WAREHAM
PROPERTY GROUP

February 8, 2010

Project No. 3494.01

Mr. Mark Detterman
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: Letter Report
Groundwater Monitoring Conducted January 15, 2010
Fuel Leak Case No. RO0000052
Former Peterson Manufacturing Company Facility
1600 63rd Street
Emeryville, California

Dear Mr. Detterman:

As a legally authorized representative of 1600 63rd Street Associates, and on behalf of 1600 63rd Street Associates I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document titled *Letter Report, Groundwater Monitoring conducted 15 January 2010, Fuel Leak Case No. RO0000052, Former Peterson Manufacturing Company Facility, 1600 63rd Street, Emeryville, California,* are true and correct to the best of my knowledge.

Sincerely yours,

Geoffrey B. Sears

Geoffrey B. Sears
WAREHAM PROPERTY GROUP
On behalf of 1600 63rd Street Associates

Enclosure

Treadwell&Rollo

8 February 2010
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Hazardous Materials Specialist
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1131 Harbor Bay Parkway, Suite 250
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Groundwater Monitoring Conducted 15 January 2010
Fuel Leak Case No. RO0000052
Former Peterson Manufacturing Company Facility
1600 63rd Street
Emeryville, California

Dear Mr. Detterman:

This letter report is submitted by Treadwell & Rollo, Inc. (T&R) on behalf of 1600 63rd Street Associates to document groundwater monitoring conducted on 15 January 2010 at 1600 63rd Street, Emeryville, California (the "Site"). The monitoring is being conducted to address item 5 in the 11 September 2008 letter from Alameda County Environmental Health Services (ACEHS).

BACKGROUND

The Site is located at 1600 63rd Street, Emeryville, California (Figure 1). The Site occupies 2.75 acres bounded by 63rd Street to the south, Overland Avenue to the west, 64th Street to the north, and the City of Emeryville Fire Station Number 2 to the east (Figure 2). The surrounding land use is primarily commercial and light industrial.

Numerous environmental investigation and remediation activities have been conducted by others at the Site since 1987. Historical environmental activities are documented in previous reports (SOMA, 1999a and T&R 2007a), and are not described in this report.

GROUNDWATER MONITORING

On 15 January 2010, groundwater monitoring and sampling were conducted for monitoring wells TR-1, TR-3, and TR-4. Monitoring wells TR-2, TR-5, and MW-2 were not sampled due to the presence of free phase product in the wells. Figure 2 shows the monitoring well locations.

Groundwater Sampling and Analytical Methods

Treadwell and Rollo used an oil/water interface meter to measure the depth to groundwater in monitoring wells TR-1, TR-2, TR-3, TR-4, TR-5 and MW-2. A sheen (<0.01 foot in thickness) of free phase product was detected in wells MW-2, TR-2, and TR-5. Groundwater elevations are summarized in Table 1. Free phase product measurements are summarized in Table 2.

Groundwater is interpreted to flow towards the west based on groundwater elevations measured on 15 January 2010. Groundwater gradient information is shown on Figure 3.

Groundwater samples from monitoring wells (TR-1, TR-3, and TR-4) were collected by purging at least three casing volumes of water from each well using a submersible purge pump. During purging, water-quality parameters (pH, temperature, conductivity, oxidation-reduction potential and dissolved oxygen) were measured, and stabilized values were measured after purging was completed. Groundwater sampling forms are included in Appendix A. Stabilized groundwater quality values are presented in Table 3.

Purged groundwater samples were collected and placed into appropriately-preserved containers prepared by the laboratory for analysis. Each sample was immediately sealed, labeled, placed in an ice-cooled chest, and delivered to Curtis & Tompkins, a State-certified laboratory in Berkeley, California, under chain-of-custody procedures. Groundwater samples were analyzed for total petroleum hydrocarbons quantified as diesel (TPHd) by EPA Method 8015M.

Groundwater Analytical Results

TPHd was detected in all three samples, and concentrations ranged from 0.24 mg/L to 0.72 mg/L. The laboratory reported that the chromatograms do not match the diesel standard (Table 4 and Appendix B). Previous investigations (SOMA Corporation, 1999a and 1999b) have reported that the chromatograms do not match the diesel standard and that Friedman & Bruya results indicate “patterns displayed by these peaks are indicative of Bunker C or crude oil.” The groundwater analytical results from the monitoring event are similar to the historical groundwater data.

Groundwater analytical results are presented in Table 4. Groundwater Sampling Forms are presented in Appendix A. Certified analytical laboratory reports are provided in Appendix B. Figure 2 shows the monitoring well locations.

Free Phase Product Results

The observed free phase product is dark brown to black in color and viscous. Free phase product is passively collected and removed by using hydrophobic collection socks and canisters located in wells MW-2, TR-2, and TR-5. The passive remediation system is monitored periodically. Removal volume measurements are collected and free phase product thickness measurements are performed. In the period of 24 December 2008 to 15 January 2010, 0.83 liters (L) of product was removed in well MW-2, 1.59 L was removed in well TR-2, and 1.65 L of product was removed in well TR-5. Historical free phase product data is shown on Table 5. Free phase product operations and maintenance forms are included in Appendix A.

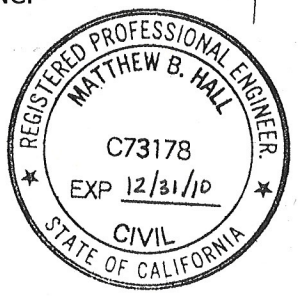
CONCLUSIONS

Based on the monitoring results from the period January 2007 to January 2010, concentrations of the analyzed constituents are stable in the sampled wells. The next groundwater monitoring event will occur in January 2011. This scheduling may be accelerated in the event that the pending work plan (Treadwell & Rollo 2009b) for off-site investigation is approved by ACEH.

The results of the monitoring indicate that the hydrophobic socks are appropriate for removal of the free phase product in monitoring wells MW-2, TR-2 and TR-5. The next free phase product monitoring event will occur in June 2010. The scheduling may be accelerated in the event that the pending work plan (Treadwell & Rollo 2009b) for off-site investigation is approved by ACEH.

Please feel free to contact Matt Hall at (415) 955-9040 ext. 267 with any questions or comments.

Sincerely yours,
TREADWELL & ROLLO, INC.



Matthew B. Hall, PE
Senior Project Engineer

Patrick B. Hubbard, PG, CEG
Principal Geologist

34940102.MH

Attachments:
References
Tables
Figures
Appendix A – Groundwater Sampling Forms and Free Phase Product Monitoring Forms (on CD-ROM)
Appendix B – Laboratory Analytical Reports (on CD-ROM)

REFERENCES

SOMA Corporation 1999a. Shallow Groundwater Sampling Results and Addendum to Additional Groundwater investigation Workplan, 1600 63rd Street, Emeryville. 7 July 1999.

SOMA Corporation 1999b. Shallow Groundwater Investigation Results, 1600 63rd Street, Emeryville. 2 September 1999.

Treadwell & Rollo 2007a. Letter Report, Supplemental Soil and Groundwater Investigation, Fuel Leak Case No. RO0000052, Former Peterson Manufacturing Company Facility, 1600 63rd Street, Emeryville, California. 21 March 2007.

Treadwell & Rollo 2007b. Letter Report, Groundwater Monitoring Conducted 26 July 2007, Fuel Leak Case No. RO0000052, Former Peterson Manufacturing Company Facility, 1600 63rd Street, Emeryville, California. 3 October 2007.

Treadwell & Rollo 2007c. Letter Report, Groundwater Monitoring conducted 30 October 2007, Fuel Leak Case No. RO0000052, Former Peterson Manufacturing Company Facility. 1600 63rd Street, Emeryville, California. 20 December 2007.

Treadwell & Rollo 2008a. Letter Report, Groundwater Monitoring conducted 30 January 2008, Fuel Leak Case No. RO0000052, Former Peterson Manufacturing Company Facility, 1600 63rd Street, Emeryville, California. 6 March 2008.

