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Alameda County
Environmental Health20 December 2007
Project 3494.01Mr. Steven Plunkett
Hazardous Substances Scientist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502Subject: Letter Report
Groundwater Monitoring conducted 30 October 2007
Fuel Leak Case No. RO0000052
Former Peterson Manufacturing Company Facility
1600 63rd Street
Emeryville, California

Dear Mr. Plunkett:

This letter report is submitted by Treadwell & Rollo, Inc. on behalf of Wareham Property Group to document groundwater monitoring conducted in October 2007 at 1600 63rd Street, Emeryville, California (the "Site"). This report presents a summary of the groundwater monitoring conducted on 30 October 2007. A detailed background, a description of the monitoring well installation, and results of groundwater sampling were described elsewhere (Treadwell & Rollo, Inc., 2007a & 2007b).

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.

The property was originally developed as a tallow manufacturing plant by Peterson Manufacturing Company in 1914. Historical records indicate six underground storage tanks (USTs) were previously located at the Site (Figure 2).

The Site has been operated as a Fed Ex shipping facility since 1989, when the Site was redeveloped and construction of the Fed Ex facility was completed. Fed Ex currently operates one 10,000 gallon gasoline UST at the Site.

Numerous environmental investigation and remediation activities by others have occurred at the Site since 1987. Activities included: underground storage tank removal, overexcavation and disposal (or landfarming) of affected soil, numerous soil borings, collection and analysis of soil and groundwater samples, installation and sampling of monitoring wells, and cone penetrometer testing. Details of previous activities have been reported elsewhere, and are not duplicated in this report.

Mr. Steven Plunkett
Hazardous Substances Scientist
Alameda County Health Care Services Agency
20 December 2007
Page 2

In September 2007, a free phase product collection system consisting of hydrophobic socks and a collection canister system were installed in well MW-2, TR-2, and TR-5. The free phase product is periodically monitored.

Groundwater at the Site has been monitored since 1989. Based on historical and current data, groundwater flows towards the west with minor northwest – southwest components.

GROUNDWATER MONITORING RESULTS

On 30 October 2007, groundwater monitoring was conducted for monitoring wells TR-1, TR-3, and TR-4. Groundwater monitoring wells TR-2, TR-5, and MW-2 were not sampled due to the presence of free 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 feet) 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 30 October 2007. 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, turbidity, and dissolved oxygen), were measured. Groundwater sampling forms, including the water-quality parameters measured in the field, are included in Appendix A. Stabilized groundwater quality measurements 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 the laboratory under chain-of-custody procedures.

Groundwater samples were analyzed for:

- Total petroleum hydrocarbons quantified as diesel (TPHd) and as gasoline (TPHg) by EPA Method 8015M;
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by EPA Method 8260;
- Fuel oxygenates by EPA Method 8260; and
- Total lead.

Mr. Steven Plunkett
Hazardous Substances Scientist
Alameda County Health Care Services Agency
20 December 2007
Page 3

Groundwater Analytical Results

Groundwater quality parameters were measured during purging and prior to sampling. The water quality data is summarized in Table 3.

TPHg and BTEX were not detected above laboratory reporting limits in any samples. TPHd was detected in all three samples, and concentrations ranged from 0.25 mg/L to 1.00 mg/L. MTBE was detected in well TR-1 at a concentration of 0.0078 mg/L. Total lead was not detected above laboratory reporting limits in any sample.

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

The concentrations are similar to the historical groundwater data. The next round of groundwater monitoring will be conducted in late January 2008.

Free Phase Product Results

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 checked approximately every three weeks. Removal volume measurements are collected and free phase product thickness measurements are performed. The free phase product data is summarized in Table 5.

The results of the monitoring suggest that the hydrophobic socks are appropriate for removal of the low viscosity free phase product in monitoring wells TR-2 and TR-5. To date, the collection canister is ineffective in removal of the higher viscosity free phase product in monitoring well MW-2. A hydrophobic sock will be installed in monitoring well MW-2 in conjunction with the collection canister to evaluate if the sock technology would be effective in well MW-2.

Feel free to contact Matthew Hall at 510/874-4500 ext. 556 with any questions or comments.

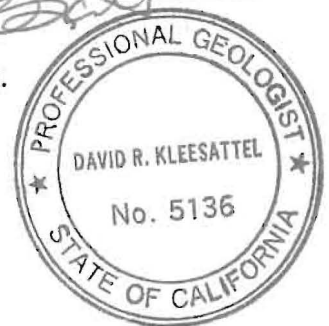
Sincerely yours,
TREADWELL & ROLLO, INC.



Matthew B. Hall
Project Scientist



David R. Kleesattel, P.G.
Senior Geologist



Attachments: References
Tables
Figures
Appendices

Appendix A – Monitoring Well Sampling Forms
Appendix B – Laboratory Analytical Results

Mr. Steven Plunkett
Hazardous Substances Scientist
Alameda County Health Care Services Agency
20 December 2007
Page 4

