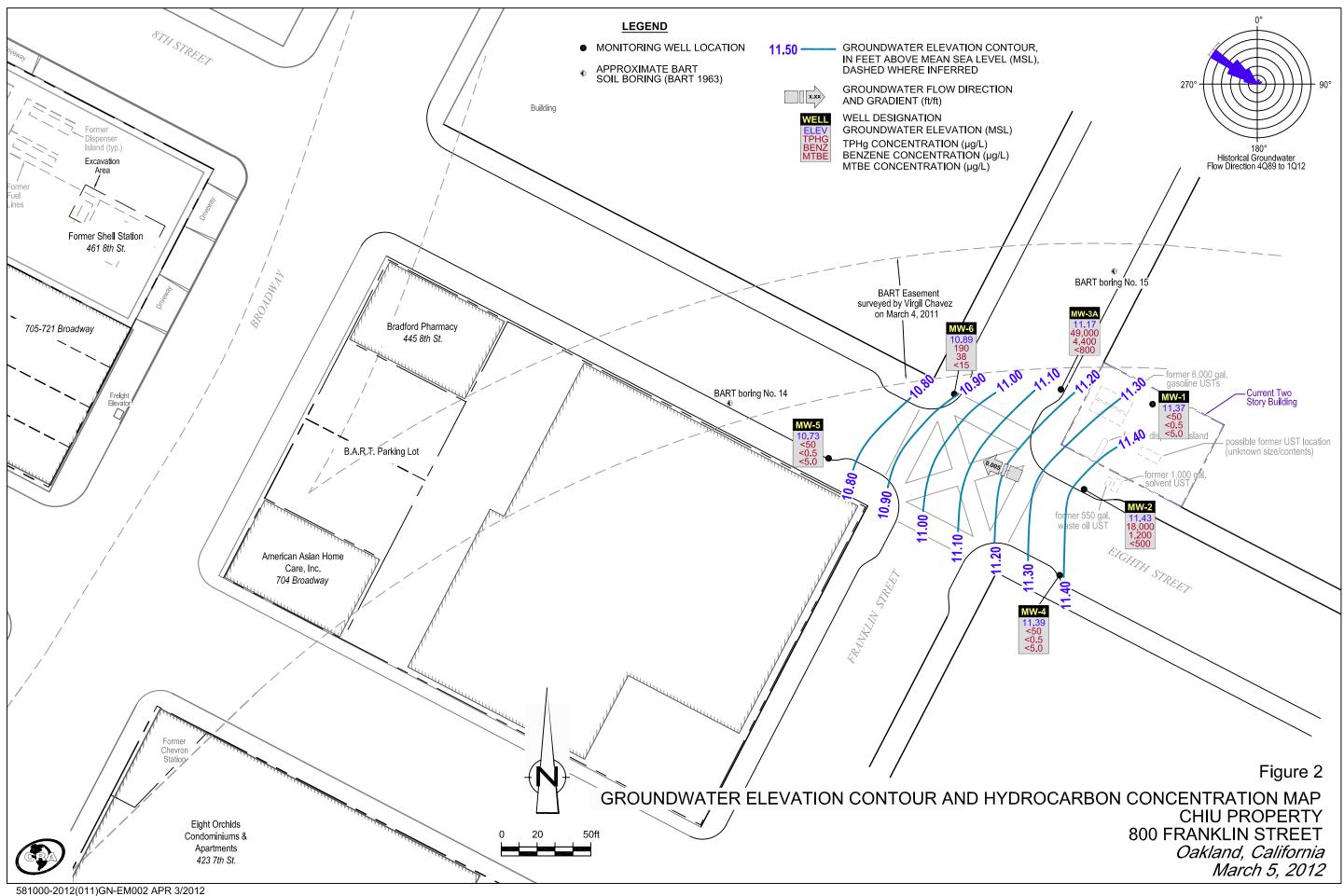
Robert Foss, P.G.



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FIGURES





TABLES

TABLE 1 Page 1 of 1

WELL CONSTRUCTION DETAILS CHIU PROPERTY 800 FRANKLIN STREET OAKLAND, CALIFORNIA

Well ID	Date Installed	Borehole Depth (ft)	Borehole Diameter (in)	Casing Diameter (in)	Screen Interval (ft bgs)	Screen Size (in)	Filter Pack (ft bgs)	Bentonite Seal (ft bgs)	Cement Seal (ft bgs)	TOC Elevation (ft msl)
MW-1	1989	35.0	8.0	2	20.0 - 35.0	0.010	18.0 - 35.0	16.0 - 18.0	0 - 16.0	33.42
MW-2	1989	35.0	8.0	2	20.0 - 35.0	0.010	18.0 - 35.0	16.0 - 18.0	0 - 16.0	33.66
	Installed: 1989									
MW-3*	Destroyed: 1/29/07	35.0	8.0	2	20.0 - 35.0	0.010	18.0 - 35.0	16.0 - 18.0	0 - 16.0	34.23
MW-3A	2/8/2007	35.0	10.0	4	20.0 - 35.0	0.010	19.0 - 35.0	17.0 - 19.0	0 - 17.0	34.16
MW-4	10/2/1991	35.0	8.0	2	20.0 - 35.0	0.010	18.0 - 35.0	-	0 - 18.0	33.64
MW-5	10/3/1991	35.0	8.0	2	20.0 - 35.0	0.010	18.0 - 35.0	-	0 - 18.0	33.56
MW-6	5/15/1997	35.0	8.0	2	14.5 - 36.25	0.010	14.5 - 36.25	12.5 - 14.5 (?)	0 - 12.5	33.98

Abbreviations / Notes

ft = feet

in = inches

ft bgs = feet below grade surface

ft msl = feet above mean sea level

TOC = top of casing

^{* =} Monitoring well MW-3 properly destroyed on January 29, 2007 by Cambria.