Treadwell & Rollo 2008b. Letter Report, Groundwater Monitoring conducted 3 October 2008, Fuel Leak Case No. RO0000052, Former Peterson Manufacturing Company Facility, 1600 63rd Street, Emeryville, California. 24 October 2008.

Treadwell & Rollo 2009a. Letter Report, Groundwater Monitoring conducted 23 December 2008, Fuel Leak Case No. RO0000052, Former Peterson Manufacturing Company Facility, 1600 63rd Street, Emeryville, California. 9 March 2009.

Treadwell & Rollo 2009b. Work Plan: Supplemental Soil and Groundwater Investigation, Fuel Leak Case No. RO0000052, Former Peterson Manufacturing Company Facility, 1600 63rd Street, Emeryville, California. 9 March 2009.

Treadwell & Rollo 2010a. Letter Report, Groundwater Monitoring conducted 15 January 2010, Fuel Leak Case No. RO0000052, Former Peterson Manufacturing Company Facility, 1600 63rd Street, Emeryville, California. 8 February 2010.

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Treadwell & Rollo 2010a. Letter Report, Groundwater Monitoring conducted 15 January 2010, Fuel Leak Case No. RO0000052, Former Peterson Manufacturing Company Facility, 1600 63rd Street, Emeryville, California. 8 February 2010.

TABLES

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TABLE 1
GROUNDWATER
ELEVATION DATA
1600 63rd Street, Emeryville, California

Well Number	Top-of-Casing Elevation (feet)	Depth of Well Screen Interval (feet)	Date Measured	Depth to Water (feet)	Water Elevation (feet msl)	Change in Elevation (feet)
MW-2	16.53	12.5-20.5	08/03/89	6.66	9.87	
			09/21/89	6.32	10.21	0.34
			10/20/89	6.78	9.75	-0.46
			12/20/89	7.32	9.21	-0.54
			03/20/90	6.76	9.77	0.56
			05/11/90	6.66*	--	--
			07/20/90	6.74*	--	--
			11/12/90	6.75*	--	--
			11/21/90	7.00*	--	--
			02/07/91	6.88*	--	--
			05/08/91	6.92*	--	--
			05/14/99	NM*	--	--
			11/28/06	6.85*	--	--
			01/15/07	6.80*	--	--
			01/30/07	6.40*	--	--
			02/13/07	5.83*	--	--
			02/27/07	5.89*	--	--
			07/26/07	6.67*	--	--
			10/30/07	7.16	9.37	--
			01/30/08	5.96	10.57	1.20
			10/03/08	7.57	8.96	-1.61
			11/20/08	7.46	9.07	0.11
			12/23/08	6.73	9.80	0.73
			01/15/10	6.95	9.58	-0.22
TR-1	17.50	5-20	01/15/07	6.21	11.29	
			01/30/07	6.14	11.36	0.07
			07/26/07	6.33	11.17	-0.19
			10/30/07	6.35	11.15	-0.02
			01/30/08	5.45	12.05	0.90
			10/03/08	6.43	11.07	-0.98
			12/23/08	6.01	11.49	0.42
			01/15/10	6.15	11.35	-0.14
TR-2	16.50	5-20	01/15/07	8.11*	8.39	
			01/30/07	7.19	9.31	0.92
			02/13/07	6.57*	9.93	0.62
			02/27/07	6.59*	9.91	-0.02
			07/26/07	7.75	8.75	-1.16
			10/30/07	7.86	8.64	-1.27
			01/30/08	6.76	9.74	1.10
			10/03/08	8.12	8.38	-1.36
			11/20/08	7.87	8.63	0.25
			12/23/08	7.38	9.12	0.49
			01/15/10	7.62	8.88	-0.24
TR-3	18.60	5-20	01/15/07	4.85	13.75	
			01/30/07	4.68	13.92	0.17
			07/26/07	5.16	13.44	-0.48
			10/30/07	5.14	13.46	0.02
			01/30/08	4.53	14.07	0.61
			10/03/08	5.22	13.38	-0.69
			12/23/08	4.94	13.66	0.28
			01/15/10	5.02	13.58	-0.08

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GROUNDWATER
ELEVATION DATA
1600 63rd Street, Emeryville, California

Well Number	Top-of-Casing Elevation (feet)	Depth of Well Screen Interval (feet)	Date Measured	Depth to Water (feet)	Water Elevation (feet msl)	Change in Elevation (feet)
TR-4	16.38	5-20	01/15/07	8.71	7.67	
			01/30/07	6.17	10.21	2.54
			07/26/07	8.68	7.70	-2.51
			10/30/07	8.79	7.59	-0.11
			01/30/08	7.88	8.50	0.91
			10/03/08	8.96	7.42	-1.08
			12/23/08	8.59	7.79	0.37
			01/15/10	8.83	7.55	-0.24
TR-5	16.27	5-20	01/15/07	7.34*	8.93	
			01/30/07	6.87	9.40	0.47
			02/13/07	6.22	10.05	0.65
			02/27/07	6.19	10.08	0.03
			07/26/07	6.19	10.08	0.00
			10/30/07	7.52	8.75	-1.33
			01/30/08	6.42	9.85	1.10
			10/03/08	7.85	8.42	-1.43
			11/20/08	7.59	8.68	0.26
			12/23/08	7.10	9.17	0.49
			01/15/10	7.28	8.99	-0.18

Notes:

* - Petroleum product measured in well (0.01- to 3-feet thick)

Survey conducted by CSS Environmental Services (Novato, CA) on 15 January 2007.

Water elevation referenced to mean sea level (msl).

Monitoring wells MW1, MW3, MW4, and MW5 were abandoned on 15 January 2007.

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TABLE 2
FREE PHASE PRODUCT MEASUREMENTS
FROM WELLS MW-2, TR-2, and TR-5 (Since January 2007)
1600 63rd Street, Emeryville, California

Well Number	Top-of-Casing Elevation (feet msl)	Depth of Well Screen Interval (feet)	Date Measured	Depth to Free Phase Product (feet)	Depth to Water (feet)	Thickness of Free Phase Product (feet)	Unadjusted Water Level (feet msl)	Adjusted Water Level (feet msl)
MW-2	16.53	12.5-20.5	1/15/2007	6.72	6.80	0.08	9.73	9.79
			1/30/2007	6.33	6.40	0.07	10.13	10.19
			2/13/2007	5.81	5.83	0.02	10.70	10.72
			2/27/2007	5.78	5.89	0.11	10.64	10.73
			7/26/2007	6.65	6.67	0.02	9.86	9.88
			8/10/2007	6.89	6.91	0.02	9.62	9.64
			9/19/2007	7.05	7.07	0.02	9.46	9.48
			10/4/2007	7.36	7.36	<0.01	9.17	9.17
			10/30/2007	7.16	7.16	<0.01	9.37	9.37
			1/30/2008	5.96	5.96	<0.01	10.57	10.57
			10/3/2008	7.57	7.57	<0.01	8.96	8.96
			11/20/2008	7.46	7.46	<0.01	9.07	9.07
			12/23/2008	6.73	6.73	<0.01	9.80	9.80
			1/15/2010	6.95	6.95	<0.01	9.58	9.58
TR-2	16.50	5-20	1/15/2007	7.42	8.11	0.69	8.39	8.94
			1/30/2007	7.19	7.19	<0.01	9.31	9.31
			2/13/2007	6.56	6.57	0.01	9.93	9.94
			2/27/2007	6.58	6.59	0.01	9.91	9.92
			7/26/2007	7.75	7.75	<0.01	8.75	8.75
			8/10/2007	7.87	7.87	<0.01	8.63	8.63
			9/19/2007	8.01	8.01	<0.01	8.49	8.49
			10/4/2007	8.15	8.15	<0.01	8.35	8.35
			10/30/2007	7.86	7.86	<0.01	8.64	8.64
			1/30/2008	6.76	6.76	<0.01	9.74	9.74
			10/3/2008	8.12	8.12	<0.01	8.38	8.38
			11/20/2008	7.87	7.87	<0.01	8.63	8.63
			12/23/2008	7.38	7.38	<0.01	9.12	9.12
			1/15/2010	7.62	7.62	<0.01	8.88	8.88
TR-5	16.27	5-20	1/15/2007	7.14	7.34	0.20	8.93	9.09
			1/30/2007	6.87	6.87	<0.01	9.40	9.40
			2/13/2007	6.22	6.22	<0.01	10.05	10.05
			2/27/2007	6.19	6.19	<0.01	10.08	10.08
			7/26/2007	6.19	6.19	<0.01	10.08	10.08
			8/10/2007	7.56	7.56	<0.01	8.71	8.71
			9/19/2007	7.70	7.70	<0.01	8.57	8.57
			10/4/2007	7.78	7.78	<0.01	8.49	8.49
			10/30/2007	7.52	7.52	<0.01	8.75	8.75
			1/30/2008	6.42	6.42	<0.01	9.85	9.85
			10/3/2008	7.85	7.85	<0.01	8.42	8.42
			11/20/2008	7.59	7.59	<0.01	8.68	8.68
			12/23/2008	7.10	7.10	<0.01	9.17	9.17
			1/15/2010	7.28	7.28	<0.01	8.99	8.99

