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PROJECT NAME: 1137-1167 65th Street, Oakland, CA
To: Ms. Barbara Jakub ACEH No. RO0000082
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

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QUANTITY	DESCRIPTION
1	First Semi-Annual 2012 Groundwater Monitoring Report

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

Copy to: Mr. Frederic Schrag (electronic & hard copy)
Mr. Dennis Parfitt
Completed by: Robert Foss Signed: Robert Foss
[Please Print]

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FIRST SEMI-ANNUAL 2012 GROUNDWATER MONITORING REPORT

1137-1167 65th STREET
OAKLAND, CALIFORNIA

AGENCY CASE NO. RO0000082

APRIL 10, 2012

REF. NO. 521000 (19)

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**Prepared by:
Conestoga-Rovers
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1.0 INTRODUCTION

On behalf of the Mr. John Nady, Trustee of the Nady Trust (Nady), Conestoga-Rovers & Associates (CRA) is submitting this *First Semi-Annual 2012 Groundwater Monitoring Report*. This report describes activities performed during the monitoring and sampling event on March 19, 2012 at 1137-1167 65th Street, Oakland, California (Figure 1).

This groundwater monitoring event was conducted at the direction of the Alameda County Health Care Services Agency, Environmental Health Division (ACEH). This report presents a summary of the monitoring activities and analytic results of this event, as well as planned activities and recommendations for the Second Half of 2012.

1.1 SITE INFORMATION

Site Address	1137-1167 65 th Street, Oakland, CA
Site Use	Commercial
Client and Contact	Mr. John Nady, Trustee of the Nady Trust Contact: Mr. Frederic Schrag, Esq.
Consultant and Contact Person	CRA, Mr. Robert Foss, P.G.
Lead Agency and Contact Person	Alameda County Environmental Health Ms. Barbara Jakub
Fuel Leak Case No.	RO0000082

2.0 SITE ACTIVITIES AND RESULTS

2.1 CURRENT ACTIVITIES

On March 19, 2012, Muskan Environmental Sampling (MES) conducted semi-annual groundwater monitoring activities at the site. MES measured groundwater levels in all 17 monitoring wells and collected groundwater samples from wells MW-1A, MW-1B, MW-3A, MW-6A, MW-6B, MW-6C, MW-7A, and MW-7C. The scope of work for this event was modified as follows:

- Total petroleum hydrocarbons as diesel (TPHd), gasoline (TPHg), motor oil (TPHmo), and Stoddard solvent (TPHss) were analyzed in groundwater samples

collected from monitoring wells MW-1A, MW-3A, MW-6A, MW-6B, MW-7A, and MW-7C.

- Halogenated volatile organic compounds (HVOCs) were analyzed in groundwater samples collected from monitoring wells MW-1A, MW-1B, and MW-6C.

Elimination of TPHg, TPHd, TPHmo, and TPHss analysis in wells MW-2A, MW-4A, MW-1B, and MW-3B was due to substantially decreasing or previously non-detected concentrations of these chemicals. Very low to non-detected levels of BTEX and MTBE previously resulted in the elimination of analysis of these compounds in all wells. Termination of HVOC analysis of samples from wells MW-3A, MW-6A, MW-3B, MW-6B, and MW-3C also occurred based on a consideration of historical concentrations of HVOC analytes, trends of these analytical concentrations, a comparison to established ESLs, and the locations of the wells considered for analytical reductions. The July 1, 2011 implementation of annual Underground Storage Tank (UST) Cleanup Fund budget allocations prompted this evaluation and sampling scope modification. The elimination of well specific sampling and analyses were discussed with and the change of scope was confirmed in an ACEH letter dated February 22, 2012. A copy of this letter is included at Appendix A.

2.1.1 WATER LEVEL MEASUREMENTS

MES monitored and sampled in accordance with CRA's *Standard Field Procedures for Groundwater Monitoring and Low Flow Sampling*. A copy of this document is included as Appendix B. Depth to groundwater measurements were recorded to the nearest 0.01-foot, relative to a previously established reference elevation. Measurements were collected using an electronic well sounder. Copies of the field data sheets are included as Appendix C. The groundwater level measurement data are summarized in Table 2. As a cost saving measure, and due to consistent groundwater flow directions with minor variations, the elimination of groundwater elevation and contour maps was proposed and approved by ACEH in an email dated April 2, 2012. A copy of this email is included in Appendix A.

2.1.2 GROUNDWATER SAMPLING

MES collected groundwater samples from wells MW-1A, MW-1B, MW-3A, MW-6A, MW-6B, MW-6C, MW-7A, and MW-7C. Prior to sampling, MES measured groundwater levels and purged each well. Purging of each well was conducted by lowering the

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

Groundwater samples were collected from each well using a clean peristaltic pump. The samples were collected in 40-milliliter (mL) glass volatile organic analysis (VOA) vials and 1-liter amber glass containers supplied by McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California. Sample containers were labeled, sealed in a plastic bag, and placed on ice in a chilled cooler. The chain-of-custody (COC) record is included with the laboratory analytic report in Appendix D.

Selected groundwater samples were analyzed for TPHd, TPHg, TPHmo and TPHss using modified EPA Method SW8015Bm and other samples were analyzed by EPA Method SW8260B for EPA the Method 8010 basic HVOC target list. Samples marked for TPHd and TPHmo analysis were subjected to silica gel cleanup prior to analysis. The laboratory analytical report is included in Appendix D.

2.1.2 WASTE DISPOSAL

Purge water generated during this monitoring event was placed in a sealed Department of Transportation (DOT) approved 55-gallon drums and temporarily stored onsite for subsequent transport and disposal.

2.2 CURRENT RESULTS

A-Zone

Groundwater Flow Direction	West
Approximate Hydraulic Gradient	Not Calculated
Range of Measured Water Depth from Top of Casing in Monitoring Wells	0.61 (MW-2A) to 3.91 feet (MW-7A)
Were Measureable Separate Phase Hydrocarbons Observed	No

B-Zone

Groundwater Flow Direction	West-Southwest
Approximate Hydraulic Gradient	Not Calculated
Range of Measured Water Depth from Top of Casing in Monitoring Wells	4.23 (MW-4B) to 8.68 feet (MW-1B)
Were Measureable Separate Phase Hydrocarbons Observed	No

C-Zone

Groundwater Flow Direction	West
Approximate Hydraulic Gradient	Not Calculated
Range of Measured Water Depth from Top of Casing in Monitoring Wells	5.43 (MW-6C) to 8.63 feet (MW-3C)
Were Measureable Separate Phase Hydrocarbons Observed	No

2.2.1 GROUNDWATER FLOW DIRECTION AND GRADIENT

Depth-to-water measurements collected from all wells ranged from 0.61 to 8.68 feet (ft) below top of casing (TOC). Groundwater elevations were calculated by subtracting the depth-to-water measurements from the surveyed TOC elevations.

The A-Zone is defined as the first encountered water bearing zone and occurs from just below the surface, depending on the time of year and amount of rainfall, to approximately 12 feet below ground surface (ft bgs). A-zone monitoring wells are MW-1A, MW-2A, MW-3A, MW-4A, MW-6A, and MW-7A. The groundwater flow direction in the A-Zone is typically toward the southwest and has occasionally appeared to flow toward the west. The calculated elevations and inferred flow direction from this event are consistent with the historical trends and the occasional variations. The less defined B-Zone occurs from approximately 13 to 24 ft bgs and exhibits confined or semi-confined conditions. B-Zone monitoring wells are MW-1B, MW-3B, MW-4B, MW-5B, MW-6B, and MW-7B. The C-Zone is defined as the water bearing zone occurring from approximately 25 to 46 ft bgs. This zone also exhibits confined or semi-confined conditions. C-Zone monitoring wells are MW-1C, MW-3C, MW-4C,

MW-6C, and MW-7C. Both B- and C-Zone groundwater flows typically toward the southwest, and like the A-Zone, both have shown variations toward the west.

2.2.2 CHEMICALS DETECTED IN A-ZONE GROUNDWATER

During this monitoring event, groundwater samples from A-Zone monitoring wells MW-1A, MW-3A, MW-6A and MW-7A were analyzed for petroleum hydrocarbons, and MW-1A was analyzed for HVOCs. The reduction of sample analyses was implemented based on the justification described in Section 2.1 above.

Petroleum hydrocarbons were detected in all four sampled A-Zone monitoring wells. Diesel-range compound concentrations ranged from 140 micrograms per liter ($\mu\text{g/L}$) in well MW-7A to 1,000 $\mu\text{g/L}$ in well MW-6A. Reported concentrations of TPHg- and TPHd-range analyses are noted in the lab report as having no recognizable pattern, not resembling either gasoline or diesel, with “heavier” gasoline molecules significant in all samples. TPHg concentrations ranged from 280 $\mu\text{g/L}$ in well MW-7A to 1,600 $\mu\text{g/L}$ in MW-3A. TPHmo was below the laboratory reporting limit in all analyzed samples. Detected concentrations of TPH as stoddard solvent (TPHss) were reported in all four A-Zone wells, ranging from 370 $\mu\text{g/L}$ in MW-7A to 2,100 $\mu\text{g/L}$ in well MW-3A.

MW-1A was the only A-Zone well analyzed for HVOCs. Tetrachloroethene (PCE) was detected at 3.5 $\mu\text{g/L}$. Cis-1,2-Dichloroethene (cis-1,2-DCE) and vinyl chloride (VC), both degradation products of PCE, were reported at 5.4 and 1.3 $\mu\text{g/L}$, respectively. HVOc compounds 1,2-Dichlorobenzene (1,2-DCB) and 1,1-Dichloroethane (1,1-DCA) were also reported at 0.83 and 0.90 $\mu\text{g/L}$, respectively. With the exception of VC, all reported constituent concentrations in the A-Zone are below Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) for drinking water sources and well below ESLs for groundwater not a current or potential drinking water resource. The small concentration of VC in MW-1A exceeded the drinking water ESL of 0.5 $\mu\text{g/L}$, but is below the 3.8 $\mu\text{g/L}$ ESL for groundwater that is not a current or potential drinking water resource.

A-Zone groundwater analytical data and water level data are presented in Tables 2 and 3. The laboratory analytical report is included as Appendix D.

2.2.3 CHEMICALS DETECTED IN B-ZONE GROUNDWATER

B-Zone monitoring wells MW-1B and MW-6B were sampled during the March 19 field event. The sample from MW-6B was analyzed for petroleum hydrocarbons by EPA Method SW8015C and the sample from MW-1B was analyzed for HVOCs by EPA Method 8260.

Petroleum hydrocarbons were only detected in MW-6B at concentrations of 340 µg/L TPHg, 110 µg/L TPHd and 470 µg/L TPHss. Similar to the A-Zone analytical results, the lab report notes that TPHg and TPHd chromatograms appear to resemble stoddard solvent more closely than either gasoline or diesel. Concentrations of 7.5 µg/L cis-1,2-DCE, 15 µg/L 1,1-DCA and 10 µg/L 1,2-DCA were detected in well MW-1B. No PCE, TCE, 1,2-DCB, nor VC were detected in this sample. B-Zone groundwater analytical data and water level data are presented in Tables 2 and 3. The laboratory analytical report is included as Appendix D.

2.2.4 CHEMICALS DETECTED IN C-ZONE GROUNDWATER

C-Zone monitoring well MW-6C was sampled and analyzed for HVOCs by EPA Method 8260 and MW-7C was sampled and analyzed for petroleum hydrocarbons by EPA Method SW8015C. No HVOCs were detected in well MW-6C and no petroleum hydrocarbons were detected MW-7C. Per direction provided in the February 22, 2012 agency letter referenced above, sampling of well MW-7C will be eliminated from the scope of subsequent sampling events. C-Zone groundwater analytical data and water level data are presented in Tables 2 and 3. The laboratory analytical report is included as Appendix D.

2.2.5 GEOTRACKER SUBMITTALS

CRA uploaded the March 19, 2012 groundwater depth data, analytical results and this report to the State's GeoTracker database on behalf of the Nady Trust.

2.3 PROPOSED ACTIVITIES FOR THE REMAINDER OF 2012

An offsite sub-slab vapor investigation was completed and submitted to ACEH for review and comment. A second set of onsite sub-slab vapor samples were collected and analyzed in February 2012. That report is being finalized for submittal to ACEH at this

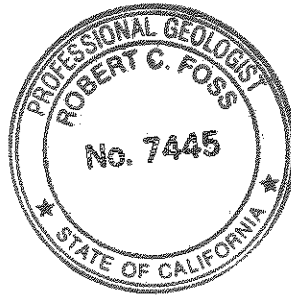
time. The review of these reports and comments regarding the recommendations contained in them will determine activities to be conducted at the site during the second half of 2012. It is anticipated that a second semi-annual groundwater monitoring and sampling event will occur during the Third Quarter of 2012 and a report will be prepared detailing the activities and reported results. Groundwater analytical and elevation data, as well as the completed final report will be uploaded to GeoTracker.

Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Tarah Kirnan

Tarah Kirnan

Robert Foss



Robert Foss, P.G.

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

Nady Trust U/D/T dated 1/21/1997

John Nady

John Nady, trustee

FIGURES

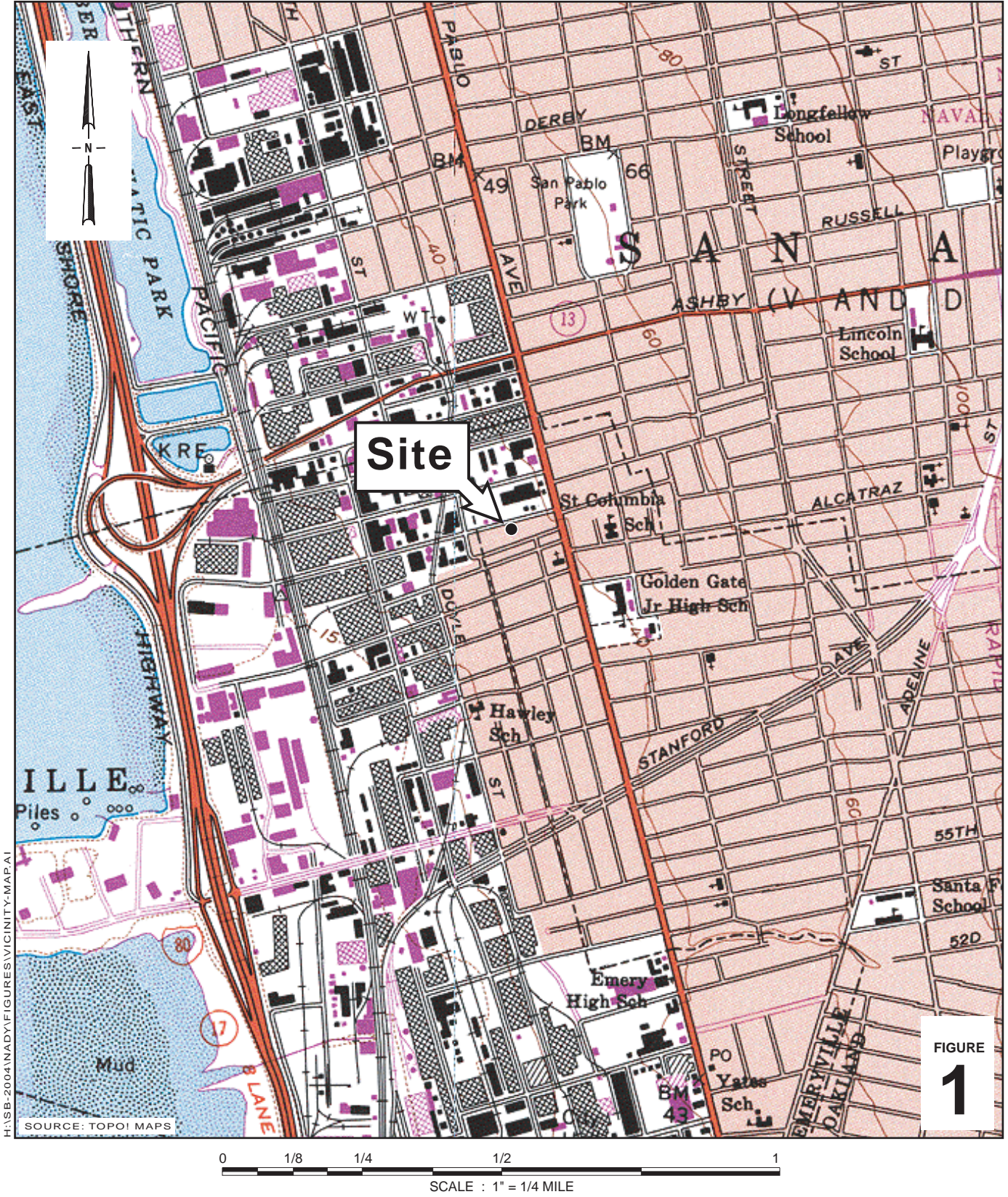


FIGURE
1

1137 - 1167 65th Street
Oakland, California



Vicinity Map

TABLES

TABLE 1

WELL CONSTRUCTION DETAILS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

<i>Well ID</i>	<i>Date Installed</i>	<i>Borehole Depth (ft)</i>	<i>Borehole Diameter (inches)</i>	<i>Casing Diameter (in)</i>	<i>Screen Interval (ft bgs)</i>	<i>Screen Size (in)</i>	<i>Filter Pack (ft bgs)</i>	<i>Bentonite Seal (ft bgs)</i>	<i>Cement Seal (ft bgs)</i>	<i>TOC Elevation (ft msl)</i>	<i>First Water (ft bgs)</i>
<u>A-zone Monitoring Wells</u>											
MW-1A	5/10/2004	14.5	8	2	4.5 - 14.5	0.010	3.5 - 14.5	2.5 - 3.5	0 - 2.5	39.64	7.0
MW-2A	5/11/2004	12.0	10	4	3.0 - 12.0	0.020	2.5 - 3.0	1.0 - 2.5	0 - 1.0	40.72	4.5
MW-3A	5/7/2004	16.0	8	2	3.5 - 14.0	0.010	3.0 - 3.5	2.0 - 3.0	0 - 2.0	40.88	4.0
MW-4A	5/18/2004	16.0	8	2	3.0 - 13.0	0.010	2.5 - 13.0	1.5 - 2.5	0 - 1.5	38.71	NA
MW-6A	5/11/2004	14.5	8	2	4.5 - 14.5	0.010	3.5 - 14.5	1.5 - 3.5	0 - 1.5	37.98	12.0
MW-7A	5/7/2004	10.0	6.5	1	5.0 - 10.0	0.010	4.0 - 10.0	3.0 - 4.0	0 - 3.0	40.58	6.0
<u>B-zone Monitoring Wells</u>											
MW-1B	5/12/2004	20.0	8	2	16.5 - 20.0	0.010	15.5 - 20.0	13.0 - 15.5	0 - 13.0	39.50	7.0
MW-3B	8/17/2009	24.0	5	1	17.0 - 24.0	0.010	15.0 - 24.0	13.0 - 15.0	0 - 13.0	40.62	NA
MW-4B	5/18/2004	24.0	8	2	17.0 - 21.0	0.010	16.0 - 21.0	12.0 - 14.0 21.0 - 24.0	0 - 12.0	38.54	3.5
MW-5B	5/18/2004	24.0	8	2	15.0 - 24.0	0.010	14.0 - 24.0	12.0 - 14.0	0 - 12.0	38.98	NA
MW-6B	5/12/2004	24.5	8	2	17.0 - 22.0	0.010	16.0 - 22.0	14.0 - 16.0 22.0 - 24.5	0 - 14.0	37.66	15.5
MW-7B	8/14/2009	24.0	5	1	17.0 - 24.0	0.010	16.0 - 24.0	14.0 - 16.0	0 - 14.0	40.05	12.0
<u>C-zone Monitoring Wells</u>											
MW-1C	5/10/2004	40.0	8	2	25.0 - 34.0	0.010	24.0 - 34.0	22.0 - 24.0 34.0 - 40.0	0 - 22.0	39.49	7.0
MW-3C	8/13/2009	40.0	5	1	27.0 - 38.0	0.010	26.0 - 38.0	24.0 - 26.0 38.0 - 40.0	0 - 24.0	41.00	12.0
MW-4C	5/17/2004	40.0	8	2	27.0 - 32.0	0.010	26.0 - 27.0	24.0 - 26.0 32.0 - 40.0	0 - 24.0	38.50	12.0
MW-6C	5/11/2004	39.5	8	2	26.5 - 34.0	0.010	25.5 - 34.0	23.0 - 25.0 34.0 - 39.5	0 - 23.0	37.59	15.0
MW-7C	8/14/2009	35.0	5	1	25.0 - 35.0	0.010	23.0 - 35.0	21.0 - 23.0	0 - 21.0	40.44	12.0

Abbreviations / Notes

ft = feet

in = inches

ft bgs = feet below grade surface

ft msl = feet above mean sea level

TOC = top of casing

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	Date Sampled	Groundwater Zone	Groundwater Elevation (ft msl)	Depth to Water (ft, TOC)	TPHss (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Notes
<u>RWQCB-SFBR Environmental Screening Levels for Groundwater</u>														
Groundwater is a current of potential drinking water resource (Table F-1a)					100	100	100	100	1.0	40	30	20	5.0	
Groundwater is not a current of potential drinking water resource (Table F-1b)					210	210	210	210	46	130	43	100	1,800	
MW-1A 39.64	6/3/2004	Zone A	35.14	4.50	2,500	1,300	260	1,400	ND<0.5	ND<0.5	2.0	11	ND<5.0	
	11/23/2004		36.54	3.10	2,800	1,400	ND<250	2,300	0.64	ND<0.5	2.5	9.7	6.8	a,b,c
	3/14/2005		37.02	2.62	6,000	3,200	ND<250	4,800	0.68	ND<0.5	2.0	6.8	ND<5.0	d,e
	6/15/2005		35.14	4.50	3,400	2,500	ND<250	2,800	ND<2.5	ND<2.5	ND<2.5	5.9	ND<25	a,b,h,i,c
	9/19/2005		33.14	6.50	6,000	2,800	ND<250	4,100	ND<1.0	ND<1.0	3.3	6.2	ND<10	a,b,i,c
	12/12/2005		35.14	4.50	3,100	2,500	ND<250	2,600	ND<1.7	ND<1.7	2.7	6.5	ND<17	a,b,c,h,i
	3/13/2006		37.74	1.90	2,400	2,300	ND<250	2,000	0.51	ND<0.5	1.9	3.5	--	a,b,c,i
	6/19/2006		35.94	3.70	3,500	2,600	ND<250	2,200	0.52	ND<0.5	2.9	6.7	--	m,b,c
	9/20/2006		34.19	5.45	2,400	2,400	ND<250	2,200	ND<2.5	ND<2.5	3.0	9.7	--	a,b,c,i
	12/20/2006		37.02	2.62	1,400	1,900	ND<250	1,300	0.52	ND<0.5	2.9	7.6	--	a,e,h
	3/29/2007		37.04	2.60	2,100	1,200	ND<250	1,800	ND<0.5	ND<0.5	2.2	6.4	ND<5.0	a,b,c
	6/11/2007		35.72	3.92	2,200	2,200	ND<250	3,200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,b,c
	9/7/2007		33.90	5.74	1,700	1,800	ND<250	2,300	ND<0.5	ND<0.5	2.2	4.6	ND<5.0	a,b,c
	12/12/2007		36.53	3.11	3,400	2,500	ND<250	3,100	ND<5.0	ND<5.0	ND<5.0	12	ND<50	a,c
	3/7/2008		37.23	2.41	1,600	1,700	ND<250	2,200	ND<0.5	ND<0.5	2.3	8.9	--	a,c
	6/9/2008		34.69	4.95	2,500	2,000	ND<250	2,200	ND<2.5	ND<2.5	3.4	8.1	ND<25	a,b,c,i
	9/5/2008		33.58	6.06	2,600	1,400	ND<250	2,300	ND<5.0	ND<5.0	ND<5.0	6.4	ND<50	a,c
	12/18/2008		36.68	2.96	1,900	1,800	ND<250	1,600	ND<0.5	ND<0.5	3.3	ND<0.5	--	a,b,c
	3/30/2009		37.28	2.36	3,100	1,800	ND<250	2,000	1.7	ND<1.0	3.4	5.3	ND<10	b,c,m
	9/21-22/2009		34.87	4.77	2,900	4,600	ND<250	2,600	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,h
	3/8/2010		38.09	1.55	1,200	920	ND<250	1,100	ND<0.5	ND<0.5	0.88	1.6	--	a,b,c
	9/30/2010		33.84	5.80	1,300	670	ND<250	1,200	--	--	--	--	--	a,b,c
	3/28-29/2011		38.46	1.18	1,000	400	ND<250	970	--	--	--	--	--	a,b,c,d
	8/29/2011		34.93	4.71	2,000	820	ND<250	1,200	--	--	--	--	--	a,b,d,e
	3/19/2012		38.14	1.50	900	180	ND<250	850	--	--	--	--	--	b,c,l
MW-2A 40.72	6/3/2004	Zone A	36.48	4.24	3,500	2,900	ND<250	1,700	ND<0.5	3.5	4.9	5.1	ND<5.0	
	11/23/2004		37.83	2.89	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		39.02	1.70	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	260	560	450	360	ND<0.5	2.5	ND<0.5	ND<0.5	ND<5.0	e,d,g,i
	6/15/2005		37.91	2.81	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	430	470	330	480	ND<0.5	2.9	ND<0.5	ND<0.5	ND<5.0	a,b,i,g,e
	9/19/2005		35.46	5.26	--	--	--	--	--	--	--	--	--	