Well ID TOC Elevation (ft msl)	Date Sampled	Depth to Water (ft below TOC)	Groundwater Elevation (feet msl)	ТРНg	ТРНА	ТРНто	Benzene	Toluene	Ethylbenzene µg/L ——	Xylenes	МТВЕ	Chloroform	1,2-DCA →
			·						. 0				
MW-1	10/12/1989	22.87	10.55	ND			ND	ND	ND	ND		0.8	8.6
33.42	10/31/1991			630	960	1,700	3.2	ND<0.5	ND<0.5	130			0.0098
34.89	10/21/1992	23.48	11.41	520			78	38	ND<0.5	120			ND
	2/25/1993	22.51	12.38	1,600			160	190	34	350			
	4/27/1993	22.36	12.53	380			5.2	ND<0.5	ND<0.5	74			
	10/7/1993		12.10	1,000			81	150	47	230			
33.98	3/28/1994		11.91	460			14	25	14	39			
	4/29/1994												
	6/10/1994		11.66										
	7/8/1994		11.62										
	7/26/1994		11.48										
	8/25/1994		11.47										
	10/27/1994	22.51	11.47	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5			
	1/6/1995		12.08										
	2/1/1995		12.79										
	3/29/1995		12.75										
	10/31/1995		12.48	1,400			15	38	49	510	19		
	5/21/1997		12.49	150			2.9	1.5	8.6	26	ND<5.0		
	8/10/2004	23.35	10.63	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	9/28/2004É												
	12/21/2004	22.93	11.05	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	3/11/2005É												
	6/16/2005	20.68	13.30	ND<50			0.64	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	9/1/2005	20.74	13.24	ND<50			1.2	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	12/16/2005	20.95	13.03	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	3/10/2006	20.34	13.64	ND<50			0.60	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	9/15/2006	21.51	12.47	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	6.4	ND<0.5
	3/8/2007	21.81	12.17	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	0.72	ND<0.5	ND<5.0	6.9	ND<0.5
	9/17/2007	22.08	11.90	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	2.3	ND<0.5	ND<0.5	4.7	ND<0.5
	3/4/2008	21.72	12.26	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.3	ND<0.5
	9/3/2008	22.70	11.28	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.98	ND<0.5
	3/4/2009	22.49	11.49	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.65
				ND<50		ND<250						ND<0.5	0.65 ND<0.5
	9/8/2009	22.80	11.18		ND<50		ND<0.5 (ND<0.5)	ND<0.5 (ND<0.5)	ND<0.5 (ND<0.5)	ND<0.5 (ND<0.5)	ND<0.5 (ND<0.5)		
	3/19/2010	22.25	11.73	ND<50	ND<50		(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	ND<0.5	0.58
	9/3/2010	22.51	11.47	ND<50	ND<50		(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	1.2	ND<0.5
	3/4/2011	22.10	11.88	ND<50	ND<50		(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	ND<0.5	ND<0.5
	8/22/2011	22.23	11.75	ND<50	ND<50		(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	ND<0.5	ND<0.5
	3/5/2012	22.61	11.37	ND<50	ND<50		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
MW-2	10/12/1989	23.25	10.40	38,000		3,900	1,300	1,200	ND	4,700			
33.66	10/31/1991			10,000	1,500		1,800	1,200	270	960			0.17
	11/6/1991	24.02	9.64										
	10/21/1992	22.42	11.24	270,000			9,700	4,500	9,600	56,000			15.4
	2/25/1993	21.50	12.16	49,000			4,300	11,000	1,300	9,100			
	4/27/1993	21.26	12.40	39,000			1,400	4,000	220	5,200			

Well ID TOC Elevation (ft msl)	Date Sampled	Depth to Water (ft below TOC)	Groundwater Elevation (feet msl)	TPHg ←	TPHd	ТРНто	Benzene	Toluene	Ethylbenzene µg/L ———	Xylenes	МТВЕ	Chloroform	1,2-DCA →
MW-2 (cont.)	10/7/1993		12.04	50,000			2,700	8,100	940	7,800			
	3/28/1994		11.88	20,000			360	1,300	220	1,800			
	4/29/1994		11.87										
	6/10/1994		11.44										
	7/8/1994		11.42										
	7/26/1994		11.22										
	8/25/1994		11.01										
	10/27/1994	22.66	11.00	21,000			1,200	3,700	600	4,300			
	1/6/1995		11.66										
	2/1/1995		12.21										
	3/29/1995		12.66	45.000			2.100		1.200	0.400			
	10/31/1995		11.51	45,000			3,100	8,800	1,200	8,400	810		
	5/21/1997	21.02	12.65	18,000			1,400	4,200 4,900	680	3,600	370 ND<500		
	8/10/2004 9/28/2004	21.03 22.95	12.63 10.71	47,000 (a)			4,200		1,400	6,000	ND<500		
	12/21/2004	20.91	12.75	13,000 (a)			 500	310	 34	1600	ND<100		
	3/11/2005	11.35	22.31	32,000 (a)			970	2,400	890	4,200	ND<1,000		
	6/16/2005	20.50	13.16	43,000 (a,i)			1,500	3,400	1,200	5,400	ND<1,000		
				, ,									
	9/1/2005	20.60	13.06	20,000 (a)			640	1,700	460	2,200	ND<200		
	12/16/2005	20.83	12.83	32,000 (a,i)			1,000	3,100	760	3,800	ND<500		
	3/10/2006	20.05	13.61	20,000 (a)			460	1,900	440	2,400	ND<400		
	9/15/2006	21.31	12.35	43,000 (a)	3,100 (d)	ND<250	1,600	4,400	1,100	5,100	ND<500	16	ND<10
	3/8/2007	21.62	12.04	30,000 (a,h)	4,600 (d,h)	ND<1,200	1,200	3,400	890	4,500	ND<500	ND<50	ND<50 (j,h)
	9/17/2007	21.92	11.74	31,000 (a)	6,600 (d,b)	340	790	3,000	700	3,100	ND<100	ND<100	ND<100
	3/4/2008												
	9/3/2008	22.50	11.16	46,000 (a)	5,100 (d)	370	1,700	8,600	1,400	7,500	ND<250	ND<250	ND<250
	3/4/2009	22.25	11.41	56,000 (a)	13,000 (d)	1,100	1,500	5,300	990	4,500	ND<10	ND<10	ND<10
	9/8/2009	22.60	11.06	42,000 (a)	11,000 (d)	1,200	1,400 (1,200)	5,200 (4,900)	970 (890)	5500 (4,900)	ND<100 (ND<100)	ND<0.5	ND<100
33.75	3/19/2010 **	21.96	11.70	30,000 (a,h)	12,000 (d,h)		(1,000)	(3,500)	(980)	(4,500)	(ND<50)	ND<5.0	ND<5.0
	9/3/2010	22.30	11.45	9,500 (a)	1,500 (d)		(320)	(290)	(140)	(970)	(ND<12)	ND<12	ND<12
	3/4/2011	21.85	11.90	12,000 (a)	2,200 (d)		(610)	(430)	(290)	(1,400)	(ND<25)	ND<25	ND<25
	8/22/2011 3/5/2012	22.04 22.32	11.71 11.43	7,900 (a) 18,000(a)	1,300 (d) 1,400 (d)		(320) 1,200	(270) 930	(170) 560	(1,400) 2,100	(ND<12) ND<500	ND<0.5	ND<12
	3/3/2012	22.32	11.43	10,000(a)	1,400 (u)		1,200	930	300	2,100	ND\300		
MW-3	10/12/1989	24.02	10.21	87,000		4,500	3,200	8,800	ND	6,500			70.0
34.23	10/31/1991			310,000	25,000		9,300	25,000	5,600	27,000			0.058
	11/6/1991	23.52	10.71										
	10/21/1992	23.32	10.91	22,000			10,000	4,300	790	2,100			ND
	2/25/1993	22.51	11.72	29,000			8,400	5,400	1,300	3,300			
	4/27/1993	22.37	11.86	50,000			8,200	8,700	1,000	5,400			
	10/7/1993		14.19	1,700			3,100	3,700	400	1,700			
	3/28/1994		11.52	53,000			3,900	4,600	710	2,500			
	4/29/1994		11.34										
	6/10/1994		11.13										