General Notes:
Measurements collected from top of casing, north side.
Adjusted water level = unadjusted water level + (Thickness of Free Phase Product x 0.8).
msl = mean sea level

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TABLE 3
Water Quality Values
1600 63rd Street, Emeryville, California

Well Number	Date	Purge Method	Purge Duration (minutes)	Volume Purged (gallons)	Purged Dry? (yes/no)	Dissolved Oxygen (mg/L)	pH	Specific Conductance (µS/cm)	Temperature (C˚)	ORP (mV)
TR-1	1/15/2007	SP	30	30.0	No	NM	6.62	830	NM	140
	7/26/2007	SP	10	7.5	No	1.07	7.02	910	22.7	70
	10/30/2007	SP	9	8.5	No	1.49	6.84	900	23.1	10
	1/30/2008	SP	10	10.0	No	1.17	6.90	810	20.6	40
	10/3/2008	SP	5	7.0	No	0.69	6.96	910	24.1	-10
	12/23/2008	SP	6	10	No	1.82	6.84	1,310	17.6	NM
	1/15/2010	SP	15	9.6	No	1.25	6.60	840	20.9	24
TR-3	1/15/2007	SP	35	20.0	Yes	NM	7.75	1,330	21.4	NM
	7/26/2007	SP	20	7.5	No	1.19	6.90	1,530	18.8	120
	10/30/2007	SP	13	10.0	No	1.21	6.88	1,420	19.1	150
	1/30/2008	SP	14	10.0	No	0.95	7.04	1,310	17.5	70
	10/3/2008	SP	5	7.0	No	1.07	7.21	1,500	21.4	70
	12/23/2008	SP	5	10	No	0.52	6.92	1,362	18.1	NM
	1/15/2010	SP	11	10	No	1.24	6.35	1,263	18.0	117
TR-4	1/15/2007	SP	25	25.0	No	NM	6.76	1,780	NM	130
	7/26/2007	SP	7	7.0	No	1.59	7.00	1,800	20.4	50
	10/30/2007	SP	6	8.0	No	1.07	7.06	1,920	20.3	-10
	1/30/2008	SP	6	9.0	No	1.25	7.26	1,670	19.0	40
	10/3/2008	SP	3	5.0	No	1.03	6.97	1,970	21.4	0
	12/23/2008	SP	4	8	No	0.76	6.93	1,719	18.7	NM
	1/15/2010	SP	8	8.2	No	1.02	6.92	1,894	18.4	19

General Notes
ORP = Oxidation Reduction Potential
mV = millivolts
mg/L = milligrams per Liter
µS/cm = microseimens per centimeter
SP = submersible pump

TABLE 4
GROUNDWATER SAMPLING RESULTS FROM MONITORING WELLS
1600 63rd Street, Emeryville, California

Sample No.	Date Sampled	Notes	Chemical Concentrations Detected (mg/L)												
			TPHd	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCBs	EPA 8080 Analytes	EPA 8270 Analytes	EPA 8240 Analytes	Fuel Oxygenates (including Ethanol)	Total Lead	Motor Oil
HLA															
MW-2	6/25/1989		<0.5	0.3	<0.005	<0.005	<0.005	<0.005	<0.0005	--	(2)	<0.01	--	--	--
	9/21/1989		**1**	<0.5	<0.005	<0.005	<0.005	<0.005	<0.0005	(3)	(4)	<0.01	--	--	--
	12/20/1989		<0.5	**0.53**	<0.005	<0.005	<0.005	<0.005	<0.0005	ND	(5)	<0.01	--	--	--
	2/20/1990		**49**	0.42	<0.005	<0.005	<0.005	<0.005	<0.0005	(6)	(7)	0.044 (8)	--	--	--
	5/11/1990		**8.4**	**1.2**	<0.005	<0.005	<0.005	<0.005	--	--	--	<0.01	--	--	--
	5/11/1990		**<2.5**	<0.5	<0.01	<0.01	<0.01	<0.01	--	--	--	<0.02	--	--	--
	7/20/1990		**27**	**3.9**	<0.005	<0.005	<0.005	0.011	--	ND	--	--	--	--	--
	7/20/1990		**30**	**2.3**	<0.005	<0.0025	<0.0025	0.0033	--	ND	--	--	--	--	--
	11/12/1990		**61**	**380**	<0.005	<0.0005	<0.0005	0.0005	<0.0005	ND	--	--	--	--	--
	11/12/1990		**35**	**7**	<0.005	0.0009	0.0001	0.0079	<0.0005	ND	--	--	--	--	--
	2/7/1991		**41**	**11**	<0.005	<0.0005	<0.0005	<0.0005	<0.0005	ND	--	--	--	--	--
	2/7/1991		**27**	**13**	<0.005	<0.0005	<0.0005	0.043	<0.0005	ND	--	--	--	--	--
	5/8/1991		**43**	**88**	<0.005	<0.0005	<0.0005	<0.005	<0.0005	ND	--	--	--	--	--
	5/8/1991		**26**	**150**	<0.005	<0.0005	<0.0005	<0.005	<0.0005	ND	--	--	--	--	--
Certified															
MW-2	11/19/1992		**22**	**0.59**	<0.0003	0.0014	<0.0003	0.0015	--	--	--	--	--	--	--
	7/13/1994		**6**	<2	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	--	--
SOMA Corporation-Monitoring Wells															
MW-2	5/14/1999	(1)	**550**	**210**	**<2.5**	**<2.5**	**<2.5**	**4.9**	<0.5	--	--	--	--	--	<3,500
Treadwell & Rollo, Inc.															
MW-2	1/10/2007	(9)	**10**	**0.6**	<0.0005	<0.0005	<0.0005	0.00053	--	--	--	--	MtBE = 0.00095 Di-isopropyl ether = 0.00097 Others <0.0005 to <0.1	<0.1	--
TR-1	1/15/2007	(9)	0.14	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	MtBE = 0.0074 Others <0.0005 to <0.1	<0.1	--
	7/26/2007		0.20	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	MtBE = 0.0085 Others <0.0005 to <0.01	0.0038	--
	10/30/2007	(9)	0.25	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	MtBE = 0.0078 Others <0.0005 to <0.01	<0.0034	--
	1/30/2008	(9)	0.12	< 0.05	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	MtBE = 0.0078 Others <0.0005 to <0.01	<0.003	
	10/3/2008	(9)	0.20	< 0.05	< 0.0005	< 0.0005	< 0.0005	< 0.0005	--	--	--	--	MtBE = 0.008 Others <0.0005 to <0.01	<0.003	--
	12/23/2008	(9)	0.26	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	MtBE = 0.0097 Others <0.0005 to <0.01	<0.003	--
	1/15/2010	(9)	0.24	--	--	--	--	--	--	--	--	--	--	--	--
TR-2	1/10/2007	(9)	**480**	**3.4**	<0.005	<0.005	<0.005	<0.005	--	--	--	--	<0.005 to <1	<0.1	--
TR-3	1/10/2007	(9)	0.098	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	Other <0.0005 to <0.1	<0.1	--
	7/26/2007		0.37	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	Other <0.0005 to <0.01	<0.003	--
	10/30/2007	(9)	0.17	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	Other <0.0005 to <0.05	<0.003	--
	1/30/2008	(9)	0.27	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	Other <0.0005 to <0.05	<0.003	--
	10/3/2008	(9)	0.21	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	Other <0.0005 to <0.01	<0.003	--
	12/23/2008	(9)	0.22	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	Other <0.0005 to <0.01	<0.003	--
	1/15/2010	(9)	0.25	--	--	--	--	--	--	--	--	--	--	--	--
TR-4	1/10/2007	(9)	0.43	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	MtBE = 0.0022 Di-isopropyl ether = 0.001 Other <0.0005 to <0.1	<0.1	--
	7/26/2007		**0.76**	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	MtBE = 0.003 Di-isopropyl ether = 0.0014 Other <0.0005 to <0.01	<0.003	--
	10/30/2007	(9)	**1.00**	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	Other <0.0005 to <0.05	<0.0034	--
	1/30/2008	(9)	**1.00**	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	MtBE = 0.0022 Di-isopropyl ether = 0.0012 Other <0.0005 to <0.01	<0.003	--
	10/3/2008	(9)	**0.67**	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	MtBE = 0.0021 Di-isopropyl ether = 0.0012 Other <0.0005 to <0.01	<0.003	--
	12/23/2008	(9)	**1.1**	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	MtBE = 0.0025 Di-isopropyl ether = 0.0017 Other <0.0005 to <0.01	<0.003	--
	1/15/2010	(9)	**0.72**	--	--	--	--	--	--	--	--	--	--	--	--
TR-5	1/10/2007	(9)	**31**	**12**	<0.005	<0.005	<0.005	<0.005	--	--	--	--	<0.005 to <1	<0.1	--