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	Date Sampled	Groundwater Zone	Groundwater Elevation (ft msl)	Depth to Water (ft, TOC)	TPHss ($\mu\text{g/L}$)	TPHd ($\mu\text{g/L}$)	TPHmo ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Xylenes ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	Notes
	9/20/2005		--	--	960	2,100	870	960	ND<0.5	4.7	2.9	ND<0.5	ND<5.0	e,g,b,i,l
	12/12/2005		37.66	3.06	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	510	700	470	670	ND<0.5	5.9	ND<0.5	ND<0.5	ND<5.0	a,b,e,g,i
	3/13/2006		40.33	0.39	--	--	--	--	--	--	--	--	--	
	3/14/2006		--	--	81	81	ND<250	100	ND<0.5	1.5	ND<0.5	ND<0.5	--	a,b,c,i
	6/19/2006		37.31	3.41	--	--	--	--	--	--	--	--	--	
	6/20/2006		--	--	180	530	420	270	ND<0.5	1.7	ND<0.5	ND<0.5	--	e,g,i,l
MW-2A	9/20/2006		34.65	6.07	1,700	800	730	1,700	ND<2.5	5.5	ND<2.5	ND<2.5	--	a,b,d,e,g,i
cont.	12/20/2006		38.57	2.15	61	190	300	94	ND<0.5	1.5	ND<0.5	ND<0.5	--	e,g,m,n
	3/29/2007		38.22	2.50	240	200	ND<250	260	ND<0.5	2.7	ND<0.5	ND<0.5	ND<5.0	a,b,c
	6/11/2007		37.14	3.58	94	200	ND<250	180	ND<0.5	1.7	ND<0.5	ND<0.5	--	a,b,c,i
	9/7/2007		35.04	5.68	180	190	ND<250	240	ND<0.5	0.98	ND<0.5	ND<0.5	ND<5.0	a,b,c,i
	12/12/2007		37.82	2.90	140	220	360	190	ND<0.5	2.9	ND<0.5	ND<0.5	ND<5.0	a,b,g,e
	3/7/2008		38.79	1.93	ND<50	90	ND<250	100	ND<0.5	1.2	ND<0.5	ND<0.5	--	e,b
	6/9/2008		36.18	4.54	180	150	ND<250	180	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	a,b,e,i
	9/5/2008		34.46	6.26	220	180	310	300	ND<0.5	1.2	0.59	ND<0.5	ND<5.0	e,g,i,l
	12/18/2008		37.55	3.17	93	170	320	140	ND<0.5	2.7	ND<0.5	ND<0.5	--	a,b,c,d,g,i
	3/30/2009		38.76	1.96	ND<50	99	ND<250	96	ND<0.5	3.2	ND<0.5	ND<0.5	ND<5.0	b,d,e
	9/21-22/2009		35.99	4.73	83	75	ND<250	92	ND<0.5	0.88	ND<0.5	ND<0.5	--	c,i,l
	3/8/2010		39.76	0.96	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	
	9/30-10/1/2010		34.94	5.78	ND<50	ND<50	ND<250	ND<50	--	--	--	--	--	
	3/28-29/2011		40.40	0.32	ND<50	ND<50	ND<250	ND<50	--	--	--	--	--	
	8/29/2011		36.37	4.35	--	--	--	--	--	--	--	--	--	
	3/19/2012		40.11	0.61	--	--	--	--	--	--	--	--	--	
MW-3A	6/3/2004	Zone A	36.56	4.32	12,000	90,000	6,000	4,800	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
40.88	11/23/2004		37.89	2.99	5,700	22,000	ND<2,500	3,800	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	a,c,d
	3/14/2005		37.28	3.60	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	3,500	37,000	ND<2,500	2,400	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<17	e,d,i
	6/15/2005		36.78	4.10	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	3,300	15,000	ND<1,200	2,100	ND<1.7	ND<1.7	ND<1.7	2.4	ND<17	a,c,d,h,i
	9/19/2005		35.93	4.95	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	8,000	55,000	ND<5,000	4,700	ND<1.0	ND<1.0	2.6	6.8	ND<10	a,b,c,d,i
	12/12/2005		36.72	4.16	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	1,600	34,000	ND<12,000	1,100	ND<1.7	ND<1.7	ND<1.7	2.3	ND<17	a,b,c,d,h,i
	3/13/2006		37.42	3.46	--	--	--	--	--	--	--	--	--	

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	Date Sampled	Groundwater Zone	Groundwater Elevation (ft msl)	Depth to Water (ft, TOC)	TPHss (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Notes
	3/14/2006		--	--	3,300	21,000	1,600	2,200	ND<0.5	ND<0.5	1.1	ND<0.5	--	a,c,d,g,h
	6/19/2006		36.48	4.40	--	--	--	--	--	--	--	--	--	
	6/20/2006		--	--	16,000	19,000	1,000	8,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	c,d,g,h,m
	9/20/2006		35.78	5.10	3,300	13,000	1,300	2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,d,g,h,i
	12/20/2006		36.78	4.10	3,500	15,000	670	2,600	ND<2.5	ND<2.5	ND<2.5	7.6	--	e,g,h,n
	3/29/2007		36.82	4.06	3,400	21,000	940	2,600	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,c,d,h
	6/11/2007		36.52	4.36	3,500	13,000	730	5,200	ND<10	ND<10	ND<10	ND<10	--	a,d,h
	9/7/2007		35.98	4.90	15,000	36,000	1,600	11,000	ND<10	ND<10	ND<10	ND<10	ND<100	a,c,d,h
	12/12/2007		36.54	4.34	13,000	41,000	ND<2,500	9,500	ND<5.0	7.1	ND<5.0	32	ND<50	a,c,h
	3/7/2008		36.87	4.01	2,800	26,000	1,200	3,200	ND<2.5	ND<2.5	ND<2.5	2.5	--	a,h,c
	6/9/2008		36.03	4.85	16,000	20,000	ND<1,200	7,500	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h,i
	9/5/2008		35.78	5.10	19,000	17,000	1,200	15,000	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h
	12/18/2008		36.65	4.23	6,600	25,000	ND<2,500	4,700	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	c,m,h
	3/30/2009		37.19	3.69	15,000	31,000	ND<2,500	8,300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	c,h,m
MW-3A	9/21-22/2009		36.56	4.32	11,000	31,000	1,300	7,500	5.8	7.5	ND<5.0	ND<5.0	--	a,c,d,i
cont.	3/8/2010		37.31	3.57	22,000	22,000	1,500	12,000	ND<10	ND<10	ND<10	26	--	a,b,c,h
	9/30-10/1/2010		36.67	4.21	1,600	1,300	ND<250	1,200	--	--	--	--	--	a,c,d
	3/28-29/2011		37.50	3.38	1,900	740	ND<250	2,100	--	--	--	--	--	a,c,d
	8/29/2011		36.31	4.57	2,200	1,200	ND<250	1,900	--	--	--	--	--	a,c
	3/19/2012		37.03	3.85	2,100	900	ND<250	1,600	--	--	--	--	--	c,l
MW-4A	6/3/2004	Zone A	36.26	2.45	ND<50	270	440	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
38.71	11/23/2004		37.13	1.58	ND<50	73	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	d
	3/14/2005		36.66	2.05	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<50	210	300	ND<50	0.91	1.7	ND<0.5	1.9	ND<5.0	g,d,f,i
	6/15/2005		36.38	2.33	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	75	99	ND<250	59	1.0	1.9	ND<0.5	2.1	ND<5.0	j,d,f
	9/19/2005		35.01	3.70	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<50	87	ND<250	ND<50	1.2	2.1	0.51	2.4	ND<5.0	d,f
	12/12/2005		36.39	2.32	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<50	71	ND<250	ND<50	0.67	1.4	ND<0.5	1.9	ND<5.0	d,f,i
	3/13/2006		36.75	1.96	--	--	--	--	--	--	--	--	--	
	3/14/2006		--	--	ND<50	68	ND<250	ND<50	0.60	1.3	ND<0.5	1.8	--	d,f
	6/19/2006		36.15	2.56	--	--	--	--	--	--	--	--	--	
	6/20/2006		--	--	ND<50	72	ND<250	ND<50	0.53	1.1	ND<0.5	1.6	--	f
	9/20/2006		35.10	3.61	88	160	ND<250	110	1.2	2.5	0.61	3.9	--	a,d,f,i

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	Date Sampled	Groundwater Zone	Groundwater Elevation (ft msl)	Depth to Water (ft, TOC)	TPHss (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Notes
	12/20/2006		36.39	2.32	ND<50	97	ND<250	ND<50	0.99	2.1	0.52	2.9	--	f
	3/29/2007		36.46	2.25	ND<50	ND<50	ND<250	ND<50	ND<0.5	0.93	ND<0.5	1.3	ND<5.0	
	6/11/2007		36.14	2.57	ND<50	66	ND<250	ND<50	ND<0.5	0.92	ND<0.5	1.6	--	d,f
	9/7/2007		35.34	3.37	ND<50	78	ND<250	ND<50	0.74	1.3	ND<0.5	1.9	ND<5.0	f
	12/12/2007		36.25	2.46	62	68	ND<250	86	0.62	1.8	ND<0.5	2.4	ND<5.0	j,d,f
	3/7/2008		36.46	2.25	ND<50	71	ND<250	ND<50	ND<0.5	1.0	ND<0.5	1.5	--	l,f
	6/9/2008		35.49	3.22	ND<50	66	ND<250	ND<50	ND<0.5	0.94	ND<0.5	1.5	ND<5.0	d,f
	9/5/2008		34.79	3.92	69	100	ND<250	90	0.61	1.2	ND<0.5	2.0	ND<5.0	d,h,j
	12/18/2008		36.55	2.16	ND<50	73	ND<250	ND<50	0.67	1.4	ND<0.5	2.3	--	d,f
	3/30/2009		36.43	2.28	70	89	ND<250	75	0.64	1.4	ND<0.5	2.4	ND<5.0	d,j
	9/21-22/2009		36.14	2.57	ND<50	66	ND<250	ND<50	ND<0.5	0.83	<0.5	1.9	--	f,i
	3/8/2010		36.61	2.10	ND<50	65	ND<250	58	0.83	1.1	ND<0.5	2.0	--	d,e,j
	9/30-10/1/2010		36.39	2.32	ND<50	ND<50	ND<250	ND<50	--	--	--	--	--	c,d
	3/28-29/2011		36.63	2.08	ND<50	ND<50	ND<250	ND<50	--	--	--	--	--	
	8/29/2011		36.16	2.55	--	--	--	--	--	--	--	--	--	
	3/19/2012		36.63	2.08	--	--	--	--	--	--	--	--	--	
MW-6A	6/3/2004	Zone A	31.98	6.00	2,400	3,500	340	970	ND<0.5	ND<0.5	ND<0.5	2.1	ND<5.0	
37.98	11/23/2004		33.13	4.85	3,000	1,400	ND<250	1,900	ND<0.5	ND<0.5	ND<0.5	3.0	ND<5.0	a,c
	3/14/2005		35.03	2.95	2,600	5,900	ND<250	2,900	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	e,d,i
	6/15/2005		33.28	4.70	3,400	6,100	ND<250	2,200	ND<0.5	ND<0.5	0.60	4.4	ND<10	a,i,c,d
	9/19/2005		32.07	5.91	3,900	2,600	ND<250	2,200	ND<1.0	ND<1.0	1.4	7.6	ND<10	a,b,c
MW-6A	12/12/2005		33.12	4.86	4,500	4,600	ND<250	2,900	ND<0.5	ND<0.5	1.6	8.9	ND<5.0	a,c,h,i
cont.	3/13/2006		36.05	1.93	3,000	4,300	ND<250	1,900	ND<0.5	ND<0.5	ND<0.5	4.3	--	a,c,d,h
	6/19/2006		32.59	5.39	4,600	7,800	260	2,300	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	c,g,h,m
	9/20/2006		31.96	6.02	1,200	2,600	ND<250	960	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	a,c,i
	12/20/2006		33.57	4.41	3,200	4,100	ND<250	2,400	ND<5.0	ND<5.0	ND<5.0	8.1	--	e,h,n
	3/29/2007		33.67	4.31	2,700	2,900	ND<250	2,200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	a,c
	6/11/2007		32.95	5.03	3,700	6,400	ND<250	4,300	ND<0.5	ND<0.5	2.1	9.5	--	a,c
	9/7/2007		32.32	5.66	1,400	5,800	ND<250	1,600	ND<1.0	ND<1.0	ND<1.0	3.1	ND<10	a,b,c,d,h
	12/12/2007		33.50	4.48	4,400	9,600	ND<250	3,300	ND<5.0	ND<5.0	ND<5.0	8.4	ND<5.0	a,c,d
	3/7/2008		34.30	3.68	3,700	6,200	280	4,100	ND<2.5	ND<2.5	ND<2.5	6.9	--	a,h,c
	6/9/2008		32.30	5.68	16,000	7,200	290	7,900	ND<10	ND<10	ND<10	ND<10	ND<100	a,c,h,i
	9/5/2008		32.05	5.93	11,000	3,200	ND<250	8,700	ND<10	ND<10	ND<10	ND<10	ND<100	a,c,h
	12/18/2008		33.98	4.00	4,300	11,000	460	3,000	ND<1.0	ND<1.0	1.2	ND<1.0	--	a,c,d,h
	3/30/2009		34.06	3.92	3,100	11,000	430	2,300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	a,c,h,j