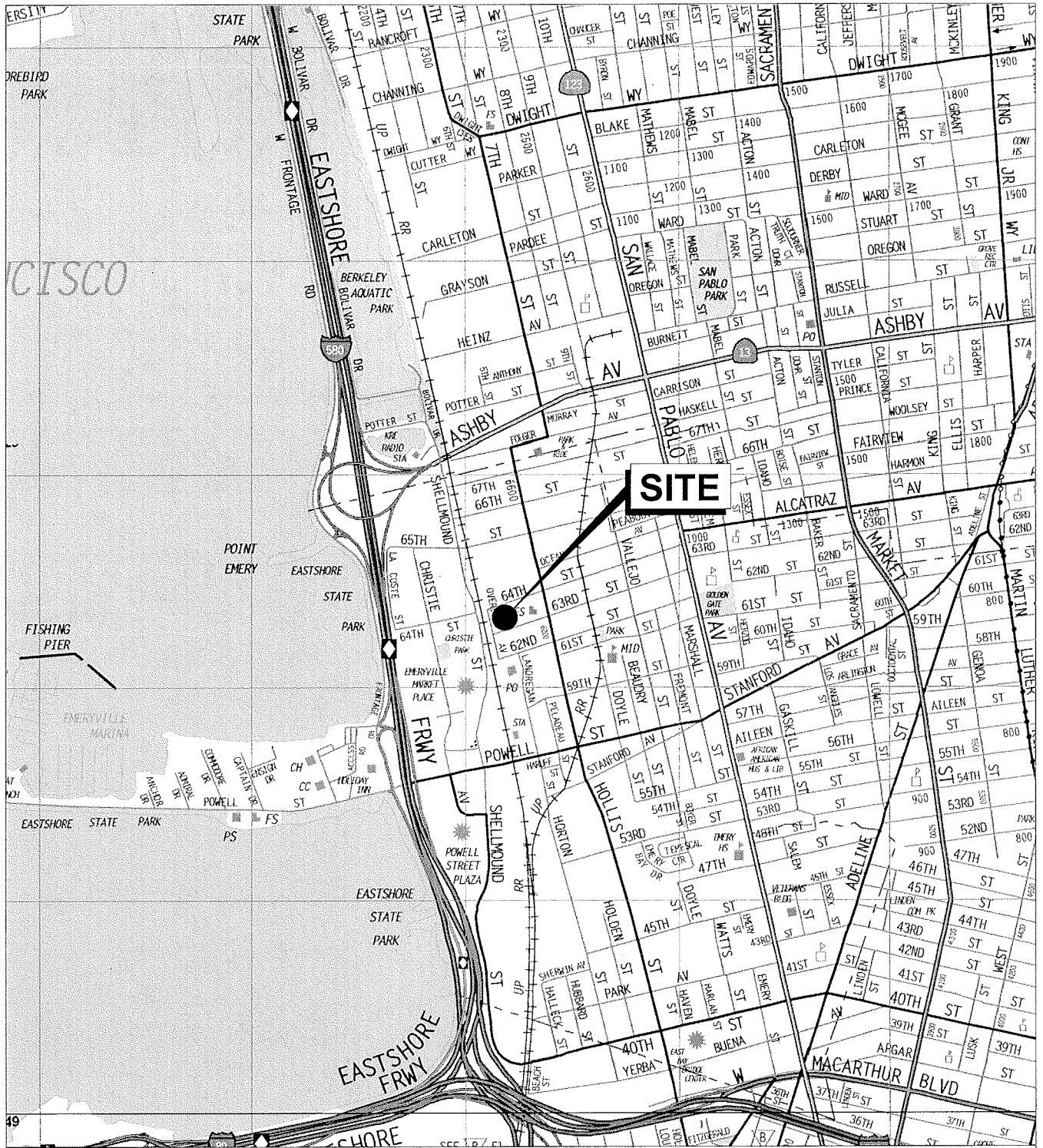
REFERENCES

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.

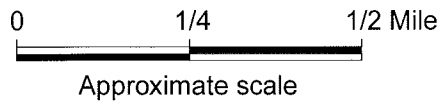
Treadwell & Rollo 2007b. Letter Report, Groundwater Monitoring Conducted 26 July 2007, Fuel Leak Case No. RO0000052, Former Peterson Manufacturing Company Facility, 1600 63rd Street, Emeryville, California. 3 October 2007.

Mr. Steven Plunkett
Hazardous Substances Scientist
Alameda County Health Care Services Agency
20 December 2007
Page 5