Well ID TOC Elevation (ft msl)	Date Sampled	Depth to Water (ft below TOC)	Groundwater Elevation (feet msl)	TPHg ←	TPHd	ТРНто	Benzene	Toluene 	Ethylbenzene µg/L ———	Xylenes	MTBE	Chloroform	1,2-DCA →
MIAI 2 (sent)	T /0 /4004		44.00										
MW-3 (cont.)	7/8/1994		11.09								-		
	7/26/1994		10.94										
	8/25/1994		10.80				2 700	2.500		2 000			
	10/27/1994	23.56	10.67	8,500			2,700	2,700	490	2,000			
	1/6/1995		11.33										
	2/1/1995		11.79										
	3/29/1995		12.10										
	10/31/1995		11.23	19,000			4,400	4,600	720	2,900	410		
	5/21/1997		11.68	4,000			810	840	190	690	ND<100		
	9/28/2004						U	able to measure depth to w	,				
	12/21/2004							able to measure depth to w					
	3/11/2005						Well is damaged. Ur	able to measure depth to w	vater or collect sample.				
	6/16/2005						Well is damaged. Ur	able to measure depth to w	vater or collect sample.				
	9/1/2005						Well is damaged. Ur	able to measure depth to w	vater or collect sample.				
	12/16/2005						Well is damaged. Ur	able to measure depth to w	vater or collect sample.				
	3/10/2006						Well is damaged. Ur	able to measure depth to w	vater or collect sample.				
	9/15/2006						Well is damaged. Ur	able to measure depth to w	pater or collect sample.				
	1/29/2007							l properly destroyed by Can					
MW-3A	1/29/2007							MW-3A replaces MW-3	3				
34.16	3/8/2007	22.42	11.74	30,000 (a,i)	1,700 (d,i)	ND<250	2,600	4,400	710	4,600	ND<1,000	ND<50	ND<50 (j)
	9/17/2007	22.65	11.51	9,800 (a)	980 (d)	ND<250	1,100	1,800	270	1,100	ND<25	ND<25	ND<25
	3/4/2008	22.31	11.85	21,000 (a,i)	1,700 (d,i)	ND<250	2,600	5,000	810	3,500	ND<50	ND<50	ND<50
	9/3/2008	23.11	11.05	13,000 (a)	880 (d)	ND<250	1,400	2,100	370	1,500	ND<50	ND<50	ND<50
	3/4/2009	22.98	11.18	12,000 (a)	810 (d)	ND<250	1,000	1,700	330	1,200	ND<5.0	7.9	7.2
	9/8/2009	23.25	10.91	8,900 (a)	780 (d)	ND<250	870 (830)	1300 (1,200)	260 (200)	1100 (880)	ND<25 (ND<25)	6.3	ND<25
	3/19/2010	22.79	11.37	16,000 (a)	1,700 (d)		(1,900)	(3,200)	(620)	(2,800)	(ND<50)	ND<5.0	10
	9/3/2010	23.02	11.14	35,000 (a)	1,600 (d)		(5,300)	(6,500)	(1,100)	(5,100)	(ND<120)	ND<120	ND<120
	3/4/2011	22.60	11.56	35,000 (a)	3,300 (d)		(5,000)	(6,400)	(1,900)	(8,800)	(ND<100)	ND<100	ND<100
	8/22/2011	22.71	11.45	42,000 (a)	2,700 (d)		(5,700)	(6,300)	(1,800)	(7,800)	(ND<120)	ND<0.5	ND<120
	3/5/2012	22.99	11.17	49,000(a)	1500 (d)		4,400	2,800	1,900	8,200	ND<800		
MW-4	10/31/1991			ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5		2.6	ND
33.64	11/6/1991	23.32	10.32										
	10/21/1992	22.10	11.54	410			3.1	29	6.8	47			ND
	2/25/1993	21.13	12.51	170			ND<0.5	ND<0.5	ND<0.5	ND<0.5			
	4/27/1993	20.74	12.90	100			ND<0.5	ND<0.5	ND<0.5	0.9			
	10/7/1993		12.52	240			ND<0.5	ND<0.5	ND<0.5	ND<0.5			
	3/28/1994		12.34	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5			
	4/29/1994		11.33										
	6/10/1994		11.55										
	7/8/1994		11.54										
	7/26/1994		11.30										
	8/25/1994		11.09										
	10/27/1994	22.69	10.95	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5			

Well ID TOC Elevation (ft msl)	Date Sampled	Depth to Water (ft below TOC)	Groundwater Elevation (feet msl)	ТРНg ←	ТРНА	ТРНто	Benzene	Toluene 	Ethylbenzene µg/L ———	Xylenes	МТВЕ	Chloroform	1,2-DCA →
MW-4 (cont.)	1/6/1995		11.70										
	2/1/1995		12.34										
	3/29/1995		12.76										
	10/31/1995		11.61	80			ND<0.5	0.6	ND<0.5	1.0	ND<0.5		
	5/21/1997		12.08	ND<50			11	120	27	180	ND<5.0		
	9/28/2004	22.72	10.92	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	12/21/2004	20.65	12.99	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	3/11/2005	20.20	13.44	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	6/16/2005	20.38	13.26	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	9/1/2005	20.48	13.16	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	12/16/2005	20.78	12.86	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	3/10/2006	19.81	13.83	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	9/15/2006	21.16	12.48	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	28	ND<0.5
	3/8/2007	21.52	12.12	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	23	ND<0.5
	9/17/2007	21.84	11.80	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	18	ND<0.5
	3/4/2008	21.41	12.23	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	ND<0.5
	9/3/2008	22.50	11.14	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	ND<0.5
	3/4/2009	22.15	11.49	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	14	ND<0.5
	9/8/2009	22.56	11.08	ND<50	ND<50	ND<250	ND<0.5 (ND<0.5)	ND<0.5 (ND<0.5)	ND<0.5 (ND<0.5)	ND<0.5 (ND<0.5)	ND<0.5 (ND<0.5)	11	ND<0.5
33.73	3/19/2010*	21.88	11.76	ND<50	ND<50		(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	10	ND<0.5
	9/3/2010	22.21	11.52	ND<50	ND<50		(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	ND<0.5	ND<0.5
	3/4/2011	21.78	11.95	ND<50	ND<50		(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	1.0	ND<0.5
	8/22/2011	21.92	11.81	ND<50	ND<50		(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	ND<0.5	ND<0.5
	3/5/2012	22.34	11.39	ND<50	ND<50	-	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	-
MW-5	10/31/1991			ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5		1.1	
33.51	11/6/1991	24.00	9.51	ND			ND	ND	ND	ND			
	10/21/1992	23.24	10.27	840			17	120	39	180			
33.56	2/25/1993	22.40	11.16	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5			
	4/27/1993	22.15	11.41	260			53	19	1.2	2.4			
	10/7/1993		11.06	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5			
	3/28/1994		10.95	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5			
	4/29/1994		10.91										
	6/10/1994		10.68										
	7/8/1994		10.60										
	7/26/1994		10.45										
	8/25/1994		10.28										
	10/27/1994	23.50	10.06	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5			
	1/6/1995		10.78										
	2/1/1995		11.25										
	3/29/1995		11.63										
	10/31/1995		10.64	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5		
	5/21/1997		11.04	260			2.4	33	7.7	56	ND<5.0		
	9/28/2004	23.70	9.86	ND<50			ND<0.5	ND<0.5	ND<0.5	1.5	ND<5.0		
	12/21/2004	21.40	12.16	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		