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	Date Sampled	Groundwater Zone	Groundwater Elevation (ft msl)	Depth to Water (ft, TOC)	TPHss (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Notes
	9/21-22/2009		32.30	5.68	2,800	7,300	300	2,100	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,d,h
	3/8/2010		35.88	2.10	5,500	6,800	420	2,400	ND<0.5	ND<0.5	0.66	3.9	--	a,b,c,d,h
	9/30/2010		32.28	5.70	2,300	5,200	2,900	2,200	--	--	--	--	--	a,g
	3/28/2011		36.36	1.62	2,300	1,000	ND<250	1,600	--	--	--	--	--	a,c,d
	8/29/2011		32.36	5.62	2,900	5,300	ND<250	2,200	--	--	--	--	--	a,c,e,o
	3/19/2012		35.99	1.99	1,700	1,000	ND<250	1,200	--	--	--	--	--	a,l
MW-7A 40.58	6/3/2004	Zone A	36.08	4.50	9,900	--	--	3,900	ND<5.0	ND<5.0	ND<5.0	6.6	ND<50	
	11/23/2004		--	--	--	--	--	--	--	--	--	--	--	
	3/14/2005		37.03	3.55	3,700	14,000	620	3,900	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	c,d,h
	6/15/2005		36.41	4.17	3,900	24,000	ND<1,200	2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,c,d,h,i
	9/19/2005		35.25	5.33	13,000	43,000	ND<5,000	7,000	ND<10	ND<10	ND<10	ND<10	ND<100	a,c,i
	12/12/2005		36.15	4.43	2,500	10,000	ND<1,200	1,700	ND<1.0	ND<1.0	1.4	2.4	ND<10	a,c,d,h,i
	3/13/2006		36.76	3.82	2,300	31,000	1,100	1,600	ND<0.5	ND<0.5	0.93	9.1	--	a,c,d,g,h,i
	6/19/2006		35.78	4.80	44,000	36,000	1,300	26,000	ND<5.0	ND<5.0	10	ND<5.0	--	c,d,g,h,i,m
	9/20/2006		35.03	5.55	69,000	36,000	ND<5,000	49,000	ND<50	ND<50	ND<50	ND<50	--	a,c,h,i
	12/20/2006		36.35	4.23	53,000	14,000	ND<1,200	38,000	ND<50	ND<50	ND<50	150	--	e,h,n
	3/29/2007		36.06	4.52	5,600	34,000	890	4,100	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,h,c,d
	6/11/2007		36.02	4.56	3,400	32,000	ND<1,200	3,800	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,d,h,i
	9/7/2007		35.18	5.40	19,000	57,000	ND<2,500	21,000	ND<10	ND<10	ND<10	54	ND<100	a,b,c,d,h
	12/12/2007		35.96	4.62	16,000	45,000	1,400	13,000	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,d
	3/7/2008		36.28	4.30	3,500	56,000	1,600	3,800	ND<2.5	ND<2.5	ND<2.5	3.7	--	a,h,i,c
	6/9/2008		35.35	5.23	68,000	150,000	ND<12,000	35,000	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h,i
	9/5/2008		35.00	5.58	13,000	63,000	2,700	9,800	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h,i
	12/18/2008		35.95	4.63	9,100	28,000	ND<2,500	6,200	ND<2.5	ND<2.5	2.7	ND<2.5	--	a,c,h
	3/30/2009		36.38	4.20	16,000	110,000	ND<12,000	11,000	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h
	9/21-22/2009		35.77	4.81	6,400	84,000	ND<5,000	4,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,h
	3/9/2010		36.66	3.92	27,000	110,000	ND<5,000	19,000	ND<25	ND<25	ND<25	46	--	a,b,c,h
	9/30/2010		36.23	4.35	3,400	2,100	ND<250	2,500	--	--	--	--	--	a,c
MW-7A cont.	3/28/2011		38.34	2.24	1,800	950	ND<250	1,300	--	--	--	--	--	a,c,d
	8/29/2011		35.73	4.85	1,800	3,000	ND<250	1,300	--	--	--	--	--	a,c,e,o
	3/19/2012		36.67	3.91	370	140	ND<250	280	--	--	--	--	--	a,l
MW-1B 39.50	6/3/2004	Zone B	25.10	14.40	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	11/23/2004		26.24	13.26	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		33.97	5.53	ND<50	52	ND<250	ND<50	0.60	ND<0.5	ND<0.5	ND<0.5	ND<5.0	d,i

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	Date Sampled	Groundwater Zone	Groundwater Elevation (ft msl)	Depth to Water (ft, TOC)	TPHss (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Notes
	6/15/2005		31.87	7.63	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	9/19/2005		30.35	9.15	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	12/12/2005		30.39	9.11	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	3/13/2006		32.15	7.35	--	--	--	--	--	--	--	--	--	
	6/19/2006		22.99	16.51	--	--	--	--	--	--	--	--	--	
	9/20/2006		30.32	9.18	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.60	7.90	--	--	--	--	--	--	--	--	--	
	3/29/2007		24.63	14.87	--	--	--	--	--	--	--	--	--	
	6/11/2007		26.39	13.11	--	--	--	--	--	--	--	--	--	
	9/7/2007		28.42	11.08	--	--	--	--	--	--	--	--	--	
	12/12/2007		30.60	8.90	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.48	7.02	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.50	9.00	--	--	--	--	--	--	--	--	--	
	9/5/2008		30.11	9.39	--	--	--	--	--	--	--	--	--	
	12/18/2008		30.34	9.16	--	--	--	--	--	--	--	--	--	
	3/30/2009		32.09	7.41	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		30.42	9.08	--	--	--	--	--	--	--	--	--	
	3/8/2010		32.97	6.53	--	--	--	--	--	--	--	--	--	
	9/30/2010		29.74	9.76	ND<50	ND<50	ND<250	ND<50	--	--	--	--	--	
	3/28-29/2011		29.57	9.93	ND<50	ND<50	ND<250	ND<50	--	--	--	--	--	
	8/29/2011		30.48	9.02	--	--	--	--	--	--	--	--	--	
	3/19/2012		30.82	8.68	--	--	--	--	--	--	--	--	--	
MW-3B	9/21-22/2009	Zone B	31.69	8.93	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	i
40.62	3/8/2010		35.00	5.62	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	i
	9/30-10/1/2010		31.81	8.81	ND<50	ND<50	ND<250	ND<50	--	--	--	--	--	
	3/28-29/2011		35.38	5.24	ND<50	ND<50	ND<250	ND<50	--	--	--	--	--	
	8/29/2011		32.09	8.53	--	--	--	--	--	--	--	--	--	
	3/19/2012		34.01	6.61	--	--	--	--	--	--	--	--	--	
MW-4B	6/3/2004	Zone B	33.52	5.02	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
38.54	11/23/2004		34.65	3.89	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		34.78	3.76	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	6/15/2005		33.98	4.56	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	9/19/2005		32.57	5.97	--	--	--	--	--	--	--	--	--	

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	Date Sampled	Groundwater Zone	Groundwater Elevation (ft msl)	Depth to Water (ft, TOC)	TPHss (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Notes
MW-4B	9/20/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
cont.	12/12/2005		33.65	4.89	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	3/13/2006		34.61	3.93	--	--	--	--	--	--	--	--	--	
	6/19/2006		33.86	4.68	--	--	--	--	--	--	--	--	--	
	9/20/2006		32.58	5.96	--	--	--	--	--	--	--	--	--	
	12/20/2006		33.92	4.62	--	--	--	--	--	--	--	--	--	
	3/29/2007		33.96	4.58	--	--	--	--	--	--	--	--	--	
	6/11/2007		34.03	4.51	--	--	--	--	--	--	--	--	--	
	9/7/2007		33.22	5.32	--	--	--	--	--	--	--	--	--	
	12/12/2007		33.85	4.69	--	--	--	--	--	--	--	--	--	
	3/7/2008		34.58	3.96	--	--	--	--	--	--	--	--	--	
	6/9/2008		33.45	5.09	--	--	--	--	--	--	--	--	--	
	9/5/2008		32.64	5.90	--	--	--	--	--	--	--	--	--	
	12/18/2008		33.39	5.15	--	--	--	--	--	--	--	--	--	
	3/30/2009		34.33	4.21	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		33.34	5.20	--	--	--	--	--	--	--	--	--	
	3/8/2010		31.96	6.58	--	--	--	--	--	--	--	--	--	
	9/30/2010		32.69	5.85	--	--	--	--	--	--	--	--	--	
	3/28/2011		34.71	3.83	--	--	--	--	--	--	--	--	--	
	8/29/2011		33.57	4.97	--	--	--	--	--	--	--	--	--	
	3/19/2012		34.31	4.23	--	--	--	--	--	--	--	--	--	
MW-5B	6/3/2004	Zone B	30.16	8.82	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
38.98	11/23/2004		31.32	7.66	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		32.71	6.27	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	6/15/2005		31.20	7.78	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	9/19/2005		28.68	10.30	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	12/12/2005		30.65	8.33	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	3/13/2006		32.87	6.11	--	--	--	--	--	--	--	--	--	
	6/19/2006		30.97	8.01	--	--	--	--	--	--	--	--	--	
	9/20/2006		29.68	9.30	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.21	7.77	--	--	--	--	--	--	--	--	--	
	3/29/2007		31.40	7.58	--	--	--	--	--	--	--	--	--	

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	Date Sampled	Groundwater Zone	Groundwater Elevation (ft msl)	Depth to Water (ft, TOC)	TPHss (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Notes
	6/11/2007		31.02	7.96	--	--	--	--	--	--	--	--	--	
	9/7/2007		30.02	8.96	--	--	--	--	--	--	--	--	--	
	12/12/2007		30.88	8.10	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.55	6.43	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.34	8.64	--	--	--	--	--	--	--	--	--	
	9/5/2008		29.50	9.48	--	--	--	--	--	--	--	--	--	
	12/18/2008		30.34	8.64	--	--	--	--	--	--	--	--	--	
MW-5B	3/30/2009		32.10	6.88	--	--	--	--	--	--	--	--	--	
cont.	9/21-22/2009		29.97	9.01	--	--	--	--	--	--	--	--	--	
	3/8/2010		33.23	5.75	--	--	--	--	--	--	--	--	--	
	9/30/2010		30.67	8.31	--	--	--	--	--	--	--	--	--	
	3/28/2011		34.22	4.76	--	--	--	--	--	--	--	--	--	
	8/29/2011		30.51	8.47	--	--	--	--	--	--	--	--	--	
	3/19/2012		32.33	6.65	--	--	--	--	--	--	--	--	--	
MW-6B	6/3/2004	Zone B	29.36	8.30	2,900	2,300	ND<250	1,100	ND<0.5	ND<0.5	ND<0.5	1.4	ND<5.0	
37.66	11/23/2004		30.53	7.13	700	280	ND<250	500	ND<0.5	ND<0.5	ND<0.5	1.6	ND<5.0	a,c
	3/14/2005		31.86	5.80	1,200	5,200	340	1,300	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	e,d,i
	6/15/2005		30.17	7.49	1,300	1,700	ND<250	900	ND<0.5	ND<0.5	ND<0.5	1.9	ND<5.0	a,c
	9/19/2005		28.83	8.83	2,000	2,700	ND<250	1,200	1.0	1.4	ND<1.0	5.0	ND<20	a,b,c
	12/12/2005		29.85	7.81	1,200	4,100	ND<250	840	ND<0.5	ND<0.5	ND<0.5	3.3	ND<5.0	a,c,h,i
	3/13/2006		32.31	5.35	2,000	6,900	270	1,400	ND<0.5	ND<0.5	ND<0.5	4.7	--	a,c,d,h,i
	6/19/2006		29.88	7.78	3,300	7,700	310	1,700	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	c,g,h,m
	9/20/2006		28.78	8.88	4,200	16,000	740	3,200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,d,g,h,i
	12/20/2006		30.34	7.32	77,000	16,000	ND<1,200	55,000	ND<50	ND<50	ND<50	130	--	e,g,h,n
	3/29/2007		30.44	7.22	4,300	24,000	650	3,400	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,h,c,d
	6/11/2007		29.93	7.73	2,100	29,000	ND<1,200	2,600	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,d,h
	9/7/2007		28.95	8.71	3,800	32,000	ND<1,200	4,500	ND<5.0	ND<5.0	ND<5.0	11	ND<50	a,b,c,d,h
	12/12/2007		30.00	7.66	15,000	36,000	1,000	12,000	ND<25	ND<25	ND<25	ND<25	ND<250	a,h,c,d
	3/7/2008		31.70	5.96	2,700	27,000	1,100	3,100	ND<2.5	ND<2.5	ND<2.5	6.1	--	a,h,k
	6/9/2008		29.36	8.30	20,000	81,000	ND<5,000	9,500	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h
	9/5/2008		28.66	9.00	17,000	40,000	ND<2500	13,000	ND<10	ND<10	ND<10	ND<10	ND<100	a,c,h
	12/18/2008		29.68	7.98	7,400	29,000	ND<2,500	5,200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,h
	3/30/2009		31.31	6.35	13,000	34,000	ND<2,500	10,000	ND<25	ND<25	ND<25	ND<25	ND<250	c,h,m
	9/21-22/2009		28.94	8.72	2,900	15,000	610	2,200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,d,h
	3/8/2010		32.96	4.70	4,200	23,000	ND<2,500	3,200	ND<10	ND<10	ND<10	ND<10	--	a,b,c,h