FIGURES



Base map: The Thomas Guide
Alameda County
1999



1600 63RD STREET
Emeryville, California

SITE LOCATION MAP

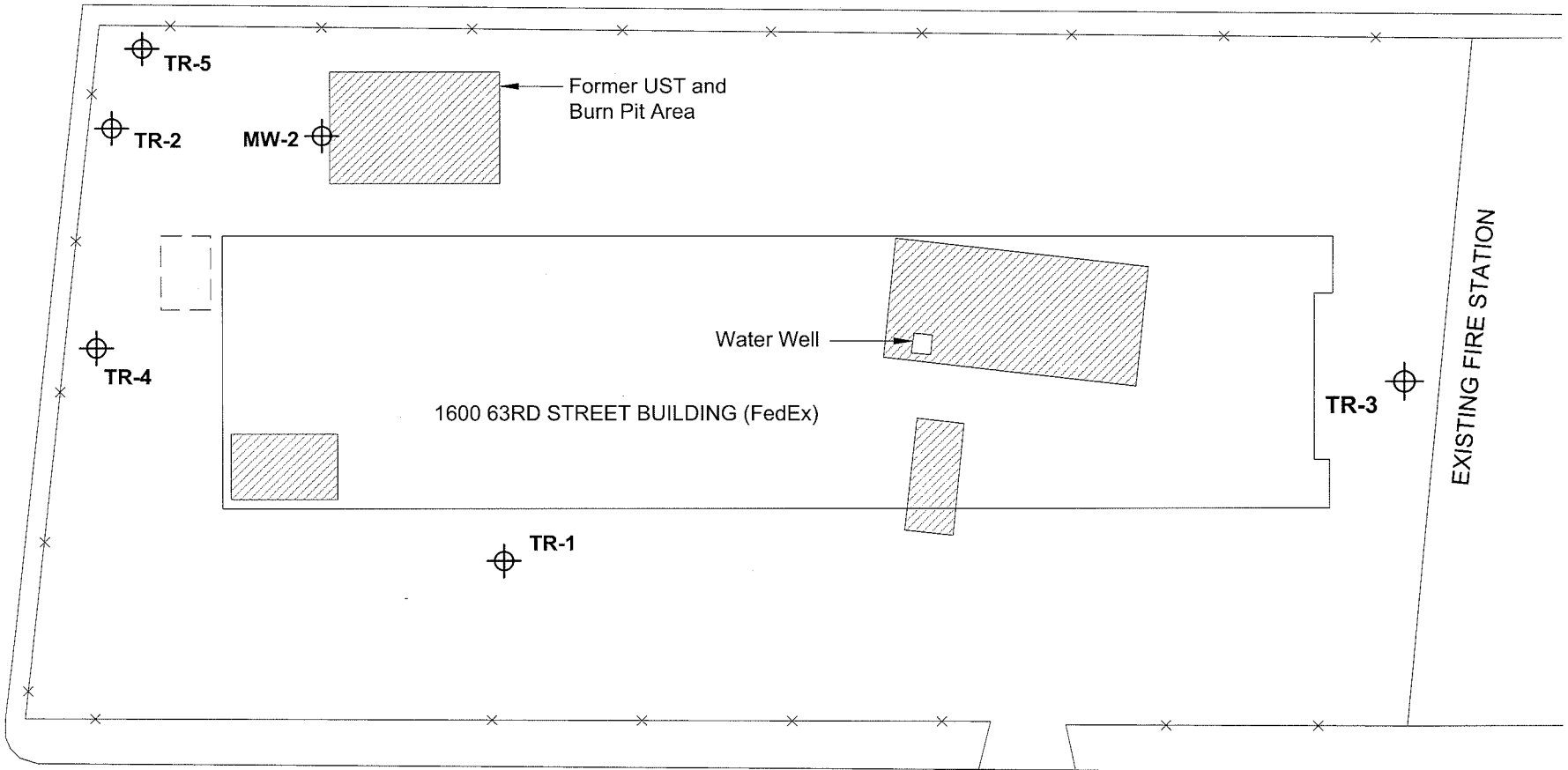
Treadwell&Rollo

Date 08/08/07 Project No. 3494.01 Figure 1

S:\Trigraphics-Oak\3494\3494-01-REV_SITE-PLAN 2.dwg 12/07/07

OVERLAND AVENUE

64TH STREET





1600 63RD STREET BUILDING (FedEx)

Water Well

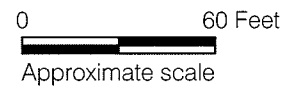
Former UST and Burn Pit Area

EXISTING FIRE STATION

EXPLANATION

-  Location of monitoring well
-  Soil and Tank excavation areas

63RD STREET



1600 63RD STREET
Emeryville, California

SITE PLAN

Date 08/08/07	Project No. 3494.01	Figure 2
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Treadwell&Rollo

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

Mr. Steven Plunkett
Hazardous Substances Scientist
Alameda County Health Care Services Agency
20 December 2007
Page 6

TABLES

**TABLE 1
GROUNDWATER
ELEVATION DATA
1600 63rd Street, Emeryville, CA**

Well Number	Top-of-Casing Elevation (feet)	Depth of Well Screen Interval (feet)	Date Measured	Depth to Water (feet)	Water Elevation (feet)	Change in Elevation (feet)
MW-2	16.53	12.5-20.5	8/3/1989	6.66	9.87	
			9/21/1989	6.32	10.21	0.34
			10/20/1989	6.78	9.75	-0.46
			12/20/1989	7.32	9.21	-0.54
			3/20/1990	6.76	9.77	0.56
			5/11/1990	6.66*	--	--
			7/20/1990	6.74*	--	--
			11/12/1990	6.75*	--	--
			11/21/1990	7.00*	--	--
			2/7/1991	6.88*	--	--
			5/8/1991	6.92*	--	--
			5/14/1999	NM*	--	--
			11/28/2006	6.85*	--	--
			1/15/2007	6.80*	--	--
			1/30/2007	6.40*	--	--
			2/13/2007	5.83*	--	--
2/27/2007	5.89*	--	--			
7/26/2007	6.67*	--	--			
10/30/2007	7.16	9.37	--			
TR-1	17.50	5-20	1/15/2007	6.21	11.29	
			1/30/2007	6.14	11.36	0.07
			7/26/2007	6.33	11.17	-0.19
			10/30/2007	6.35	11.15	-0.02
TR-2	16.50	5-20	1/15/2007	8.11*	8.39	
			1/30/2007	7.19	7.19	-1.20
			2/13/2007	6.57*	9.93	2.74
			2/27/2007	6.59*	9.91	-0.02
			7/26/2007	7.75	8.75	-1.16
10/30/2007	7.86	8.64	-0.11			
TR-3	18.60	5-20	1/15/2007	4.85	13.75	
			1/30/2007	4.68	13.92	0.17
			7/26/2007	5.16	13.44	-0.48
			10/30/2007	5.14	13.46	0.02
TR-4	16.38	5-20	1/15/2007	8.71	7.67	
			1/30/2007	6.17	10.21	2.54
			7/26/2007	8.68	7.70	-2.51
			10/30/2007	8.79	7.59	-0.11
TR-5	16.27	5-20	1/15/2007	7.34*	8.93	
			1/30/2007	6.87	9.40	0.47
			2/13/2007	6.22	10.05	0.65
			2/27/2007	6.19	10.08	0.03
			7/26/2007	6.19	9.98	-0.10
			10/30/2007	7.52	8.75	-1.23

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

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

Well Number	Top-of-Casing Elevation (feet)	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)	Adjusted Water Level (feet)
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
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
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

General Notes:

Measurements collected from top of casing, north side.