General Notes:
- mg/L = milligrams per liter
- TPHd = Total Petroleum Hydrocarbons as Diesel
- TPHg = Total Petroleum Hydrocarbons as Gasoline
- PCBs = Polychlorinated biphenyls
- MtBE = Methyl tert-Butyl Ether
- < = Below Specified Reporting Limits.
- -- = Not Analyzed.
- **1** = **Bold** values exceed the environmental screening levels.

Footnotes:
- (1) Product sample collected; Chromalab (STL San Francisco) results indicate hydrocarbon reported does not match diesel standard. Friedman & Bruya results indicate "patterns displayed by these peaks are indicative of Bunker C or crude oil"
- (2) Trace fluorene detected
- (3) 0.00016 ppm heptachlor and 0.00015 ppm 4,4'-DDD detected.
- (4) 0.006 ppm fluorene, 0.005 ppm bis (2-ethyl-hexyl) phthalate, and 0.0061 ppm 2-methyl-napthalene detected.
- (5) 0.012 ppm 2-methyl-napthalene detected.
- (6) 0.00035 ppm Gamma-BHC detected.
- (7) 0.0061 ppm fluorene, 0.018 ppm 2-methyl-napthalene, and 0,0055 ppm phenanthrene detected.
- (8) 0.044 ppm acetone detected.
- (9) Laboratory reported that the TPH compounds detected in samples did not match their respective laboratory standard.

Table 5
Free Phase Product Monitoring Table
1600 63rd Street
Emeryville, California

	MW-2		TR-2		TR-5		
FPP Extraction System	Hydrophobic Sock		Hydrophobic Sock		Hydrophobic Sock		
Date	Volume (L)	Extraction Rate (L/day)	Volume (L)	Extraction Rate (L/day)	Volume (L)	Extraction Rate (L/day)	Notes
8/15/2007	--	--	0.00	--	0.00	--	
9/19/2007	--	--	0.00	0.000	0.21	0.006	Sock changed out in TR-2 & TR-5
10/4/2007	--	--	0.34	0.023	0.13	0.009	
10/30/2007	--	--	0.34	0.013	0.05	0.002	
11/16/2007	--	--	0.03	0.002	0.37	0.022	Sock changed out in TR-2 & TR-5
1/30/2008	--	--	0.95	0.013	0.55	0.007	Sock changed out in TR-2 & TR-5; installed Hydrophobic Sock in MW-2
5/2/2008	0.48	0.005	0.95	0.010	0.95	0.010	
8/8/2008	0.24	0.002	0.34	0.002	0.58	0.003	
11/20/2008	0.24	0.002	0.48	0.005	0.42	0.004	Sock changed out in MW-2, TR-2, & TR-5
12/23/2008	0.16	0.005	0.48	0.015	0.42	0.013	
4/29/2009	0.43	0.003	0.95	0.007	0.95	0.007	Sock changed out in MW-2, TR-2, & TR-5
7/31/2009	0.20	0.002	0.40	0.004	0.30	0.003	
1/15/2010	0.21	0.001	0.24	0.001	0.40	0.002	Sock changed out in MW-2, TR-2, & TR-5
extracted	1.95		5.50		5.33		

Notes:
L - liters
FPP - free phase product
Hydrophobic Sock - Durham Geo Slope Indicator, model no. TB2-100, SoakEase™ absorbent sock

FIGURES

Base map: The Thomas Guide
Alameda County
1999

0 1/4 1/2 Mile

Approximate scale

1600 63RD STREET
Emeryville, California

SITE LOCATION MAP

Treadwell&Rollo

Date 01/27/10	Project No. 3494.01	Figure 1

Map Source: Harding Lawson Associates, 5/91, and SOMA, 2000.