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	Date Sampled	Groundwater Zone	Groundwater Elevation (ft msl)	Depth to Water (ft, TOC)	TPHss (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Notes
	9/30/2010		29.19	8.47	1,600	910	ND<250	1,200	--	--	--	--	--	a,c,d
	3/28/2011		33.68	3.98	850	370	ND<250	610	--	--	--	--	--	a,c,d
	8/29/2011		29.55	8.11	670	710	ND<250	490	--	--	--	--	--	a,c,e,o
	3/19/2012		32.29	5.37	470	110	ND<250	340	--	--	--	--	--	a,l
MW-7B 40.05	9/21-22/2009	Zone B	30.73	9.32	1,700	6,300	ND<500	1,300	ND<0.5	ND<0.5	ND<0.5	2.3	--	a,c,h
	3/9/2010		33.52	6.53	1,800	4,300	ND<250	1,300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,i
	9/30/2010		30.29	9.76	120	52	ND<250	94	--	--	--	--	--	a,c,i
	3/28/2011		34.07	5.98	ND<50	ND<50	ND<250	ND<50	--	--	--	--	--	
	8/29/2011		30.33	9.72	--	--	--	--	--	--	--	--	--	
	3/19/2012		32.62	7.43	--	--	--	--	--	--	--	--	--	
MW-1C 39.49	6/3/2004	Zone C	30.07	9.42	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	11/23/2004		31.30	8.19	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		32.58	6.91	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	f
MW-1C cont.	6/15/2005		30.89	8.60	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	9/19/2005		29.19	10.30	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	12/12/2005		30.54	8.95	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	3/13/2006		32.99	6.50	--	--	--	--	--	--	--	--	--	
	6/19/2006		30.66	8.83	--	--	--	--	--	--	--	--	--	
	9/20/2006		29.53	9.96	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.13	8.36	--	--	--	--	--	--	--	--	--	
	3/29/2007		31.19	8.30	--	--	--	--	--	--	--	--	--	
	6/11/2007		30.63	8.86	--	--	--	--	--	--	--	--	--	
	9/7/2007		29.60	9.89	--	--	--	--	--	--	--	--	--	
	12/12/2007		30.61	8.88	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.46	7.03	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.07	9.42	--	--	--	--	--	--	--	--	--	
	9/5/2008		29.34	10.15	--	--	--	--	--	--	--	--	--	
	12/18/2008		30.28	9.21	--	--	--	--	--	--	--	--	--	
	3/30/2009		32.12	7.37	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		29.59	9.90	--	--	--	--	--	--	--	--	--	
	3/8/2010		33.74	5.75	--	--	--	--	--	--	--	--	--	
	9/30/2010		29.75	9.74	--	--	--	--	--	--	--	--	--	
	3/28/2011		34.43	5.06	--	--	--	--	--	--	--	--	--	
	8/29/2011		30.11	9.38	--	--	--	--	--	--	--	--	--	

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MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	Date Sampled	Groundwater Zone	Groundwater Elevation (ft msl)	Depth to Water (ft, TOC)	TPHss (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Notes
	3/19/2012		32.84	6.65	--	--	--	--	--	--	--	--	--	
MW-3C 41.00	9/21-22/2009	Zone C	29.52	11.48	ND<50	79	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	f,i
	3/8/2010		33.09	7.91	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	i
	9/30-10/1/2010		29.64	11.36	ND<50	ND<50	ND<250	ND<50	--	--	--	--	--	i
	3/28-29/2011		35.76	5.24	ND<50	ND<50	ND<250	ND<50	--	--	--	--	--	
	8/29/2011		29.93	11.07	--	--	--	--	--	--	--	--	--	
	3/19/2012		32.37	8.63	--	--	--	--	--	--	--	--	--	
MW-4C 38.50	6/3/2004	Zone C	30.10	8.40	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	11/23/2004		31.31	7.19	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		33.15	5.35	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	6/15/2005		30.85	7.65	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	9/19/2005		25.97	12.53	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	12/12/2005		30.00	8.50	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	3/13/2006		31.18	7.32	--	--	--	--	--	--	--	--	--	
	6/19/2006		30.90	7.60	--	--	--	--	--	--	--	--	--	
	9/20/2006		29.91	8.59	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.21	7.29	--	--	--	--	--	--	--	--	--	
MW-4C cont.	3/29/2007		31.29	7.21	--	--	--	--	--	--	--	--	--	
	6/11/2007		30.93	7.57	--	--	--	--	--	--	--	--	--	
	9/7/2007	30.20	8.30	--	--	--	--	--	--	--	--	--		
	12/12/2007	31.10	7.40	--	--	--	--	--	--	--	--	--		
	3/7/2008	32.25	6.25	--	--	--	--	--	--	--	--	--		
	6/9/2008	30.35	8.15	--	--	--	--	--	--	--	--	--		
	9/5/2008	29.62	8.88	--	--	--	--	--	--	--	--	--		
	12/18/2008	30.31	8.19	--	--	--	--	--	--	--	--	--		
	3/30/2009	31.59	6.91	--	--	--	--	--	--	--	--	--		
	9/21-22/2009	30.08	8.42	--	--	--	--	--	--	--	--	--		
	3/8/2010	32.64	5.86	--	--	--	--	--	--	--	--	--		
	9/30/2010	30.75	7.75	--	--	--	--	--	--	--	--	--		
	3/28/2011	33.49	5.01	--	--	--	--	--	--	--	--	--		

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	Date Sampled	Groundwater Zone	Groundwater Elevation (ft msl)	Depth to Water (ft, TOC)	TPHss (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Notes
	8/29/2011		30.26	8.24	--	--	--	--	--	--	--	--	--	
	3/19/2012		31.59	6.91	--	--	--	--	--	--	--	--	--	
MW-6C 37.59	6/3/2004	Zone C	27.89	9.70	340	240	ND<250	160	ND<0.5	ND<0.5	ND<0.5	1.1	ND<5.0	
	11/23/2004		29.21	8.38	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		31.79	5.80	ND<50	60	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	d
	6/15/2005		30.14	7.45	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	9/19/2005		28.79	8.80	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	12/12/2005		29.81	7.78	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/13/2006		32.09	5.50	--	--	--	--	--	--	--	--	--	
	6/19/2006		29.84	7.75	--	--	--	--	--	--	--	--	--	
	9/20/2006		28.74	8.85	--	--	--	--	--	--	--	--	--	
	12/20/2006		30.29	7.30	--	--	--	--	--	--	--	--	--	
	3/29/2007		30.39	7.20	--	--	--	--	--	--	--	--	--	
	6/11/2007		29.86	7.73	--	--	--	--	--	--	--	--	--	
	9/7/2007		28.92	8.67	--	--	--	--	--	--	--	--	--	
	12/12/2007		29.94	7.65	--	--	--	--	--	--	--	--	--	
	3/7/2008		31.63	5.96	--	--	--	--	--	--	--	--	--	
	6/9/2008		29.32	8.27	--	--	--	--	--	--	--	--	--	
	9/5/2008		28.60	8.99	--	--	--	--	--	--	--	--	--	
	12/18/2008		29.64	7.95	--	--	--	--	--	--	--	--	--	
	3/30/2009		31.26	6.33	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		28.89	8.70	--	--	--	--	--	--	--	--	--	
	3/8/2010		32.92	4.67	--	--	--	--	--	--	--	--	--	
	9/30/2010		29.16	8.43	--	--	--	--	--	--	--	--	--	
	3/28/2011		33.62	3.97	--	--	--	--	--	--	--	--	--	
	8/29/2011		29.45	8.14	ND<50	ND<50	ND<250	ND<50	--	--	--	--	--	
	3/19/2012		32.16	5.43	--	--	--	--	--	--	--	--	--	

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

<i>Well ID (TOC)</i>	<i>Date Sampled</i>	<i>Groundwater Zone</i>	<i>Groundwater Elevation (ft msl)</i>	<i>Depth to Water (ft, TOC)</i>	<i>TPHss (µg/L)</i>	<i>TPHd (µg/L)</i>	<i>TPHmo (µg/L)</i>	<i>TPHg (µg/L)</i>	<i>Benzene (µg/L)</i>	<i>Toluene (µg/L)</i>	<i>Ethylbenzene (µg/L)</i>	<i>Xylenes (µg/L)</i>	<i>MTBE (µg/L)</i>	<i>Notes</i>
MW-7C 40.44	9/21-22/2009 3/9/2010	Zone C	29.53 32.47	10.91 7.97	2,300 890	1,900 1,400	ND<250 ND<250	1,600 660	ND<0.5 ND<0.5	ND<0.5 ND<0.5	ND<0.5 ND<0.5	ND<2.0 4.1	-- --	a,c,h a,c,i
	9/30/2010		29.71	10.73	110	62	ND<250	87	--	--	--	--	--	a,c
	3/28/2011		33.57	6.87	ND<50	ND<50	ND<250	ND<50	--	--	--	--	--	
	8/29/2011		29.93	10.51	--	--	--	--	--	--	--	--	--	
	3/19/2012		32.28	8.16	ND<50	ND<50	ND<250	ND<50	--	--	--	--	--	

Abbreviations and Notes:

µg/L = micrograms per liter - approximately equal to parts per billion = ppb

(TOC) = Top of casing elevation in feet above mean sea level (msl)

ft = measured in feet

TPHd = Total petroleum hydrocarbons as diesel by EPA Method SW8015C with silica gel cleanup (C10-C23)

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method SW8015C (C6-C12).

TPHmo = Total petroleum hydrocarbons as motor oil by EPA Method SW8015C with silica gel cleanup (C18-C36)

TPHss = Total petroleum hydrocarbons as stoddard solvent by EPA Method SW8015C (C9-C12)

Benzene, toluene, ethylbenzene, and xylenes by EPA Method SW8021B.

MTBE = Methyl tertiary-butyl ether by EPA Method SW8021B (EPA Method SW8260B).

ND<50 = Not Detected above detection limit cited.