Well ID	D (C 1 1	D 41 W 1	Groundwater	TDII	TDII I	TDII		m 1	nd #	v. 1	1 (TEDE	C1.1 6	4.2 D.C.4
TOC Elevation (ft msl)	Date Sampled	Depth to Water (ft below TOC)	Elevation (feet msl)	TPHg ←	ТРНА	ТРНто	Benzene	Toluene ———	Ethylbenzene μg/L ——	Xylenes	MTBE	Chloroform	1,2-DCA →
	2/11/2005			1772 #0			1777 0.5	17D 0.5	. 0) TD -0 =			
MW-5 (cont.)	3/11/2005	21.40	12.16	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	6/16/2005	21.63	11.93	ND<50 (i)			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	9/1/2005	21.65	11.91	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	12/16/2005	21.94	11.62	ND<50 (i)			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	3/10/2006	21.11	12.45	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	9/15/2006	22.20	11.36	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	10	ND<0.5
	3/8/2007	22.44	11.12	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	18	ND<0.5
	9/17/2007	22.73	10.83	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	14	ND<0.5
	3/4/2008	22.32	11.24	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	19	ND<0.5
	9/3/2008	23.13	10.43	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17	ND<0.5
	3/4/2009	22.95	10.61	ND<50	ND<50	ND<250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	14	ND<0.5
	9/8/2009	23.21	10.35	ND<50	ND<50	ND<250	ND<0.5 (ND<0.5)	ND<0.5 (ND<0.5)	ND<0.5 (ND<0.5)	ND<0.5 (ND<0.5)	ND<0.5 (ND<0.5)	11	ND<0.5
33.67	3/19/2010 *	22.72	10.84	ND<50	ND<50		(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	14	ND<0.5
	9/3/2010	23.03	10.64	ND<50	ND<50		(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	7.2	ND<0.5
	3/4/2011	22.60	11.07	ND<50	ND<50		(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	3.4	ND<0.5
	8/22/2011	22.63	11.04	ND<50	ND<50		(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	(ND<0.5)	1.9	ND<0.5
	3/5/2012	22.94	10.73	ND<50	ND<50		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	-	
MW-6	5/21/1997		11.26	760			2.5	1.7	ND<0.50	25	10		
33.98	9/28/2004	24.00	9.98	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	12/21/2004	21.61	12.37	ND<50			ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0		
	3/11/2005	21.60	12.38	340 (a)			1.9	2.6	0.68	0.61	ND<5.0		
	6/16/2005	21.81	12.17	1,300 (a)			58	8.3	6.1	4.0	ND<25		
	9/1/2005	21.82	12.16	1,900 (a)			150	19	18	76	ND<12		
	12/16/2005	22.03	11.95	3,600 (a,i)			560	63	33	230	ND<50		
	3/10/2006	21.46	12.52	2,200 (a)			240	10	20	87	ND<50		
	9/15/2006	22.46	11.52	1,800 (a)	480 (d)	ND<250	10	6.7	9.9	42	ND<17	3.2	ND<0.5
	3/8/2007	22.64	11.34	4,300 (a)	890 (d)	ND<250	260	36	29	140	ND<60	ND<10	ND<10 (j)
	9/17/2007	22.88	11.10	7,000 (a)	970 (d)	ND<250	760	28	46	270	ND<10	ND<10	ND<10
	3/4/2008	22.51	11.47	400 (a)	74 (d)	ND<250	46	ND<1.0	1.0	6.0	ND<1.0	ND<1.0	ND<1.0
	9/3/2008	23.24	10.74	280 (a)	69 (d, b)	ND<250	2.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	3/4/2009	23.14	10.84	670 (a)	150 (d)	ND<250	68	13	ND<2.5	12	ND<2.5	ND<2.5	ND<2.5
	9/8/2009	23.38	10.60	8,000 (a)	1,400 (d)	ND<250	870 (770)	16 (ND<12)	34 (17)	1500 (1,200)	ND<12 (ND<12)	ND<0.5	ND<12
34.05	3/19/2010 *	22.93	11.05	8,900 (a)	1,200 (d)		(2,900)	(ND<100)	(ND<100)	(ND<100)	(ND<5.0)	ND<5.0	15
	9/3/2010	23.19	10.86	4,600 (a)	710 (d)		(1,500)	(33)	(35)	(79)	(ND<25)	ND<25	ND<25
	3/4/2011	22.78	11.27	3,700 (a)	410 (d)		(1,300)	(170)	(70)	(200)	(ND<25)	ND<25	ND<25
	8/22/2011	22.85	11.20	490 (a)	120 (b,d)		(190)	(ND<5.0)	(ND<5.0)	(ND<5.0)	(ND<5.0)	0.86	ND<5.0
	3/5/2012	23.16	10.89	190 (a)	65 (b,d)		38	2.7	1.4	7.3	ND<15	-	-
Grab Groundwater													
B-7	3/11/2011			ND<50 (i)			ND<0.5	ND<0.5	ND<0.5	ND<0.5			
B-8	3/11/2011			ND<50 (i)			ND<0.5	ND<0.5	ND<0.5	ND<0.5			
B-9	3/12/2011			ND<50 (i)			ND<0.5	3.0	ND<0.5	ND<0.5			
~ ~	0, 12, 2011	-	_	142 (1)	_		142 10.0	5.0	142 10.0	142 70.0			-

TABLE 2 Page 6 of 6

GROUNDWATER ANALYTICAL AND ELEVATION DATA: PETROLEUM HYDROCARBONS CHIU PROPERTY 800 FRANKLIN STREET OAKLAND, CALIFORNIA

Well ID			Groundwater										
TOC Elevation	Date Sampled	Depth to Water	Elevation	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Chloroform	1,2-DCA
(ft msl)		(ft below TOC)	(feet msl)	←					μg/L ——				→

Abbreviations and Notes:

TOC Elevation = Top of well casing elevation measured in feet above mean sea level

msl = Above mean sea level

 $\mu g/L$ = Micrograms per liter

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

TPHd = Total petroleum hydrocarbons as diesel by EPA Method SW8015C with silica gel cleanup.

