Treadwell&Rollo

21 March 2007
Project 3494.01

Mr. Steven Plunkett
Hazardous Substances Scientist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Subject: Letter Report: Supplemental Soil and Groundwater Investigation
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 the Supplemental Soil and Groundwater Investigation at 1600 63rd Street, Emeryville, California (the "Site").

The work included soil borings, installation, surveying, and development of five groundwater monitoring wells (designated TR-1 through TR-5), abandonment of four existing groundwater monitoring wells (designated MW-1, MW-3, MW-4, and MW-5), collection and analysis of soil and groundwater samples, and a free product recovery investigation. The work summarized in this letter report was performed as described in our workplan dated 30 October 2006 (Treadwell & Rollo, 2006a). Alameda County Health Care Services Agency requested modifications to the original workplan in a letter dated 16 November 2006 (ACHCSA, 2006a). Treadwell & Rollo, Inc. prepared an addendum to incorporate the ACHCSA comments, and the workplan was approved by ACHCSA. A sensitive receptor survey will be submitted separately.

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. Historical data is summarized in Tables 1, 3, 4, and 6.

Groundwater at the Site has been monitored since 1989. Based on historical and current data, groundwater flows towards the west.

WELL INSTALLATION AND SAMPLING

Soil Borings

Drilling permits were obtained from Alameda County Public Works Agency (Appendix A). Encroachment permits were obtained from the City of Emeryville (Appendix A).

Prior to performing the well installation activities, Treadwell & Rollo notified Underground Service Alert (USA) and subcontracted Norcal Geophysical of Cotati, California, to identify and locate underground utilities at the work site. Underground utilities were not present at proposed drilling locations.

On 9-11 January 2007, Treadwell & Rollo advanced nine soil borings to 20-feet at the Site. Soil samples were collected continuously during drilling and classified in the field in accordance with the Unified Soil Classification System (ASTM Standard 2488-93). Boring logs are presented in Appendix B. An organic vapor monitor (OVM) was used to screen the soil samples. Samples were also examined for chemical staining and chemical odor. Selected soil samples were retained for laboratory analysis based on these findings. Samples were analyzed for Total Petroleum Hydrocarbons (TPH)-diesel, TPH-gasoline/BTEX/Fuel Oxygenates (including Ethanol) (EPA Method 8260), and total lead. Laboratory analytical data for soil samples collected in January 2007 are summarized in Table 2. Laboratory analytical reports and chain-of-custody forms are included in Appendix E.

Subsurface Conditions

Subsurface geology generally consisted of the following:

- Fill material is observed from beneath the asphalt surface to approximately 2 to 3 feet below ground surface

- A fine-grain layer with intermittent, interbedded coarse-grain material is observed from approximately 2 to 3 until 6 to 8 feet below ground surface.

- A layer of interbedded fine- and coarse-grain material exists from approximately 6 to 8 until 12 to 15 feet. In boring TR-3, a layer of coarse-grain material (sand with gravel) exists above this interbedded layer from 6 to 8 feet.

- A layer of coarse grained material is generally observed from 12 to 15 feet to 17 to 20 feet (maximum depth explored). In some borings, a fine-grain layer is observed underlying the coarse-grain material from 17 to 20 feet. In boring TR-1, the subsurface is primarily fine grained from 12 to 20 feet.

Groundwater Sampling from Temporarily Cased Boreholes

Four of the borings (SB-1, SB-2, SB-3, and SB-4) were temporarily cased using 1-inch PVC screen. Water levels were measured using an oil/water interface meter (to detect potential free product). For borings containing floating free product, the intake line from a peristaltic pump was plugged using wadded paper and lowered through the free-phase product. The intake was then positioned in the middle of the water column. The pump was then run in reverse to "blow out" the wadded paper. After the intake was cleared, a grab sample was collected from beneath the floating free-phase product, while the free product level was monitored with an interface meter to ensure that the intake remained below the free-phase product level. A new intake line was used at each boring.

Monitoring Well Installation

Five of the borings (TR-1, TR-2, TR-3, TR-4, and TR-5) were overdrilled to a larger diameter using hollow stem augers, and a 20-foot monitoring well was constructed using 2-inch PVC and 15-feet of factory slotted screen within each boring. The borehole annulus was filled with #2/12 silica sand to a depth of approximately 1-foot above the screen. Approximately 1-foot of untreated bentonite chips were placed above the sand and then hydrated. The remainder of the boring annulus (±3-feet) was filled with cement-bentonite grout. A traffic rated utility box was placed at the ground-surface and set in concrete.

The five new monitoring wells (and one existing monitoring well, MW-2) were surveyed on 15 January 2007 by CSS Environmental Services of Novato, CA. The monitoring wells were surveyed relative to mean sea level.

Monitoring well and boring locations are shown on Figure 2. Soil boring logs and well completion diagrams are presented in Appendix B. Survey data is presented in Appendix C. DWR 188 Forms are presented in Appendix H.

Monitoring Well Development

After the well installation was complete, the grout and concrete were allowed to set for more than 72 hours prior to well development. On 15 January 2007, the wells, not containing free phase product, were developed to remove suspended solids in the well and filter pack created during well construction. These wells were developed by surging, bailing, and overpumping approximately 10 casing volumes of water from each well. Purge water collected during well development was stored in 55-gallon drums on site for subsequent profiling and disposal. Treadwell & Rollo, Inc. attempted to collect water quality data during development of the monitoring wells. However, the field meter malfunctioned during activities and accurate data could not be collected at that time. Limited water quality data was obtained at a later time, and the data is summarized in Table 7. Groundwater Sampling Forms are presented in Appendix D.

Groundwater Purging and Sampling

On 15 January 2007, Treadwell & Rollo collected groundwater samples from each of the six wells. Prior to sampling, monitoring wells not containing free-phase product were purged using a submersible pump. During well purging, the field meter malfunctioned and accurate data could not be collected at that time. Limited water quality data was obtained at a later time, and the data is summarized in Table 7. Purge water collected from the monitoring wells was stored in 55-gallon drums on site for subsequent profiling and disposal.

For monitoring wells containing free-phase product, unpurged grab groundwater samples were collected using a peristaltic pump. The free-phase product sampling method is discussed above in groundwater sampling from temporarily cased boreholes.

Groundwater samples were collected using a new disposable bailer for each well. Samples were transferred into the appropriate preserved sample containers. Dedicated equipment was used during all sampling procedures; therefore, no rinse blanks were collected. Groundwater Sampling Forms are presented in Appendix D.

All samples were placed in iced coolers and delivered for analysis under chain-of-custody protocol to TestAmerica, a State-certified laboratory in Morgan Hill, California. Groundwater samples were analyzed for TPH-diesel, TPH-gasoline/BTEX/Fuel Oxygenates (including ethanol, EPA Method 8260) and total lead.

QA/QC Samples

Field QA/QC samples were not collected. Laboratory QA/QC blanks and duplicates were provided by TestAmerica.

Soil Sampling Results

The results of the soil analyses are presented on Table 2. Laboratory analytical reports and chain-of-custody forms are presented in Appendix E.

The primary contaminant of concern in soil is TPH-diesel range quantified hydrocarbons. TPH-gasoline range quantified hydrocarbons, ethylbenzene, and xylene were also detected, but at concentrations below the 2005 San Francisco Bay Regional Water Quality Control Board, Environmental Screening Levels, Table B-2, Shallow Soil Screening Levels (<3m bgs), Commercial/Industrial Land Use, potentially impacted groundwater is not a current or potential drinking water resource (ESLs). The petroleum hydrocarbons appear to be primarily confined to the northwest corner of the property coincident with the observed free phase product plume.

TPH-diesel range quantified hydrocarbons ranged from 1.3 mg/kg (TR-4, 8.5-9.0 & 19.5-20 feet bgs) to 4,200 mg/kg (TR-2, which contains free phase product, 14.5-15 feet bgs). TPH-diesel range hydrocarbons were observed in the offsite soil samples ranging from 2.1 mg/kg (SB-2. 6-6.5 feet bgs) to 3,800 mg/kg (SB-4, 17.5-18 feet bgs).

Review of the chromatograms shows the compounds do not match lab standards, which suggests that the detected compounds are indicative of weathered petroleum fuel hydrocarbons.

Groundwater Sampling Results

The results of the groundwater analyses are presented on Table 9 and Figure 4. Laboratory analytical reports and chain-of-custody forms are presented in Appendix E.

The primary contaminants of concern are TPH-diesel range hydrocarbons and TPH-gasoline range hydrocarbons. Fuel oxygenates (MtBE and DiPE) were also detected in selected groundwater samples, but at concentrations below the environmental screening levels (RWQCB 2005). The petroleum hydrocarbons appear to be primarily confined to the northwest corner of the property coincident with the free-phase product plume.

Dissolved TPH-diesel range hydrocarbons in the new and existing wells ranged from 0.098 mg/L (upgradient, MW-3) to 480 mg/L (TR-2, which contains free-phase product). Dissolved TPH-diesel range hydrocarbons in the temporarily-cased borehole groundwater samples ranged from 33 mg/L (SB-2) to 150 mg/L (SB-4).

Dissolved TPH-gasoline range hydrocarbons in the new and existing wells ranged from non detect (<0.5 mg/L) in wells TR-1, TR-3, and TR-4 to 12 mg/L in TR-5. Dissolved TPH-gasoline range hydrocarbons in the temporarily-cased borehole groundwater samples ranged from 1.6 mg/L (SB-2) to 140 mg/L (SB-1).

Review of chromatograms from boring SB-1 suggest that the detected compounds are indicative of weathered hydrocarbons, and do not suggest specific patterns of TPH-gasoline or TPH-diesel. This is evidenced by the detection not matching lab standards, as well as, the lack of BTEX compounds in the samples. TPH-gasoline has historically been detected in MW-2 (see Table 6). Chromatograms from previous sampling events were not available for review to confirm if the gasoline matches the laboratory standards, but the absence of BTEX compounds may be indicative of weather hydrocarbons.

SB-1 chromatograms are included in Appendix F.

MONITORING WELL ABANDONMENT

On 15 January 2007, four monitoring wells (MW-1, MW-3, MW-4, and MW-5) were abandoned after discussion with Alameda County Health Care Services Agency. Monitoring wells MW-1, MW-3, and MW-4 were replaced with new monitoring wells, TR-1, TR-3, and TR-4 respectively, which were installed with screens that properly intersect the shallow groundwater zone. Monitoring well MW-5 was screened from a depth of 25-32 feet, and has historically non-detect chemical concentrations. Historical data for the abandoned wells is summarized in Table 1, Table 4, and Table 6. The abandoned monitoring wells are shown on Figure 2.

FREE PHASE PRODUCT RECOVERY TESTING

Floating free-phase product was observed in monitoring wells MW-2, TR-2 and TR-5. Free-phase product thickness was measured using an oil/water interface meter. A bailer was used to remove free product from each monitoring well. Free-phase product removal was confirmed using the interface meter. Free-phase product thickness has been measured every two weeks following well installation and initial sampling events. Floating free-phase product thickness has been measured up to 0.69-feet (TR-2, 15 January 2007). Temporal data suggests free-phase product accumulation in the wells is relatively slow.

The results of the free product recovery testing are summarized in Table 5. The lateral extent of free-phase product is shown on Figure 5.

CONCLUSIONS AND RECOMMENDATIONS

The presence of petroleum fuel hydrocarbons was confirmed in shallow groundwater throughout the Site. Floating free-phase product exists in the northwestern portion of the Site. Elevated concentrations of petroleum hydrocarbons were discovered in off-site soil and groundwater samples. Free-phase product was observed in offsite soil and groundwater samples.

We recommend a quarterly monitoring program for the six existing monitoring wells to confirm the initial investigation report and to evaluate whether site conditions fluctuate seasonally. After one year of quarterly monitoring (4 events), a feasibility study may be appropriate to evaluate remedial alternatives for the Site.

Free product should be passively controlled using a sorbent sock system while additional monitoring data is obtained to effectively characterize the site.

Feel free to contact me at 510/289-9310 ext. 556 with any questions or comments.

Sincerely yours,
TREADWELL & ROLLO, INC.

Matthew B. Hall
Project Scientist

David R. Kleesattel
Professional Geologist

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Attachments: Tables
Figures
Appendices
Appendix A – Permits
Appendix B – Soil Boring Logs and Well Construction Diagrams
Appendix C – Surveyor's Report
Appendix D – Groundwater Sampling Forms
Appendix E – Laboratory Analytical Report
Appendix F – Chromatograms
Appendix G – Dimensioned Well Locations
Appendix H – DWR 188 Forms

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TABLES

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TABLE 1
SUMMARY OF HISTORICAL SOIL SAMPLE RESULTS
1600 63rd Street, Emeryville, CA

Sample No.	Date Sampled	Depth (below ground surface)	Notes	Chemical Concentrations Detected (mg/kg) TOG	TPHg	TPHd	TPH	Benzene	Toluene	Ethyl-benzene	Total Xylenes	PCBs	TFH (Modified 8015)
Kaldveer													
EB-1	3/30/1987	3.0		--	**1,600**	380	--	--	--	--	--	--	--
EB-2	3/30/1987	2.5		ND (1)	--	--	--	--	--	--	--	--	--
EB-3	3/30/1987	3.0		120 (1)	--	--	--	--	--	--	--	--	--
EB-4	3/30/1987	4.5	(2)	--	--	--	--	0.006	0.011	ND	ND	--	ND
EB-5	3/30/1987	6.0		**1,300**	--	--	--	--	--	--	--	--	ND
EB-6	3/30/1987	7.5		190 (1)	ND	--	--	--	--	--	--	--	--
Engineering Science													
BH-1	9/2/1987	2.5, 6.5 Composite		**4,800**	--	--	**1,900**	--	--	--	--	--	--
BH-3	9/8/1987	1.0		100	--	--	<100	--	--	--	--	--	--
BH-4	9/2/1987	2.5, 4.5 Composite		--	**1,300**	--	--	--	--	--	--	--	--
BH-5	9/2/1987	2.5, 6.0 Composite		--	**1,300**	ND	--	--	--	--	--	--	--
BH-6	9/2/1987	1.0, 3.5 Composite		--	17	--	--	--	--	--	--	--	--
BH-7	9/8/1987	3.5, 9.5 Composite		--	--	20	--	--	--	--	--	ND	--
BH-8	9/8/1987	2.5, 6.0, 9.0 Composite		<100	--	--	<100	--	--	--	--	ND	--
BH-9A	9/9/1987	5.5, 10.0 Composite		--	--	16	--	--	--	--	--	ND	--
BH-10	9/9/1987	2.5		<100	--	--	<100	--	--	--	--	--	--
ES/MW-1	11/5/1987	5.0	(5)	--	360	(6)	--	**0.7**	0.8	--	1.2	--	--
ES/MW-2	11/6/1987	5.0		<250	--	--	<250	--	--	--	--	--	<10
ES/MW-3	1/6/1988	4.5	(2)	--	--	--	**1,100**	ND	0.6	ND	ND	<0.3	--
Peterson-ASP	5/6/1988	2.0	(2) (4)	--	--	--	**43,000**	--	--	--	0.71	ND	--
WPRS-C	5/11/1988	0.5 Composite 100-ft grid	(2) (3)	--	--	--	--	ND	ND	ND	ND	0.042	--
Harding Lawson													
MW-2	5/1/1989	5.0	(7)	--	15	212	--	<0.005	<0.005	<0.005	<0.005	ND	--
		9.5	(7)	--	<10	<10	--	<0.005	<0.005	<0.005	<0.005	ND	--
Certified													
B1	7/13/1994	12.0		--	<2	<2	--	0.011	0.1	0.14	0.26	--	--
B2	7/13/1994	12.0		--	<2	<2	--	0.013	0.038	0.04	0.12	--	--
B3	7/13/1994	12.0		--	<2	<2	--	0.01	0.1	0.14	0.47	--	--
B4	7/13/1994	12.0		--	<2	<2	--	<0.005	0.018	0.017	0.1	--	--
ESL				1,000	400	500	400	0.38	9.3	32	11	0.74	

Notes:

mg/kg	= milligrams per kilogram	(1)	GC/FID Waste Oil Standard
TOG	= Total Petroleum Hydrocarbons as Oil and Grease	(2)	Other EPA 8240 analytes not detected
TPHg	= Total Petroleum Hydrocarbons as Gasoline.	(3)	Composite soil sample collected at roughly a 100 foot grid across the site from approximately 3 to 6 inches below the surface.
TPHd	= Total Petroleum Hydrocarbons as Diesel.		
TPH	= Total Petroleum Hydrocarbons	(4)	440 ppm lead, 6.1 ppm flourene, 19 ppm phenanthrene, 7.7 ppm flouranthene, 16 ppm pyrene, 23 ppm chrysene, 9.6 ppm benzo(a)anthracene detected.
PCBs	= Polychlorinated Biphenyls		
MTBE	= Methyl-tert-butyl ether	(5)	4.9 ppm lead detected.
--	= Not Analyzed.	(6)	Result reported as gasoline and diesel.
ND	= Not Detected.	(7)	Other EPA 8010, 8020, 8270 and 8080 analytes not detected.
<	= Below Specified Reporting Limits.		
ESL	= Environmental Screening Level, Shallow Soil, Groundwater is not a source of drinking water, Commercial/Industrial Land Use (RWQCB 2005)		
1,300	- **Bold** entries exceed the Environmental Screening Levels		

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TABLE 2
SOIL SAMPLING RESULTS JANUARY 2007 BORINGS
1600 63rd Street, Emeryville, CA

Chemical Concentrations Detected (mg/kg)										
Sample No.	Date Sampled	Depth (below ground surface)	TPHg (1)	TPHd (1)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Fuel Oxygenates (including Ethanol)	Total Lead
Treadwell & Rollo, Inc.										
SB-1	1/10/2007	6-6.5	<0.1	2.9	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	8.9
	1/10/2007	9.5-10	120	**1,700**	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	<5
	1/10/2007	14.5-15	57	**1,500**	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	9.2
	1/10/2007	19.5-20	<0.1	5.9	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	<5
SB-2	1/10/2007	6-6.5	<0.1	2.1	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	6
	1/10/2007	9.5-10	0.16	98	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	<5
	1/10/2007	14.5-15	33	**770**	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	5
	1/10/2007	17-17.5	1.9	340	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	<5
	1/10/2007	19.5-20	0.45	45	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	<5
SB-3	1/10/2007	6-6.5	2.5	340	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	5.5
	1/10/2007	9.5-10	31	280	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	17
	1/10/2007	14.5-15	1.2	18	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	<5
	1/10/2007	17-17.5	57	**660**	<0.005	<0.005	0.013	0.05	<0.005 to <0.1	5
	1/10/2007	19.5-20	<0.1	4.1	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	<5
SB-4	1/10/2007	6-6.5	0.62	240	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	5.3
	1/10/2007	9.5-10	79	**910**	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	6.2
	1/10/2007	14.5-15	5.1	**630**	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	6.3
	1/10/2007	17.5-18	220	**3,800**	<0.025	<0.025	<0.025	<0.025	<0.012 to <0.5	6.9
	1/10/2007	19.5-20	0.27	44	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	6
TR-1	1/9/2007	4.5-5	<0.1	27	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	22
	1/9/2007	8-8.5	<0.1	14	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	6.2
	1/9/2007	9.5-10	<0.1	2.8	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	11
	1/9/2007	14.5-15	<0.1	2.4	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	8.4
	1/9/2007	19.5-20	<0.1	2.2	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	12
TR-2	1/9/2007	4.5-5	<0.1	10	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	130
	1/9/2007	9.5-10	1.4	**2,100**	<0.025	<0.025	<0.025	<0.025	<0.012 to <0.5	6.3
	1/9/2007	14.5-15	82	**4,200**	<0.025	<0.025	<0.025	<0.025	<0.012 to <0.5	6.6
	1/9/2007	19.5-20	3.9	490	<0.025	<0.025	<0.025	<0.025	<0.012 to <0.5	13
TR-3	1/9/2007	4.5-5	1.3	490	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	7.4
	1/9/2007	9.5-10	0.21	72	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	6.8
	1/9/2007	15-15.5	0.25	250	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	25
	1/9/2007	19.5-20	<0.1	11	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	7
TR-4	1/9/2007	4.5-5	<0.1	7.1	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	12
	1/9/2007	8.5-9	<0.1	1.3	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	<5
	1/9/2007	9.5-10	<0.1	4.9	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	7.8
	1/9/2007	14.5-15	<0.1	2.4	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	11
	1/9/2007	19.5-20	<0.1	1.3	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	10
TR-5	1/9/2007	4.5-5	<0.1	**3,500**	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	410
	1/9/2007	9.5-10	6.1	**870**	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	<5
	1/9/2007	14.5-15	250	180	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	12
	1/9/2007	19.5-20	0.65	6.8	<0.005	<0.005	<0.005	<0.005	<0.005 to <0.1	12
ESL			400	500	0.38	9.3	32	11		750

Notes:

mg/kg	= milligrams per kilogram
TPHg	= Total Petroleum Hydrocarbons as Gasoline (EPA Method 8260).
TPHd	= Total Petroleum Hydrocarbons as Diesel (EPA Method 8015).
Fuel Oxygenates	= MtBE, DiPE, ETBE, TAME, TBA, 1,2 DCA, EDB, Ethanol
<	= Below Specified Reporting Limits.
ESL	= Environmental Screening Levels, Shallow Soil, Groundwater not a source of drinking water, Commercial/Industrial Land Use (SFBRWQCB 2005)
1,700	= **Bold** value exceeds environmental screening level.