-- = Not available, not applicable, not analyzed, not measured

a = TPH pattern that does not appear to be derived from gasoline (stoddard solvent/mineral spirit?).

b = No recognizable pattern.

c = Stoddard solvent/mineral spirit.

d = Diesel range compounds are significant; no recognizable pattern.

e = Gasoline range compounds are significant.

f = One to a few isolated peaks present

g = Oil range compounds are significant.

h = Lighter than water immiscible sheen/product is present.

i = Liquid sample contains greater than ~1 vol. % sediment.

j = Unmodified or weakly modified gasoline is significant

k = TPHg range non-target isolated peaks subtracted out of the TPHg concentration

l = Heavier gasoline compounds are significant (aged gasoline?)

m = Strongly aged gasoline or diesel range compounds are significant

n = Diesel range compounds are significant

TABLE 3

GRAB GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Boring ID (TOC)	Date Sampled	Groundwater Zone	Sample Collection Depth (ft bgs)	Groundwater Elevation (ft msl)	Depth to Water (ft, TOC)	TPHs				Notes
						TPH _{ss}	TPH _d	TPH _{mo} ug/L	TPH _g	
SB-1	11/25/2002	A-Zone		35.39	3.45	---	---	---	---	
(38.84)	11/26/2002	A-Zone		35.44	3.40	ND<50	2,000	7,500	58	
SB-2	11/25/2002	C-Zone		11.61	29.50	---	---	---	---	
(41.11)	11/26/2002	C-Zone		29.46	11.65	ND<50	ND<50	ND<250	ND<50	
SB-4	11/25/2002	A-Zone		34.02	6.90	---	---	---	---	
(40.92)	11/26/2002	A-Zone		34.82	6.10	---	---	---	---	SPH
SB-6	11/25/2002	A-Zone		28.24	11.25	---	---	---	---	
(39.49)	11/26/2002	A-Zone		32.19	7.30	7,800	23,000	620	8,700	a,b,c
SB-7	11/25/2002	B-Zone		28.20	10.30	---	---	---	---	
(38.50)	11/26/2002	B-Zone		30.10	8.40	5,800	120,000	<25,000	6,100	a,b,c
SB-8	11/25/2002	A-Zone		36.30	4.70	---	---	---	---	
(41.00)	11/26/2002	A-Zone		36.55	4.65	100,000	1,200,000	ND<250,000	110,000	a,b,c
SB-9	11/25/2002	C-Zone		16.02	25.00	---	---	---	---	
(41.02)	11/26/2002	C-Zone		17.07	23.95	ND<50	50	300	ND<50c	
SB-10	11/25/2002	A-Zone		29.27	11.60	---	---	---	---	
(40.87)	11/26/2002	A-Zone		31.12	9.75	200	350	ND<250	260a,c	
SB-11	11/25/2002	C-Zone		12.15	29.30	---	---	---	---	
(41.45)	11/26/2002	C-Zone		19.55	21.90	ND<50	ND<50	ND<250	ND<50	
SB-12A	1/13/2004	A-Zone		---	4.5	ND<50	130	300	230	h,c,e,d,f
SB-14A	1/9/2004	A-Zone		---	4.0	ND<50	ND<50	ND<250	ND<50	c
SB-14C	1/9/2004	C-Zone		---	NW	---	---	---	---	

TABLE 3

GRAB GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Boring ID (TOC)	Date Sampled	Groundwater Zone	Sample Collection Depth (ft bgs)	Groundwater Elevation (ft msl)	Depth to Water (ft, TOC)	TPHs				Notes
						TPH _{ss}	TPH _d	TPH _{mo}	TPH _g	
SB-15A	1/12/2004	A-Zone		---	4.0	2,500	2,400	290	2,700	a,c,d
SB-16A	1/12/2004	A-Zone		---	4.0	1,500	23,000	9,800	1,700	a,b,c,d,e,i
SB-17A	1/13/2004	A-Zone		---	NW	---	---	---	---	
SB-17B	1/8/2004	B-Zone		---	16.5	ND<50	95	ND<250	120	c,d,f,g
SB-17C	1/13/2004	C-Zone		---	NW	---	---	---	---	
SB-18A	1/6/2004	A-Zone		---	1.5	2,100	11,000	ND<2,500	3,900	d,b
SB-18B*	1/9/2004	C-Zone		---	25.0	ND<50	92	ND<250	250	g,h
SB-18C	1/9/2004	C-Zone		---	34.0	170	---	---	300	c,g,h
SB-19A	1/13/2004	A-Zone		---	NW	---	---	---	---	
SB-20A	1/13/2004	A-Zone		---	8.0	610	1400	ND<250	680	b,d,j
SB-20C	1/13/2004	C-Zone		---	31.0	ND<50	ND<50	ND<250	ND<50	c
SB-21A	1/20/2004	A-Zone		---	8.5	5,600	110000	<25,000	6,100	a,b,i,k
SB-22A	1/7/2004	A-Zone		---	NW	---	---	---	---	
SB-22C	1/7/2004	C-Zone		---	--	ND<50	110	ND<250	ND<50	c,f
SB-25A	1/8/2004	A-Zone		---	5.0	ND<50	64	ND<250	ND<50	c,f,g
SB-25C	1/8/2004	C-Zone		---	29.0	ND<50	ND<50	ND<250	ND<50	c
SB-26A	1/7/2004	A-Zone		---	4.0	2,600	5300	1000	3,000	c,d,e
SB-26-12-W	8/17/2009	A-Zone	12	---	---	75	NA	ND<250	65	j
SB-26-24-W	8/17/2009	B-Zone	24	---	---	ND<50	ND<50	ND<250	ND<50	
SB-26-40-W	8/17/2009	C-Zone	40	---	---	ND<50	ND<50	ND<250	ND<50	
SB-26-40-W	8/14/2009	C-Zone	40	---	---	ND<50	**	**	ND<50	

GRAB GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Boring ID (TOC)	Date Sampled	Groundwater Zone	Sample Collection Depth (ft bgs)	Groundwater Elevation (ft msl)	Depth to Water (ft, TOC)	TPHs				Notes
						TPH _{ss}	TPH _d	TPH _{mo}	TPH _g	
SB-27-12-W	8/12/2009	A-Zone	---	---	---	Dry, No Sample				
SB-27-24-W	8/12/2009	B-Zone	24	---	---	ND<50	ND<50	ND<250	ND<50	
SB-27-40-W	8/12/2009	C-Zone	40	---	---	ND<50	57	250	ND<50	e,f
SB-28-12-W	8/17/2009	A-Zone	---	---	---	Dry, No Sample				
SB-28-24-W	8/17/2009	B-Zone	24	---	---	760	ND<50	ND<250	530	a
SB-28-35-W	8/17/2009	C-Zone	35	---	---	ND<50	ND<50	ND<250	ND<50	
CPT-11-W	8/17/2009	"D-Zone"	56-60	---	---	ND<50	ND<50	ND<250	ND<50	
SB-29-6-W	4/21/2011	A-Zone	6	--	--	ND<50	230	1,900	ND<50	c
SB-29-32-W	4/21/2011	C-Zone	32	--	--	ND<50	ND<50	ND<250	ND<50	c
SB-30-4.5-W	4/20/2011	A-Zone	4.5	--	--	ND<50	74	680	ND<50	c,e,f
SB-30-13-W	4/20/2011	B-Zone	13	--	--	ND<50	ND<50	ND<250	ND<50	c
SB-30-32-W	4/20/2011	C-Zone	32	--	--	ND<50	ND<50	ND<250	ND<50	c
SB-31-8-W	4/20/2011	A-Zone	8	--	--	7,100	31,000	3,100	5,000	a,b,c
SB-31-22-W	4/19/2022	B-Zone	22	--	--	6,100	26,000	ND<1,300	4,400	a,b,c
<i>Previous SCI Samples</i>										
Interior	2/20/2002			---	---	13,000	94000	---	21,000	
Exterior	2/25/2002			---	---	42,000	82000	---	66,000	

Abbreviations and Notes:

mg/L = micrograms per liter

(TOC) = Top of temporary casing in feet above mean seal level.

ft msl = Feet above mean sea level.

ft bgs = feet below ground surface

**GRAB GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA**

<i>Boring ID</i> (TOC)	<i>Date</i> <i>Sampled</i>	<i>Groundwater Zone</i>	<i>Sample</i> <i>Collection</i> <i>Depth</i> (ft bgs)	<i>Groundwater</i> <i>Elevation</i> (ft msl)	<i>Depth to</i> <i>Water</i> (ft, TOC)	<i>TPH_{ss}</i>	<i>TPH_d</i>	<i>TPH_{mo}</i>	<i>TPH_g</i>	<i>Notes</i>
						←————— ug/L —————→				

ND<n = Not Detected above detection limit cited (n represents the reported detection limit)

--- = Not available, not analyzed, or does not apply.

NW = No groundwater for sample.

TPH_{mo} = Total petroleum hydrocarbons as motor oil by EPA Method 8015C with silica gel cleanup (C18-C36)

TPH_d = Total petroleum hydrocarbons as diesel by EPA Method 8015C with silica gel cleanup (C10-C23)

TPH_{ss} = Total petroleum hydrocarbons as Stoddard solvent by EPA Method 8021B/8015Cm (C9-C12)

TPH_g = Total petroleum hydrocarbons as gasoline by EPA Method 8021B/8015Cm (C6-C12)

Grab groundwater samples may have been collected without protection against cross contamination between groundwater zones; may
not be discrete.

A-Zone ~3.5 to 12 ft below grade (bg)

B-Zone ~13 to 24 ft bg

C-Zone ~25 to 40 ft bg

* = Sample SB-18B collected in the C-zone

** = Insufficient volume of groundwater to sample for analysis.

a = Laboratory note: TPH pattern that does not appear to be derived from gasoline (Stoddard solvent/mineral spirit?)

b = Laboratory note: lighter than water immiscible sheen/product is present

c = Laboratory note: liquid sample that contains greater than ~1 vol. % sediment

d = Laboratory note: gasoline range compounds are significant

e = Laboratory note: oil range compounds are significant

f = Laboratory note: diesel range compounds are significant; no recognizable pattern

g = Laboratory note: one to a few isolated non-target peaks present

h = Laboratory note: unmodified or weakly modified gasoline is significant

i = Laboratory note: sample diluted due to high organic content

j = Laboratory note: strongly aged gasoline or diesel range compounds are significant

k = Laboratory note: stoddard solvent/mineral spirit

APPENDIX A

AGENCY CORRESPONDENCE, FEBRUARY 22, 2012



ENVIRONMENTAL HEALTH DEPARTMENT
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

February 22, 2012

Mr. John Nady
Nady Systems
11 Glen Alpine Road
Piedmont, CA 94611

Subject: Sample Frequency Reduction for Fuel Leak Case No. RO0000082 and Geotracker Global ID T0600138389, Nady System Inc., 1137 65th St., Oakland, CA 94608

Dear Mr. Nady:

Alameda County Environmental Health (ACEH) has reviewed the recently submitted document entitled, *Proposed Elimination of Groundwater Monitoring and Sampling of Select Wells* dated January 27, 2012 which was prepared by Conestoga-Rovers & Associates (CRA) for the subject site. CRA proposes elimination of sampling and monitoring for two upgradient wells in the A-Zone, all of the monitoring in wells in the B and C Zones and eliminating halogenated volatile organic compound (HVOC) analysis in remaining wells.

ACEH has reviewed your request and agreed to the sample frequency reductions as presented in the comment below.

TECHNICAL COMMENTS

1. **Elimination of Groundwater Sample Analysis** – ACEH concurs with eliminating all groundwater analysis for wells MW-2A, MW-4A, MW-3B, MW-7B, and MW-3C. Please note that elimination of groundwater sampling does not negate your responsibility to monitor groundwater elevations in all wells once a year until the wells are destroyed. Also, well sample analysis may need to be increased once corrective action is implemented. A review should be made at that time to include all affected wells in the monitoring scheme.

Eliminate hydrocarbon analysis in MW-1B but continue HVOC analysis. The HVOC analysis indicates the presence of PCE degradation products which ACEH would like to continue to have monitored in this area.

Please analyze MW-7C one more time for hydrocarbons only since the data is variable. If the value is below the detection limit, discontinue analysis for hydrocarbons. Discontinue HVOC analysis at this time.

2. **Downgradient Wells MW-6A, MW-6B, and MW-6C** – These wells represent the downgradient monitoring wells for the site and as such should remain in the monitoring network. However, you may eliminate hydrocarbon analysis from MW-6C and HVOC analysis from MW-6A and MW-6B at this time. Once again, initiation of corrective action will require a review of the monitoring network, which may result in adding these analytes back to the sampling suite.

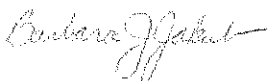
TECHNICAL REPORT REQUEST

Please submit technical reports to ACEH (Attention: Barbara Jakub), according to the following schedule:

- **April 20, 2012** – Groundwater Monitoring Report (First Half 2012)
- **October 20, 2012** – Groundwater Monitoring Report (Second Half 2012)

Thank you for your cooperation. Should you have any questions or concerns regarding this correspondence or your case, please call me at (510) 639-1287 or send me an electronic mail message at barbara.jakub@acgov.org.