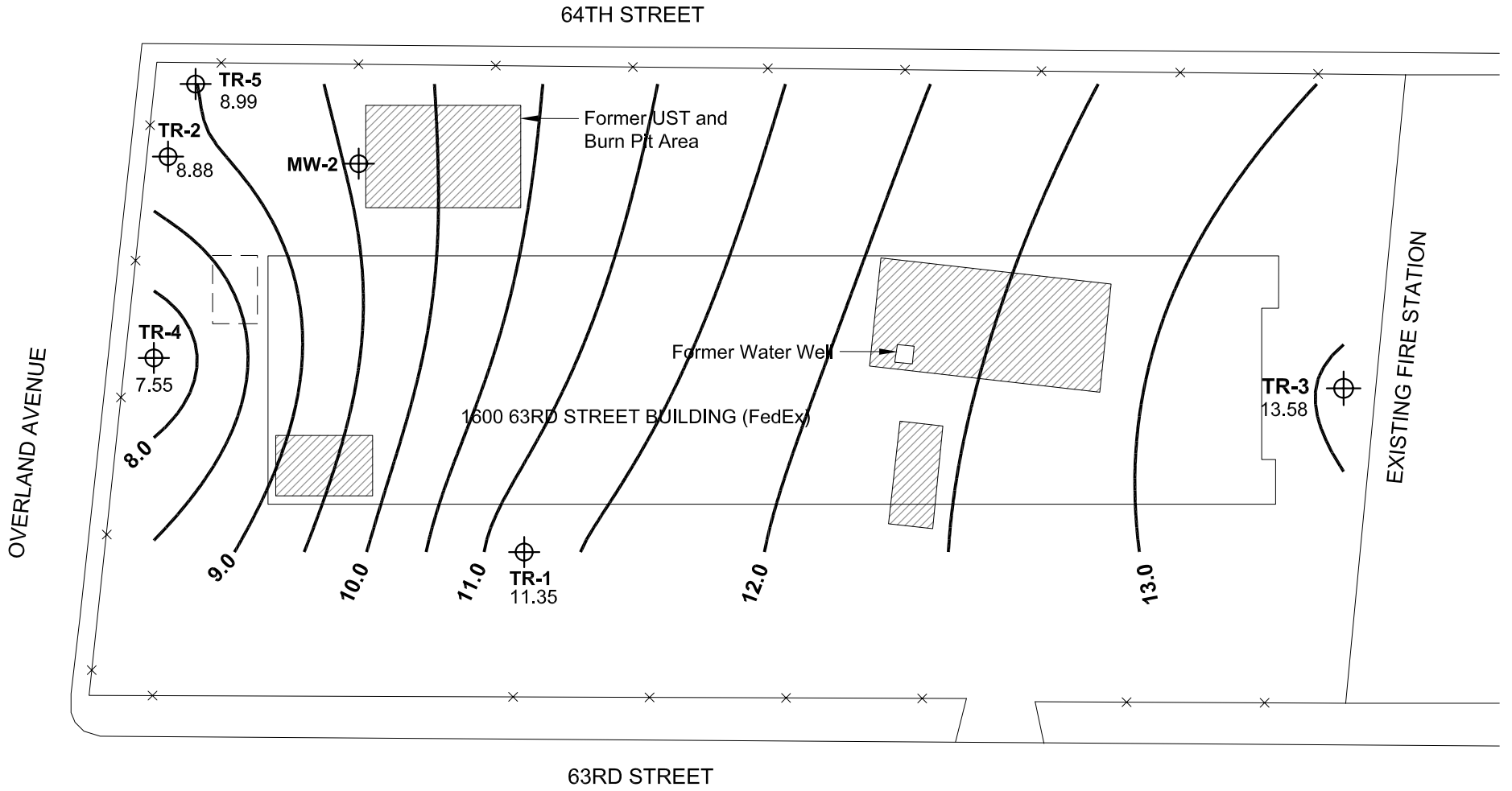
1600 63RD STREET
Emeryville, California

SITE PLAN

Date 01/27/10	Project No. 3494.01	Figure 2

Treadwell&Rollo

S:\Graphics-Oak\3400's\3494.01\3494.01-REV_SITE-PLAN 2_2-17-09dwg.dwg 2/05/10



EXPLANATION

- Location of monitoring well
- Soil and Tank excavation areas
- 8.0 Groundwater Elevation Contour

0 60 Feet

Approximate scale

Map Source: Harding Lawson Associates, 5/91, and SOMA, 2000.

1600 63RD STREET
Emeryville, California

GROUNDWATER GRADIENT
MEASURED 15 JANUARY 2010

Date 01/27/10	Project No. 3494.01	Figure 3

Treadwell&Rollo

S:\Graphics-Oak\3400's\3494.01\3494.01-GR-CNTRS-PLAN 3_1-27-10.dwg 2/05/10

Treadwell&Rollo

APPENDIX A

Groundwater Sampling Forms and Free Phase Product Monitoring Forms
(On CD-ROM)

1600 63rd Street
Free Phase Product
O&M Form
3494.01

Arrive 4pm Depart 4:50

Date: 4/28/09 **Field Engineer:** Louis Arighi

TR-2

DTW	DTP	Thickness of Product	Interval of Sock	Measured fpp on Sock	Volume fpp 1)	Comments
7.52	~~7.52~~	- -*	6-9' deep	36"	36/36 * 0.95 0.95L	Sock changed

TR-5

DTW	DTP	Thickness of Product	Interval of Sock	Measured fpp on Sock	Volume fpp 1)	Comments
7.26	—	- -*	6-9'	36"	36/36 *0.95 0.95L	Sock changed

MW-2

DTW	DTP	Thickness of Product	Collected fpp (in)	Volume fpp	Comments
6.79	—	<0.01*	Canister = 0 Sock: 18"	18/36 * 0.95 0.475L	Sock changed

1) Volume of FPP on Sock calculated using the formula: length of stained sock/total length of sock [36 inches] * volume of saturated sock [0.95 liters]
2) Sock interval changed

* sheen on probe

1600 63rd Street
Free Phase Product
O&M Form
3494.01

Date: 7/31/09 **Field Engineer:** Louis Arighi

TR-2

DTW	DTP	Thickness of Product	Interval of Sock	Measured fpp on Sock	Volume fpp 1)	Comments
8.07	-- *	--	6-9'	15 in	0.4 L	Sock flipped upside down

TR-5

DTW	DTP	Thickness of Product	Interval of Sock	Measured fpp on Sock	Volume fpp 1)	Comments
7.79	-- *	--	6-9'	12"	0.3 L	Sock flipped upside down

MW-2

DTW	DTP	Thickness of Product	~~Collected~~ Measured fpp (in)	Volume fpp	Comments
7.78	-- *	--	~8"	0.2 L	Sock not changed

1) Volume of FPP on Sock calculated using the formula: length of stained sock/total length of sock [36 inches] * volume of saturated sock [0.95 liters]
2) Sock interval changed

* sheen on probe tip

Treadwell&Rollo

FIELD REPORT NO. ____
Sheet 1 of ___

Project: 1600 63rd St
Project No: 3494.018
Subject: **FIELD INVESTIGATION DAILY REPORT**
Date: 7/31/09
Field Engineer: Louis Arighi
To: MBH
Time: ____
Weather: Overcast, mild
Reviewed by: ____ Date: ____

1055 Arrived on-site.

Well ID	DTW	DTP	Screen Int.	Length of Sat. Sock	Volume removed	Sock changed?
TR-2	8.07	*- -	6-9'	15"		Sock flipped
TR-5	7.79	*- -	6-9'	12"		Sock flipped
MW-2	7.78	*- -	top of flush ft 3'	~8"		No change

Wells still in good shape

1135 Left site.

Attachments: ____

Initials ____

Treadwell&Rollo

FIELD REPORT NO. ____
Sheet ___ of ___

Project: 1600 63rd St, Emeryville
Project No: 3494.01
Subject: FIELD INVESTIGATION DAILY REPORT
Date: 1/15/10
Field Engineer: Louis Ariyhi

0920 Arrived on-site. Start with sock O&M.
TR-2: DTW 7.62', sheen on probe.
TR-5: DTW 7.28', sheen on probe.
MW-2: DTW 6.95', sheen on probe
1045 Envirotech delivers 55-gallon drum. Stored near dumpsters.
1100 Began Sampling TR-1. Sample collected @ 1154
purging and DTW: 6.15'
1200 Lunch 1215 Return from lunch. Trailer parked over TR-4, still accessible as long as you don't stand
TR-4; DTW: 8.83'. Sample collected @ 1309

1325 Began purging TR-3. DTW: 5.02' Sample collected @ 1414.

Attachments: _____

Initials _____

1600 63rd Street
Free Phase Product
O&M Form
3494.01

Date: 1/15/10 **Field Engineer:** Louis Arighi

TR-2

DTW	DTP	Thickness of Product	Interval of Sock	Measured fpp on Sock	Volume fpp 1)	Comments
7.62	- -*	<0.01	6'-9' below TOC	24"		sock replaced

TR-5

DTW	DTP	Thickness of Product	Interval of Sock	Measured fpp on Sock	Volume fpp 1)	Comments
7.28	- -*	<0.01	6'-9' below TOC	27"		sock replaced

MW-2

DTW	DTP	Thickness of Product	~~Collected fpp~~ on Sock (in)	Volume fpp	Comments
6.95	- -*	<0.01	16"		sock replaced

1) Volume of FPP on Sock calculated using the formula: length of stained sock/total length of sock [36 inches] * volume of saturated sock [0.95 liters]
2) Sock interval changed
* Sheen observed on probe

GROUNDWATER SAMPLING FORM

Project Name 1600 62nd St, Emeryville Well No. TR-1

Project Number 3494.01 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By LMA Sampled by LMA Date 1/15/10

WELL PURGING

PURGE VOLUME

Well casing diameter

[ ] 2-inch [ ] 3/8-inch [ ] Other

Well Total Depth (TD, ft. below TOC) : 25'

Depth to Water (WL, ft. below TOC) : 6.15'