TPHmo = Total petroleum hydrocarbons as motor oil by EPA Method SW8015C with silica gel cleanup.

Benzene, toluene, ethylbenzene, and xylenes by EPA Method SW8021B (SW8260B).

MTBE = Methyl tertiary-butyl ether by EPA Method SW8021B by (8260B)

Chloroform by EPA Method SW8260B.

1,2-DCA = 1,2-Dichloroethane by EPA Method SW8260B.

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

Field = Observed in the field.

Lab = Observed in analytical laboratory.

- (a) = unmodified or weakly modified gasoline is significant
- (b) = diesel range compounds are significant; no recognizable pattern
- (d) = gasoline range compounds are significant
- (h) = lighter than water immiscible sheen/product is present
- (i) = liquid sample that contains ~1 vol. % sediment
- (j) = sample diluted due to high organic content/matrix interference

ND<5.0 = Not detected above detection limit.

- -- = Not available, not analyzed, or not applicable
- * = Surveyed September 7, 2006; updated to table May 24, 2010
- ** = Surveyed March 8, 2007; updated to table May 24, 2010
- \acute{E} = Unable to access well due to denial by current tenant

APPENDIX A

STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

Conestoga-Rovers & Associates

STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND SAMPLING

This document presents standard field methods for groundwater monitoring, purging and sampling, and well development. These procedures are designed to comply with Federal, State and local regulatory guidelines. 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-noxTM or AlconoxTM followed by one rinse of clean tap water and then two rinses of distilled water.

Groundwater Purging and Sampling

Prior to groundwater purging and sampling, the historical analytical data of each monitoring well shall be reviewed to determine the order in which the wells should be purged and sampled (i.e. cleanest to dirtiest). No purging or groundwater sampling shall be performed on wells with a measurable thickness of NAPL or floating NAPL globules. If a sheen is observed, the well should be purged and a groundwater sample collected only if no NAPL is present.

Wells shall be purged 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 B

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Analytical Report

Conestoga-Rovers & Associates	Client Project ID: #581000; Chiu	Date Sampled: 03/05/12
5900 Hollis St, Suite A		Date Received: 03/05/12
5700 Homs St, Suite H	Client Contact: Bryan Fong	Date Reported: 03/09/12
Emeryville, CA 94608	Client P.O.:	Date Completed: 03/08/12

WorkOrder: 1203118

March 09, 2012

Dear Bryan:

Enclosed within are:

- 1) The results of the 6 analyzed samples from your project: #581000; Chiu,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

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.

The analytical results relate only to the items tested.



McCampbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701 www.mccampbell.com / main@mccampbell.com Telephone: (877) 252-9262 / Fax: (925) 252-9269

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	Telephone:	(877) 25	52-9262 /	Fax:	(925)	252	-926	59												ς,		Che	eck	if sa	mp	le is	effl	luen	t an	id ".	J" flag	g is required
Report To: Br	Van For	c	В	ill To	: Co	ne	sta	ga-	-Ro	ver	SE	PS	550	10	es				A	nal	ysis	Rec	ues	t						0	ther	Comments
Company: (57 59 E	1000 100 Ho 112 1000 1000	Rove 15 St 1e, CA	S & /5 N. , S \ E F	-SS -Mai ax: (rojec	I: +k	ir R	050	era Ber	WA?	16	\$- (.6	m		+ 8015)/MTBE		647.5520 E/B&F)	(18.1)	OCs)	(8021)	0	oclors / Congeners		ides)			(As)	10 / 6020)	200.8 / 6010 / 6020)		etals analysis	0928 19	**Indicate here if these samples are potentially dangerous to handle:
Project Location: Sampler Signatur	SOU TION	KIIN	34.	90	Mar	-Oh	Lin	_	1	,				8021	15	se (16	908 (4	€	602	icides	i. Ar	3	lerbio	(s)	CS	S/PN	8 / 60	09/3	020)	CD m	w	nandic.
Sampler Organica	- Masan		PLING	as m		1	MA	TR	IX		ME			s (602 /	25	& Great	Irocarb	8010 / 8021 (HVOCs)	Y (EPA	(Cl Pest	NO S.	Pesticid	die CLH	90 (VOC	0.000	0 (PAH	7 / 200.8 / 6010 /		200.8 / 6010 / 6020)	SOLVE	18	
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers		Soil	Air	Sludge	ICE	HCL	HNO,	Other	BTEX & TPH as Ga	TPH as Diesel (8015)	Total Petroleum Oil	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 801	MTBE / BTEX ONLY (EPA 602 / 8021	EPA 505/ 608 / 8081 (C1 Pesticides	EPA 608 / 8082 PCB's ONLY;	EPA 507 / 8141 (NP Pesticides)	EPA 5157-8151 (Acidic Cl Herbicides)	EPA 524,2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7	LUFT 5 Metals (200.7 /	Lead (200.7 / 200.8 /	Filter sample for DISSOLVED metals analysis	Carpiron M	
WH-1 ,		3/5/12	10:42	3	AND	X				k	X			×	X																X	
WH-5.			07:30	1	1					1	11			1																		
MN-3A			06:31																													•
WTTA .			02:55								Ш																					
MH-S .			04:09			1				1	11			A																		
WM-P.		4	05:26	1	1	1				1	1 }	•		M	1																×	
**MAI clients MUST gloved, open air, samp	de bandling by ?	igerous che MAI staff.	emicals kno Non-disclo	wn to sure in	be pre	sent n im	in th	eir s ate S	ubmi 3250 s	tted	sam harg	ples e an	in co	once clie	ntra nt is	tions subj	that	may full	caus legal	e imi liab	nedia	ite ha	ırm ırm	or se suffe	rious red.	s futu Tha	ire h	ealth ou fo	end or yo	ange ur ur	rment ; iderstai	as a result of brief, ading and for

Relinquished 85.	Date: 3/4/2	Time: 1235	Received By: 10000 V-6
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

HEAD SPACE ABSENT DECHLORINATED IN LAB

APPROPRIATE CONTAINERS PRESERVED IN LAB

VOAS O&G METALS OTHER PRESERVATION pH<2

Page 2 of 8

COMMENTS:

McCampbell Analytical, Inc.