Adjusted water level = unadjusted water level + (Thickness of Free Phase Product x 0.8).

**TABLE 3
WATER QUALITY MEASUREMENTS
1600 63rd Street, Emeryville, CA**

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
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
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

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, CA

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	<0.005	<0.0005	--	--	<0.01	--	--
	9/21/1989		1	<0.5	<0.005	<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	<0.005	<0.0005	ND	(5)	<0.01	--	--
	2/20/1990		49	0.42	<0.005	<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	<0.005	--	--	--	<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	<0.005	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	<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	<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	<0.0005	<0.0005	ND	--	--	--	--	--
	5/8/1991		26	150	<0.005	<0.0005	<0.0005	<0.0005	<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	--
TR-2	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	--
	1/10/2007	(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 <0.1	<0.003	--
TR-4	10/30/2007	(9)	0.17	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	Other <0.0005 to <0.05	<0.0034	--
	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	--
TR-5	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 <0.1	<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	--
ESL	1/10/2007	(9)	31	12	<0.005	<0.005	<0.005	<0.005	--	--	--	--	<0.005 to <1	<0.1	--
ESL			0.64	0.5	0.046	0.13	0.29	0.1	0.014				MTBE = 1.8		

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.
- ESL = Environmental Screening Level, Shallow Soil, Groundwater not a source of drinking water, Commercial/Industrial Land Use (RWQCB 2005)
- 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-naphthalene detected.
- (5) 0.012 ppm 2-methyl-naphthalene detected.
- (6) 0.00035 ppm Gamma-BHC detected.
- (7) 0.0061 ppm fluorene, 0.018 ppm 2-methyl-naphthalene, 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			Notes
Date	Volume (L)	Extraction Rate (L/day)	Date	Volume (L)	Extraction Rate (L/day)	Date	Volume (L)	Extraction Rate (L/day)	
8/15/2007	0	--	8/15/2007	0.00	--	8/15/2007	0.00	--	
9/19/2007	0	0	9/19/2007	0.00	0.00	9/19/2007	0.21	0.01	Sock changed out in TR-2 & TR-5
10/4/2007	0	0	10/4/2007	0.34	0.02	10/4/2007	0.13	0.01	
10/30/2007	0	0	10/30/2007	0.34	0.01	10/30/2007	0.05	0.00	
11/16/2007	0	0	11/16/2007	0.03	0.00	11/16/2007	0.37	0.02	
Total volume extracted	0		Total volume extracted	0.71		Total volume extracted	0.76		

Notes:
L - liters

Mr. Steven Plunkett
Hazardous Substances Scientist
Alameda County Health Care Services Agency
20 December 2007
Page 7

APPENDIX A

Monitoring Well Sampling Forms

GROUNDWATER SAMPLING FORM

Project Name 1600 63rd St
 Project Number 3494.01
 Recorded By LMA

Well No. TR-3
 Well Type Monitor Extraction Other
 Sampled by LMA Date 10/30/07

WELL PURGING

PURGE VOLUME

Well casing diameter
 2-inch 3/8-inch Other _____
 Well Total Depth (TD, ft. below TOC): 19.58
 Depth to Water (WL, ft. below TOC): 5.14
 Depth to free phase (FP, ft. below TOC): _____
 Number of casing volumes to be purged
 4 10 Other 3

PURGE METHOD

Bailor \ Type _____
 Pump \ Type submersible
 Other _____

PUMP INTAKE

Near top Depth (ft) _____
 Near Bottom Depth (ft) _____
 Other _____

PURGE VOLUME CALCULATION

Water Column Length X Multiplier X No. Vols = _____ gals
 Total Purge Time _____ (Multiplier: 2" = 0.17, 4" = 0.66, 6" = 1.5)
 Recharge Rate _____ Purge Rate _____
 CALCULATED PURGE VOLUME _____ gals
 ACTUAL PURGE VOLUME _____

GROUNDWATER PARAMETER MEASUREMENTS

Meter or Meter Type Horiba U22 Flow Through Cell

Time	Liters gal	pH	Temp °C °F	Cond. M (mS/cm)	Turbidity NTU	DO (%)	DO (mg/L)	ORP (mV)	Comments
1314	1.0	6.94	19.0	1483	Clear		1.37	173	
1315	1.3	6.93	19.2	1392	Clear		0.83	178	
1316	1.5	6.82	19.5	1442	Clear		0.61	121	pause today
1325	1.5.5	7.15	17.9	1430	Clear		5.45	176	
1326	1.8.0	7.01	18.6	1059	Clear		1.27	166	
1327	1.10.0	6.88	19.1	1417	Clear		1.21	146	
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Comments _____ Purge water storage/disposal Drummed onsite Other _____

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 10/30/07 1350
 Bailer - Type disposable poly Sample port Other

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments
TR-3-03	3 VOA's	BTEX, TPH, OXYS	HCl	Curtis & Tompkins	
	1 poly	total lead	HNO3		
	1-16 Amber	TPH - DL	None		

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank Samples	
Original Sample No.	Duplicate Sample No.	Type	Sample No.
		Trip	
		Rinsate	
		Transfer	
		Other:	

Mr. Steven Plunkett
Hazardous Substances Scientist
Alameda County Health Care Services Agency
20 December 2007
Page 8

APPENDIX B

Laboratory Analytical Reports

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	198824	Location:	1600 63rd St
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	3494.01	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	131266
Units:	ug/L	Prepared:	11/02/07
Diln Fac:	1.000	Analyzed:	11/05/07