Depth to free phase (FP, ft. below TOC) : --

Number of casing volumes to be purged

[ ] 4 [ ] 10 [ ] Other

PURGE METHOD

[ ] Bailer \ Type

[X] Pump \ Type submersible

[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 25'

[ ] Other

PURGE VOLUME CALCULATION

18.85 (Water Column Length) x 0.17 (Multiplier) x 3 (No. Vols) = 9.6 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

(Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)

Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter or Meter Type Horiba U22 Flow Through Cell

Time / Liters	pH	Temp °C °F	Cond. µ (mS/cm)	Turbidity NTU	DO (%)	DO (mg/L)	ORP (mV)	Comments
1117 / 0	6.42	19.1	901			3.06	37	
1119 / 3	6.56	20.9	1003			0.67	-3	
1120 / 5	6.55	20.7	893			0.51	-24	Pause to empty
1130 / 8	6.78	20.3	847			0.73	13	bucket
1132 / 9.6	6.60	20.9	836			1.25	24	
/								
/								
/								
/								
/								
/								
/								
/								
/								
/								

Comments Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 1/15/10 / 1154

Bailer - Type [X] poly Sample port [ ] Other [ ]

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
TR-1-1Q10	2 500-mL amber	TPH-d	none	Curtis & Tompkins	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

GROUNDWATER SAMPLING FORM

Project Name 1600 63rd St Well No. TR-3

Project Number 3494.01 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By LMA Sampled by LMA Date 1/15/10

WELL PURGING

PURGE VOLUME

Well casing diameter

[X] 2-inch [ ] 3/8-inch [ ] Other

Well Total Depth (TD, ft. below TOC) : 25'

Depth to Water (WL, ft. below TOC) : 5.02

Depth to free phase (FP, ft. below TOC) :

Number of casing volumes to be purged

[ ] 4 [ ] 10 [X] Other 3

PURGE METHOD

[ ] Bailer \ Type

[X] Pump \ Type submersible

[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 25'

[ ] Other

PURGE VOLUME CALCULATION

19.98 (Water Column Length) x 0.17 (Multiplier) x 3 (No. Vols) = 10.2 gals CALCULATED PURGE VOLUME

Total Purge Time

Recharge Rate

(Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)

Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Meter Type Horiba U22 Flow Through Cell

Time / Liters	pH	Temp *C *F	Cond. (mS/cm)	Turbidity NTU	DO (%)	DO (mg/L)	ORP (mV)	Comments
1338 / 0	6.43	17.3	1228			3.0	73	
1339 / 3	6.28	17.3	1216			1.02	82	
1340 / 5	6.32	17.4	1237			0.69	89	Pause to empty
1347 / 7	6.34	17.4	1241			1.69	124	bucket
1348 / 9	6.29	17.9	1287			1.32	120	
1349 / 10	6.35	18.0	1263			1.24	117	
/								
/								
/								
/								
/								
/								
/								
/								

Comments Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled ~~1/13/10~~ 1/15/10 1414

Bailer - Type [X] Poly Sample port [ ] Other [ ]

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
TR-3-1010	2 500-mL ambers	TPH-d	none	Curtis & Tompkins	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

GROUNDWATER SAMPLING FORM

Project Name 1600 63rd St Well No. TR-4

Project Number 3494.01 Well Type [X] Monitor [ ] Extraction [ ] Other

Recorded By LMA Sampled by LMA Date 1/15/10

WELL PURGING

PURGE VOLUME

Well casing diameter

[X] 2-inch [ ] 3/8-inch [ ] Other

Well Total Depth (TD, ft. below TOC) : 25'

Depth to Water (WL, ft. below TOC) : 8.83

Depth to free phase (FP, ft. below TOC) :

Number of casing volumes to be purged

[ ] 4 [ ] 10 [X] Other 3

PURGE METHOD

[ ] Bailer \ Type

[X] Pump \ Type Submersible

[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 25'

[ ] Other

PURGE VOLUME CALCULATION

16.17 (Water Column Length) x 0.17 (Multiplier) x 3 (No. Vols) = 8.2 gals CALCULATED PURGE VOLUME

(Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)

Total Purge Time

Recharge Rate

Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter or Meter Type Horiba U22 Flow Through Cell

Time / Liters	pH	Temp °C °F	Cond. (mS/cm)	Turbidity NTU	DO (%)	DO (mg/L)	ORP (mV)	Comments
1145 / 0	6.91	18.1				2.38	60	
1146 / 3	6.83	18.1	1563			0.66	73	
1151 / 5	6.81	17.8	1526			2.57	98	
1152 / 7.5	6.80	18.4	1457			1.40	72	
1153 / 8.2	6.82	18.4	1894			1.02	19	
/								
/								
/								
/								
/								
/								
/								
/								
/								
/								

Comments Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled 1/15/10 / 1309

Bailer - Type [X] poly Sample port [ ] Other [ ]

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
TR-4-1010	2 500-mL ambers	TPH-d	none	Curtis & Tompkins	

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Trip	
Rinsate	
Transfer	
Other:	

Treadwell&Rollo
Environmental and Geotechnical Consultant

Treadwell&Rollo

APPENDIX B

Laboratory Analytical Reports
(on CD-ROM)


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 217779
ANALYTICAL REPORT

Treadwell & Rollo	Project : 3494.01
501 14th Street	Location : 1600 63rd St
Oakland, CA 94612	Level : II

Sample ID	Lab ID
TR-1-1Q10	217779-001
TR-4-1Q10	217779-002
TR-3-1Q10	217779-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 01/22/2010
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**217779**
Client:	**Treadwell & Rollo**
Project:	**3494.01**
Location:	**1600 63rd St**
Request Date:	**01/15/10**
Samples Received:	**01/15/10**

This data package contains sample and QC results for three water samples, requested for the above referenced project on 01/15/10. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

C & T LOGIN #: 217779

Project No.: 3494.01
Project Name: 1600 63rd St
Project P.O.:
Turnaround Time: 5-day

Sampler: Louis Arighi
Report To: Matt Hall (mbhall@treadwellrollo.com)
Company: Treadwell & Rollo, San Francisco
Telephone: 415-955-9040
Fax: 415-955-9041

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Matrix: Water	Matrix: Waste	# of Containers	Preservative: HCL	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: ICE	Analysis: TPH-d
1	TR-1-1Q10	1/15/10 1154		X		2x500mL				X	X
2	TR-4-1Q10	1/15/10 1309		X		2x500mL				X	X
3	TR-3-1Q10	1/15/10 1414		X		2x500mL				X	X

Notes:
C.C. data to LMARIGHI@treadwellrollo.com

SAMPLE RECEIPT
Intact Cold
On Ice Ambient
Preservative Correct?
Yes No N/A

RELINQUISHED BY:	RECEIVED BY:
1/15/10 1445 DATE / TIME	1/15/10 1445 DATE / TIME
DATE / TIME	DATE / TIME
DATE / TIME	DATE / TIME
SIGNATURE	

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 217779 Date Received 01/15/10 Number of coolers 1
Client TRIDENT PROBE Project 1600 3RD ST

Date Opened 01/15/10 By (print) M. VILLANUEVA (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____
2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☐ (NO)
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO N/A
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☑ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) 3.9

☐ Samples Received on ice & cold without a temperature blank

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
11. Are sample labels present, in good condition and complete? _____ (YES) NO
12. Do the sample labels agree with custody papers? _____ (YES) NO
13. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
14. Are the samples appropriately preserved? _____ YES NO (N/A)
15. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A
16. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____
_____
_____

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	217779	Location:	1600 63rd St
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	3494.01	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	01/15/10
Units:	ug/L	Received:	01/15/10
Diln Fac:	1.000	Prepared:	01/18/10
Batch#:	159210	Analyzed:	01/19/10

Field ID: TR-1-1Q10 Lab ID: 217779-001
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	240 Y	50

Surrogate	%REC	Limits
o-Terphenyl	87	39-150

Field ID: TR-4-1Q10 Lab ID: 217779-002
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	720 Y	50