Footnotes:

(1)	Laboratory reported that the analyte detected in samples did not match the laboratory standard.

TABLE 3
SUMMARY OF HISTORICAL SOIL EXCAVATION CONFIRMATION SAMPLING
1600 63rd Street, Emeryville, CA

Sample No.	Date Sampled	Depth (below ground surface)	Description	Chemical Concentrations Detected (mg/kg)									
				TPHg	TPHd	TPH	Benzene	Toluene	Ethyl-benzene	Total Xylenes	PCBs	EPA 8270 Analytes	Other Analyses
Excavation A													
UST-2SA	4/12/1988		Soil sample from west end of excavation	350	--	--	0.15	--	--	--	ND	--	--
UST-2SB	4/12/1988		Soil sample from east end of excavation	ND	ND	--	ND	ND	--	ND	--	--	--
UST-3SA	4/12/1988		Soil sample from west end of excavation	--	170	--	ND	ND	--	ND	ND	--	--
UST-3SB	4/12/1988		Soil sample from east end of excavation	ND	ND	--	ND	ND	--	ND	--	--	--
PP-1	5/17/1988	variable	Sides and bottom of excavation A	--	300	**1,600**	--	--	--	--	--	--	--
PP-2	5/17/1998	variable	Sides and bottom of excavation A	--	ND	ND	--	--	--	--	--	--	--
PP-3	5/17/1998	variable	Sides and bottom of excavation A	--	200	200	--	--	--	--	--	--	--
PP-4	5/17/1998	variable	Sides and bottom of excavation A	--	91	91	--	--	--	--	--	--	--
PP-5	5/17/1998	variable	Sides and bottom of excavation A	--	48	48	--	--	--	--	--	--	--
PP-6	5/17/1998	variable	Sides and bottom of excavation A	--	**2,000**	**2,000**	--	--	--	--	--	--	--
PP-7	5/17/1998	variable	Sides and bottom of excavation A	--	ND	ND	--	--	--	--	--	--	--
PP-8	5/17/1998	variable	Sides and bottom of excavation A	--	200	200	--	--	--	--	--	--	--
PP-9	5/17/1998	variable	Sides and bottom of excavation A	--	78	78	--	--	--	--	--	--	--
PP-10	5/20/1988	variable	Sides and bottom of excavation A	ND	ND	--	--	--	--	--	--	--	--
PP-11	5/20/1988	variable	Sides and bottom of excavation A	ND	83	--	--	--	--	--	--	--	--
PP-12	5/20/1988	variable	Sides and bottom of excavation A	ND	92	--	--	--	--	--	--	--	--
PP-14-15	5/23/1988	variable	Sides and bottom of excavation A	**790**	ND	--	--	--	--	--	--	--	--
PP-15	5/25/1988	variable	Sides and bottom of excavation A	**490**	ND	--	--	--	--	--	--	--	--
Excavation B													
EXNBH-1	5/9/1988	variable	Composite sample around BH-1	ND	ND	--	--	--	--	--	--	--	--
Excavation C													
HT-1	4/7/1988		Soil sample from beneath west end of tank	--	35	--	--	--	--	--	0.078	--	(2)
HT-2	4/7/1988		Soil sample from beneath east end of tank	--	26	--	--	--	--	0.006	0.043	--	(3)
HT-3	4/7/1988	near surface	Soil sample from east edge of pit	--	--	**2,600**	--	--	--	0.112	ND	--	(4)
UST-1SA	4/15/1988		Soil sample from west end of pit	--	--	--	--	--	--	--	ND	--	(5)
EXNUST-1	5/9/1988	variable	Composite near UST	--	--	--	--	--	--	--	--	(1)	--
PNA-S	5/23/1988		Soil from Burn-Pit area	--	--	--	--	--	--	--	--	--	--
UST-4													
UST-4SA	4/12/1988		Soil sample from north end of excavation	ND	ND	--	--	--	--	--	--	--	--
UST-4SB	4/12/1988		Soil sample from south end of excavation	ND	ND	--	--	--	--	--	--	--	--
ESL (mg/kg)				400	500	400	0.38	9.3	32	11	0.74		

Notes:

mg/kg	= milligrams per kilogram	(1)	1.2 ppm Pyrene
TPHd	= Total Petroleum Hydrocarbons as Diesel	(2)	21 ppb C6 Hydrocarbons
TPHg	= Total Petroleum Hydrocarbons as Gasoline	(3)	500 ppb Hexane
PCBs	= Polychlorinated biphenyls	(4)	2100 ppb Hexane
<	= Below Specified Reporting Limits.	(5)	170 ppb C6 Hydrocarbons
--	= Not Analyzed.		
ND	= Not Detected.		
ESL	= Environmental Screening Level (Shallow Soils-SFBRWQCB 2005)		
790	= **Bold** terms exceed the Environmental Screening Levels		

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TABLE 4
SUMMARY OF HISTORICAL 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-1 [(1)]	15.12	13-18	8/3/1989	5.99	9.13	
			9/21/1989	5.81	9.31	0.18
			10/20/1989	6.24	8.88	-0.43
			12/20/1989	6.09	9.03	0.15
			3/20/1990	5.87	9.25	0.22
			7/20/1990	5.75	9.37	0.12
			11/12/1990	6.04	9.08	-0.29
			2/7/1991	6.65	8.47	-0.61
			5/8/1991	6.17	8.95	0.48
			5/14/1999	5.78	9.34	0.39
			11/28/2006	5.41	9.71	0.37
			1/15/2007	5.68	9.44	-0.27
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*	--	--
MW-3 [(1)]	15.90	20-25	8/3/1989	4.06	11.84	
			9/21/1989	3.77	12.13	0.29
			10/20/1989	4.49	11.41	-0.72
			12/20/1989	4.32	11.58	0.17
			3/20/1990	3.78	12.12	0.54
			7/20/1990	3.73	12.17	0.05
			11/12/1990	3.89	12.01	-0.16
			2/7/1991	3.92	11.98	-0.03
			5/8/1991	3.96	11.94	-0.04
			5/14/1999	5.54	10.36	-1.58
			11/28/2006	4.01	11.89	1.53
			1/15/2007	4.28	11.62	-0.27

TABLE 4
SUMMARY OF HISTORICAL 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-4 [1]	14.04	22-29	8/3/1989	7.10	6.94	
			9/21/1989	6.90	7.14	0.20
			10/20/1989	6.95	7.09	-0.05
			12/20/1989	7.24	6.80	-0.29
			3/20/1990	6.94	7.10	0.30
			7/20/1990	6.94	7.10	0.00
			11/12/1990	7.13	6.91	-0.19
			2/7/1991	6.94	7.10	0.19
			5/8/1991	7.15	6.89	-0.21
			5/14/1999	5.54	8.50	1.61
			11/28/2006	6.06	7.98	-0.52
			1/15/2007	6.08	7.96	-0.02
MW-5 [1]	15.21	24-32	8/3/1989	4.35	10.86	
			9/21/1989	4.38	10.83	-0.03
			10/20/1989	4.37	10.84	0.01
			12/20/1989	4.48	10.73	-0.11
			3/20/1990	4.07	11.14	0.41
			7/20/1990	4.12	11.09	-0.05
			11/12/1990	4.36	10.85	-0.24
			2/7/1991	4.44	10.77	-0.08
			5/8/1991	3.90	11.31	0.54
			5/14/1999	4.09	11.12	-0.19
			11/28/2006	5.67	9.54	-1.58
			1/15/2007	4.79	10.42	0.88
TR-1	17.50	5-20	1/15/2007	6.21	11.29	
			1/30/2007	6.14	11.36	-0.07
TR-2	16.50	5-20	1/15/2007	8.11*	--	
			1/30/2007	7.19	7.19	--
			2/13/2007	6.57*		--
			2/27/2007	6.59*		
TR-3	18.60	5-20	1/15/2007	4.85	13.75	
			1/30/2007	4.68	13.92	-0.17
TR-4	16.38	5-20	1/15/2007	8.71	7.67	
			1/30/2007	6.17	10.21	-2.54
TR-5	16.27	5-20	1/15/2007	7.34*	--	
			1/30/2007	6.87	9.40	--
			2/13/2007	6.22	10.05	-0.65
			2/27/2007	6.19*	--	--

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.

Footnotes:

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

Treadwell&Rollo

TABLE 5
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
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
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

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 6
SUMMARY OF HISTORICAL GROUNDWATER SAMPLING RESULTS
1600 63rd Street, Emeryville, CA

Sample No.	Date Sampled	Notes	Chemical Concentrations Detected (mg/L)												
			TPHd	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	PCBs	EPA 8080 Analytes	EPA 8270 Analytes	EPA 8240 Analytes	EPA 8010 Analytes	MTBE	Motor Oil
Engineering Science															
ES/MW-1	11/12/1987	(1)	--	--	**1.7**	**2.6**	--	**4.2**	--	--	--	--	--	--	--
ES/MW-2	11/12/1987	(2)	--	--	--	--	--	--	--	--	--	--	--	--	--
ES/MW-3	1/13/1988	(3)	--	--	--	--	--	--	<0.0003	--	--	**0.002 (12)**	--	--	--
HLA															
MW-1	6/18/1989		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	--	--	ND	<0.01	--	--	--
	9/21/1989		<0.5	<0.5	<0.005	<0.005	<0.005	<0.005	0.0005	**(4)**	ND	<0.01	--	--	--
	12/20/1989		<0.5	<0.05	<0.005	<0.005	<0.005	<0.005	<0.0005	ND	ND	<0.01	--	--	--
	3/20/1990		<0.5	<0.05	<0.005	<0.005	<0.005	<0.005	<0.0005	ND	ND	<0.01	--	--	--
	7/20/1990		0.17	<0.05	<0.005	<0.0005	<0.0005	<0.005	--	ND	--	--	--	--	--
	11/12/1990		0.16	<0.05	<0.005	<0.0005	<0.0005	<0.005	<0.0005	ND	--	--	--	--	--
	2/7/1991		0.2	<0.05	<0.005	<0.0005	<0.0005	<0.005	<0.0005	ND	--	--	--	--	--
	5/8/1991		**0.7**	<0.05	<0.005	<0.0005	<0.0005	<0.005	<0.0005	ND	--	--	--	--	--
MW-2	6/25/1989		<0.5	0.3	<0.005	<0.005	<0.005	<0.005	<0.0005	--	**(7)**	<0.01	--	--	--
	9/21/1989		1	<0.5	<0.005	<0.005	<0.005	<0.005	<0.0005	**(5)**	**(8)**	<0.01	--	--	--
	12/20/1989		<0.5	**0.53**	<0.005	<0.005	<0.005	<0.005	<0.0005	ND	**(9)**	<0.01	--	--	--
	2/20/1990		**49**	0.42	<0.005	<0.005	<0.005	<0.005	<0.0005	**(6)**	**(10)**	**0.044 (13)**	--	--	--
	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	--	--	--	--	--

TABLE 6
SUMMARY OF HISTORICAL GROUNDWATER SAMPLING RESULTS
1600 63rd Street, Emeryville, CA

Sample No.	Date Sampled	Notes	Chemical Concentrations Detected (mg/L)												
			TPHd	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	PCBs	EPA 8080 Analytes	EPA 8270 Analytes	EPA 8240 Analytes	EPA 8010 Analytes	MTBE	Motor Oil
MW-3	7/18/1989		<0.5	<0.5	<0.001	<0.001	<0.001	<0.001	--	--	ND	<0.01	--	--	--
	9/21/1989		<0.5	<0.5	<0.005	<0.005	<0.005	<0.005	<0.0005	ND	ND	<0.01	--	--	--
	12/20/1989		<0.5	<0.05	<0.005	<0.005	<0.005	<0.005	<0.0005	ND	ND	<0.01	--	--	--
	3/20/1990		<0.5	<0.05	<0.005	<0.005	<0.005	<0.005	<0.0005	ND	ND	<0.01	--	--	--
	7/20/1990		<0.05	0.11	<0.005	<0.0005	<0.0005	<0.005	--	ND	--	--	--	--	--
	11/12/1990		<0.05	<0.05	<0.005	<0.0005	<0.0005	<0.005	<0.0005	ND	--	--	--	--	--
	2/7/1991		0.12	<0.05	<0.005	<0.0005	<0.0005	<0.005	<0.0005	ND	--	--	--	--	--
	5/8/1991		<0.05	<0.05	<0.005	<0.0005	<0.0005	<0.005	<0.0005	ND	--	--	--	--	--
MW-4	6/25/1989		<0.5	<0.05	<0.005	<0.005	<0.005	<0.005	<0.0005	--	ND	<0.01	--	--	--
	9/21/1989		<0.5	<0.5	<0.005	<0.005	<0.005	<0.005	<0.0005	ND	ND	<0.01	--	--	--
	12/20/1989		<0.5	<0.05	<0.005	<0.005	<0.005	<0.005	<0.0005	ND	ND	<0.01	--	--	--
	12/20/1989		--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	<0.01	--	--	--
	3/20/1990		<0.5	<0.05	<0.005	<0.005	<0.005	<0.005	<0.0005	ND	ND	<0.01	--	--	--
	7/20/1990		<0.05	0.12	<0.005	<0.0005	<0.0005	<0.005	--	ND	--	--	--	--	--
	11/12/1990		<0.05	<0.05	<0.005	<0.0005	<0.0005	<0.005	<0.0005	ND	--	--	--	--	--
	2/7/1991		<0.05	<0.05	<0.005	<0.0005	<0.0005	<0.005	<0.0005	ND	--	--	--	--	--
	5/8/1991		<0.05	<0.05	<0.005	<0.0005	<0.0005	<0.005	<0.0005	ND	--	--	--	--	--
MW-5	6/30/1989		<0.5	<0.05	<0.005	<0.005	<0.005	<0.005	--	--	ND	<0.01	--	--	--
	9/21/1989		<0.5	<0.5	<0.005	<0.005	<0.005	<0.005	0.0009	**(11)**	ND	<0.01	--	--	--
	12/20/1989		<0.5	<0.05	<0.005	<0.005	<0.005	<0.005	<0.0005	ND	ND	<0.01	--	--	--
	3/20/1990		<0.5	<0.05	<0.005	<0.005	<0.005	<0.005	<0.0005	ND	ND	<0.01	--	--	--
	7/20/1990		<0.05	<0.05	<0.005	<0.0005	<0.0005	<0.005	--	ND	--	--	--	--	--
	11/12/1990		<0.05	<0.05	<0.005	<0.0005	<0.0005	<0.005	<0.0005	ND	--	--	--	--	--
	2/7/1991		<0.05	<0.05	<0.005	<0.0005	<0.0005	<0.005	<0.0005	ND	--	--	--	--	--
	5/8/1991		<0.05	<0.05	<0.005	<0.0005	<0.0005	<0.005	<0.0005	ND	--	--	--	--	--

TABLE 6
SUMMARY OF HISTORICAL GROUNDWATER SAMPLING RESULTS
1600 63rd Street, Emeryville, CA

Sample No.	Date Sampled	Notes	Chemical Concentrations Detected (mg/L)												
			TPHd	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	PCBs	EPA 8080 Analytes	EPA 8270 Analytes	EPA 8240 Analytes	EPA 8010 Analytes	MTBE	Motor Oil
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-1	5/14/1999		0.2	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND	ND	--	ND	<0.005	<0.5
MW-2	5/14/1999	(14)	**550**	**210**	**<2.5**	**<2.5**	**<2.5**	**4.9**	**<0.5**	--	--	--	--	--	<3,500
MW-3	5/14/1999		0.15	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.00052	ND	ND	--	ND	<0.005	<0.5
MW-4	5/14/1999		<0.051	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND	ND	--	ND	<0.005	<0.51
MW-5	5/14/1999		<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.00052	ND	ND	--	ND	<0.005	<0.5
SOMA Corporation- Groundwater Grab Samples															
HP-1-W	8/5/1999		0.087	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	<0.005	--
HP-2-W	8/5/1999		**210**	**3.2**	<0.001	<0.001	<0.001	<0.001	--	--	--	--	--	<0.01	--
HP-3-W	8/5/1999		**150**	**5.4**	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	<0.05	--
HP-4-W	8/5/1999		**2**	0.13	<0.0005	0.001	0.00082	0.002	--	--	--	--	--	<0.005	--
HP-5-W	8/5/1999	(14)	**5,800**	**3**	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	<0.05	--

TABLE 6
SUMMARY OF HISTORICAL GROUNDWATER SAMPLING RESULTS
1600 63rd Street, Emeryville, CA

Sample No.	Date Sampled	Notes	Chemical Concentrations Detected (mg/L)												
			TPHd	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	PCBs	EPA 8080 Analytes	EPA 8270 Analytes	EPA 8240 Analytes	EPA 8010 Analytes	MTBE	Motor Oil
CPT Groundwater Grab Samples															
CPT-1-1W	10/21/1999	Depth= 78' - 103'	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.005	ND	ND	ND	--	--	--
CPT-1-2W	10/21/1999	Depth= 135' - 160'	0.1 (15)	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.013	ND	ND	ND	--	--	--
ESL			0.64	0.5	0.046	0.13	0.29	0.1	0.014					1.8	

NOTES:

mg/L = milligrams per liter
TPHd = Total Petroleum Hydrocarbons as Diesel
TPHg = Total Petroleum Hydrocarbons as Gasoline
PCBs = Polychlorinated biphenyls
< = Below Specified Reporting Limits.
-- = Not Analyzed.
ND = Not Detected.
ESL = Environmental Screening Level (Shallow GW-SFBRWQCB 2005)
TOG = Total Oil and Grease
MtBE -Methyl tert-Butyl Ether
1.7 -**Bold** values exceed the Environmental Screening Level

(1) 0.031 ppm lead and 21 ppm total fuel hydrocarbons detected.
(2) 200 ppm TOG detected.
(3) 2.7 ppm total fuel hydrocarbons detected.
(4) 0.0001 ppm endrin aldehyde detected.
(5) 0.00016 ppm heptachlor and 0.00015 ppm 4,4'-DDD detected.
(6) 0.00035 ppm Gamma-BHC detected.
(7) Trace fluorene detected.
(8) 0.006 ppm fluorene, 0.005 ppm bis(2-ethyl-hexyl) phthalate and 0.0061 ppm 2-methyl-naphthalene detected.
(9) 0.012 ppm 2-methyl-naphthalene detected.
(10) 0.0061 ppm fluorene, 0.018 ppm 2-methyl-naphthalene and 0.0055 phenanthrene detected.
(11) 0.00015 ppm endrin aldehyde detected.
(12) 0.002 ppm unknown EPA 8240 analyte detected.
(13) 0.044 ppm acetone detected.
(14) Product samples collected from well MW-2 and boring HP-5; Chromalab results indicate hydrocarbon reported does not match diesel standard. Friedman & Bruya results indicate "patterns displayed by these peaks are indicative of degraded Bunker C or crude oil"
(15) Chromalab analytical results state "Compounds reported are in the diesel range. They do not exhibit pattern characteristic of hydrocarbon."