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC413530

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,103	84	58-128

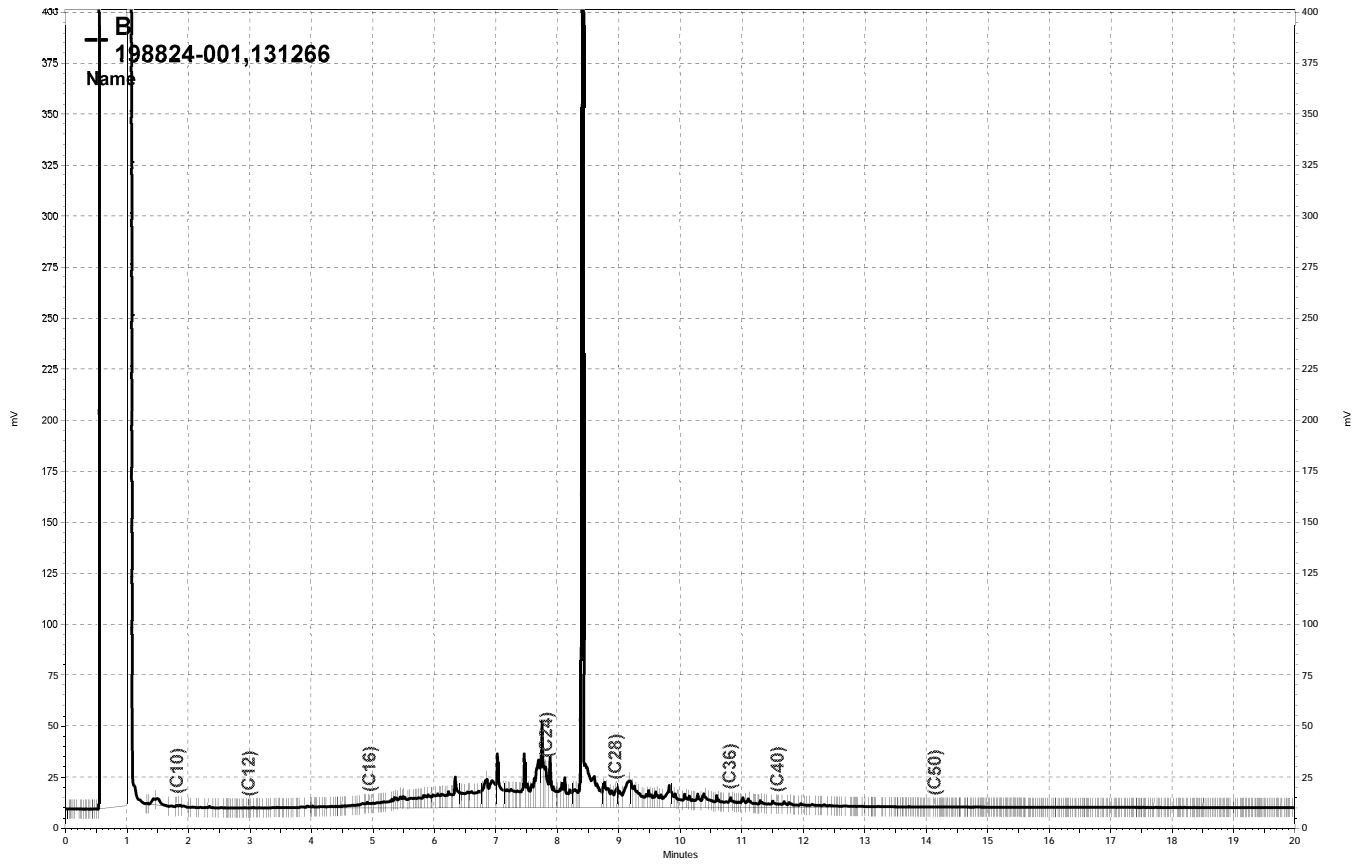
Surrogate	%REC	Limits
Hexacosane	78	61-133