Sincerely,



Barbara J. Jakub, P.G.
Hazardous Materials Specialist

Digitally signed by Barbara J. Jakub
DN: cn=Barbara J. Jakub, o, ou,
email=barbara.jakub@acgov.org,
c=US
Date: 2012.02.22 15:57:20 -08'00'

Enclosure: Responsible Party(ies) Legal Requirements/Obligations
ACEH Electronic Report Upload (ftp) Instructions

cc: Bob Foss, Conestoga-Rovers & Associates, 5900 Hollis St, Suite A, Emeryville, CA (via e-mail: bfoss@croworld.com)
Frederick Shrag, 6701 Shellmound Street, Emeryville, CA 94608 (via e-mail: schrag@nady.com)
Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 (Sent via E-mail to: lgriffin@oaklandnet.com)
Donna Drogos, ACEH (Sent via E-mail to: donna.drogos@acgov.org)
Barbara Jakub, ACEH (Sent via E-mail to: barbara.jakub@acgov.org)
GeoTracker, File

Responsible Party(ies) Legal Requirements/Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	REVISION DATE: July 20, 2010
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

- 1) Obtain User Name and Password:
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to deh.loptoxic@acgov.org
 - b) In the subject line of your request, be sure to include "**ftp PASSWORD REQUEST**" and in the body of your request, include the **Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
 - (i) **Note:** Netscape, Safari, and Firefox browsers will not open the FTP site.
 - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to deh.loptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

From: Jakub, Barbara, Env. Health [barbara.jakub@acgov.org]
Sent: Monday, April 02, 2012 9:09 AM
To: 'Pat Cullen'; Foss, Bob (Robert)
Cc: David Charter
Subject: RE: Inquiry about the elimination of GW Elevation and Flow Direction Maps in reports
I'll place this in our file so we have a record as well.
Barb Jakub

From: Pat Cullen [mailto:PCullen@waterboards.ca.gov]
Sent: Monday, April 02, 2012 8:43 AM
To: Bob (Robert) Foss
Cc: Jakub, Barbara, Env. Health; David Charter
Subject: Re: Inquiry about the elimination of GW Elevation and Flow Direction Maps in reports

Bob -

I'll back you if any body says something here at the Fund, I agree with this recommendation for cost savings. As you can see I copied the money guy here (Dave Charter), and the LOP (Barbara Jakub). If either have issues they can speak up now so you have clear direction from all involved. I'd just make a note in future reports that this is what was agreed upon so if someone not copied will understand.

Pat

>>> "Foss, Bob (Robert)" <bfoss@croworld.com> 3/30/2012 5:33 PM >>>
Pat:

I am inquiring about a modification to the components of future groundwater monitoring reports at one of my sites in Oakland. We had an assigned Fund budget for FY 2011-2012 of \$28,442. With additional requests from Alameda County Environmental Health Dept, we will very likely exceed the allocated budget. We have been monitoring and reporting groundwater elevations and flow directions twice each year. Looking for ways to reduce costs to stay within the budget, we noticed the wording in an ACEH letter to us of Feb 22, 2012. The letter states that groundwater needs to be gauged once a year. There are three loosely-defined water bearing zones that are contoured at this site so the cost of gauging 17 wells and creating three potentiometric maps adds up. I have spoken with Barbara Jakub of ACEH and she is okay with us producing potentiometric maps for only one of the two semi-annual events, i.e., in the report for the second half of each year but not in the report for the first half of each year, but warned us that the Fund may not view this as a complete report and perhaps not reimburse 100% of the cost of the monitoring/sampling event and report. We have groundwater data going back to June 2004 with elevations and flow direction essentially consistent for almost 8 years.

Before we implement this cost savings, we wanted confirmation that the Tank Fund would not consider reports to be incomplete if they did not contain groundwater elevation and flow direction figures, thereby jeopardizing full reimbursement. Can you please provide us with a response to this question or direct me to someone who can? Thank you in advance for your response to our question.

Bob Foss

Robert C. Foss, P.G.
Conestoga-Rovers & Associates (CRA)
5900 Hollis Street, Suite A
Emeryville, CA 94608
(510) 420-3348 office
(925) 413-8707 cell
(510) 420-9170 fax

APPENDIX B

STANDARD FIELD PROCEDURES FOR GROUNDWATER
MONITORING AND LOW FLOW 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 Associates' 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 Liquinox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water.

Groundwater Purging and Sampling

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

Wells shall be purged according to low flow protocol using an aboveground peristaltic pump. Groundwater wells shall be purged at a low flow rate not to exceed

500 milliliters per minute (mL/min) until groundwater parameters of conductivity and/or dissolved oxygen have stabilized to within 10 percent 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.

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

Sample Handling

Except for samples that will be tested in the field, or that require special handling or preservation, samples shall be stored in coolers chilled to 4° C for shipment to the analytical laboratory. Samples shall be labeled, placed in protective foam sleeves or bubble wrap as needed, stored on crushed ice at or below 4° C, and submitted under chain-of-custody (COC) to the laboratory. The laboratory shall be notified of the sample shipment schedule and arrival time. Samples shall be shipped to the laboratory within a time frame to allow for extraction and analysis to be performed within the standard sample holding times.

Sample labels shall be filled out using indelible ink and must contain the site name; field identification number; the date, time, and location of sample collection; notation of the type of sample; identification of preservatives used; remarks; and the signature of the sampler. Field identification must be sufficient to allow easy cross-reference with the field datasheet.

All samples submitted to the laboratory shall be accompanied by a COC record to ensure adequate documentation. A copy of the COC shall be retained in the project file. Information on the COC shall consist of the project name and number; project location; sample numbers; sampler/recorder's signature; date and time of collection of each sample; sample type; analyses requested; name of person receiving the sample; and date of receipt of sample.

Laboratory-supplied trip blanks shall accompany the samples and be analyzed to check for cross-contamination, if requested by the project manager.

Waste Handling and Disposal


Groundwater extracted during sampling shall be stored onsite in sealed U.S. DOT H17 55-gallon drums and shall be labeled with the contents, date of generation, generator identification, and consultant contact. Extracted groundwater may be disposed offsite by a licensed waste handler or may be treated and discharged via an operating onsite groundwater extraction/treatment system.

APPENDIX C

FIELD DATA SHEETS



WELL GAUGING SHEET

Client: Conestoga-Rovers and Associates						PS 1 of 2
Site Address: 1137-1167 65th Street, Oakland, CA						
Date: 3/19/2012			Signature: 			
Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MW-1A	05:35		1.50		14.40	
MW-1B	05:30		8.68		19.70	
MW-1C	05:25		6.65		34.55	
MW-2A	04:55		0.61		11.15	
MW-3A	05:55		3.85		13.85	
MW-3B	05:50		6.61		23.71	
MW-3C	05:45		8.63		35.52	
MW-4A	04:50		2.08		12.65	
MW-4B	04:45		4.23		20.75	
MW-4C	04:40		6.91		32.03	
MW-5B	04:35		6.65		23.05	



MICRO PURGE WELL SAMPLING FORM

Date:	3/19/2012
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-1A
Well Diameter:	2"
Purging Device:	Peristaltic Pump
Sampling Method:	Peristaltic Pump
Total Well Depth from top of casing:	14.40
Water level at the start of purge from top of casing:	1.50
Approximate depth of water intake on pump from top of casing:	7.0

TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. (µS/cm)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
09:40	100						1.50		
09:43	100	16.9	6.83	390	46	0.98	1.53	14	
09:46	100	17.1	6.86	395	49	0.95	1.53	16	
09:49	100	17.1	6.87	399	53	0.93	1.56	12	
09:52	100	17.3	6.87	399	54	0.91	1.57	14	
09:55	100	17.3	6.88	401	54	0.91	1.59	15	
									total purge volume = 1500 ml
Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method			
MW-1A	3/19/12	09:56	see coc	see coc	see coc	see coc			

Signature:



MICRO PURGE WELL SAMPLING FORM

Date:	3/19/2012
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-1B
Well Diameter:	2"
Purging Device:	Peristaltic Pump
Sampling Method:	Peristaltic Pump
Total Well Depth from top of casing:	19.70
Water level at the start of purge from top of casing:	8.66
Approximate depth of water intake on pump from top of casing:	17.5

TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. (µS/cm)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
09:08	100	--	--	--	--	--	8.66	—	
09:11	100	15.7	6.49	993	46	0.92	8.68	26	
09:14	100	15.6	6.53	921	40	0.80	8.69	21	
09:17	100	15.6	6.57	920	38	0.79	8.72	19	
09:20	100	15.3	6.59	917	38	0.78	8.72	20	
09:23	100	15.2	6.60	917	37	0.78	8.73	22	
									total purge volume = 1500 ml

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-1B	3/19/12	09:24	see coc	see coc	see coc	see coc

Signature: 




MICRO PURGE WELL SAMPLING FORM

Date:	3/19/2012
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-3A
Well Diameter:	2"
Purging Device:	Peristaltic Pump
Sampling Method:	Peristaltic Pump
Total Well Depth from top of casing:	1385
Water level at the start of purge from top of casing:	3.82
Approximate depth of water intake on pump from top of casing:	6.0

TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. (μS/cm)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
12:26	100	--	--	--	--	--	3.82	—	
12:29	100	16.1	6.87	1160	-89	0.93	3.86	29	
12:32	100	16.4	6.89	1190	-71	0.80	3.88	34	
12:35	100	16.4	7.02	1192	-65	0.80	3.89	32	
12:38	100	16.5	7.03	1194	-64	0.79	3.89	31	
12:41	100	16.5	7.03	1195	-64	0.78	3.90	35	
									total purge volume = 1500 ml

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-3A	3/19/12	12:42	see coc	see coc	see coc	see coc

Signature: 



MICRO PURGE WELL SAMPLING FORM

Date:	3/19/2012
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MH-6A
Well Diameter:	2"
Purging Device:	Peristaltic Pump
Sampling Method:	Peristaltic Pump
Total Well Depth from top of casing:	14.10
Water level at the start of purge from top of casing:	1.95
Approximate depth of water intake on pump from top of casing:	7.0

TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. (µS/cm)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
08:09	100	-	-	-	-	-	1.95	-	
08:12	100	16.7	6.57	554	12	0.72	1.97	10	
08:15	100	16.9	6.59	537	10	0.68	1.99	17	
08:18	100	17.0	6.61	534	9	0.68	2.01	14	
08:21	100	17.0	6.62	533	9	0.68	2.02	12	
08:24	100	17.1	6.64	532	7	0.67	2.02	12	
									total purge volume = 1500 ml

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MH-6A	3/19/12	08:25	SEC COC	SEC COC	SEC COC	see COC

Signature:



MICRO PURGE WELL SAMPLING FORM

Date:	3/19/2012
Client:	Conestoga-Rovers and Associates
Site Address:	1137-1167 65th Street, Oakland, CA
Well ID:	MW-6C
Well Diameter:	2"
Purging Device:	Peristaltic Pump
Sampling Method:	Peristaltic Pump
Total Well Depth from top of casing:	33.75
Water level at the start of purge from top of casing:	5.40
Approximate depth of water intake on pump from top of casing:	28.0

TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. (µS/cm)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
06:37	100	-	-	-	-	-	5.40	-	
06:40	100	17.1	6.71	1093	29	0.84	5.46	29	
06:43	100	17.2	6.77	1071	24	0.81	5.47	16	
06:46	100	17.2	6.78	1065	20	0.81	5.48	18	
06:49	100	17.4	6.79	1064	18	0.80	5.49	17	
06:52	100	17.4	6.79	1063	18	0.79	5.49	14	
									total purge volume = 1500 ml

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-6C	3/19/12	06:53	see coc	see coc	see coc	see coc

Signature:



MICRO PURGE WELL SAMPLING FORM

Date: 3/19/2012

Client: Conestoga-Rovers and Associates

Site Address: 1137-1167 65th Street, Oakland, CA

Well ID: MW-7A

Well Diameter: 1"

Purging Device: Peristaltic Pump

Sampling Method: Peristaltic Pump

Total Well Depth from top of casing: 10.00

Water level at the start of purge from top of casing: 3.89

Approximate depth of water intake on pump from top of casing: 6.0

TIME:	Purged Rate (ml/min)	TEMP (Celsius)	pH	COND. (µS/cm)	ORP (mV)	DO (mg/L)	Drawdown Water Level (ft)	Turbidity (NTU)	Comments
10:35	100	-	-	-	-	-	3.89	-	
10:38	100	15.3	6.77	1080	-46	0.93	3.92	62	
11:41	100	15.7	6.79	1076	-32	0.78	3.94	49	
11:44	100	15.8	6.79	1069	-27	0.77	3.96	44	
11:47	100	15.9	6.81	1068	-25	0.77	3.97	47	
11:50	100	15.9	6.82	1067	-25	0.76	3.99	48	
									total purge volume = 1500 ml

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-7A	3/19/12	11:51	SEE COC	SEE COC	SEE COC	SEE COC

Signature:

APPENDIX D

CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



Analytical Report

Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #521000; John Nady	Date Sampled: 03/19/12
		Date Received: 03/19/12
	Client Contact: Bob Foss	Date Reported: 03/26/12
	Client P.O.:	Date Completed: 03/22/12

WorkOrder: 1203620

March 26, 2012

Dear Bob:

Enclosed within are:

- 1) The results of the **8** analyzed samples from your project: **#521000; John Nady**,
- 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 McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.