TABLE 7
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)	Turbidity (NTU)
MW-2	1/15/2007	Bailer	NA	NM	No	NM	7.21	1,060	NM	120	NM
TR-1	1/15/2007	SP	30	30	No	NM	6.62	830	NM	140	NM
TR-2	1/15/2007	PP	NA	NM	No	NM	7.00	2,300	NM	130	NM
TR-3	1/15/2007	SP	35	20	Yes	NM	7.75	1,330	21.4	NM	NM
TR-4	1/15/2007	SP	25	25	No	NM	6.76	1,780	NM	130	NM
TR-5	1/15/2007	PP	NA	NM	No	NM	7.33	2,000	NM	130	NM

Footnotes

Meter malfunction occurred during January 2007 monitoring event.
Extra sample was collected and water quality parameters were measured at a later time.

General Notes

ORP = Oxidation Reduction Potential
mV = millivolts
mg/L = milligrams per Liter
µS/cm = microseimens per centimeter
NTU = Nephelometric Turbidity Units

TABLE 8
GROUNDWATER ANALYTICAL RESULTS FROM TEMPORARILY CASED BORINGS
1600 63rd Street, Emeryville, CA

Sample No.	Date Sampled	Chemical Concentrations Detected (mg/L)							
		TPHd [1]	TPHg [1]	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Fuel Oxygenates (including Ethanol)	Total Lead
T&R									
SB-1	1/10/2007	**73**	**140**	<0.25	<0.25	<0.25	<0.25	<0.25 to <50	<0.1
SB-2	1/10/2007	**33**	**1.6**	<0.001	<0.001	<0.001	<0.001	Di-isopropyl Ether = 0.0074 1,2 Dichloroethane = 0.0011 Others <0.001 to <0.2	<0.1
SB-3	1/10/2007	**49**	**7.8**	<0.005	<0.005	<0.005	0.013	Di-isopropyl Ether = 0.0063 Others <0.005 to <0.1	<0.1
SB-4	1/10/2007	**150**	**4.8**	<0.001	<0.001	<0.001	<0.001	Di-isopropyl Ether = 0.0026 Others <0.001 to <0.2	<0.1
ESL		0.64	0.5	0.046	0.13	0.29	0.1	1,2 Dichloroethane = 0.2 Di-isopropyl Ether = NA	2.5

Notes:

mg/L = milligrams per liter

TPHd = Total Petroleum Hydrocarbons as Diesel

TPHg = Total Petroleum Hydrocarbons as Gasoline

< = Below Specified Reporting Limits.

-- = Not Analyzed.

ESL = Environmental Screening Level, Shallow soils, groundwater is not a source of drinking water, commercial/industrial land use (RWQCB 2005)

73 = **Bold** values exceed the environmental screening level.

(1) Laboratory reported that the analyte detected in samples did not match the laboratory standard.

TABLE 9
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	<0.0005	--	(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 Other <0.0005 to <0.1	<0.1	
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	--
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	--
TR-5	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 flourene detected
(3)	0.00016 ppm heptachlor and 0.00015 ppm 4,4'-DDD detected.
(4)	0.006 ppm flourene, 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 flourene, 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.

FIGURES

Base map: The Thomas Guide
Alameda County
1999

0 1/4 1/2 Mile

Approximate scale

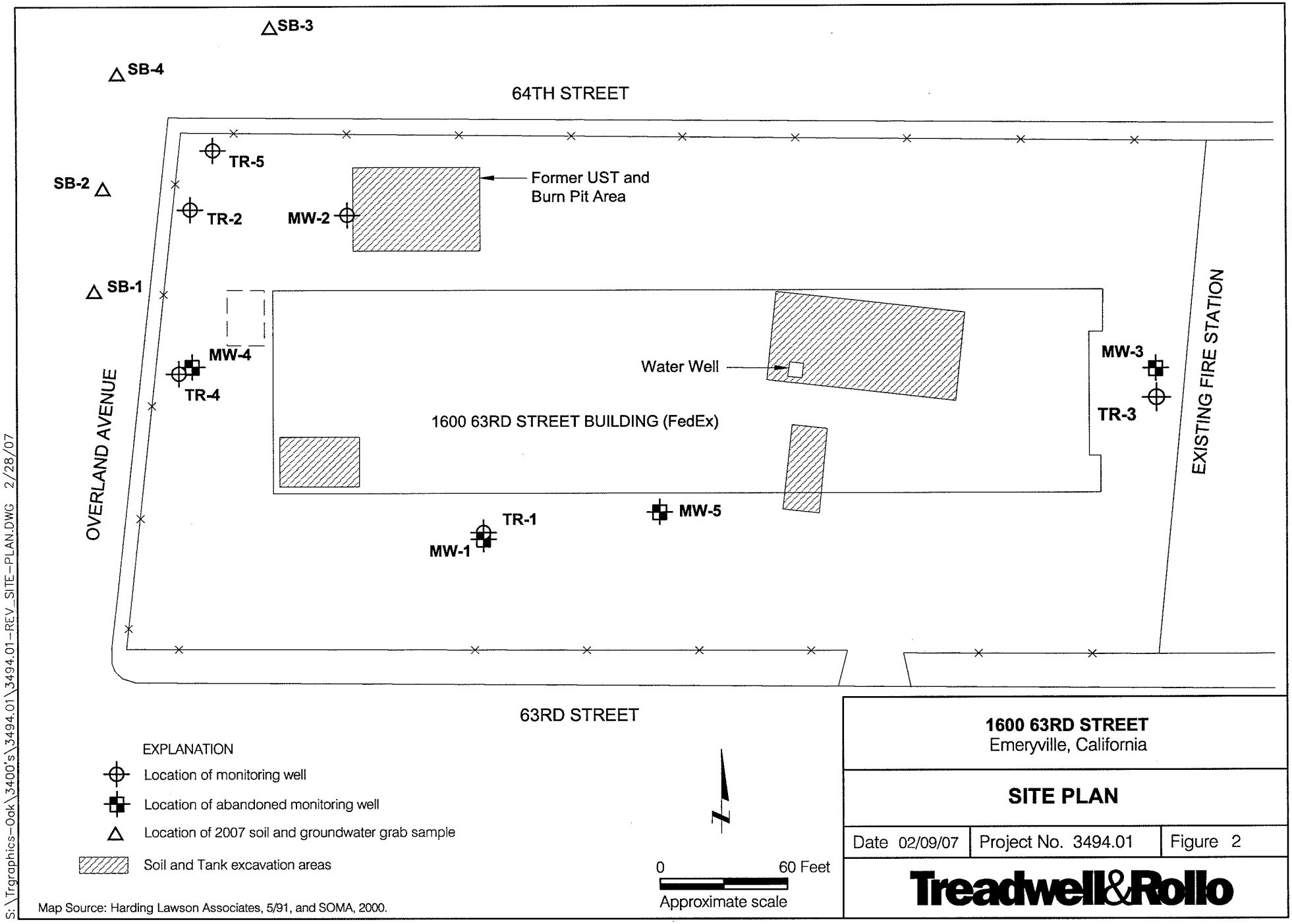
N

1600 63RD STREET
Emeryville, California

SITE LOCATION MAP

Treadwell&Rollo

Date 04/21/06	Project No. 3494.01	Figure 1



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

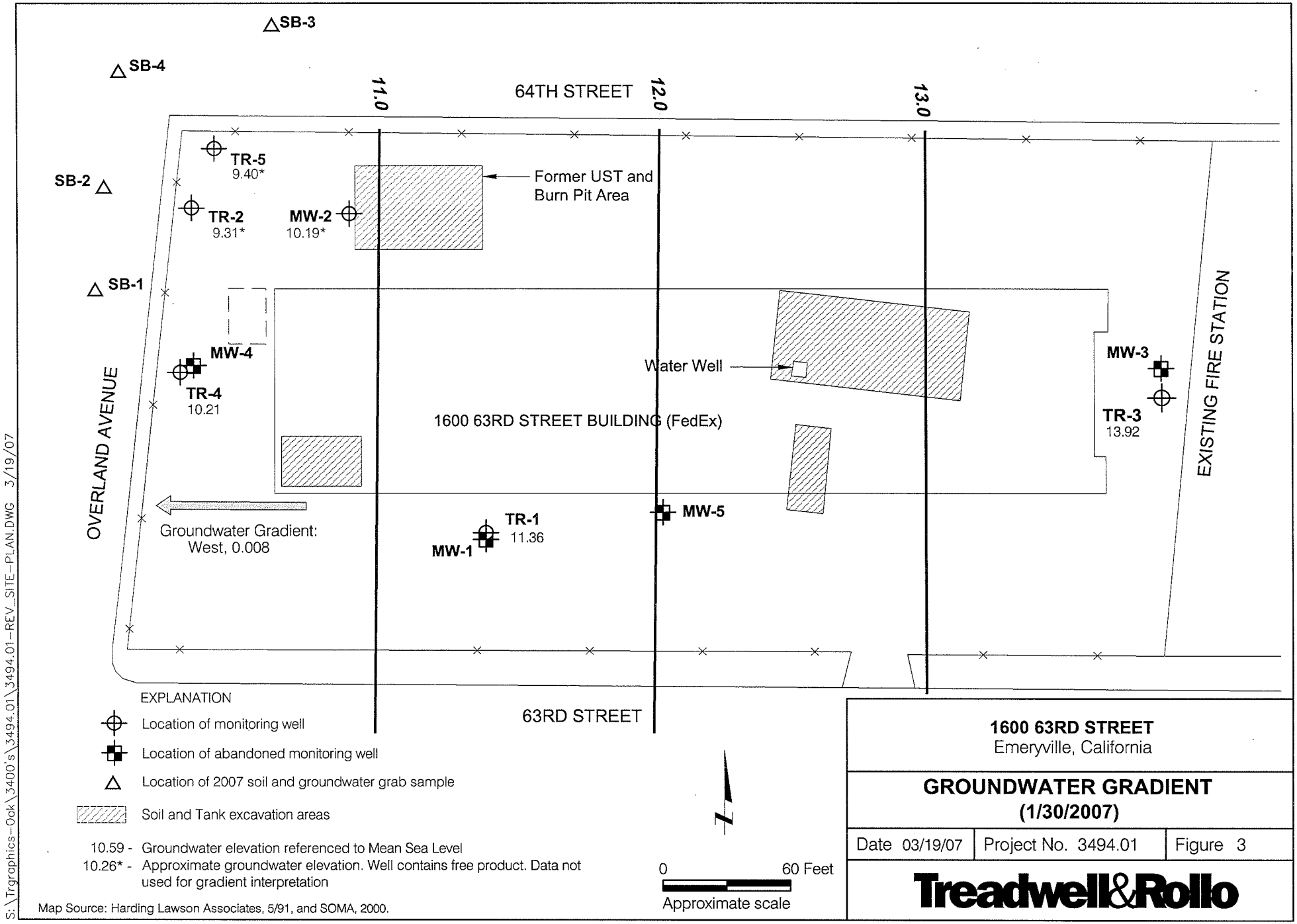
1600 63RD STREET
Emeryville, California

SITE PLAN

Date 02/09/07	Project No. 3494.01	Figure 2

Treadwell&Rollo

S:\Trgraphics-Oak\3400's\3494.01\3494.01-REV_SITE-PLAN.DWG 2/28/07



1600 63RD STREET
Emeryville, California

GROUNDWATER GRADIENT
(1/30/2007)

Date 03/19/07	Project No. 3494.01	Figure 3

Treadwell&Rollo

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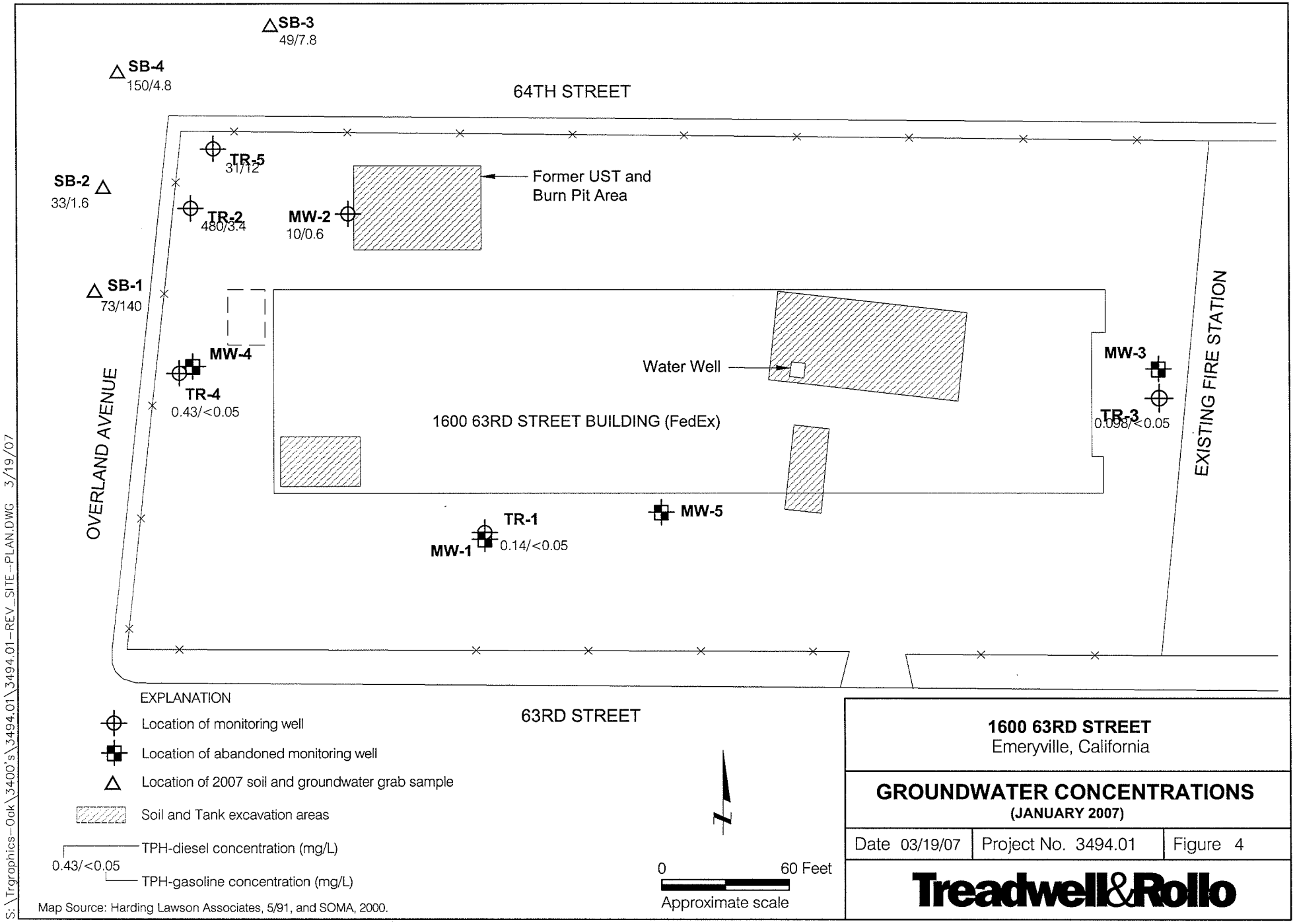

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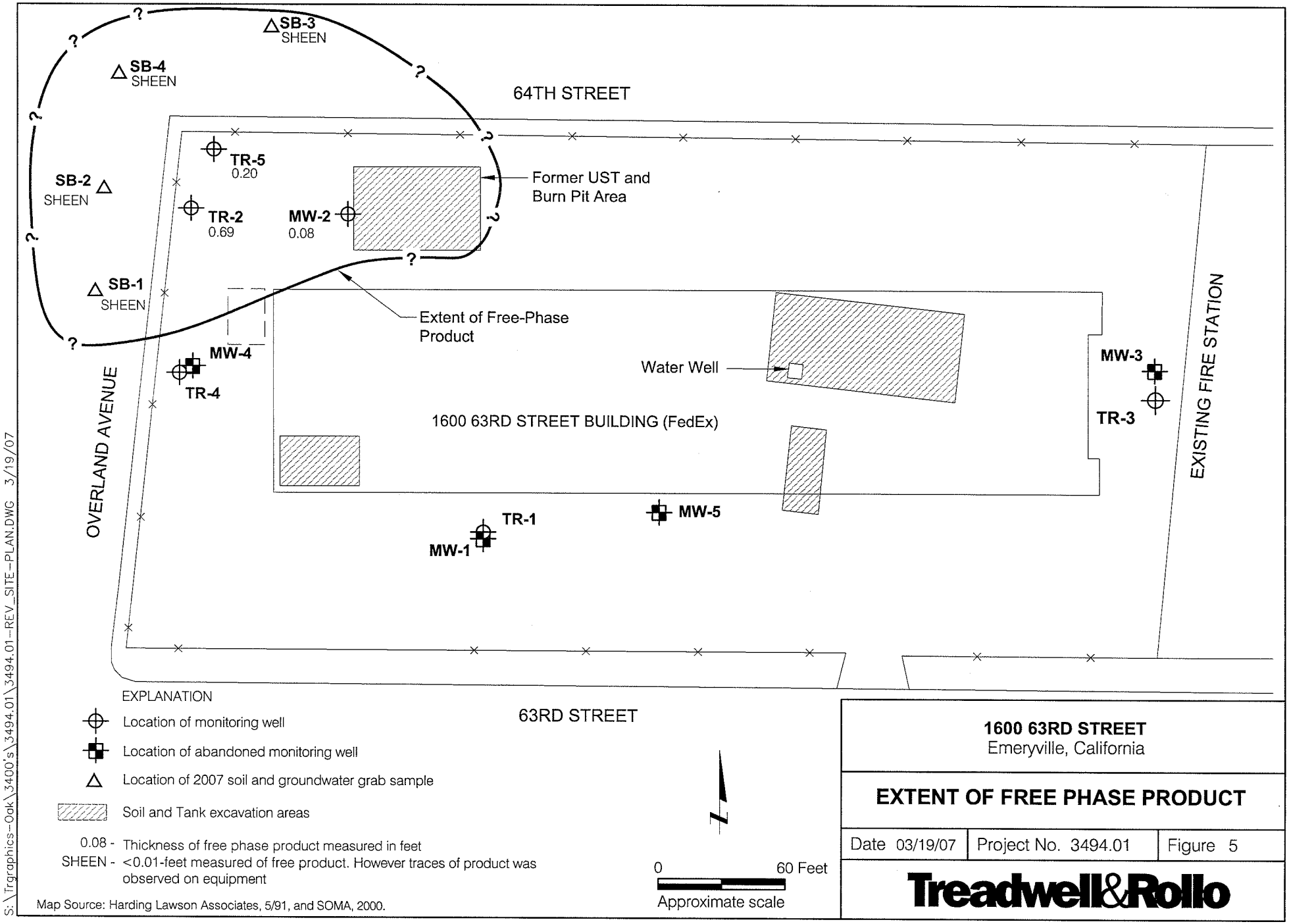
1600 63RD STREET
Emeryville, California

GROUNDWATER CONCENTRATIONS
(JANUARY 2007)

Date 03/19/07	Project No. 3494.01	Figure 4

Treadwell&Rollo



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1600 63RD STREET
Emeryville, California

EXTENT OF FREE PHASE PRODUCT

Date 03/19/07	Project No. 3494.01	Figure 5

Treadwell&Rollo

APPENDIX A

Permits

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 12/29/2006 By jamesy

Permit Numbers: W2006-1080 to W2006-1085
Permits Valid from 01/15/2007 to 01/19/2007