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC413531

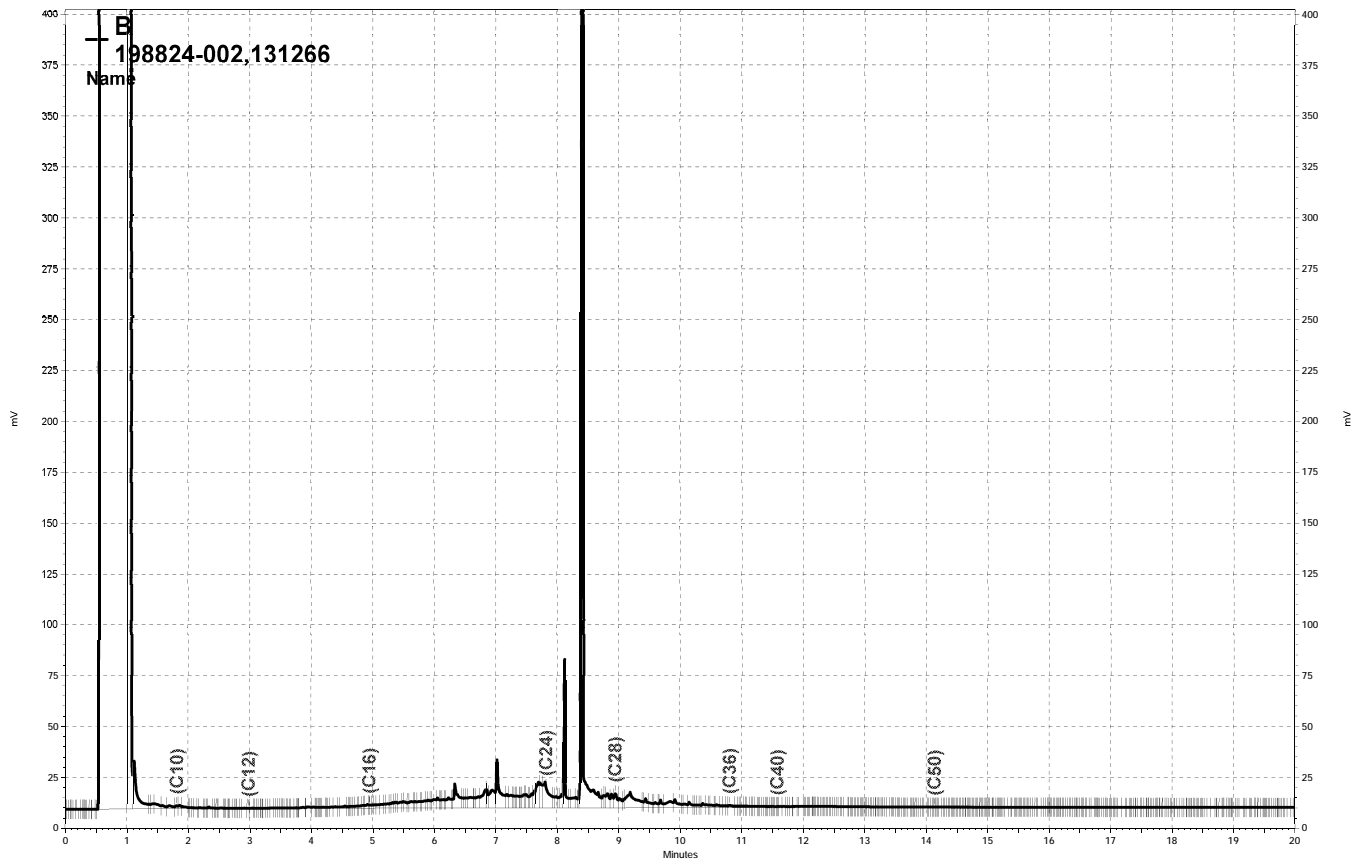
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	1,845	74	58-128	13	29