1203620



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mccampbell.com / 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: Bob Fass	Bill To: Conestoga Rivers & Associates	Analysis Request	Other	Comments
Company: Conestoga Rivers & Associates 5900 Hollis St., Ste. A Emeryville, CA				
E-Mail: bfass@eraworld.com tkirnan@eraworld.com				
Tele: (510) 420-3848	Fax: (510) 420-9170			
Project #: 521000	Project Name: John Nady			
Project Location: 1137-1167 65th St., Oakland, CA				
Sampler Signature: Muskan Environmental Sampling				

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED					Other	Comments															
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₅	Other	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE			TPH as Diesel (8015) / <i>nitr-silica gel</i>	Total Petroleum Oil & Grease (1664 / 8520 E/R&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 (8010) 8021 (IVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 824.2 / 624 / 8260 (VOC's)	EPA 825.2 / 625 / 8270 (SVOC's)	EPA 8270 SIM / 8310 (PAHs / PNAS)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)
MW-1A		3/19/12	09:56	3	VOA												X														X	
MW-1B			09:24	3	VOA													X													X	
MW-3A			12:42	3	VOA												X														X	
MW-6A			08:25	3	VOA												X														X	
MW-6B			07:28	3	VOA												X														X	
MW-6C			06:53	3	VOA												X														X	
MW-7A			11:51	3	VOA												X														X	
MW-7C			10:54	2	VOA												X														X	

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

Relinquished By:	Date: 3/19/12	Time: 14:40	Received By:	COMMENTS: ICEA <i>650C</i> GOOD CONDITION <input checked="" type="checkbox"/> HEAD SPACE ABSENT <input checked="" type="checkbox"/> DECHLORINATED IN LAB <input checked="" type="checkbox"/> APPROPRIATE CONTAINERS <input checked="" type="checkbox"/> PRESERVED IN LAB <input checked="" type="checkbox"/> PRESERVATION <input checked="" type="checkbox"/> VOAS <input checked="" type="checkbox"/> O&G <input checked="" type="checkbox"/> METALS <input checked="" type="checkbox"/> OTHER pH<2
Relinquished By:	Date:	Time:	Received By:	
Relinquished By:	Date:	Time:	Received By:	

McC Campbell Analytical, Inc.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1203620

ClientCode: CETE

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

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

Email: bfoss@craworld.com
 cc:
 PO:
 ProjectNo: #521000; John Nady

Bill to:

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

Requested TAT: 5 days

Date Received: 03/19/2012
 Date Printed: 03/19/2012

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	
1203620-001	MW-1A	Water	3/19/2012 9:56	<input type="checkbox"/>	B	A	A										
1203620-002	MW-1B	Water	3/19/2012 9:24	<input type="checkbox"/>	A												
1203620-003	MW-3A	Water	3/19/2012 12:42	<input type="checkbox"/>		A											
1203620-004	MW-6A	Water	3/19/2012 8:25	<input type="checkbox"/>		A											
1203620-005	MW-6B	Water	3/19/2012 7:28	<input type="checkbox"/>		A											
1203620-006	MW-6C	Water	3/19/2012 6:53	<input type="checkbox"/>	A												
1203620-007	MW-7A	Water	3/19/2012 11:51	<input type="checkbox"/>		A											
1203620-008	MW-7C	Water	3/19/2012 10:54	<input type="checkbox"/>		A											

Test Legend:

1	8010BMS_W	2	G-MBTEX_W	3	PREFD REPORT	4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 003A, 004A, 005A, 007A, 008A contain testgroup.

Prepared by: Maria Venegas

Comments:

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



Sample Receipt Checklist

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

Date and Time Received: **3/19/2012 3:33:21 PM**

Project Name: **#521000; John Nady**

Checklist completed and reviewed by: **Zoraida Cortez**

WorkOrder N°: **1203620** 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: 6.5°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- Metal - pH acceptable upon receipt (pH<2)? Yes No NA
- Samples Received on Ice? Yes No

(Ice Type: WET ICE)

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

 Comments:



Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #521000; John Nady	Date Sampled: 03/19/12
		Date Received: 03/19/12
	Client Contact: Bob Foss	Date Extracted: 03/21/12-03/22/12
	Client P.O.:	Date Analyzed: 03/21/12-03/22/12

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1203620

Lab ID	1203620-001B	1203620-002A	1203620-006A	Reporting Limit for DF=1	
Client ID	MW-1A	MW-1B	MW-6C	S	W
Matrix	W	W	W		
DF	1	1	1		
Compound	Concentration			µg/kg	µg/L
Bromodichloromethane	ND	ND	ND	NA	0.5
Bromoform	ND	ND	ND	NA	0.5
Bromomethane	ND	ND	ND	NA	0.5
Carbon Tetrachloride	ND	ND	ND	NA	0.5
Chlorobenzene	ND	ND	ND	NA	0.5
Chloroethane	ND	ND	ND	NA	0.5
Chloroform	ND	ND	ND	NA	0.5
Chloromethane	ND	ND	ND	NA	0.5
Dibromochloromethane	ND	ND	ND	NA	0.5
1,2-Dibromoethane (EDB)	ND	ND	ND	NA	0.5
1,2-Dichlorobenzene	0.83	ND	ND	NA	0.5
1,3-Dichlorobenzene	ND	ND	ND	NA	0.5
1,4-Dichlorobenzene	ND	ND	ND	NA	0.5
Dichlorodifluoromethane	ND	ND	ND	NA	0.5
1,1-Dichloroethane	0.90	15	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	10	ND	NA	0.5
1,1-Dichloroethene	ND	ND	ND	NA	0.5
cis-1,2-Dichloroethene	5.4	7.5	ND	NA	0.5
trans-1,2-Dichloroethene	ND	ND	ND	NA	0.5
1,2-Dichloropropane	ND	ND	ND	NA	0.5
cis-1,3-Dichloropropene	ND	ND	ND	NA	0.5
trans-1,3-Dichloropropene	ND	ND	ND	NA	0.5
Freon 113	ND	ND	ND	NA	10
Methylene chloride	ND	ND	ND	NA	0.5
1,1,1,2-Tetrachloroethane	ND	ND	ND	NA	0.5
1,1,1,2,2-Tetrachloroethane	0.52	ND	ND	NA	0.5
Tetrachloroethene	3.5	ND	ND	NA	0.5
1,1,1-Trichloroethane	ND	ND	ND	NA	0.5
1,1,2-Trichloroethane	ND	ND	ND	NA	0.5
Trichloroethene	2.2	ND	ND	NA	0.5
Trichlorofluoromethane	ND	ND	ND	NA	0.5
Vinyl Chloride	1.3	ND	ND	NA	0.5

Surrogate Recoveries (%)

%SS1:	108	114	113	
%SS2:	106	109	108	
%SS3:	99	112	112	
Comments				

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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



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"When Quality Counts"

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http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Table with client information: Conestoga-Rovers & Associates, Client Project ID: #521000; John Nady, Date Sampled: 03/19/12, Date Received: 03/19/12, Client Contact: Bob Foss, Date Extracted: 03/20/12-03/22/12, Emeryville, CA 94608, Client P.O., Date Analyzed: 03/20/12-03/22/12

Gasoline Range (C6-C12) and Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons as Gasoline and Stoddard Solvent*

Extraction method: SW5030B

Analytical methods: SW8015Bm

Work Order: 1203620

Main data table with columns: Lab ID, Client ID, Matrix, TPH(g), TPH(ss), DF, % SS, Comments. Rows include 001A through 008A with various TPH values and comments like 'd2,d9', 'd2', 'd5'.

Reporting Limit table with columns for W, S, TPH(g), TPH(ss), and µg/L. Values include 50, NA, and 50.

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

- d2) heavier gasoline range compounds are significant (aged gasoline?)
d5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)
d9) no recognizable pattern



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Conestoga-Rovers & Associates 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #521000; John Nady	Date Sampled: 03/19/12
		Date Received: 03/19/12
	Client Contact: Bob Foss	Date Extracted: 03/19/12
	Client P.O.:	Date Analyzed: 03/20/12-03/21/12

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3510C/3630C

Analytical methods: SW8015B

Work Order: 1203620

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1203620-001A	MW-1A	W	180	ND	1	102	e11
1203620-003A	MW-3A	W	900	ND	1	113	e11
1203620-004A	MW-6A	W	1000	ND	1	103	e11
1203620-005A	MW-6B	W	110	ND	1	99	e11
1203620-007A	MW-7A	W	140	ND	1	102	e11
1203620-008A	MW-7C	W	ND	ND	1	99	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

* 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 / STLC / SPLP / TCLP extracts are reported in µg/L.

#) 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; &) low or no surrogate 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 McC Campbell Analytical is not responsible for their interpretation:
 e11) stoddard solvent/mineral spirit (?)

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 66023

WorkOrder: 1203620

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Chlorobenzene	ND	10	94.5	95.4	0.944	97.7	70 - 130	20	70 - 130
1,2-Dibromoethane (EDB)	ND	10	103	105	1.87	103	70 - 130	20	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	107	109	1.98	106	70 - 130	20	70 - 130
1,1-Dichloroethene	ND	10	97	99.3	2.38	103	70 - 130	20	70 - 130
Trichloroethene	ND	10	96.2	97.9	1.74	102	70 - 130	20	70 - 130
%SS1:	113	25	113	114	0.945	111	70 - 130	20	70 - 130
%SS2:	108	25	107	108	0.417	109	70 - 130	20	70 - 130
%SS3:	113	2.5	113	114	0.766	115	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 66023 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203620-001B	03/19/12 9:56 AM	03/21/12	03/21/12 10:57 PM	1203620-002A	03/19/12 9:24 AM	03/21/12	03/21/12 11:36 PM
1203620-006A	03/19/12 6:53 AM	03/22/12	03/22/12 12:14 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.
 Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 65995

WorkOrder: 1203620

EPA Method: SW8021B/8015Bm		Extraction: SW5030B					Spiked Sample ID: 1203677-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) [£]	ND	60	77.4	72	7.27	71.6	70 - 130	20	70 - 130	
MTBE	ND	10	107	109	2.08	102	70 - 130	20	70 - 130	
Benzene	ND	10	109	113	2.83	99.3	70 - 130	20	70 - 130	
Toluene	ND	10	101	99.8	1.26	87.6	70 - 130	20	70 - 130	
Ethylbenzene	ND	10	98.2	102	3.52	90.7	70 - 130	20	70 - 130	
Xylenes	ND	30	113	116	2.34	104	70 - 130	20	70 - 130	
%SS:	99	10	113	110	3.01	103	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 65995 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203620-001A	03/19/12 9:56 AM	03/20/12	03/20/12 4:26 PM	1203620-003A	03/19/12 12:42 PM	03/20/12	03/20/12 5:56 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked})$; $\text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2)$.
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 £ 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 SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 66029

WorkOrder: 1203620

EPA Method: SW8021B/8015Bm		Extraction: SW5030B					Spiked Sample ID: 1203630-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) [£]	ND	60	84.8	72.5	15.7	71	70 - 130	20	70 - 130	
MTBE	ND	10	109	103	6.59	99.7	70 - 130	20	70 - 130	
Benzene	ND	10	101	101	0	102	70 - 130	20	70 - 130	
Toluene	ND	10	96.9	91	6.15	94.1	70 - 130	20	70 - 130	
Ethylbenzene	ND	10	93.7	93.4	0.277	94.9	70 - 130	20	70 - 130	
Xylenes	ND	30	107	108	0.653	109	70 - 130	20	70 - 130	
%SS:	97	10	108	99	8.54	104	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 66029 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203620-004A	03/19/12 8:25 AM	03/21/12	03/21/12 10:50 PM	1203620-005A	03/19/12 7:28 AM	03/21/12	03/21/12 11:50 PM
1203620-007A	03/19/12 11:51 AM	03/22/12	03/22/12 12:20 AM	1203620-008A	03/19/12 10:54 AM	03/22/12	03/22/12 2:19 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.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 65775

WorkOrder: 1203620

EPA Method: SW8015B		Extraction: SW3510C/3630C					Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	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	126	N/A	N/A	70 - 130	
%SS:	N/A	625	N/A	N/A	N/A	94	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 65775 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1203620-001A	03/19/12 9:56 AM	03/19/12	03/20/12 1:06 AM	1203620-003A	03/19/12 12:42 PM	03/19/12	03/20/12 5:34 AM
1203620-004A	03/19/12 8:25 AM	03/19/12	03/20/12 6:41 AM	1203620-005A	03/19/12 7:28 AM	03/19/12	03/21/12 5:27 AM
1203620-007A	03/19/12 11:51 AM	03/19/12	03/20/12 2:13 AM	1203620-008A	03/19/12 10:54 AM	03/19/12	03/21/12 6:45 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.