Surrogate	%REC	Limits
o-Terphenyl	93	39-150

Field ID: TR-3-1Q10 Lab ID: 217779-003
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	250 Y	50

Surrogate	%REC	Limits
o-Terphenyl	103	39-150

Type: BLANK Lab ID: QC529335

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
o-Terphenyl	98	39-150

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	217779	Location:	1600 63rd St
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	3494.01	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	159210
Units:	ug/L	Prepared:	01/18/10
Diln Fac:	1.000	Analyzed:	01/19/10

Type: BS
Lab ID: QC529336
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,282	91	34-144

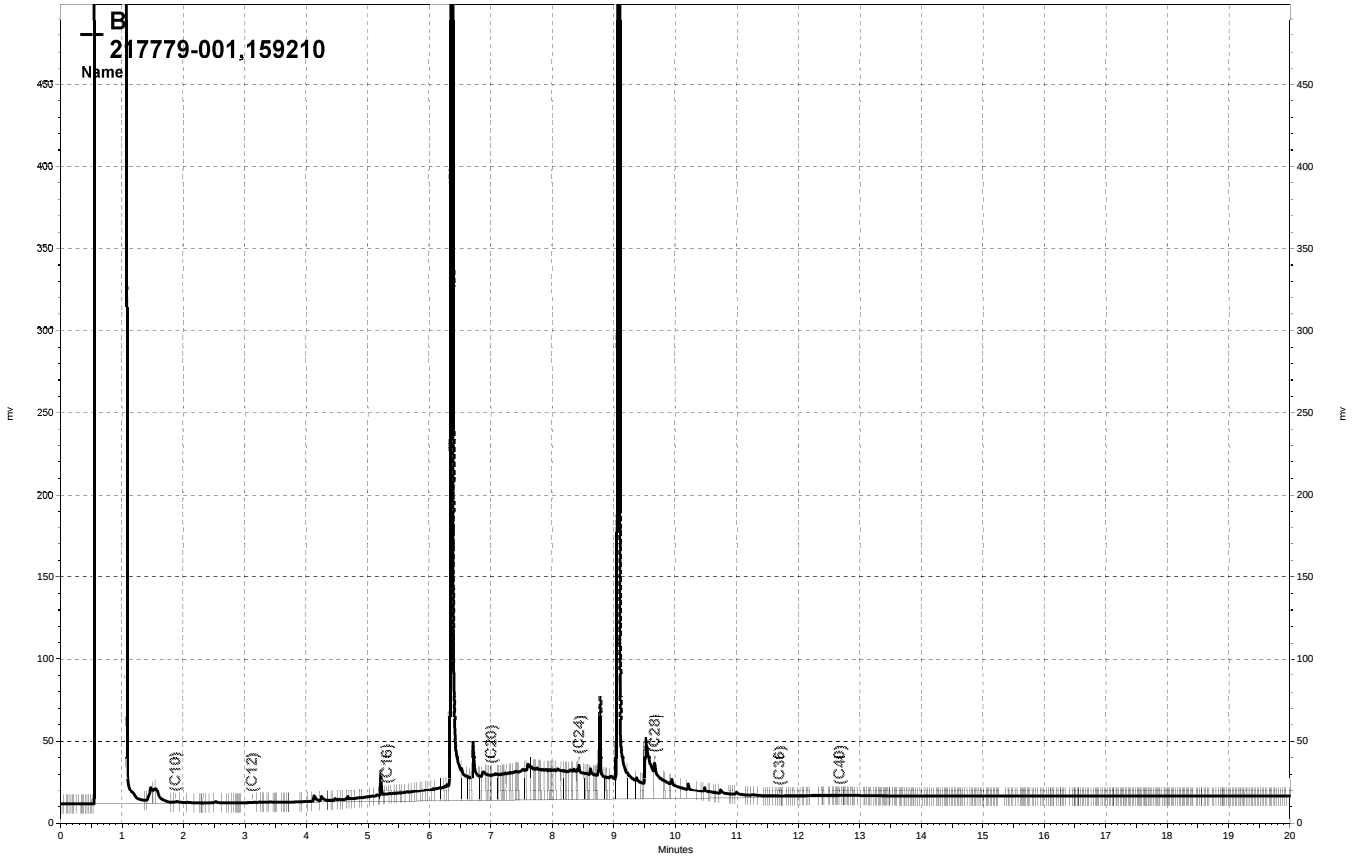
Surrogate	%REC	Limits
o-Terphenyl	100	39-150

Type: BSD
Lab ID: QC529337
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,072	83	34-144	10	48

Surrogate	%REC	Limits
o-Terphenyl	91	39-150

RPD= Relative Percent Difference



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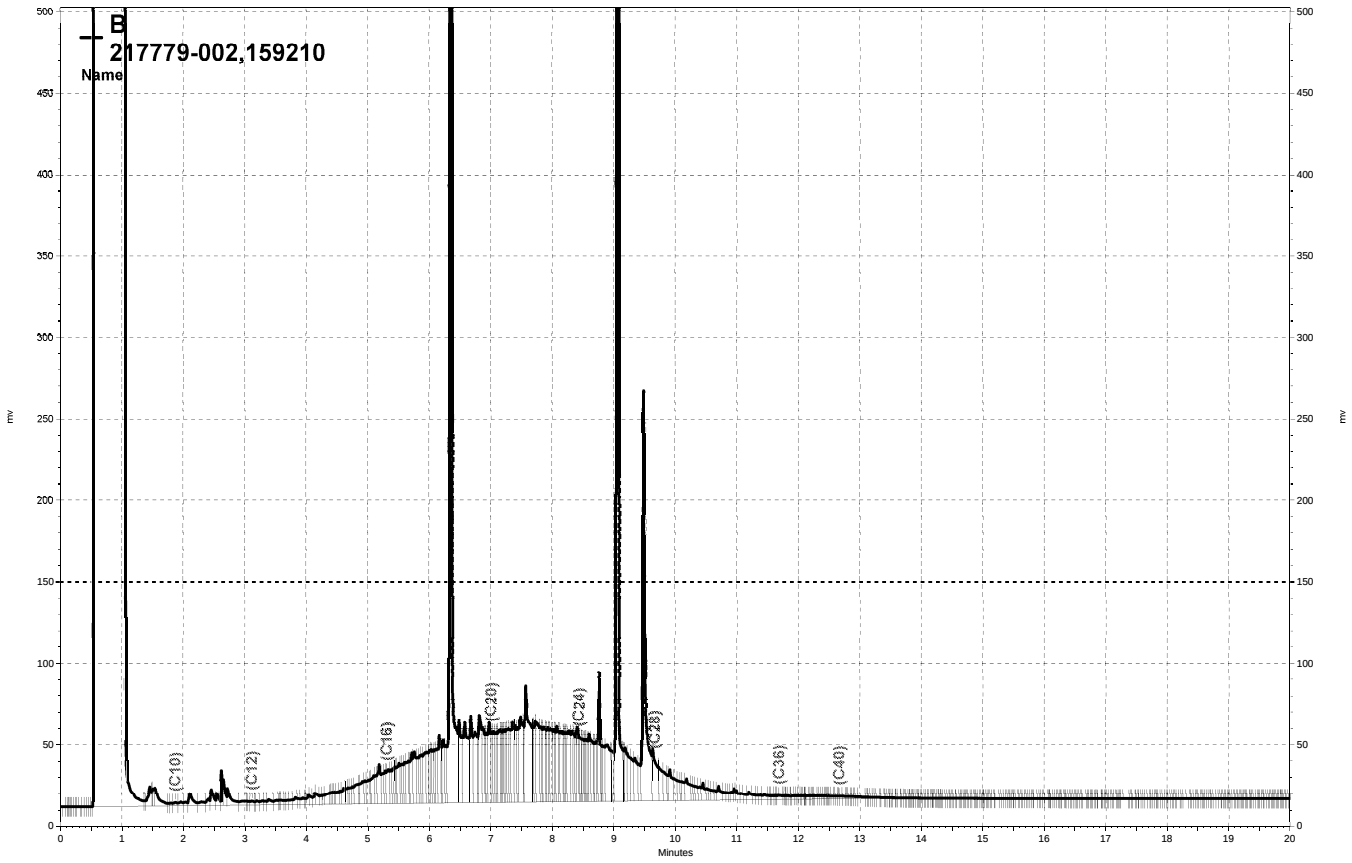