Application Id: 1165881813974
Site Location: 1600 63rd St, Emeryville, CA 94901
Project Start Date: 01/08/2007
Extension Start Date: 01/15/2007
Extension Count: 1

City of Project Site: Emeryville

Completion Date: 01/12/2007
Extension End Date: 01/19/2007
Extended By: jamesy

Applicant: Treadwell & Rollo Inc. - M Hall
501 14th St, 3rd flr., Oakland, CA 94612
Phone: 510-874-4500

Property Owner: Wareham Pacific Group
1120 Nye St. #400, San Rafael, CA 94901
Phone: 510-594-5640

Client: ** same as Property Owner **

Contact: Matt Hall
Phone: --
Cell: 510-289-9310

Total Due: $1700.00
Receipt Number: WR2006-0577 **Total Amount Paid:** $1700.00
Payer Name : Treadwell & Rollo Inc. Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 5 Wells
Driller: Precision Sampling - Lic #: 636387 - Method: DP

Work Total: $1500.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2006-1080	12/29/2006	04/08/2007	MW-1 (TR-1)	10.00 in.	2.00 in.	4.00 ft	20.00 ft
W2006-1081	12/29/2006	04/08/2007	MW-3 (TR-2)	10.00 in.	2.00 in.	4.00 ft	20.00 ft
W2006-1082	12/29/2006	04/08/2007	MW-4 (TR-3)	10.00 in.	2.00 in.	4.00 ft	20.00 ft
W2006-1083	12/29/2006	04/08/2007	TR-4	10.00 in.	2.00 in.	4.00 ft	20.00 ft
W2006-1084	12/29/2006	04/08/2007	TR-5	10.00 in.	2.00 in.	4.00 ft	20.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required

permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

7. Minimum surface seal thickness is two inches of cement grout placed by tremie

8. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

Borehole(s) for Investigation-Geotechnical Study/CPT's - 4 Boreholes
Driller: Precision Sampling - Lic #: 636387 - Method: DP **Work Total: $200.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2006-1085	12/29/2006	04/08/2007	4	2.00 in.	20.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters

generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 01/22/2007 By jamesy

Permit Numbers: W2007-0076
Permits Valid from 01/15/2007 to 01/19/2007

Application Id:	1168644721447	**City of Project Site:** Emeryville
Site Location:	1600 63rd St, Emeryville, CA 94901	
Project Start Date:	01/15/2007	**Completion Date:** 01/19/2007
Applicant:	Treadwell & Rollo Inc - Matt Hall 501 14th St, 3rd flr., Oakland, CA 94612	**Phone:** 510-289-9310
Property Owner:	Wareham Pacific Group 1120 Nye St. #400, San Rafael, CA 94901	**Phone:** 510-594-5640
Client:	** same as Property Owner **	
Contact:	Matt Hall	**Phone:** -- **Cell:** 510-289-9310

	Total Due:	$300.00
Receipt Number: WR2007-0032	**Total Amount Paid:**	$300.00
Payer Name : Treadwell & Rollo, Inc	Paid By: CHECK	**PAID IN FULL**

Works Requesting Permits:

Well Destruction-Monitoring - 1 Wells
Driller: Precision Sampling - Lic #: 636387 - Method: press

Work Total: $300.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2007-0076	01/22/2007	04/15/2007	MW-5	10.00 in.	4.00 in.	5.00 ft	20.00 ft			

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Sound the well to measure depth and to ensure no obstructions exist.

Excavate and remove existing casing 3 to 5 foot below ground surface (bgs), including vent cap and well or vault cover.

Grout neat cement with a tremie to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

8. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

City of Emeryville • Department of Public Works
Encroachment Permit

Permit No._____	Date_____
Permit Admin. Fee_____	
Permit Inspection Deposit (2 hr. min.)_____	
Cost Recovery Estimate_____	
Required Security Deposit:	
☐ $1,000 cash	
☐ $10,000 Bond, Bond #_____	
☐ 100% Perf. Bond,	
Bond Value_____	Bond #_____
Total Payment Required_____	
Received:_____	Date_____
Receipt #_____	

Failure to obtain approval of a Final Inspection of the work covered by this Encroachment Permit within one (1) year of the estimated completion date shall result in the loss of the security deposit which shall be retained by the City of Emeryville.

APPLICANT TREADWELL & ROLLO, INC.
CONTACT PERSON MATTHEW HALL
ADDRESS 501 14TH STREET, 3RD FL. OAKLAND CA 94612
PHONE 510/874-4500 X 556
FAX 510/874-4507

OWNER/DEVELOPER OF FACILITIES
Wareham Property Group
ADDRESS 1120 Nye Street, Suite 400 San Rafael CA 94901
PHONE ~~415~~ 510/594-5640
FAX

CONTRACTOR DOING WORK
PRECISION SAMPLING, INC
CONTACT PERSON Mike Cramer
ADDRESS 1081 Essex Avenue, Richmond, CA 94801 PHONE 510/237-4575 FAX 510/237-4574
LICENSE NO. 636387 CLASS C-57
☐Yes ☐No CURRENT CITY BUSINESS LICENSE ON FILE
☐Yes ☐No PROVIDE PROOF OF INSURANCE
EST. START DATE_____ EST. COMPLETION DATE_____ EST. COST IN CITY R/W_____

LOCATION OF WORK INTERSECTION OF 64TH STREET AND OVERLAND AVENUE.
CHECK ALL THAT APPLY
☒ **Traffic Control** ☐ **Survey** ☐ **Sidewalk Detour** ☐ **Dumpster** ☒ **Temporary No Parking**
☐ **Private Facilities on Public Right of Way** ☐ **Construction** ☐ **Sidewalk** ☐ **Driveway Approach** ☐ **Curb & Gutter** ☐ **Pedestrian Ramp** ☐ **Water Service** ☐ **Gas Service** ☐ **Electric Service** ☐ **Roof Drain** ☐ **Utility Maintenance** ☐ **Fence** ☐ **Excavation** ☐ **Obstruction** ☐ **Access Road** ☐ **Monitoring Well** ☐ **Sewer Lateral** ☐ **Storm Drain** ☐ **Crane** ☐ **Block Party**

FULLY DESCRIBE PROPOSED WORK WITHIN CITY RIGHT-OF-WAY (additional space on reverse if needed): Attach 3 complete sets of plans 8 ½ X 11, if applicable.

I hereby agree to protect and indemnify the City of Emeryville and hold it harmless in every way from all claim or suits for injury or damage to persons or property as set forth in the Standard Provisions. I agree not to begin construction until all materials to be used are on hand; to perform all work in accordance with the plans submitted (if any), the Standard Provisions to Encroachment Permit, and all applicable Special Conditions of Approval, and to pay all inspection and engineering costs in addition to those paid at the time of issuance of this permit. I further agree to complete the work to the satisfaction of the City Engineer and if for any reason the City of Emeryville is required to complete this work, I will pay all costs for such work.

Applicant Signature_____ Date 30 NOVEMBER 2006

After final inspection is approved, please contact the Public Works Department at 510-596-4330 to determine final cost, and for final payment or reimbursement of deposit.

FOR CITY USE ONLY ○*Temporary Permit* #_____*days* ○*Long Term Permit*

The following documents are attached and incorporated into this permit and have been given to the applicant:
□ Standard Provisions to Encroachment Permit □ Special Conditions of Approval
□ City Standard Details (List Details) □ Handout, Urban Runoff BMP's

_____

□Other_____
Remarks_____

□ 48 HOUR NOTICE PRIOR TO START OF WORK,
□ PROVIDE CONSTRUCTION SCHEDULE 5 DAYS PRIOR TO START OF WORK
□ AS-BUILT PLANS REQUIRED
□ PLEASE CALL FOR INSPECTION AT 510-596-4333
□ PLEASE NOTIFY POLICE (510-596-3700) AND FIRE (510-596-3750) 24 HOURS IN ADVANCE.
This permit is void unless the work is completed before_____, 20____
This permit is to be strictly construed and no other work than is specifically mentioned is hereby authorized.
APPROVED_____TITLE_____ DATE_____
FINAL INSPECTION APPROVED_____TITLE_____DATE_____

62702

TREADWELL & ROLLO, INC.
ENVIRONMENTAL AND GEOTECHNICAL CONSULTANTS
555 MONTGOMERY ST., SUITE 1300 PH. 415-955-9040
SAN FRANCISCO, CA 94111

GOLDEN GATE BANK
SAN FRANCISCO, CA 94104
11-3615-1210

December 4, 2006

PAY One Thousand One Hundred Fifty and 00/100 Dollars

AMOUNT $1,150.00

TO City of Emeryville
Department of Public Works
1333 Park Avenue
Emeryville CA 94608

MP

AUTHORIZED SIGNATURE

⑈062702⑈ ⑆121141534⑆ 130111150 3⑈

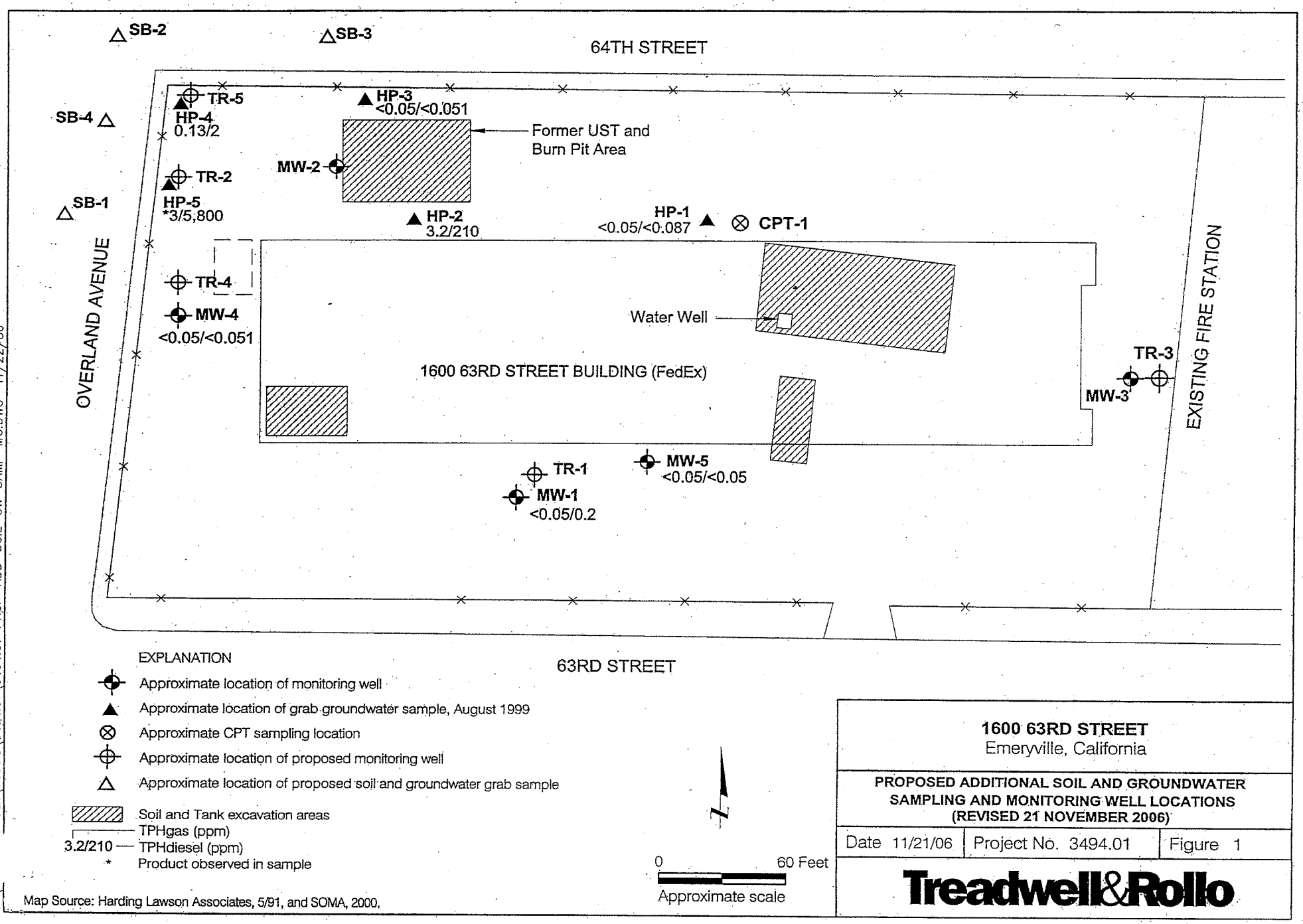
TREADWELL & ROLLO, INC.
ENVIRONMENTAL AND GEOTECHNICAL CONSULTANTS

62702

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
3494.01-62702	11/30/06	0104231	1,150.00			1,150.00
City of Emeryville 7 1		Totals	1,150.00			1,150.00

62702

48948V



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

1600 63RD STREET
Emeryville, California

PROPOSED ADDITIONAL SOIL AND GROUNDWATER SAMPLING AND MONITORING WELL LOCATIONS (REVISED 21 NOVEMBER 2006)

Date 11/21/06	Project No. 3494.01	Figure 1

Treadwell&Rollo

S:\Projects-Oak\3400's\3494.01\3494.01-PROP-ADD-SOIL-GW-SAMP-MG.DWG 11/22/06

APPENDIX B
Soil Boring Logs and Well Construction Diagrams

PROJECT:	**1600 63RD STREET** Emeryville, California	**Log of Boring SB-1**	PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: M. Hall Drilled By: Precision Drilling Co.
Date started: 1/10/07	Date finished: 1/10/07	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: 5' Acetate Liner		

DEPTH (feet)	Sample Number	Sample	Blow Count	Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							Surface Conditions:
1–3							FILL
4–5						CL	CLAY (CL) black, medium stiff, moist, very plastic, 10 percent fine-grained sand, no odor
6–7	SB-1-6.0-6.5					CL	▽ CLAY (CL) gray, medium stiff, moist, plastic, 10 percent fine-grained sand, no odor
8–9				48/48			
10–11	SB-1-9.5-10.0					CL	SANDY CLAY (CL) gray, medium stiff, moist, semi-plastic, 30 percent fine-grained sand, 10 percent gravel up to 1/8-inch, weak odor
12–13				60/60	10		
14–15	SB-1-14.5-15.0				36	SM	SILTY SAND with GRAVEL (SM) gray, wet, moderately graded 30 percent sub-angular gravel up to 1/4-inch, 20 percent fines, non-plastic, strong odor
16–18				60/60	8	SP-SM	SAND with SILT (SP-SM) gray, saturated, non-plastic, moderately graded sand, 10 percent fines, weak odor
19–20	SB-1-19.5-20.0						
21–30							

FILL

Boring terminated at a depth of 20 feet.
Boring backfilled with cement grout.
Groundwater encoutered at 6.45 feet.

Treadwell&Rollo

Project No.:	Figure:
3494.01	A-1

TEST ENVIRONMENTAL 349401.GPJ TR.GDT 3/6/07

PROJECT:	**1600 63RD STREET** Emeryville, California	**Log of Boring SB-2**	PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: M. Hall Drilled By: Precision Drilling Co.
Date started: 1/10/07	Date finished: 1/10/07	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: 5' Acetate Liner		

DEPTH (feet)	SAMPLES: Sample Number	Sample	Blow Count	Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							Surface Conditions:
1–3							FILL
4–5						CL	CLAY (CL) gray, medium stiff, moist, very plastic, 10 percent fine-grained sand no odor
6–7	SB-2-6.0-6.5			48/48	<5	SC	CLAYEY SAND (SC) gray, medium stiff, moist, semi-plastic, 20 percent fines no odor
8–9							
10	SB-2-10.0-10.5						
11–12				60/60			
13					7		
14–15	SB-2-14.5-15.0					SP-SM	SAND with SILT and GRAVEL (SP-SM) gray, wet, fine to coarse sand, weak odor, 30 percent sub-angular gravel up to 1/2-inch
16						CL	SANDY CLAY (CL) gray, stiff, wet, plastic, 30 percent fine-grained sand, moderate odor
17–18	SB-2-17.0-17.5			60/60	25 20	SP	SAND with GRAVEL (SP) gray, dense, wet, 20 percent sub-angular gravel up to 1/2-inch, weak odor
19–20	SB-2-19.5-20.0				7		
21–30							

FILL

Boring terminated at a depth of 20 feet.
Boring backfilled with cement grout.
Groundwater not encoutered at time of drilling.

Treadwell&Rollo

Project No.:	Figure:
3494.01	A-2

TEST ENVIRONMENTAL 349401.GPJ TR.GDT 3/6/07

PROJECT:	1600 63RD STREET Emeryville, California	**Log of Boring SB-3**
		PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: M. Hall Drilled By: Precision Drilling Co.
Date started: 1/10/07	Date finished: 1/10/07	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: 5' Acetate Liner		

DEPTH (feet)	SAMPLES: Sample Number	Sample	Blow Count	Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							Surface Conditions:
1–3							FILL
4–5						CL	CLAY (CL) black, stiff, moist, plastic, 10 percent fine-grained sand, no odor
6	SB-3-6.0-6.5						
7–9				48/48	<5	CL	SANDY CLAY (CL) gray, medium stiff, dry to moist, semi-plastic, 30 percent fine-grained sand, no odor
10	SB-3-9.5-10.0						
11–12				60/60			
13					10	SP-SM	SAND with SILT and GRAVEL (SP-SM) gray, medium dense, wet, 30 percent sub-angular gravel up to 1/8-inch, non-plastic, moderately graded, 10 percent fines, weak odor
14–15	SB-3-14.5-15.0				15		
16–17				60/60	10	SP	SAND with GRAVEL (SP) gray, dense, wet, 15 percent sub-angular gravel, non-plastic, 5 percent fines, weak odor
18	SB-3-17.0-17.5						
19–20	SB-3-19.5-20.0				<5		
21–30							

Boring terminated at a depth of 20 feet.
Boring backfilled with cement grout.
Groundwater not encoutered at time of drilling.

Treadwell&Rollo

Project No.:	Figure:
3494.01	A-3

TEST ENVIRONMENTAL 349401.GPJ TR.GDT 3/6/07

PROJECT:	1600 63RD STREET Emeryville, California	**Log of Boring SB-4**	PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: M. Hall Drilled By: Precision Drilling Co.
Date started: 1/10/07	Date finished: 1/10/07	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: 5' Acetylene		

DEPTH (feet)	SAMPLES: Sample Number	SAMPLES: Sample	SAMPLES: Blow Count	SAMPLES: Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							Surface Conditions:
1–3							FILL
4–8	SB-4-6.0-6.5			48/48	<5	CL	CLAY (CL) gray, soft, moist, plastic, poorly graded, <5 percent fine-grained sand, no odor
9–10	SB-4-9.5-10.0				10	CL	SANDY CLAY (CL) medium stiff, moist, slightly plastic, 40 percent fine-grained sand, poorly graded, weak odor
11–15	SB-4-14.5-15.0			60/60	56	SP-SM	SAND with SILT and GRAVEL (SP-SM) gray, medium dense, wet, 30 percent subangular gravel up to 1/2-inch, non plastic, moderately graded, 10 percent fines, moderate odor
16–18	SB-4-17.5-18.0			60/60		CL	SANDY CLAY (CL) medium stiff, wet, slightly plastic, poorly graded, 40 percent fine-grained sand, moderate odor
19–20	SB-4-19.5-20.0				25 9.1	SP-SM	SAND with SILT and GRAVEL (SP-SM) gray, medium dense, wet, 30 percent subangular gravel, non plastic, moderately graded, 10 percent fines, moderate odor
21–30							

FILL

Boring terminated at a depth of 20 feet.
Boring backfilled with cement grout.
Groundwater not encoutered at time of drilling.