Surrogate	%REC	Limits
Hexacosane	66	61-133

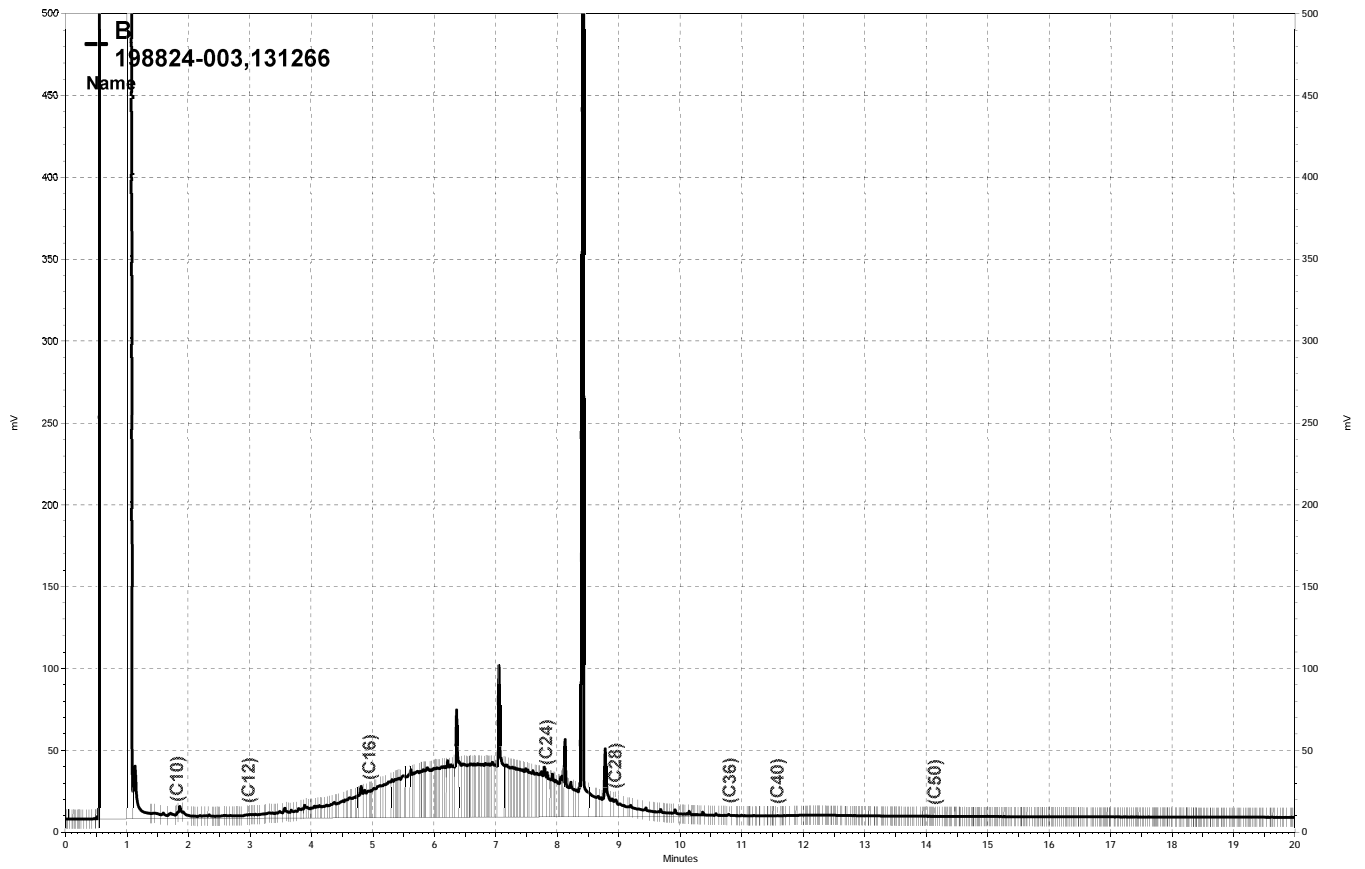
RPD= Relative Percent Difference



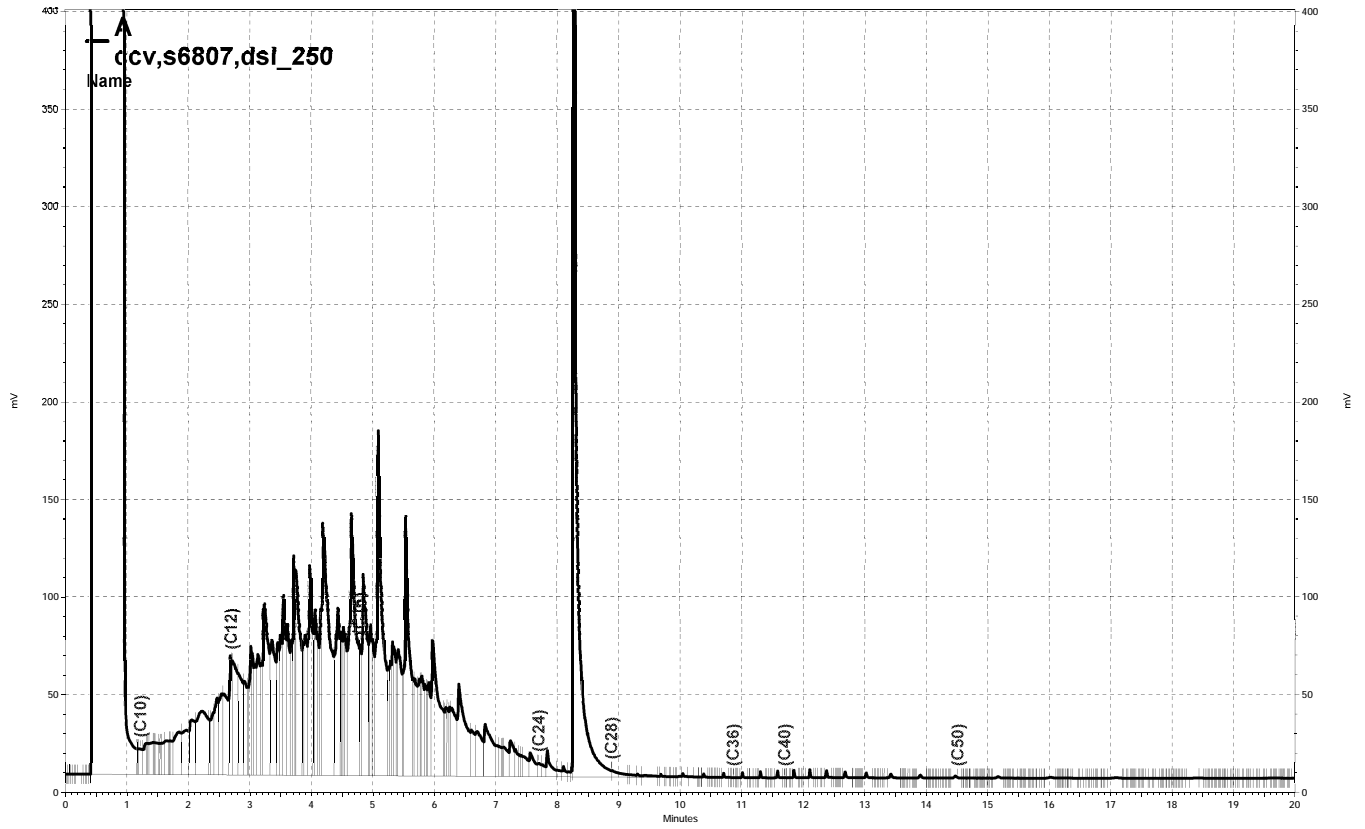
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\308b011, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\308b012, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\308b018, B



— \\Lims\gdrive\ezchrom\Projects\GC11A\Data\305a087, A

Gasoline by GC/MS			
Lab #:	198824	Location:	1600 63rd St
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	3494.01	Analysis:	EPA 8260B
Field ID:	TR-1-03	Batch#:	131302
Lab ID:	198824-001	Sampled:	10/30/07
Matrix:	Water	Received:	10/30/07
Units:	ug/L	Analyzed:	11/05/07
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
MTBE	7.8	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-122
1,2-Dichloroethane-d4	107	74-137
Toluene-d8	94	80-120
Bromofluorobenzene	105	80-120

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	198824	Location:	1600 63rd St
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	3494.01	Analysis:	EPA 8260B
Field ID:	TR-3-03	Batch#:	131302
Lab ID:	198824-002	Sampled:	10/30/07
Matrix:	Water	Received:	10/30/07
Units:	ug/L	Analyzed:	11/05/07
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-122
1,2-Dichloroethane-d4	107	74-137
Toluene-d8	96	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	198824	Location:	1600 63rd St
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	3494.01	Analysis:	EPA 8260B
Field ID:	TR-4-03	Batch#:	131302
Lab ID:	198824-003	Sampled:	10/30/07
Matrix:	Water	Received:	10/30/07
Units:	ug/L	Analyzed:	11/05/07
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	1.3	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
MTBE	2.8	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-122
1,2-Dichloroethane-d4	110	74-137
Toluene-d8	97	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/MS			
Lab #:	198824	Location:	1600 63rd St
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	3494.01	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC413646	Batch#:	131302
Matrix:	Water	Analyzed:	11/05/07
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-122
1,2-Dichloroethane-d4	103	74-137
Toluene-d8	94	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/MS			
Lab #:	198824	Location:	1600 63rd St
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	3494.01	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	131302
Units:	ug/L	Analyzed:	11/05/07
Diln Fac:	1.000		