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

1534 Willow Pass Rd (925) 252-9262

Pittsburg, CA 94565-1701 WorkOrder: 1203118 ClientCode: CETE □WaterTrax WriteOn **▼** EDF Excel ☐ Fax ✓ Email HardCopy ☐ ThirdParty Report to: Bill to: Requested TAT: 5 days bfong@craworld.com Bryan Fong Email: Accounts Payable tkirnan@craworld.com Conestoga-Rovers & Associates Conestoga-Rovers & Associates cc: Date Received: 03/05/2012 PO: 5900 Hollis St, Suite A 5900 Hollis St, Ste. A Emeryville, CA 94608 ProjectNo: #581000; Chiu Emeryville, CA 94608 Date Printed: 03/05/2012 (510) 420-3369 FAX: (510) 420-9170 Requested Tests (See legend below)

Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
						,										,
1203118-001	MW-1	Water	3/5/2012 10:42		Α	Α	В									
1203118-002	MW-2	Water	3/5/2012 7:39		Α		В									
1203118-003	MW-3A	Water	3/5/2012 6:31		Α		В									
1203118-004	MW-4	Water	3/5/2012 2:55		Α		В									
1203118-005	MW-5	Water	3/5/2012 4:09		Α		В									
1203118-006	MW-6	Water	3/5/2012 5:26		Α		В									
							•									

Test Legend:

1 G-MBTEX_W	2 PREDF REPORT	3 TPH(D)WSG_W	4	5
6	7	8	9	10
11	12			

Prepared by: Maria Venegas

Comments:

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

Comments:

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

	•	ers & Associates				10 Time Received: 3/5/2012 12	2:51:28 PW
Project Name:	#581000; Chiu				Checkli	st completed and reviewed by:	Maria Venegas
WorkOrder N°:	1203118	Matrix: Water			Carrier:	Client Drop-In	
		<u>Ch</u>	ain of Cı	ustody (COC) Informati	<u>on</u>	
Chain of custody	present?		Yes	✓	No 🗌		
Chain of custody	signed when relir	nquished and received?	Yes	✓	No 🗌		
Chain of custody	agrees with samp	ole labels?	Yes	✓	No 🗌		
Sample IDs note	d by Client on CO	C?	Yes	✓	No 🗌		
Date and Time of	f collection noted	by Client on COC?	Yes	✓	No 🗌		
Sampler's name	noted on COC?		Yes	•	No 🗌		
			Sample	e Receip	ot Information		
Custody seals int	tact on shipping c	ontainer/cooler?	Yes		No 🗌	NA 🗸	
Shipping contain	er/cooler in good	condition?	Yes	✓	No 🗌		
Samples in prope	er containers/bottl	es?	Yes	✓	No \square		
Sample containe	rs intact?		Yes	✓	No 🗌		
Sufficient sample	e volume for indica	ated test?	Yes	•	No 🗌		
		Sample Pre	servatio	n and H	old Time (HT) I	nformation	
All samples recei	ived within holding	g time?	Yes	✓	No 🗌		
Container/Temp	Blank temperature	е	Coole	er Temp:	4.6°C	NA 🗌	
Water - VOA vial	s have zero head	space / no bubbles?	Yes	✓	No 🗌 🛚 I	No VOA vials submitted \Box	
Sample labels ch	necked for correct	preservation?	Yes	✓	No 🗌		
Metal - pH accep	table upon receip	t (pH<2)?	Yes		No 🗌	NA 🗸	
Samples Receive	ed on Ice?		Yes	✓	No 🗌		
		(Ice Ty	rpe: WE	T ICE)		
* NOTE: If the "N	lo" box is checked	d, see comments below.					

Conestoga-Rovers & Associates	Client Project ID: #581000; Chiu	Date Sampled:	03/05/12
5900 Hollis St, Suite A		Date Received:	03/05/12
	Client Contact: Bryan Fong	Date Extracted:	03/07/12-03/08/12
Emeryville, CA 94608	Client P.O.:	Date Analyzed:	03/07/12-03/08/12

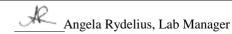
Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extracti	on method: SW5030B			Analyti	ical methods:	SW8021B/8015I	3m		Wor	rk Order:	1203118
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	MW-1	W	ND	ND	ND	ND	ND	ND	1	104	
002A	MW-2	W	18,000	ND<500	1200	930	560	2100	100	105	d1
003A	MW-3A	W	49,000	ND<800	4400	2800	1900	8200	100	105	d1
004A	MW-4	W	ND	ND	ND	ND	ND	ND	1	104	
005A	MW-5	W	ND	ND	ND	ND	ND	ND	1	106	
006A	MW-6	W	190	ND<15	38	2.7	1.4	7.3	1	121	d1
			•					_			
	orting Limit for DF =1; neans not detected at or	W	50	5.0	0.5	0.5	0.5	0.5		μg/I	
	ove the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005		mg/K	Cg

above the reporting inini			0.00		0.000		0.000	88
* water and vapor samples are repo SPLP extracts in mg/L.	orted in u	g/L, soil/sludge/solic	d samples in m	g/kg, wipe sa	nples in μg/wi	pe, product/oil/	non-aqueous li	quid samples and all TCLP &

[#] 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



Conestoga-Rovers & Associates	Client Project ID: #581000; Chiu	Date Sampled: 03/05/12
5900 Hollis St, Suite A		Date Received: 03/05/12
	Client Contact: Bryan Fong	Date Extracted 03/05/12
Emeryville, CA 94608	Client P.O.:	Date Analyzed 03/05/12-03/07/12

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW:	ethod: SW3510C/3630C		eal methods: SW8015B	Work Order: 1203		er: 1203118
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1203118-001B	MW-1	W	ND	1	94	
1203118-002B	MW-2	W	1400	1	94	e4
1203118-003B	MW-3A	W	1500	1	113	e4
1203118-004B	MW-4	W	ND	1	94	
1203118-005B	MW-5	W	ND	1	98	
1203118-006B	MW-6	W	65	1	93	e4,e2

Reporting Limit for DF =1; ND means not detected at or	W	50	μg/L
above the reporting limit	S	NA	NA

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

%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: e2) diesel range compounds are significant; no recognizable pattern e4) gasoline range compounds are significant.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract/matrix interference.