Treadwell&Rollo

Project No.:	Figure:
3494.01	A-4

TEST ENVIRONMENTAL 349401.GPJ TR.GDT 3/2/07

PROJECT:	**1600 63RD STREET** Emeryville, California	**Log of Boring TR-1**	PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: M. Hall Drilled By: Precision Drilling Co.
Date started: 1/9/07	Date finished: 1/9/07	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: 5' Acetate Liner		

DEPTH (feet)	Sample Number	Sample	Blow Count	Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							Surface Conditions:
1							FILL
2				55/60	<5	CL	GRAVELLY CLAY (CL) brown, stiff, moist, 30 percent sub-angular gravel up to 1-inch, slightly plastic, 10 percent medium to coarse graded sand, no odor
3							
4						CL	CLAY (CL) brown, soft, moist, non-plastic, 10 percent fine-grained sand, no odor
5	TR-1-4.5-5.0						
6							
7				55/60	<5	SC	CLAYEY SAND (SC) gray, loose, wet, 10 percent sub-angular gravel up to 1/8-inch, slightly plastic, poorly graded, 30 percent fines, no odor
8	TR-1-8.0-8.5						discoloration
9							
10	TR-1-9.5-10.0					CL	SANDY CLAY (CL) gray, medium stiff, wet, slightly plastic, 35 percent fine-grained sand, poorly graded, no odor
11							
12				60/60	<5		
13							CLAY (CH) light brown, soft, wet, very plastic, <5 percent fine-grained sand, poorly graded, no odor
14							
15	TR-1-14.5-15.0					CH	
16							
17				60/60	<5		
18						SC	CLAYEY SAND (SC) light brown, dense, wet, non-plastic, moderately graded, 20 percent fines, no odor
19							
20	TR-1-19.5-20.0						CLAY brown, medium stiff, wet, slightly plastic, 15 percent fine-grained sand, poorly graded, no odor
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Boring terminated at a depth of 20 feet.
Boring backfilled with cement grout.
Groundwater encoutered at 7.3 feet.

Treadwell&Rollo

Project No.:	Figure:
3494.01	A-5

TEST ENVIRONMENTAL 349401.GPJ TR.GDT 3/6/07

PROJECT:	**1600 63RD STREET** Emeryville, California	**Log of Boring TR-2**	PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: M. Hall Drilled By: Precision Drilling Co.
Date started: 1/9/07	Date finished: 1/9/07	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: 5' Acetate Liner		

DEPTH (feet)	SAMPLES: Sample Number	SAMPLES: Sample	SAMPLES: Blow Count	SAMPLES: Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							Surface Conditions:
1–2				60/60	<5		FILL
3–7						CL	SANDY CLAY (CL) dark brown, soft, moist, plastic, 35 percent fine-grained sand, poorly graded, no odor
4–5	TR-2-4.5-5.0						
7				60/60	<5		▽
8–12						CL	CLAY with SAND (CL) gray, medium stiff, moist, slightly plastic, 20 percent fine-grained sand, poorly graded, no odor, slight petroleum
9–10	TR-2-9.5-10.0						
12–15				55/60	10	CL	SANDY CLAY (CL) gray, very plastic, 40 percent fine-grained sand, poorly graded, moderate odor
14–15	TR-2-14.5-15.0						
17				60/60	10		
18–20						SP-SM	SAND with SILT and GRAVEL (SP-SM) gray, moderately dense, wet, 30 percent sub-angular gravel, 10 percent fines, moderate odor
19–20	TR-2-19.5-20.0						
21–30							

FILL

Boring terminated at a depth of 20 feet.
Boring backfilled with cement grout.
Groundwater encoutered at 7.8 feet.

Treadwell&Rollo

Project No.:	Figure:
3494.01	A-6

TEST ENVIRONMENTAL 349401.GPJ TR.GDT 3/6/07

PROJECT:	1600 63RD STREET Emeryville, California	**Log of Boring TR-3**	PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: M. Hall Drilled By: Precision Drilling Co.
Date started: 1/9/07	Date finished: 1/9/07	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: 5' Acetate Liner		

DEPTH (feet)	SAMPLES: Sample Number	SAMPLES: Sample	SAMPLES: Blow Count	SAMPLES: Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							Surface Conditions:
1							FILL
2				60/60	<5		
3						CL	CLAY (CL) black, soft, moist, plastic, 10 percent fine sand poorly graded, weak odor
4							
5	TR-3-4.5-5.0						
6							
7				60/60	<5	SP ▽	SAND with GRAVEL (SP) brown, moderately dense, 35 percent angular to sub-angular, non-plastic, <5 percent fines, moderately graded, no odor
8							
9							CLAY with GRAVEL (CL) brown, medium stiff, moist, 10 percent sub-angular gravels less than 1/8-inch, plastic, 5 percent fine-grained sand, poorly graded, no odor
10	TR-3-9.5-10.0						
11						CL	
12				42/60	<5		
13							
14							
15	TR-3-14.5-15.0						
16						SC	CLAYEY SAND (SC) brown, moderately dense, moist, 5 percent sub-angular gravel, slightly plastic, moderately graded, 35 percent fines, no odor
17				60/60	<5		
18						CL	CLAY (CL) brown, medium stiff, moist, plastic, 10 percent fine-grained sand, poorly graded, no odor
19							
20	TR-3-19.5-20.0						
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Boring terminated at a depth of 20 feet.
Boring backfilled with cement grout.
Groundwater encoutered at 7.6 feet.

Treadwell&Rollo

Project No.:	Figure:
3494.01	A-7

TEST ENVIRONMENTAL 349401.GPJ TR.GDT 3/6/07

PROJECT:	**1600 63RD STREET** Emeryville, California	**Log of Boring TR-4**	PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: M. Hall Drilled By: Precision Drilling Co.
Date started: 1/9/07	Date finished: 1/9/07	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: 5' Acetate Liner		

DEPTH (feet)	Sample Number	Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
					Surface Conditions:
1–2		50/60	<5		FILL
3–4				SP-SC	SAND with CLAY (SP-SC) brown, moderately dense, moist, non-plastic, moderately graded, 10 percent fines, no odor
5	TR-4-4.5-5.0				
6–7		55/60	<5	CL	SANDY CLAY (CL) dark brown, soft, wet, slightly plastic, 20 percent fine to medium-grained sand, moderately graded, no odor
8					some staining
9	TR-4-8.5-9.0				
10	TR-4-9.5-10.0			CL	CLAY with SAND (CL) brown, soft, moist, plastic, 10 percent fine-grained sand, poorly graded, no odor
11–12		60/60	<5		
13				SP-SC	SAND with CLAY (SP-SC) brown, moderately dense, moist, 10 percent sub-angular gravel, non-plastic, moderately graded, 10 percent fines, no odor
14–15	TR-4-14.5-15.0			CL	CLAY (CL) brown, medium stiff, moist, plastic, 10 percent fine-grained sand, poorly graded, no odor
16				SP	SAND with GRAVEL (SP) brown, loose, moist, 40 percent sub-angular gravel up to 0.5-inch, non-plastic, moderately graded, no odor
17–18		60/60	<5	CL	CLAY (CL) brown, medium stiff, moist, plastic, 10 percent fine-grained sand, poorly graded, no odor
19–20	TR-4-19.5-20.0				
21–30					

Boring terminated at a depth of 20 feet.
Boring backfilled with cement grout.
Groundwater encoutered at 9.4 feet.

Treadwell&Rollo

Project No.:	Figure:
3494.01	A-8

TEST ENVIRONMENTAL 349401.GPJ TR.GDT 3/2/07

PROJECT:	**1600 63RD STREET** Emeryville, California	**Log of Boring TR-5**	PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: M. Hall Drilled By: Precision Drilling Co.
Date started: 1/9/07	Date finished: 1/9/07	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: 5' Acetate Liner		

DEPTH (feet)	SAMPLES: Sample Number	SAMPLES: Sample	SAMPLES: Blow Count	SAMPLES: Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							Surface Conditions:
1–2				60/60	<5		FILL
3–5	TR-5-4.5-5.0					CL	CLAY with SAND (CL) dark brown, soft, moist, plastic, 20 percent fine-grained sand, poorly graded, no odor
6–8				50/60	<5	CL	CLAY (CL) brown, stiff, moist, plastic, 10 percent fine-grained sand, no odor
9–10	TR-5-9.5-10.0						
11–12				50/60	15	CL	SANDY CLAY (CL) brown, soft, wet, 10 percent sub-angular gravel up to 0.25-inch, plastic, 30 percent fine-grained sand, weak odor
13						CL	CLAY (CL) brown, stiff, moist, plastic,10 percent fine-grained sand, poorly graded, no odor
14–15	TR-5-14.5-15.0					SC	CLAYEY SAND with GRAVEL (SC) gray, dense, moist, 30 percent sub-angular gravel up to 0.25-inch, non-plastic, moderately graded, 20 percent fines, weak odor
16–17				60/60	<5	CL	CLAY (CL) gray, stiff, wet, plastic, 10 percent fine-grained sand, poorly graded, no odor
18–20	TR-5-19.5-20.0					SP	SAND with GRAVEL (SP) gray, dense, wet, 40 percent sub-angular gravel up to 0.5-inch, non-plastic, moderately graded, slight odor
21–30							

Boring terminated at a depth of 20 feet.
Boring backfilled with cement grout.
Groundwater encoutered at 8.2 feet.

Treadwell&Rollo

Project No.:	Figure:
3494.01	A-9

TEST ENVIRONMENTAL 349401.GPJ TR.GDT 3/6/07

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size	Gravels (More than half of coarse fraction > no. 4 sieve size)	GW	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	SW	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	MH	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		PT	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel	3" to No. 4	76.2 to 4.76
coarse	3" to 3/4"	76.2 to 19.1
fine	3/4" to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.074
coarse	No. 4 to No. 10	4.76 to 2.00
medium	No. 10 to No. 40	2.00 to 0.420
fine	No. 40 to No. 200	0.420 to 0.074
Silt and Clay	Below No. 200	Below 0.074

Unstabilized groundwater level

Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with split-barrel sampler other than Standard Penetration Test sampler. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test sampler

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample

Analytical laboratory sample

Sample taken with Direct Push sampler

SAMPLER TYPE

C Core barrel

CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter

D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube

O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter

SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter

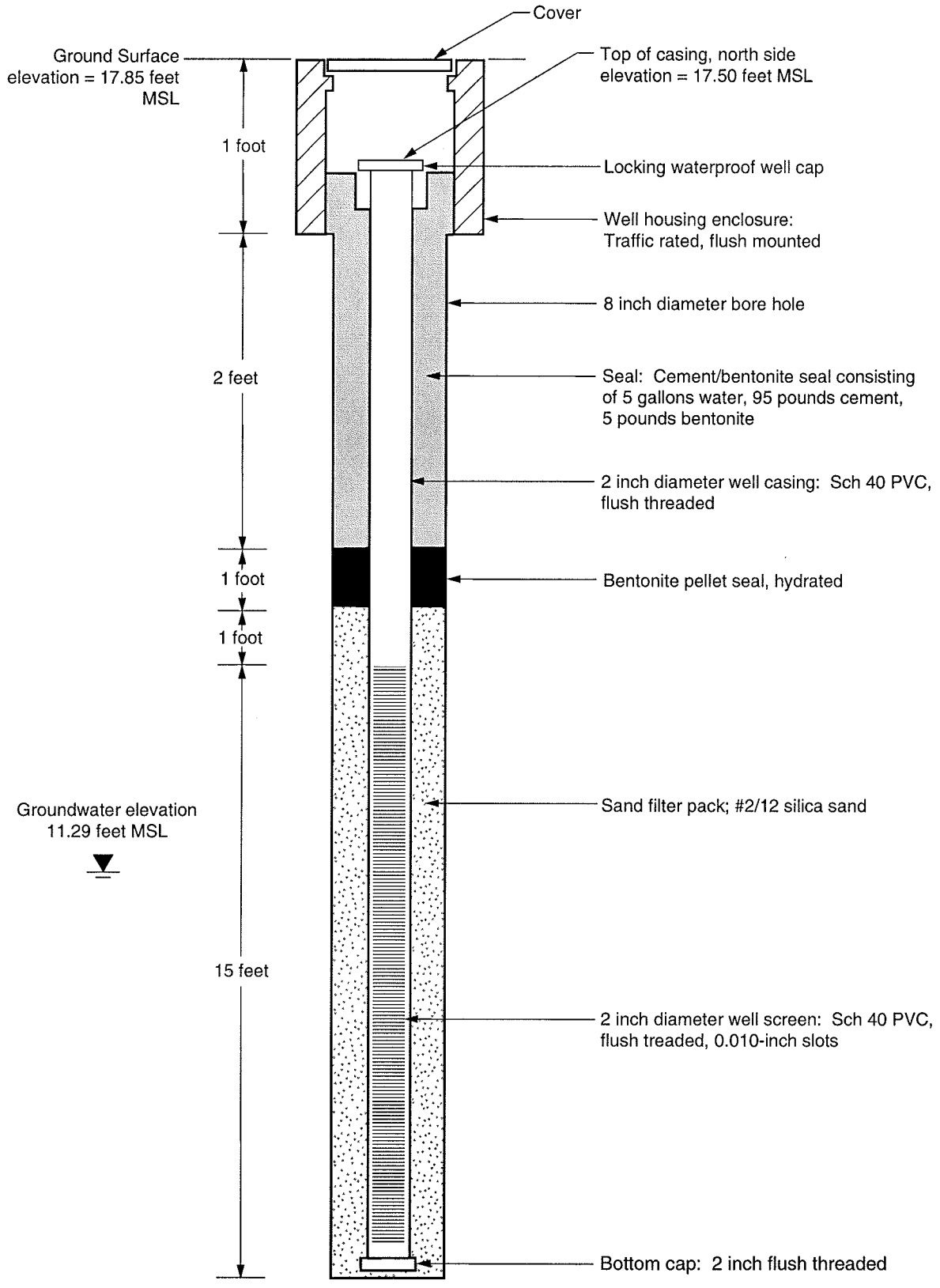
ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