Type: BS Lab ID: QC413647

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	112.3	90	59-149
Isopropyl Ether (DIPE)	25.00	22.27	89	59-120
Ethyl tert-Butyl Ether (ETBE)	25.00	22.43	90	65-134
Methyl tert-Amyl Ether (TAME)	25.00	22.39	90	67-132
MTBE	25.00	22.93	92	60-130
1,2-Dichloroethane	25.00	23.53	94	76-121
Benzene	25.00	23.10	92	80-120
Toluene	25.00	22.82	91	80-122
1,2-Dibromoethane	25.00	23.33	93	80-120
Ethylbenzene	25.00	23.95	96	80-127
m,p-Xylenes	50.00	47.32	95	80-130
o-Xylene	25.00	22.99	92	80-126

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-122
1,2-Dichloroethane-d4	100	74-137
Toluene-d8	92	80-120
Bromofluorobenzene	96	80-120

Type: BSD Lab ID: QC413648

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	120.8	97	59-149	7	20
Isopropyl Ether (DIPE)	25.00	22.42	90	59-120	1	20
Ethyl tert-Butyl Ether (ETBE)	25.00	22.29	89	65-134	1	20
Methyl tert-Amyl Ether (TAME)	25.00	22.35	89	67-132	0	20
MTBE	25.00	23.07	92	60-130	1	20
1,2-Dichloroethane	25.00	23.84	95	76-121	1	20
Benzene	25.00	23.17	93	80-120	0	20
Toluene	25.00	22.77	91	80-122	0	20
1,2-Dibromoethane	25.00	23.77	95	80-120	2	20
Ethylbenzene	25.00	24.01	96	80-127	0	20
m,p-Xylenes	50.00	46.86	94	80-130	1	20
o-Xylene	25.00	23.18	93	80-126	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-122
1,2-Dichloroethane-d4	100	74-137
Toluene-d8	94	80-120
Bromofluorobenzene	98	80-120

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS			
Lab #:	198824	Location:	1600 63rd St
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	3494.01	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	131302
Units:	ug/L	Analyzed:	11/05/07
Diln Fac:	1.000		

Type: BS Lab ID: QC413649

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,039	104	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-122
1,2-Dichloroethane-d4	102	74-137
Toluene-d8	93	80-120
Bromofluorobenzene	98	80-120

Type: BSD Lab ID: QC413650

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	1,018	102	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-122
1,2-Dichloroethane-d4	104	74-137
Toluene-d8	93	80-120
Bromofluorobenzene	98	80-120

RPD= Relative Percent Difference

Lead			
Lab #:	198824	Location:	1600 63rd St
Client:	Treadwell & Rollo	Prep:	EPA 3010A
Project#:	3494.01	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	10/30/07
Units:	ug/L	Received:	10/30/07
Diln Fac:	1.000	Prepared:	10/31/07
Batch#:	131151	Analyzed:	10/31/07

Field ID	Type	Lab ID	Matrix	Result	RL
TR-1-03	SAMPLE	198824-001	Water	ND	3.4
TR-3-03	SAMPLE	198824-002	Water	ND	3.4
TR-4-03	SAMPLE	198824-003	Water	ND	3.4
	BLANK	QC413087	Filtrate	ND	3.4

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Lead			
Lab #:	198824	Location:	1600 63rd St
Client:	Treadwell & Rollo	Prep:	EPA 3010A
Project#:	3494.01	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	131151
MSS Lab ID:	198799-001	Sampled:	10/29/07
Matrix:	Filtrate	Received:	10/30/07
Units:	ug/L	Prepared:	10/31/07

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
BS	QC413088		100.0	100.4	100	80-120			11/01/07
BSD	QC413089		100.0	101.7	102	80-120	1	20	11/01/07
MS	QC413090	<1.150	100.0	95.85	96	76-120			10/31/07
MSD	QC413091		100.0	98.04	98	76-120	2	20	10/31/07

RPD= Relative Percent Difference

198824

006850

CHAIN OF CUSTODY RECORD

- 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041
- 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
- 777 Campus Commons Road, Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7413
- 50 Airport Parkway, Suite 175, San Jose, CA 95110 Ph: 408.437.7708/Fax: 408.437.7709

Site Name: 1600 63rd St
 Job Number: 3494.01
 Project Manager/Contact: Matt Hall
 Samplers: Louis Arzghi
 Recorder (Signature Required): Janis M. Glin

Turnaround Time
5 day

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix				No. Containers & Preservative				Analysis Requested						Silica gel clean-up	Hold	Remarks				
				Soil	Water	Air	Other	HCL	H ₂ SO ₄	HNO ₃	Ice	BTEX	TPH-g	fuel organics	total lead	TPH-d								
-1 TR-1-03	10/30/07	1455			X			3		1	1			X	X	X	X	X						
-2 TR-3-03	↓	1350			X			3		1	1			X	X	X	X	X						
-3 TR-4-03	↓	1550			X			3		1	1			X	X	X	X	X						

Relinquished by: (Signature) <u>Janis M. Glin</u>	Date <u>10/30/07</u>	Time <u>1625</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>10/30/07</u>	Time <u>4:25pm</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Curtis + Tompkins

Laboratory Comments/Notes:

Method of Shipment: Hand Carried Private Courier (Co. Name) Lab courier Fed Ex Airborne UPS

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number:

REC'D on 10/30/07; intact J