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 65440 WorkOrder: 1203118

EPA Method: SW8021B/8015Bm Extraction: SW5030B Spiked Sample ID: 1203091-005A												
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)			
, way to	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS			
TPH(btex) [£]	ND	60	76.7	76.3	0.540	74.9	70 - 130	20	70 - 130			
MTBE	ND	10	108	113	5.33	111	70 - 130	20	70 - 130			
Benzene	ND	10	93.4	99.3	6.17	96.5	70 - 130	20	70 - 130			
Toluene	ND	10	96.7	103	6.19	100	70 - 130	20	70 - 130			
Ethylbenzene	ND	10	101	109	6.86	106	70 - 130	20	70 - 130			
Xylenes	ND	30	101	107	6.42	104	70 - 130	20	70 - 130			
%SS:	103	10	88	88	0	88	70 - 130	20	70 - 130			

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

BATCH 65440 SUMMARY

La	b ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
12	03118-001A	03/05/12 10:42 AM	03/07/12	03/07/12 2:46 AM	1203118-002A	03/05/12 7:39 AM	03/07/12	03/07/12 6:25 AM
12	03118-003A	03/05/12 6:31 AM	03/07/12	03/07/12 6:54 AM	1203118-004A	03/05/12 2:55 AM	03/07/12	03/07/12 3:16 AM
12	03118-005A	03/05/12 4:09 AM	03/07/12	03/07/12 3:45 AM	1203118-006A	03/05/12 5:26 AM	03/08/12	03/08/12 3:37 AM

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

QA/QC Officer

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 65464 WorkOrder: 1203118

EPA Method: SW8015B Extraction: S	Extraction: SW3510C/3630C							Spiked Sample ID: N/A				
Analyte	Sample Spiked MS MSD MS-		MS-MSD LCS		Acceptance Criteria (%)							
,	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS			
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	104	N/A	N/A	70 - 130			
%SS:	N/A	625	N/A	N/A	N/A	90	N/A	N/A	70 - 130			

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

BATCH 65464 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203118-001B	03/05/12 10:42 AM	03/05/12	03/06/12 2:13 AM	1203118-002B	03/05/12 7:39 AM	03/05/12	03/05/12 11:59 PM
1203118-003B	03/05/12 6:31 AM	03/05/12	03/07/12 1:58 AM	1203118-004B	03/05/12 2:55 AM	03/05/12	03/05/12 9:45 PM
1203118-005B	03/05/12 4:09 AM	03/05/12	03/06/12 3:20 AM	1203118-006B	03/05/12 5:26 AM	03/05/12	03/05/12 10:52 PM

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

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

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

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

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer

DHS ELAP Certification 1644

APPENDIX C

FIELD DATA SHEETS



WELL GAUGING SHEET

Client:	Conestoga-F	Rovers and A	ssociates			P5/0f1
Site Address:	800 Frankli	n Street, Oak	dand, CA			
Date:	3/5/2012		escreptorado de los Estados escribidos escreptorados escribentes de la constanción de la constanción de la cons	Signature:	K	<i>5</i>
Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MU-1	10:25		22.61		33.35	
MH-3	07:19	MARKET CONTROL AND AND DESCRIPTION OF THE STREET OF THE ST	22.32	angental in demokratik pengengangan pengengan kanana dan kanana dan kanana dan kanana dan kanana dan kanana da	34.15	
MU-3/	706:14		22.99		3425	
MW-4	02:38		22.34	March College on the College of the	33,59	
MN-5	03:49		22.94		34.60	
MD-9	05:06	la	23.16		32.89	
						~



Date:		3/5/2012										
Client:		Conestoga-R	overs and A	Associates								
Site Addre	ss:	800 Franklin	Street, Oal	kland, CA								
									Well ID:	MNY		
			***					Well	Diameter:	211		
								Purgir	ng Device:	Peristaltic Pump		
								Sampling	g Method:	Perstaltic Pump		
						Total V	Well Depth	from top	of casing:	33.35		
				V	ater level	at the sta	rt of purge	from top	of casing:	22.60		
	Approximate depth of water intake on pump from top of casing: 27. 0											
			Î	1		I			l			
	Purged Rate	TEMP		COND.		DO	Drawdow n Water	Turbidity				
ГІМЕ:	(ml/min)	(Celsius)	pН	(μS/cm)	ORP (mV)		Level (ft)	(NTU)	Comment	S		
10:26	100						22.60					
10:29	100	16.5	7.28	1406	19	0.82	22.64	67				
10:32	100	16.7	7.21	1431	15	0.76	22.65	61				
10:35	100	168	7.18	1433	15	0.76	22.66	54				
10:38	100	16-9	7.17	1435		0.74	22.56					
10:41	100	16-9	7.16	1436	13	0.74	22.67	59				
									(*)			
			1									
		-										
		2										
									total pura	e volume = 1500 m		
Sample					1				parg	200		
D:	Date:		Time	Container	Туре	Preserva	tive	Analytes	Method			
	, ,			40 mL	VOA,			TPHd, TPHg,				
MW-1	3/5/1	2	10:42	1L Amb	er Glass	HC1		BTEX, MTBE	8015 8021			



Date:		3/5/2012										
Client:		Conestoga-R	overs and A	ssociates								
Site Addre	ess:	800 Franklir	n Street, Oak	tland, CA								
			W			AND THE PARTY OF T	***************************************		Well ID:	WM-5		
								Well	Diameter:	2"		
					The same of the sa					Peristaltic Pump		
	Sampling Method:											
and the state of t				and the second s		Total V	Well Depth	from top	of casing:	34.15		
	22.33											
	27.0											
	Purged						Drawdow					
TIME:	Rate (ml/min)	TEMP (Celsius)	pН	COND. (μS/cm)	ORP (mV)	DO (mg/L)	n Water Level (ft)	Turbidity (NTU)	Comments			
07:20	100						22.33		Comment			
07:23	100	17.6	7.18	1629	-22	1.11	22.35	40				
07:26	100	17.9	7.22	1511	-16	0.74	22.36	36				
07:29	100	18.1	7.24	1427	-8	0.62	22.38	41				
07:32	100	18.3	726	1415	-6	0.61	22.38	32				
07:35	100 18.3 7.26			1414	-4	0.61	22.39	35				
07:38	100	18.4	7.26	1413	-4	0.61	22.39	31				
			6									
									total purge	e volume = 1300 ml		
Sample ID:	Date:		Time	Container	Туре	Preserva	tive	Analytes	Method			
MH-2	3/5/1	2	07:39	40 mL	VOA,	HC1		TPHd, TPHg,	8015, 8021			
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Signature	. 18	3	4		