1600 63 STREET
Emeryville, California

CLASSIFICATION CHART

Treadwell&Rollo

Date 03/02/07 | Project No. 3494.01 | Figure A-10



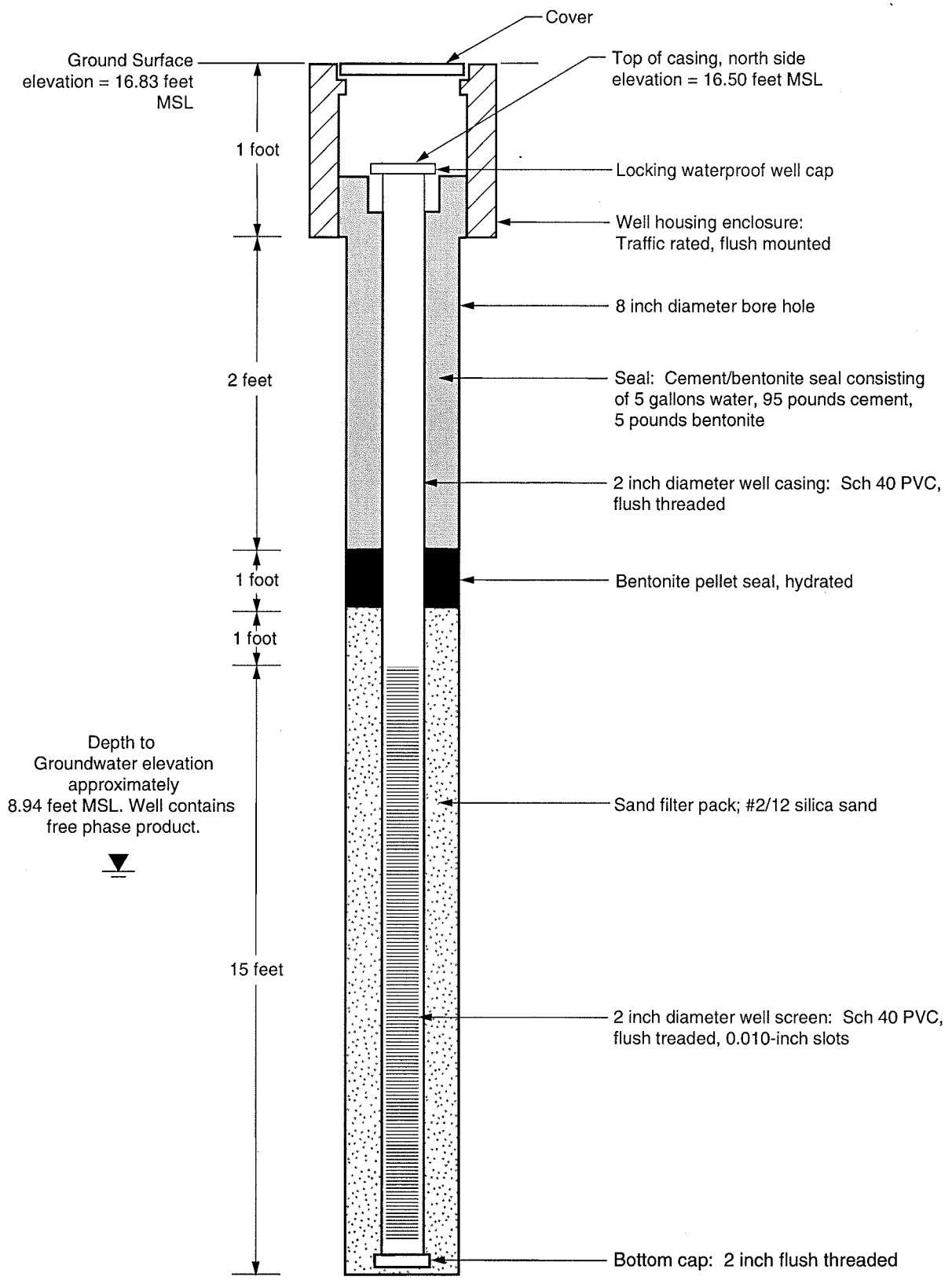
Not to scale

1600 63RD STREET
Emeryville, California

TR-1 WELL CONSTRUCTION DIAGRAM

Treadwell&Rollo

Date 03/06/07	Project No. 3494.01	Figure A-11



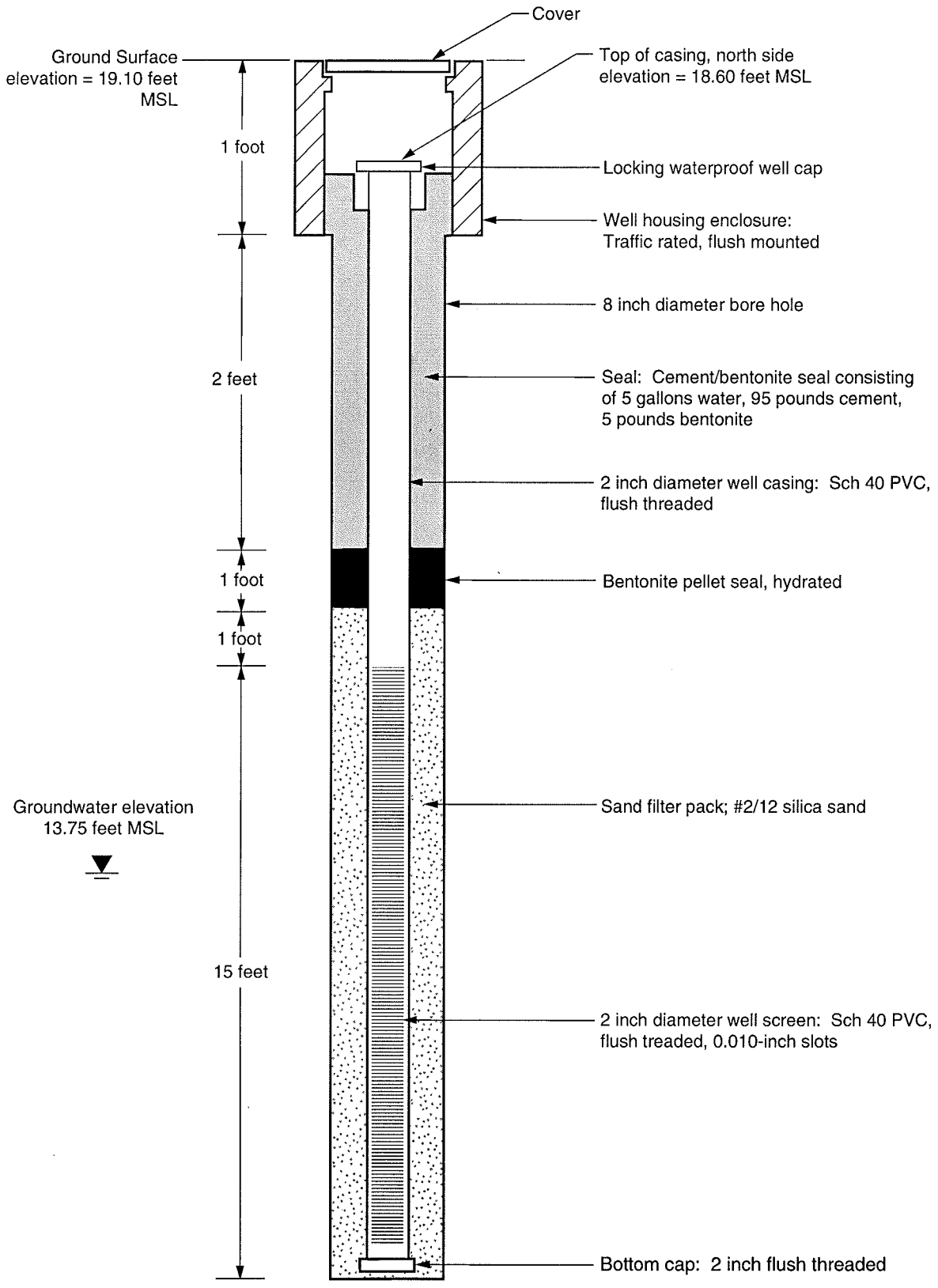
Not to scale

1600 63RD STREET
Emeryville, California

TR-2 WELL
CONSTRUCTION DIAGRAM

Treadwell&Rollo

Date 03/06/07	Project No. 3494.01	Figure A-12



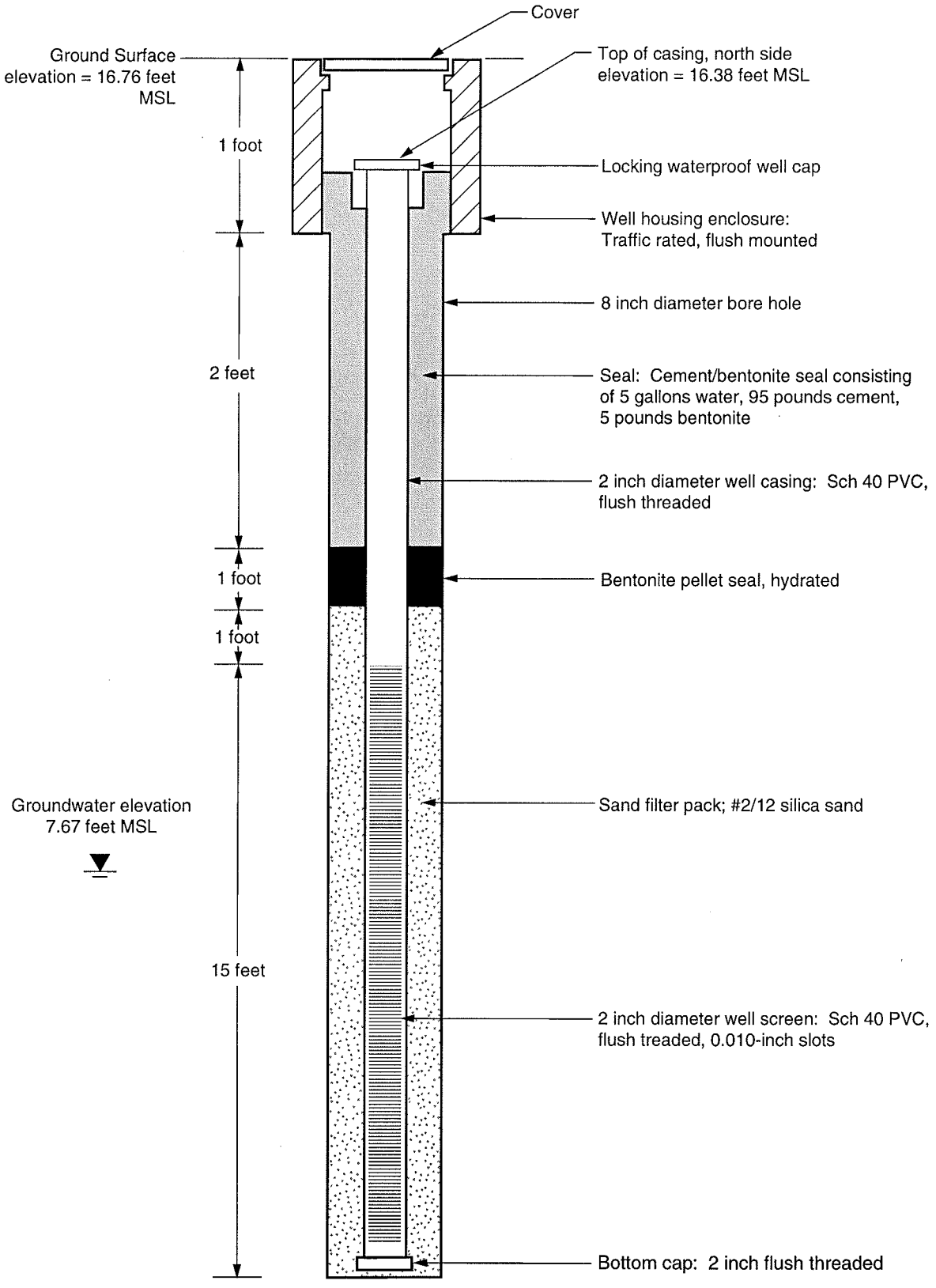
Not to scale

1600 63RD STREET
Emeryville, California

TR-3 WELL CONSTRUCTION DIAGRAM

Treadwell&Rollo

Date 03/06/07	Project No. 3494.01	Figure A-13



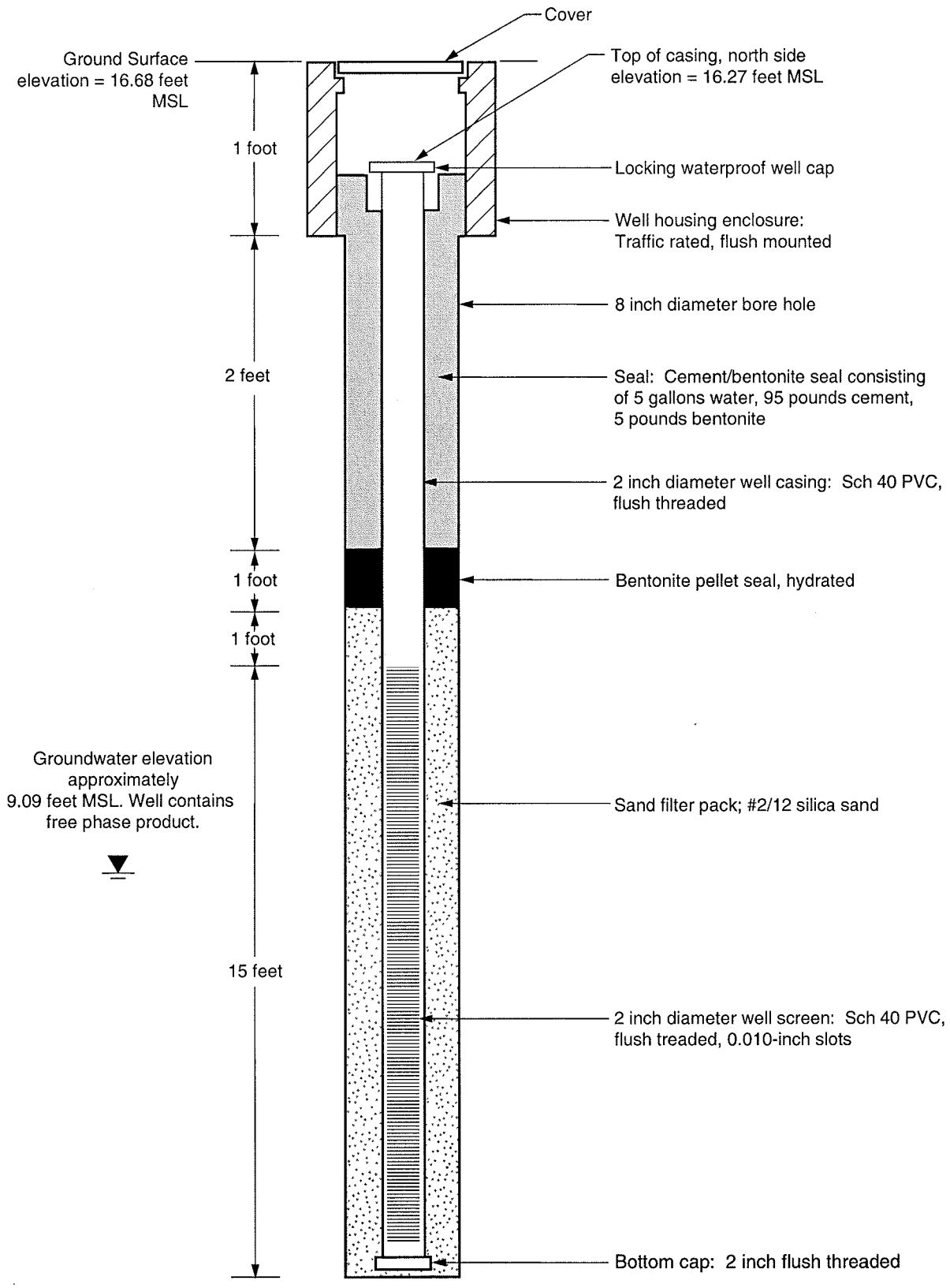
Not to scale

1600 63RD STREET
Emeryville, California

TR-4 WELL CONSTRUCTION DIAGRAM

Treadwell&Rollo

Date 03/06/07	Project No. 3494.01	Figure A-14



Not to scale

1600 63RD STREET
Emeryville, California

TR-5 WELL
CONSTRUCTION DIAGRAM

Treadwell&Rollo

Date 03/06/07	Project No. 3494.01	Figure A-15

APPENDIX C
Surveyor's Report

CSS ENVIRONMENTAL SERVICES, INC.
Managing Cost, Scope and Schedule
100 Galli Drive, Suite 1
Novato, CA 94949
Telephone: (415) 883-6203
Facsimile: (415) 883-6204

Site Positions

CSS PROJECT 6446 - TREADWELL AND ROLLO
1600 63RD Street, Emeryville

Horizontal Coordinate System:	North American 1983-CONUS **Survey Date:** 01/15/07
Height System:	North American Vertical Datum 1988-Ortho. Ht. (GEOID03)
Project file:	6446 TandR Emeryville.spr
Desired Horizontal Accuracy:	0.100Ft + 1ppm
Desired Vertical Accuracy:	0.100Ft + 2ppm
Confidence Level:	95% Err.
Linear Units of Measure:	Int. Feet

	Site ID	Site Descriptor		Position	95% Error	Fix Status	Position Status
1	TR-3	NR WELL LOC	Lat.	37° 50′ 38.78025″ N	0.077		Adjusted
			Lon.	122° 17′ 29.29047″ W	0.079		
		N RIM WELL LOCATION	Elv.	19.10			
		N TOC	Elv.	18.60			
2	TR-2	NR WELL LOC	Lat.	37° 50′ 38.26542″ N	0.077		Adjusted
			Lon.	122° 17′ 35.14562″ W	0.079		
		N RIM WELL LOCATION	Elv.	16.83			
		N TOC	Elv.	16.50			
3	MW-2	THIS IS TBM-B ON NR	Lat.	37° 50′ 38.53312″ N	0.076		Adjusted
			Lon.	122° 17′ 34.43125″ W	0.079		
		N RIM WELL LOCATION	Elv.	17.16			
		N TOC	Elv.	16.53			
4	3814	MONUMENT AA3814	Lat.	37° 44′ 59.75783″ N	0.000	Fixed	Adjusted
			Lon.	122° 12′ 18.11826″ W	0.000	Fixed	
			Elv.	11.581	0.000	Fixed	
5	TR-1	NR WELL LOC	Lat.	37° 50′ 37.30091″ N	0.076		Adjusted
			Lon.	122° 17′ 32.89852″ W	0.079		
		N RIM WELL LOCATION	Elv.	17.85			
		N TOC	Elv.	17.50			
6	TR-4	NR WELL LOC	Lat.	37° 50′ 37.52265″ N	0.076		Adjusted
			Lon.	122° 17′ 34.90752″ W	0.079		
		N RIM WELL LOCATION	Elv.	16.76			
		N TOC	Elv.	16.38			

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Managing Cost, Scope and Schedule
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Novato, CA 94949
Telephone: (415) 883-6203
Facsimile: (415) 883-6204

	Site ID	Site Descriptor	Position		95% Error	Fix Status	Position Status
7	0882	MONUMENT HT0882	Lat.	37° 46′ 48.04137″ N	0.000	Fixed	Adjusted
			Lon.	122° 17′ 53.51060″ W	0.000	Fixed	
			Elv.	9.131	0.000	Fixed	
8	TR-5	THIS IS TBM-A ON NR	Lat.	37° 50′ 38.54681″ N	0.076		Adjusted
			Lon.	122° 17′ 35.15438″ W	0.079		
		N RIM WELL LOCATION	Elv.	16.68	0.345		
		N TOC	Elv.	16.27			

APPENDIX D
Groundwater Sampling Forms

GROUNDWATER SAMPLING FORM

Project Name 1600 63rd Street, Emeryville Well No. SB-1

Project Number 3494.01 Well Type ☐ Monitor ☐ Extraction ☒ Other Temp. Boring

Recorded By MBH Sampled by MBH Date 1/10/07

WELL PURGING

PURGE VOLUME

Well casing diameter

☐ 2-inch ☐ 4-inch ☒ Other 1-inch

Well Total Depth (TD, ft. below TOC): 20'

Depth to Water (WL, ft. below TOC): 6.45

Depth to free phase hydrocarbons (FP, ft. below TOC): 6.44

Number of casing volumes to be purged

☐ 4 ☐ 10 ☒ Other only filled bottles due to FPP

PURGE METHOD

☒ Bailer \ Type ~~Teflon~~ Disposal

☒ Pump \ Type peri pump

☐ Other

PUMP INTAKE

☐ Near top Depth (ft) 14 ft

☐ Near Bottom Depth (ft)

☐ Other

PURGE VOLUME CALCULATION

____ (Water Column Length) X ____ (Multiplier) X ____ (No. Vols) = ____ gals CALCULATED PURGE VOLUME

Total Purge Time ____ (Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)

Recharge Rate ____ Purge Rate ____ ____ gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS Meter Type ____

Time / Gallons	pH	Cond. (mmhos/cm)	Temp	☐ deg C ☐ deg F	Turbidity (NTU)	Color / Odor Remarks
/	NOT	MEASURED	DUE		TO	FPP.
/						
/						
/						
/						
/						
/						
/						

Comments during well purge ____

Purge water storage/disposal ☐ Drummed onsite ☐ Other ____

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled ____ /

Bailer - Type ☐ ____ Sample port ☐ Other ☐ ____

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS Meter Type ____

Date / Time / % Recharge	pH	Cond. (mmhos/cm)	Temp	☐ deg C ☐ deg F	Turbidity (NTU)	Color / Odor Remarks
/ /						

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments

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 Consultants

SB-1

GROUNDWATER SAMPLING FORM

Project Name 1600 63rd St. Emeryville Well No. SB - 2
Project Number 3494.01 Well Type ☐ Monitor ☐ Extraction ☒ Other temp. cased borehole
Recorded By MBH Sampled by MBH Date 1/10/07

WELL PURGING

PURGE VOLUME

Well casing diameter
☐ 2-inch ☐ 4-inch ☒ Other 1-inch
Well Total Depth (TD, ft. below TOC) : 20'
Depth to Water (WL, ft. below TOC) : 5.69
Depth to free phase hydrocarbons (FP, ft. below TOC) : sheen
Number of casing volumes to be purged
☐ 4 ☐ 10 ☒ Other fill bottles due to fpp

PURGE METHOD

☒ Bailer \ Type
☒ Pump \ Type peri pump
☐ Other

PUMP INTAKE

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

PURGE VOLUME CALCULATION

_____ (Water Column Length) X _____ (Multiplier) X _____ (No. Vols) = _____ gals CALCULATED PURGE VOLUME

Total Purge Time _____ (Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5) _____ gals ACTUAL PURGE VOLUME
Recharge Rate _____ Purge Rate _____

GROUNDWATER PARAMETER MEASUREMENTS Meter Type _____

Time / Gallons	pH	Cond. (mmhos/cm)	Temp	☐ deg C ☐ deg F	Turbidity (NTU)	Color / Odor Remarks
/	NOT MEASURED DUE TO FPP					
/						
/						
/						
/						
/						
/						
/						

Comments during well purge _____

Purge water storage/disposal ☐ Drummed onsite ☐ Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled ____/____

Bailer - Type ☐ _____ Sample port ☐ Other ☐ _____

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS Meter Type _____

Date / Time / % Recharge	pH	Cond. (mmhos/cm)	Temp	☐ deg C ☐ deg F	Turbidity (NTU)	Color / Odor Remarks
/ /						

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments

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 Consultants

4.96 6.58

GROUNDWATER SAMPLING FORM

Project Name 1600 63rd Street | Well No. SB-3
Project Number 3494.01 | Well Type ☐ Monitor ☐ Extraction ☒ Other temp case borehole
Recorded By MBH | Sampled by MBH | Date 1/10/07

WELL PURGING

PURGE VOLUME

Well casing diameter
☐ 2-inch ☐ 4-inch ☒ Other 0.75-inch
Well Total Depth (TD, ft. below TOC) : 19.9
Depth to Water (WL, ft. below TOC) : 4.96
Depth to free phase hydrocarbons (FP, ft. below TOC) : ~~8~~ Sheen
Number of casing volumes to be purged
☐ 4 ☐ 10 ☒ Other All bottles due to fpp.