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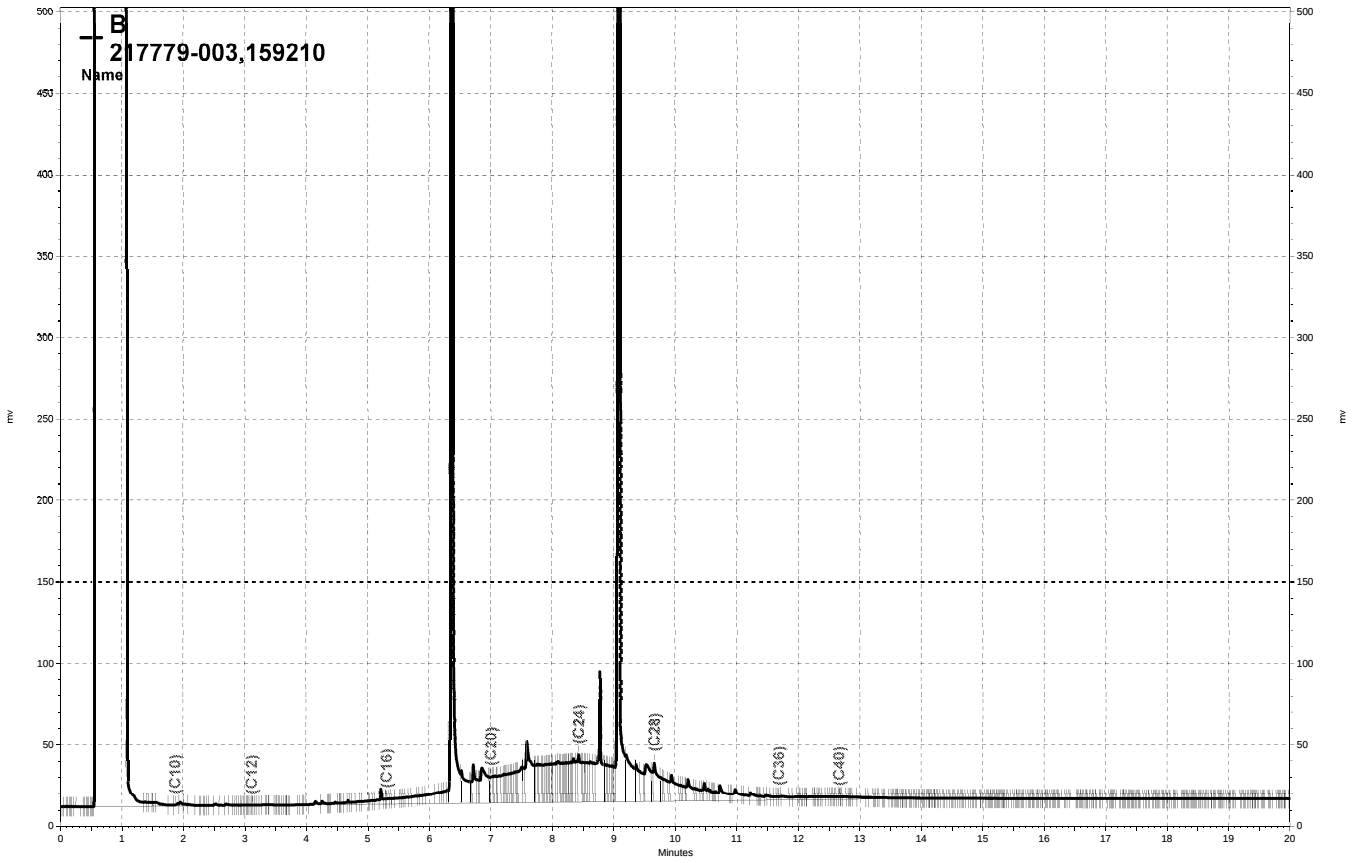

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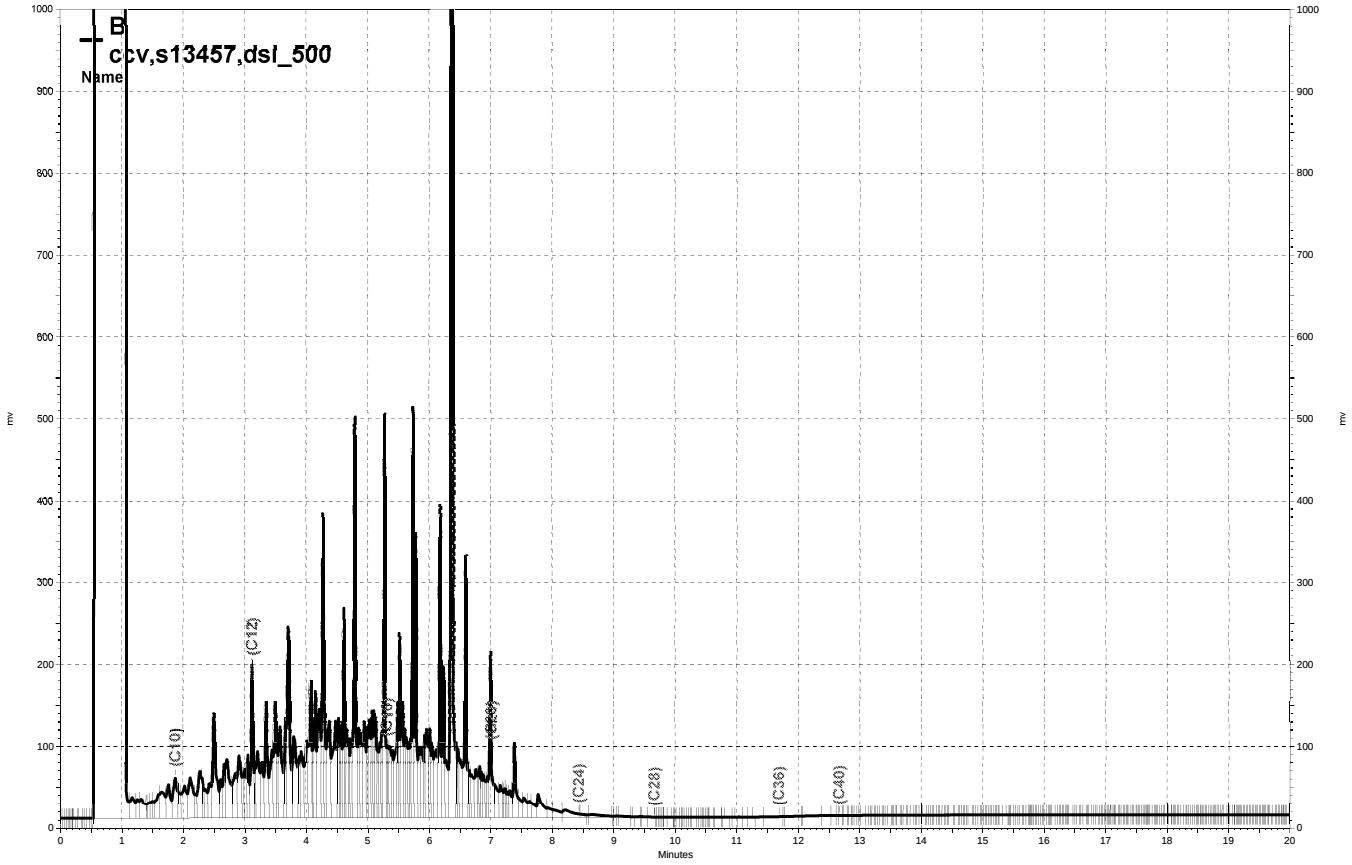

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