Date:		3/5/2012	•								
Client:		Conestoga-R	overs and A	ssociates							
Site Addre	ess:	800 Franklir	Street, Oak	land, CA		Aber Melhouse on auditors					184 Jun - 194 Jun 194 J
									Well ID:	ML	-3A
								Well l	Diameter:	4"	
									ng Device:		
								Sampling	g Method:	Perstalt	ic Pump
						Total V	Well Depth	from top	of casing:	34.	25
				W	ater level	at the sta	rt of purge	from top	of casing:	22-0	19
			Арг	oroximate o	depth of w	ater intak	e on pump	from top	of casing:	2	
										77 170K SM 150K SM 150K	
TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pН	COND. (µS/cm)	ORP (mV)	DO (mg/L)	Drawdow n Water Level (ft)	Turbidity (NTU)	Comment	S	*
06:15	100						22.99	-			
06:18	100	17.5	7.05	1190	-104	0.94	23.02	24	fine!	black	flake
06:21	100	17.7	7.02	1071	-96	0.81	23.02	19			
06:24	100	18.1	6.98	1060	-94		23.04	22			
06:27	100	18.3	6.97	1058	-94	0.71	23.06	21			
06:30	100	18.3	6.97	1057	-92	0.70	23.06	20			A CONTRACTOR OF THE PARTY OF TH
							-				
									total purg	e volume	=1500 ml
Sample ID:	Date:		Time	Container	Туре	Preserva	tive	Analytes	Method		
MU3F	3/5/1.	2	06:31	40 mL 1L Amb		HC1		TPHd, TPHg, BTEX, MTBE	8015, 8021	2	
							Signature		}		



Date:		3/5/2012										
Client:		Conestoga-R	overs and A	ssociates	(F)							
Site Addre	ess:	800 Franklir	n Street, Oak	land, CA				AWS NO SECTION AND ADDRESS.	essilvers and an entire control of the entir			
									Well ID:	MW-4 2"		
								Well I	Diameter:	2"		
	*							Purgir	ng Device:	Peristaltic Pump		
					**************************************			Sampling	g Method:	Perstaltic Pump		
					***************************************	Total V	Well Depth	from top	of casing:	33.59		
				W	ater level	at the sta	rt of purge	from top	of casing:	22.34		
			Approximate depth of water intake on pump from top of casing: 27.0									
							D 1					
	Purged Rate	TEMP		COND.		DO	Drawdow n Water	Turbidity				
TIME:	(ml/min)	(Celsius)	pH	(μS/cm)	ORP (mV)	(mg/L)	Level (ft)	(NTU)	Comments	S		
02:39	100						22.34	_				
02:42	100	17.9	6.85	920	109	1.04	22.35	19				
02:45	100	18-1	6.81	894	81	1.11	22.37	27				
02:48		18-1	6.79	880	67	1.11	22.37	31				
02:51	100	18.1	6.77	876	63	1.12	22.37					
02:54	100	18.1	6.77	876	63	1.14	22.38	34				
									total purg	e volume = /50 0 ml		
Sample												
ID:	Date:		Time	Container	Type	Preserva	tive	Analytes	Method			
		. =			VOA,			TPHd, TPHg,		-		
MH-4	3/5/1	2	02:55	1L Amb	er Glass	HC1			8015, 8021			
								0	1			
							Signature	: /	Y	9		



Date:		3/5/2012								
Client:		Conestoga-R	tovers and A	ssociates						
Site Addre	ess:	800 Franklin	n Street, Oak	tland, CA	Service Constitution			oko silinskom koluzeko koloniskom		
									Well ID:	MW-5
								Well	Diameter:	2"
								Purgii	ng Device:	Peristaltic Pump
								Samplin	g Method:	Perstaltic Pump
						Total '	Well Depth	from top	of casing:	34-60
				V	Vater level	at the sta	rt of purge	from top	of casing:	22.94
			Apr	oroximate						27.0
TO STATE OF										
over many of the second	Purged						Drawdow			
ГІМЕ:	Rate (ml/min)	TEMP (Celsius)	pН	COND. (μS/cm)	ORP (mV)	DO (mg/L)	n Water Level (ft)	Turbidity (NTU)	Comments	
03:50	100			(post exit)			2294	(1120)	Comment	,
03:53	100	16.7	7.72	408	-21	1.65	22.96	19		
03:56	100	16.9	7.51	415	-16	1.41	23-01	ai		
03:59	100	17.4	7.40	459	-13	1.29	23.01	24		
04:02		17.6	7.38	476	- 8	1.21	23.03	26		
04:05	100	17.7	7.36	477	-8	1.21	23.04	26		
04:08	100	17.9	7.36	478	-8	1.20	23.05	27		
			0.5							
	<u> </u>									
		1			-		-			4540
Sample									total purge	e volume = /800 m
D:	Date:		Time	Container	Type	Preserva	tive	Analytes	Method	
nderytennesses en										
M11-5	3/5/	7	04:09		VOA, per Glass	HC1		TPHd, TPHg,	8015, 8021	
1 1 / /	1 2/3//	C	07.01	I IL AIIIC	A Glass	11101		DIDA, WIDE	4	
									X	
							Signature	: 1/	1	N



Date:		3/5/2012							x				
Client:		Conestoga-R	overs and A	ssociates									
Site Addre	ess:	800 Franklir	n Street, Oak	land, CA									
									Well ID:	M2-6			
								Well	Diameter:	211			
										Peristaltic Pump			
			****					Sampling	g Method:	Perstaltic Pump			
						Total V	Well Depth	from top	of casing:	32.89			
		Water level at the start of purge from top of casing: 23.16											
		Approximate depth of water intake on pump from top of casing: 27-0											
	Purged Rate	TEMP		COND.		DO	Drawdow n Water	Turbidity					
TIME:	(ml/min)	(Celsius)	pН	(μS/cm)	ORP (mV)		Level (ft)	(NTU)	Comments	6			
05:07	100						23.16						
05:10	100	16.7	699	1570	-24	1.05	23.19	62					
05:13	100	17.2	6.92	1418	-18	0.92	23.19	41					
05:16	100	17.4	6.87	1656	-16	0.89	23.21	43					
05:19	100	17.6	6.87	1659	-14	0.84	23.22	46					
05:22	100	17.7	6.87	1661	-14		23.22	44					
95.25	100	17.7	6.87	1662	-12	0.83	23.22	42					
									total purg	e volume =/800 ml			
Sample	Data		Time	Comt	Т	Dwag	4:	A	Madle - I				
D:	Date:		Time	Container	Type	Preserva	uve	Analytes	ivietnod				
21.1	3/5/	10	05.21		VOA,	IIOI		TPHd, TPHg,					
NM-6)/>//	1 6	05:26	IL Amb	er Glass	HC1		BTEX, MTBE	8015, 8021				
									1/				
							Signature	: ,	14)				