PURGE METHOD

☐ Bailer \ Type
☒ Pump \ Type peristaltic pump
☐ Other

PUMP INTAKE

☐ Near top Depth (ft)
☒ Near Bottom Depth (ft) 14'
☐ Other

PURGE VOLUME CALCULATION

Water Column Length	X Multiplier	X No. Vols	= gals CALCULATED PURGE VOLUME

Total Purge Time
(Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate | Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type

Time / Gallons	pH	Cond. (mmhos/cm)	Temp ☐ deg C ☐ deg F	Turbidity (NTU)	Color / Odor Remarks
/					
/	NM	due to fpp.			
/					
/					
/					
/					
/					
/					

Comments during well purge

Purge-water storage/disposal ☐ Drummed onsite ☐ Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled /
Bailer - Type ☐ | Sample port ☐ | Other ☐

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type

Date / Time / % Recharge	pH	Cond. (mmhos/cm)	Temp ☐ deg C ☐ deg F	Turbidity (NTU)	Color / Odor Remarks
/ /					

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments

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 Consultants

GROUNDWATER SAMPLING FORM

Project Name 1600 63rd St. Emeryville Well No. SB-4
Project Number 3494.01 Well Type ☐ Monitor ☐ Extraction ☒ Other temp case borehole
Recorded By MBH Sampled by MBH Date 1/10/07

WELL PURGING

PURGE VOLUME

Well casing diameter
☐ 2-inch ☐ 4-inch ☐ Other
Well Total Depth (TD, ft. below TOC) : 19.8'
Depth to Water (WL, ft. below TOC) : 10.58
Depth to free phase hydrocarbons (FP, ft. below TOC) : None
Number of casing volumes to be purged
☐ 4 ☐ 10 ☒ Other fill bottles fpp

PURGE METHOD

☐ Bailer \ Type
☒ Pump \ Type peri
☐ Other

PUMP INTAKE

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

PURGE VOLUME CALCULATION

Water Column Length	X Multiplier	X No. Vols	= gals CALCULATED PURGE VOLUME
			gals ACTUAL PURGE VOLUME

Total Purge Time
(Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate Purge Rate

GROUNDWATER PARAMETER MEASUREMENTS Meter Type

Time / Gallons	pH	Cond. (mmhos/cm)	Temp ☐ deg C ☐ deg F	Turbidity (NTU)	Color / Odor Remarks
/					
/	NM	FPP			
/					
/					
/					
/					
/					
/					

Comments during well purge

Purge water storage/disposal ☐ Drummed onsite ☐ Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled /

Bailer - Type ☐ Sample port ☐ Other ☐

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS Meter Type

Date / Time / % Recharge	pH	Cond. (mmhos/cm)	Temp ☐ deg C ☐ deg F	Turbidity (NTU)	Color / Odor Remarks
/ /					

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments

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 Consultants

GROUNDWATER SAMPLING FORM

Project Name 1600 63rd | Well No. TR-1
Project Number 3494.01 | Well Type [X] Monitor [ ] Extraction [ ] Other
Recorded By MBH | Sampled by MBH | Date 1/15/07

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC): 20.1
Depth to Water (WL, ft. below TOC): 6.21
Depth to free phase hydrocarbons (FP, ft. below TOC):
Number of casing volumes to be purged
[ ] 4 [X] 10 [ ] Other

PURGE METHOD

[X] Bailer \ Type tef. bailer
[X] Pump \ Type Sub.
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 18
[ ] Other

PURGE VOLUME CALCULATION

13.89	x	0.17	x	23.	=	23 gals
Water Column Length		Multiplier		No. Vols		CALCULATED PURGE VOLUME

Total Purge Time
(Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate | Purge Rate 5 gpm

30 gals
ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS Meter Type Horiba U-22 ~~Martinmeter~~ Myron L 6P

Time / Gallons	pH	Cond. (mmhos/cm)	Temp [X] deg C [ ] deg F	Turbidity (NTU)	Color / Odor Remarks
11:35 / 0	6.62	827 µS	NM ORP -138	NM/clear	none
/					
/					
/ Meter malfunction -					
/					
/ took extra sample. developed until qualatatively					
/ clear water produced.					
/					

Comments during well purge

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

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 1/15/07
Bailer - Type [X] teflon disposable | Sample port [ ] | Other [ ]

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS Meter Type

Date / Time / % Recharge	pH	Cond. (mmhos/cm)	Temp [ ] deg C [ ] deg F	Turbidity (NTU)	Color / Odor Remarks
/ /					

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments

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 Consultants

GROUNDWATER SAMPLING FORM

Project Name 1600 63rd Street, Emeryville Well No. TR-2
Project Number 3494.01 Well Type [X] Monitor [ ] Extraction [ ] Other
Recorded By MBH Sampled by MBH Date 1/15/07

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC): 20.0
Depth to Water (WL, ft. below TOC): 8.11
Depth to free phase hydrocarbons (FP, ft. below TOC): 7.42
Number of casing volumes to be purged
[ ] 4 [ ] 10 [X] Other due to presence of fpp, grab only

PURGE METHOD

[X] Bailer \ Type fpp removed w/ teflon bailer
[X] Pump \ Type peri pump lowered below fpp for grab.
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

Water Column Length	X Multiplier	X No. Vols	= gals CALCULATED PURGE VOLUME

Total Purge Time
(Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate Purge Rate

gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS Meter Type

Time / Gallons	pH	Cond. (mmhos/cm)	Temp [X] deg C [ ] deg F	Turbidity (NTU)	Color / Odor Remarks
/	7.00	3,305	NM ORP = 128 mV	Clear	Strong HC odor.
/					
/					
/					
/					
/					
/					
/					

Comments during well purge peri pump intake plugged, lowered below fpp, blow out plug, sample. Use interface meter to ensure no drawdown.
Purge water storage/disposal [ ] Drummed onsite [X] Other fpp in gas can.

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 1/15/07 /
Bailer - Type [ ] Sample port [ ] Other [X] peri pump
GROUNDWATER SAMPLE PARAMETER MEASUREMENTS Meter Type

Date / Time / % Recharge	pH	Cond. (mmhos/cm)	Temp [ ] deg C [ ] deg F	Turbidity (NTU)	Color / Odor Remarks
/ /					

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments

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 Consultants

GROUNDWATER SAMPLING FORM

Project Name 1600 63rd St. Well No. TR-3
Project Number 3494.01 Well Type [X] Monitor [ ] Extraction [ ] Other
Recorded By MBH Sampled by MBH Date 1/15/07

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC) : 20.3
Depth to Water (WL, ft. below TOC) : 4.85
Depth to free phase hydrocarbons (FP, ft. below TOC) : NA
Number of casing volumes to be purged
[ ] 4 [ ] 10 [ ] Other

PURGE METHOD

[X] Bailer \ Type tef disp.
[X] Pump \ Type submersible
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) 18'
[ ] Other

PURGE VOLUME CALCULATION

15.45 (Water Column Length) x 0.17 (Multiplier) x 10 (No. Vols) = 26 gals CALCULATED PURGE VOLUME

Total Purge Time 35 (Multiplier 2" = 0.17, 4" = 0.66, 6" = 1.5)
Recharge Rate Purge Rate ±5 gpm
25 gals ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS

Meter Type Horiba U-22

Time / Gallons	pH	Cond. (mmhos/cm)	Temp [X] deg C [ ] deg F	Turbidity (NTU)	Color / Odor Remarks
10:25 / 0	8.65	.280	15.4	6.98	Turbid / brown
10:45 / 15	7.40	1.40	20.7	[illegible]	Turbid / brown
11:00 / 25	7.75	1.33	21.4	5	
/					
/					
/					
/					
/					

Comments during well purge slow recharge
Purge water storage/disposal [X] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD

Date/Time Sampled /
Bailer - Type [ ] Sample port [ ] Other [ ]

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS

Meter Type

Date / Time / % Recharge	pH	Cond. (mmhos/cm)	Temp [ ] deg C [ ] deg F	Turbidity (NTU)	Color / Odor Remarks
/ /					

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments

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 Consultants

GROUNDWATER SAMPLING FORM

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

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

Recorded By MBH — Sampled by MBH — Date 1/15/07

WELL PURGING

PURGE VOLUME

Well casing diameter

[X] 2-inch [ ] 4-inch [ ] Other

Well Total Depth (TD, ft. below TOC): 20.0

Depth to Water (WL, ft. below TOC): 8.71

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

Number of casing volumes to be purged

[ ] 4 [X] 10 [ ] Other

PURGE METHOD

[X] Bailer \ Type Bailer

[X] Pump \ Type Submersible

[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)

[X] Near Bottom Depth (ft) 18'

[ ] Other

PURGE VOLUME CALCULATION

11.29 (Water Column Length) x 0.17 (Multiplier) x 10 (No. Vols) = 19.2 gals — CALCULATED PURGE VOLUME

Total Purge Time 25 — (Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5)

Recharge Rate — Purge Rate — gals — ACTUAL PURGE VOLUME

GROUNDWATER PARAMETER MEASUREMENTS Meter Type Myron L 6P

Time / Gallons	pH	Cond. (mmhos/cm)	Temp [X] deg C [ ] deg F	Turbidity (NTU)	Color / Odor Remarks
1:20 /	6.76	1,777	NM	Clear	ORP = 133 / none
1415 /					
/					
/					
/ Meter malfunction.					
/ Qualitative development.					
/ 10 casing Volumes removed.					
/					

Comments during well purge

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

WELL SAMPLING

SAMPLING METHOD — Date/Time Sampled /

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

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS — Meter Type

Date / Time / % Recharge	pH	Cond. (mmhos/cm)	Temp [ ] deg C [ ] deg F	Turbidity (NTU)	Color / Odor Remarks
/ /					

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments

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 Consultants

GROUNDWATER SAMPLING FORM

Project Name 1600 63rd Street, Emeryville Well No. TR-5
Project Number 3494.01 Well Type [X] Monitor [ ] Extraction [ ] Other
Recorded By MBH Sampled by MBH Date 1/15/07

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC) : 20.0
Depth to Water (WL, ft. below TOC) : 7.34
Depth to free phase hydrocarbons (FP, ft. below TOC) : 7.14
Number of casing volumes to be purged
[ ] 4 [ ] 10 [X] Other due to fpp, only grab sample.

PURGE METHOD

[ ] Bailer \ Type
[ ] Pump \ Type
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[X] Near Bottom Depth (ft) ± 18'
[ ] Other

PURGE VOLUME CALCULATION

____ (Water Column Length) X ____ (Multiplier) X ____ (No. Vols) = ____ gals CALCULATED PURGE VOLUME

Total Purge Time ____ (Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5) ____ gals ACTUAL PURGE VOLUME
Recharge Rate ____ Purge Rate ____

GROUNDWATER PARAMETER MEASUREMENTS Meter Type Myron L 6P

Time / Gallons	pH	Cond. (mmhos/cm)	Temp [ ] deg C [ ] deg F	Turbidity (NTU)	Color / Odor Remarks
/	7.33	2,004	ORP = 126	Clear	Strong HC odor
/					
/					
/					
/					
/					
/					
/					

Comments during well purge intake of peri-pump plugged, through fpp. plug blown out. grab sample while monitoring drawdown w/ interface meter. Purge water storage/disposal [ ] Drummed onsite [ ] Other

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 1/15/07 / 5:15

Bailer - Type [ ] Sample port [ ] Other [X] peri pump

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS Meter Type Myron L 6P meter.

Date / Time / % Recharge	pH	Cond. (mmhos/cm)	Temp [ ] deg C [ ] deg F	Turbidity (NTU)	Color / Odor Remarks
/ /					

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments

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 Consultants

GROUNDWATER SAMPLING FORM

Project Name 1600 63rd St., Emeryville Well No. MW-2
Project Number 3494.01 Well Type [X] Monitor [ ] Extraction [ ] Other
Recorded By MBH Sampled by MBH Date 1/15/07

WELL PURGING

PURGE VOLUME

Well casing diameter
[X] 2-inch [ ] 4-inch [ ] Other
Well Total Depth (TD, ft. below TOC) : 32'
Depth to Water (WL, ft. below TOC) : 6.80
Depth to free phase hydrocarbons (FP, ft. below TOC) : 6.72
Number of casing volumes to be purged
[ ] 4 [ ] 10 [X] Other grab due to fpp

PURGE METHOD

[X] Bailer \ Type disposable teflon
[ ] Pump \ Type
[ ] Other

PUMP INTAKE

[ ] Near top Depth (ft)
[ ] Near Bottom Depth (ft)
[ ] Other

PURGE VOLUME CALCULATION

___ (Water Column Length) X ___ (Multiplier) X ___ (No. Vols) = ___ gals CALCULATED PURGE VOLUME

Total Purge Time ___ (Multiplier : 2" = 0.17, 4" = 0.66, 6" = 1.5) ___ gals ACTUAL PURGE VOLUME
Recharge Rate ___ Purge Rate ___

GROUNDWATER PARAMETER MEASUREMENTS Meter Type Myron L 6P

Time / Gallons	pH	Cond. (mmhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color / Odor Remarks
/	7.21	1,057	ORP = 121		Clear	Strong HC odor.
/						residual fpp in sample.
/						
/						
/						
/						
/						
/						

Comments during well purge due to excess fpp on casing wall, had to bail fpp out, then bail samples.
Purge water storage/disposal [ ] Drummed onsite [X] Other gas can onsite

WELL SAMPLING

SAMPLING METHOD Date/Time Sampled 1/15/07 / 4:45

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

GROUNDWATER SAMPLE PARAMETER MEASUREMENTS Meter Type Myron L 6P

Date / Time / % Recharge	pH	Cond. (mmhos/cm)	Temp	deg C / deg F	Turbidity (NTU)	Color / Odor Remarks
/ /						

SAMPLING PROGRAM

Sample No.	Container #/Volume	Analysis	Preservatives	Laboratory	Comments

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 Consultants

APPENDIX E
Laboratory Analytical Report

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

20 March, 2007

Matt Hall
Treadwell & Rollo - Oakland
501 14th Street 3rd Floor
Oakland, CA 94612

RE: 1600 63rd Street, Emeryville
Work Order: MQA0437

Enclosed are the results of analyses for samples received by the laboratory on 01/11/07 18:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tim Costello
Client Services Department Manager

CA ELAP Certificate # 1210

The Chain(s) of Custody, 11 pages, are included and are an integral part of this report.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1 (6-6.5)	MQA0437-01	Soil	01/10/07 09:55	01/11/07 18:20
SB-1 (9.5-10)	MQA0437-02	Soil	01/10/07 10:00	01/11/07 18:20
SB-1 (14.5-15)	MQA0437-03	Soil	01/10/07 10:05	01/11/07 18:20
SB-1 (19.5-20)	MQA0437-04	Soil	01/10/07 10:10	01/11/07 18:20
SB-2 (6-6.5)	MQA0437-05	Soil	01/10/07 13:40	01/11/07 18:20
SB-2 (9.5-10)	MQA0437-06	Soil	01/10/07 13:45	01/11/07 18:20
SB-2 (14.5-15)	MQA0437-07	Soil	01/10/07 13:50	01/11/07 18:20
SB-2 (17-17.5)	MQA0437-08	Soil	01/10/07 13:52	01/11/07 18:20
SB-2 (19.5-20)	MQA0437-09	Soil	01/10/07 13:55	01/11/07 18:20
SB-3 (6-6.5)	MQA0437-10	Soil	01/10/07 14:25	01/11/07 18:20
SB-3 (9.5-10)	MQA0437-11	Soil	01/10/07 14:30	01/11/07 18:20
SB-3 (14.5-15)	MQA0437-12	Soil	01/10/07 14:35	01/11/07 18:20
SB-3 (17-17.5)	MQA0437-13	Soil	01/10/07 14:37	01/11/07 18:20
SB-3 (19.5-20)	MQA0437-14	Soil	01/10/07 14:40	01/11/07 18:20
SB-4 (6-6.5)	MQA0437-15	Soil	01/10/07 12:05	01/11/07 18:20
SB-4 (9.5-10)	MQA0437-16	Soil	01/10/07 12:10	01/11/07 18:20
SB-4 (14.5-15)	MQA0437-17	Soil	01/10/07 12:15	01/11/07 18:20
SB-4 (17.5-18)	MQA0437-18	Soil	01/10/07 12:17	01/11/07 18:20
SB-4 (19.5-20)	MQA0437-19	Soil	01/10/07 12:20	01/11/07 18:20
TR-1 (4.5-5)	MQA0437-20	Soil	01/09/07 09:25	01/11/07 18:20
TR-1 (8-8.5)	MQA0437-21	Soil	01/09/07 09:27	01/11/07 18:20
TR-1 (9.5-10)	MQA0437-22	Soil	01/09/07 09:30	01/11/07 18:20
TR-1 (14.5-15)	MQA0437-23	Soil	01/09/07 09:40	01/11/07 18:20
TR-1 (19.5-20)	MQA0437-24	Soil	01/09/07 09:45	01/11/07 18:20
TR-2 (4.5-5)	MQA0437-25	Soil	01/09/07 13:05	01/11/07 18:20
TR-2 (9.5-10)	MQA0437-26	Soil	01/09/07 13:10	01/11/07 18:20
TR-2 (14.5-15)	MQA0437-27	Soil	01/09/07 13:15	01/11/07 18:20
TR-2 (19.5-20)	MQA0437-28	Soil	01/09/07 13:20	01/11/07 18:20
TR-3 (4.5-5)	MQA0437-29	Soil	01/09/07 11:30	01/11/07 18:20

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TR-3 (9.5-10)	MQA0437-30	Soil	01/09/07 11:35	01/11/07 18:20
TR-3 (15-15.5)	MQA0437-31	Soil	01/09/07 11:40	01/11/07 18:20
TR-3 (19.5-20)	MQA0437-32	Soil	01/09/07 11:45	01/11/07 18:20
TR-4 (4.5-5)	MQA0437-33	Soil	01/09/07 10:25	01/11/07 18:20
TR-4 (9.5-10)	MQA0437-34	Soil	01/09/07 10:35	01/11/07 18:20
TR-4 (14.5-15)	MQA0437-35	Soil	01/09/07 10:40	01/11/07 18:20
TR-4 (19.5-20)	MQA0437-36	Soil	01/09/07 10:45	01/11/07 18:20
TR-4 (8.5-9)	MQA0437-37	Soil	01/09/07 10:37	01/11/07 18:20
TR-5 (4.5-5)	MQA0437-38	Soil	01/09/07 14:35	01/11/07 18:20
TR-5 (9.5-10)	MQA0437-39	Soil	01/09/07 14:40	01/11/07 18:20
TR-5 (14.5-15)	MQA0437-40	Soil	01/09/07 14:45	01/11/07 18:20
TR-5 (19.5-20)	MQA0437-41	Soil	01/09/07 14:50	01/11/07 18:20
SB-1	MQA0437-42	Water	01/10/07 16:10	01/11/07 18:20
SB-2	MQA0437-43	Water	01/10/07 16:45	01/11/07 18:20
SB-3	MQA0437-44	Water	01/10/07 17:30	01/11/07 18:20
SB-4	MQA0437-45	Water	01/10/07 17:15	01/11/07 18:20

Enclosed is a revision of your report of 1/26/07. The revised results were the TPH-Gas by GCMS results for samples MQA0437-02, -03, -07, -11, -13, -16, -18, -27, -39, -40, and the EPA 8260B BTEX/Oxy results for sample MQA0437-18 Please see the attached letter for more information.

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 (6-6.5) (MQA0437-01) Soil Sampled: 01/10/07 09:55 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15017	01/15/07	01/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*94 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*93 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*96 %*	*70-120*		"	"	"	"	
SB-1 (9.5-10) (MQA0437-02) Soil Sampled: 01/10/07 10:00 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**120**	12	mg/kg	5	7A18020	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*98 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*97 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*70-120*		"	"	"	"	
SB-1 (14.5-15) (MQA0437-03) Soil Sampled: 01/10/07 10:05 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**57**	2.5	mg/kg	1	7A18020	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*93 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*147 %*	*60-120*		"	"	"	"	*ZX*
Surrogate: Dibromofluoromethane		*95 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*70-120*		"	"	"	"	
SB-1 (19.5-20) (MQA0437-04RE1) Soil Sampled: 01/10/07 10:10 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A18003	01/18/07	01/18/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*92 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*94 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*96 %*	*70-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 (6-6.5) (MQA0437-05) Soil Sampled: 01/10/07 13:40 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A16003	01/16/07	01/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*94 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*92 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*97 %*	*70-120*		"	"	"	"	
SB-2 (9.5-10) (MQA0437-06) Soil Sampled: 01/10/07 13:45 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**160**	100	ug/kg	1	7A16003	01/16/07	01/16/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*92 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*92 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*97 %*	*70-120*		"	"	"	"	
SB-2 (14.5-15) (MQA0437-07) Soil Sampled: 01/10/07 13:50 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**33**	5.0	mg/kg	2	7A18020	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*96 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*92 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*70-120*		"	"	"	"	
SB-2 (17-17.5) (MQA0437-08) Soil Sampled: 01/10/07 13:52 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**1900**	100	ug/kg	1	7A16003	01/16/07	01/16/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*95 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*128 %*	*60-120*		"	"	"	"	*ZX*
Surrogate: Dibromofluoromethane		*91 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*70-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 (19.5-20) (MQA0437-09) Soil Sampled: 01/10/07 13:55 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**450**	100	ug/kg	1	7A16003	01/16/07	01/16/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*92 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*92 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*70-120*		"	"	"	"	
SB-3 (6-6.5) (MQA0437-10) Soil Sampled: 01/10/07 14:25 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**2500**	100	ug/kg	1	7A16003	01/16/07	01/16/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*90 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*123 %*	*60-120*		"	"	"	"	*ZX*
Surrogate: Dibromofluoromethane		*92 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*70-120*		"	"	"	"	
SB-3 (9.5-10) (MQA0437-11) Soil Sampled: 01/10/07 14:30 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**31**	5.0	mg/kg	2	7A18020	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*91 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*93 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*70-120*		"	"	"	"	
SB-3 (14.5-15) (MQA0437-12) Soil Sampled: 01/10/07 14:35 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**1200**	100	ug/kg	1	7A18003	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*97 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*95 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*70-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 (17-17.5) (MQA0437-13) Soil Sampled: 01/10/07 14:37 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**57**	2.5	mg/kg	1	7A18020	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*92 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*93 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*70-120*		"	"	"	"	
SB-3 (19.5-20) (MQA0437-14) Soil Sampled: 01/10/07 14:40 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A16035	01/16/07	01/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*97 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*96 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*96 %*	*70-120*		"	"	"	"	
SB-4 (6-6.5) (MQA0437-15) Soil Sampled: 01/10/07 12:05 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**620**	100	ug/kg	1	7A16035	01/16/07	01/17/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*99 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*95 %*	*70-120*		"	"	"	"	
SB-4 (9.5-10) (MQA0437-16) Soil Sampled: 01/10/07 12:10 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**79**	2.5	mg/kg	1	7A18020	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*90 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*118 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*91 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*70-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (14.5-15) (MQA0437-17) Soil	**Sampled: 01/10/07 12:15**	**Received: 01/11/07 18:20**							
Gasoline Range Organics (C4-C12)	**5100**	100	ug/kg	1	7A17005	01/17/07	01/17/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*96 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*169 %*	*60-120*		"	"	"	"	*ZX*
Surrogate: Dibromofluoromethane		*95 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*70-120*		"	"	"	"	
SB-4 (17.5-18) (MQA0437-18) Soil	**Sampled: 01/10/07 12:17**	**Received: 01/11/07 18:20**							
Gasoline Range Organics (C4-C12)	**220**	2.5	mg/kg	1	7A18020	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*96 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*152 %*	*60-120*		"	"	"	"	*ZX*
Surrogate: Dibromofluoromethane		*94 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*70-120*		"	"	"	"	
SB-4 (19.5-20) (MQA0437-19) Soil	**Sampled: 01/10/07 12:20**	**Received: 01/11/07 18:20**							
Gasoline Range Organics (C4-C12)	**270**	100	ug/kg	1	7A17005	01/17/07	01/17/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*92 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*90 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*70-120*		"	"	"	"	
TR-1 (4.5-5) (MQA0437-20) Soil	**Sampled: 01/09/07 09:25**	**Received: 01/11/07 18:20**							
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*95 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*97 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*94 %*	*70-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-1 (8-8.5) (MQA0437-21) Soil Sampled: 01/09/07 09:27 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*98 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*96 %*	*70-120*		"	"	"	"	
TR-1 (9.5-10) (MQA0437-22) Soil Sampled: 01/09/07 09:30 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*96 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*95 %*	*70-120*		"	"	"	"	
TR-1 (14.5-15) (MQA0437-23) Soil Sampled: 01/09/07 09:40 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A17005	01/17/07	01/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*89 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*91 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*98 %*	*70-120*		"	"	"	"	
TR-1 (19.5-20) (MQA0437-24) Soil Sampled: 01/09/07 09:45 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*96 %*	*70-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-2 (4.5-5) (MQA0437-25) Soil Sampled: 01/09/07 13:05 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*94 %*	*70-120*		"	"	"	"	
TR-2 (9.5-10) (MQA0437-26) Soil Sampled: 01/09/07 13:10 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**1400**	500	ug/kg	5	7A15001	01/15/07	01/15/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*94 %*	*70-120*		"	"	"	"	
TR-2 (14.5-15) (MQA0437-27) Soil Sampled: 01/09/07 13:15 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**82**	2.5	mg/kg	1	7A18020	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*123 %*	*60-120*		"	"	"	"	*ZX*
Surrogate: Dibromofluoromethane		*95 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*70-120*		"	"	"	"	
TR-2 (19.5-20) (MQA0437-28) Soil Sampled: 01/09/07 13:20 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**3900**	500	ug/kg	5	7A15001	01/15/07	01/15/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*92 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*93 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*70-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-3 (4.5-5) (MQA0437-29) Soil Sampled: 01/09/07 11:30 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**1300**	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*98 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*94 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*92 %*	*70-120*		"	"	"	"	
TR-3 (9.5-10) (MQA0437-30) Soil Sampled: 01/09/07 11:35 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**210**	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*89 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*91 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*98 %*	*70-120*		"	"	"	"	
TR-3 (15-15.5) (MQA0437-31) Soil Sampled: 01/09/07 11:40 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**250**	100	ug/kg	1	7A15001	01/15/07	01/15/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*93 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*79 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*95 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*88 %*	*70-120*		"	"	"	"	
TR-3 (19.5-20) (MQA0437-32) Soil Sampled: 01/09/07 11:45 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15017	01/15/07	01/15/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*92 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*93 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*95 %*	*70-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-4 (4.5-5) (MQA0437-33) Soil Sampled: 01/09/07 10:25 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15017	01/15/07	01/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*99 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*96 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*83 %*	*70-120*		"	"	"	"	
TR-4 (9.5-10) (MQA0437-34) Soil Sampled: 01/09/07 10:35 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15017	01/15/07	01/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*96 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*98 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*94 %*	*70-120*		"	"	"	"	
TR-4 (14.5-15) (MQA0437-35) Soil Sampled: 01/09/07 10:40 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15017	01/15/07	01/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*97 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*95 %*	*70-120*		"	"	"	"	
TR-4 (19.5-20) (MQA0437-36) Soil Sampled: 01/09/07 10:45 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15017	01/15/07	01/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*95 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*96 %*	*70-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-4 (8.5-9) (MQA0437-37) Soil Sampled: 01/09/07 10:37 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A15017	01/15/07	01/16/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*98 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*96 %*	*70-120*		"	"	"	"	
TR-5 (4.5-5) (MQA0437-38) Soil Sampled: 01/09/07 14:35 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	7A17005	01/17/07	01/17/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*94 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*68 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*97 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*88 %*	*70-120*		"	"	"	"	
TR-5 (9.5-10) (MQA0437-39) Soil Sampled: 01/09/07 14:40 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**6.1**	2.5	mg/kg	1	7A18020	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*98 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*94 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*70-120*		"	"	"	"	
TR-5 (14.5-15) (MQA0437-40) Soil Sampled: 01/09/07 14:45 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**250**	5.0	mg/kg	2	7A18020	01/18/07	01/18/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*96 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*122 %*	*60-120*		"	"	"	"	*ZX*
Surrogate: Dibromofluoromethane		*94 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*70-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-5 (19.5-20) (MQA0437-41) Soil Sampled: 01/09/07 14:50 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**650**	100	ug/kg	1	7A17005	01/17/07	01/17/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*92 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*60-120*		"	"	"	"	
Surrogate: Dibromofluoromethane		*92 %*	*45-130*		"	"	"	"	
Surrogate: Toluene-d8		*99 %*	*70-120*		"	"	"	"	
SB-1 (MQA0437-42) Water Sampled: 01/10/07 16:10 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**140000**	25000	ug/l	500	7A20006	01/20/07	01/21/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*86 %*	*60-145*		"	"	"	"	
SB-2 (MQA0437-43) Water Sampled: 01/10/07 16:45 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**1600**	100	ug/l	2	7A23020	01/23/07	01/24/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*60-145*		"	"	"	"	
SB-3 (MQA0437-44) Water Sampled: 01/10/07 17:30 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**7800**	2500	ug/l	50	7A20006	01/20/07	01/21/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*79 %*	*60-145*		"	"	"	"	
SB-4 (MQA0437-45) Water Sampled: 01/10/07 17:15 Received: 01/11/07 18:20									
Gasoline Range Organics (C4-C12)	**4800**	100	ug/l	2	7A23020	01/23/07	01/24/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*93 %*	*60-145*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Extractable Hydrocarbons by EPA 8015B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 (6-6.5) (MQA0437-01) Soil Sampled: 01/10/07 09:55 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**2.9**	1.0	mg/kg	1	7A24006	01/24/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*95 %*	*40-120*		"	"	"	"	
SB-1 (9.5-10) (MQA0437-02) Soil Sampled: 01/10/07 10:00 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**1700**	100	mg/kg	100	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*%*	*40-120*		"	"	"	"	*Z3*
SB-1 (14.5-15) (MQA0437-03) Soil Sampled: 01/10/07 10:05 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**1500**	100	mg/kg	100	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*%*	*40-120*		"	"	"	"	*Z3*
SB-1 (19.5-20) (MQA0437-04) Soil Sampled: 01/10/07 10:10 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**5.9**	1.0	mg/kg	1	7A24006	01/24/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*104 %*	*40-120*		"	"	"	"	
SB-2 (6-6.5) (MQA0437-05) Soil Sampled: 01/10/07 13:40 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**2.1**	1.0	mg/kg	1	7A24006	01/24/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*104 %*	*40-120*		"	"	"	"	
SB-2 (9.5-10) (MQA0437-06) Soil Sampled: 01/10/07 13:45 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**98**	5.0	mg/kg	5	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*135 %*	*40-120*		"	"	"	"	*ZX*
SB-2 (14.5-15) (MQA0437-07) Soil Sampled: 01/10/07 13:50 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**770**	40	mg/kg	40	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*326 %*	*40-120*		"	"	"	"	*ZX*

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Extractable Hydrocarbons by EPA 8015B

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 (17-17.5) (MQA0437-08) Soil Sampled: 01/10/07 13:52 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**340**	10	mg/kg	10	7A24006	01/24/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*243 %*	*40-120*		"	"	"	"	*ZX*
SB-2 (19.5-20) (MQA0437-09) Soil Sampled: 01/10/07 13:55 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**45**	1.0	mg/kg	1	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*108 %*	*40-120*		"	"	"	"	
SB-3 (6-6.5) (MQA0437-10) Soil Sampled: 01/10/07 14:25 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**340**	10	mg/kg	10	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*279 %*	*40-120*		"	"	"	"	*ZX*
SB-3 (9.5-10) (MQA0437-11) Soil Sampled: 01/10/07 14:30 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**280**	10	mg/kg	10	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*237 %*	*40-120*		"	"	"	"	*ZX*
SB-3 (14.5-15) (MQA0437-12) Soil Sampled: 01/10/07 14:35 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**18**	1.0	mg/kg	1	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*116 %*	*40-120*		"	"	"	"	
SB-3 (17-17.5) (MQA0437-13) Soil Sampled: 01/10/07 14:37 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**660**	20	mg/kg	20	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*298 %*	*40-120*		"	"	"	"	*ZX*
SB-3 (19.5-20) (MQA0437-14) Soil Sampled: 01/10/07 14:40 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**4.1**	1.0	mg/kg	1	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*98 %*	*40-120*		"	"	"	"	

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Extractable Hydrocarbons by EPA 8015B

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (6-6.5) (MQA0437-15) Soil Sampled: 01/10/07 12:05 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**240**	20	mg/kg	20	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*498 %*	*40-120*		"	"	"	"	*ZX*
SB-4 (9.5-10) (MQA0437-16) Soil Sampled: 01/10/07 12:10 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**910**	20	mg/kg	20	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*478 %*	*40-120*		"	"	"	"	*ZX*
SB-4 (14.5-15) (MQA0437-17) Soil Sampled: 01/10/07 12:15 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**630**	20	mg/kg	20	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*357 %*	*40-120*		"	"	"	"	*ZX*
SB-4 (17.5-18) (MQA0437-18) Soil Sampled: 01/10/07 12:17 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**3800**	200	mg/kg	200	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*%*	*40-120*		"	"	"	"	*Z3*
SB-4 (19.5-20) (MQA0437-19) Soil Sampled: 01/10/07 12:20 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**44**	1.0	mg/kg	1	7A24006	01/24/07	01/25/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*122 %*	*40-120*		"	"	"	"	*ZX*
TR-1 (4.5-5) (MQA0437-20) Soil Sampled: 01/09/07 09:25 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**27**	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*138 %*	*40-120*		"	"	"	"	*ZX*
TR-1 (8-8.5) (MQA0437-21) Soil Sampled: 01/09/07 09:27 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**14**	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*144 %*	*40-120*		"	"	"	"	*ZX*

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Extractable Hydrocarbons by EPA 8015B

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-1 (9.5-10) (MQA0437-22) Soil Sampled: 01/09/07 09:30 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**2.8**	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*93 %*	*40-120*		"	"	"	"	
TR-1 (14.5-15) (MQA0437-23) Soil Sampled: 01/09/07 09:40 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**2.4**	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*100 %*	*40-120*		"	"	"	"	
TR-1 (19.5-20) (MQA0437-24) Soil Sampled: 01/09/07 09:45 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**2.2**	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*101 %*	*40-120*		"	"	"	"	
TR-2 (4.5-5) (MQA0437-25) Soil Sampled: 01/09/07 13:05 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**10**	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*113 %*	*40-120*		"	"	"	"	
TR-2 (9.5-10) (MQA0437-26) Soil Sampled: 01/09/07 13:10 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**2100**	100	mg/kg	100	7A22024	01/22/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*%*	*40-120*		"	"	"	"	*Z3*
TR-2 (14.5-15) (MQA0437-27) Soil Sampled: 01/09/07 13:15 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**4200**	200	mg/kg	200	7A22024	01/22/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*%*	*40-120*		"	"	"	"	*Z3*
TR-2 (19.5-20) (MQA0437-28) Soil Sampled: 01/09/07 13:20 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**490**	20	mg/kg	20	7A22024	01/22/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*586 %*	*40-120*		"	"	"	"	*ZX*

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-3 (4.5-5) (MQA0437-29) Soil Sampled: 01/09/07 11:30 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**490**	40	mg/kg	40	7A22024	01/22/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*2353 %*	*40-120*		"	"	"	"	*Z3*
TR-3 (9.5-10) (MQA0437-30) Soil Sampled: 01/09/07 11:35 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**72**	5.0	mg/kg	5	7A22024	01/22/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*500 %*	*40-120*		"	"	"	"	*ZX*
TR-3 (15-15.5) (MQA0437-31) Soil Sampled: 01/09/07 11:40 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**250**	20	mg/kg	20	7A22024	01/22/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*1395 %*	*40-120*		"	"	"	"	*ZX*
TR-3 (19.5-20) (MQA0437-32) Soil Sampled: 01/09/07 11:45 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**11**	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*122 %*	*40-120*		"	"	"	"	*ZX*
TR-4 (4.5-5) (MQA0437-33) Soil Sampled: 01/09/07 10:25 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**7.1**	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*96 %*	*40-120*		"	"	"	"	
TR-4 (9.5-10) (MQA0437-34) Soil Sampled: 01/09/07 10:35 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**4.9**	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*79 %*	*40-120*		"	"	"	"	
TR-4 (14.5-15) (MQA0437-35) Soil Sampled: 01/09/07 10:40 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**2.4**	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*93 %*	*40-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Extractable Hydrocarbons by EPA 8015B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-4 (19.5-20) (MQA0437-36) Soil Sampled: 01/09/07 10:45 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**1.3**	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*92 %*	*40-120*		"	"	"	"	
TR-4 (8.5-9) (MQA0437-37) Soil Sampled: 01/09/07 10:37 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**1.3**	1.0	mg/kg	1	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*87 %*	*40-120*		"	"	"	"	
TR-5 (4.5-5) (MQA0437-38) Soil Sampled: 01/09/07 14:35 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**3500**	100	mg/kg	20	7A22024	01/22/07	01/23/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*7964 %*	*40-120*		"	"	"	"	*ZX*
TR-5 (9.5-10) (MQA0437-39) Soil Sampled: 01/09/07 14:40 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**870**	50	mg/kg	50	7A22024	01/22/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*623 %*	*40-120*		"	"	"	"	*Z3*
TR-5 (14.5-15) (MQA0437-40) Soil Sampled: 01/09/07 14:45 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**180**	10	mg/kg	10	7A23027	01/23/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*67 %*	*40-120*		"	"	"	"	
TR-5 (19.5-20) (MQA0437-41) Soil Sampled: 01/09/07 14:50 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**6.8**	1.0	mg/kg	1	7A23027	01/23/07	01/24/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*99 %*	*40-120*		"	"	"	"	
SB-1 (MQA0437-42) Water Sampled: 01/10/07 16:10 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**73000**	9600	ug/l	200	7A16006	01/16/07	01/17/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*%*	*30-115*		"	"	"	"	*Z3*

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
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Extractable Hydrocarbons by EPA 8015B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 (MQA0437-43) Water Sampled: 01/10/07 16:45 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**33000**	4800	ug/l	100	7A16006	01/16/07	01/17/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*%*	*30-115*		"	"	"	"	*Z3*
SB-3 (MQA0437-44) Water Sampled: 01/10/07 17:30 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**49000**	2400	ug/l	50	7A16006	01/16/07	01/17/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*753 %*	*30-115*		"	"	"	"	*Z3*
SB-4 (MQA0437-45) Water Sampled: 01/10/07 17:15 Received: 01/11/07 18:20									
Diesel Range Organics (C10-C28)	**150000**	9700	ug/l	200	7A16006	01/16/07	01/18/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*%*	*30-115*		"	"	"	"	*Z3*

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Metals by EPA 6000/7000 Series Methods

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 (6-6.5) (MQA0437-01) Soil Sampled: 01/10/07 09:55 Received: 01/11/07 18:20									
Lead	**8.9**	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-1 (9.5-10) (MQA0437-02) Soil Sampled: 01/10/07 10:00 Received: 01/11/07 18:20									
Lead	ND	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-1 (14.5-15) (MQA0437-03) Soil Sampled: 01/10/07 10:05 Received: 01/11/07 18:20									
Lead	**9.2**	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-1 (19.5-20) (MQA0437-04) Soil Sampled: 01/10/07 10:10 Received: 01/11/07 18:20									
Lead	ND	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-2 (6-6.5) (MQA0437-05) Soil Sampled: 01/10/07 13:40 Received: 01/11/07 18:20									
Lead	**6.0**	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-2 (9.5-10) (MQA0437-06) Soil Sampled: 01/10/07 13:45 Received: 01/11/07 18:20									
Lead	ND	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-2 (14.5-15) (MQA0437-07) Soil Sampled: 01/10/07 13:50 Received: 01/11/07 18:20									
Lead	**5.0**	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-2 (17-17.5) (MQA0437-08) Soil Sampled: 01/10/07 13:52 Received: 01/11/07 18:20									
Lead	ND	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-2 (19.5-20) (MQA0437-09) Soil Sampled: 01/10/07 13:55 Received: 01/11/07 18:20									
Lead	ND	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Metals by EPA 6000/7000 Series Methods

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 (6-6.5) (MQA0437-10) Soil Sampled: 01/10/07 14:25 Received: 01/11/07 18:20									
Lead	**5.5**	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-3 (9.5-10) (MQA0437-11) Soil Sampled: 01/10/07 14:30 Received: 01/11/07 18:20									
Lead	**17**	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-3 (14.5-15) (MQA0437-12) Soil Sampled: 01/10/07 14:35 Received: 01/11/07 18:20									
Lead	ND	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-3 (17-17.5) (MQA0437-13) Soil Sampled: 01/10/07 14:37 Received: 01/11/07 18:20									
Lead	**5.0**	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-3 (19.5-20) (MQA0437-14) Soil Sampled: 01/10/07 14:40 Received: 01/11/07 18:20									
Lead	ND	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-4 (6-6.5) (MQA0437-15) Soil Sampled: 01/10/07 12:05 Received: 01/11/07 18:20									
Lead	**5.3**	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-4 (9.5-10) (MQA0437-16) Soil Sampled: 01/10/07 12:10 Received: 01/11/07 18:20									
Lead	**6.2**	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-4 (14.5-15) (MQA0437-17) Soil Sampled: 01/10/07 12:15 Received: 01/11/07 18:20									
Lead	**6.3**	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
SB-4 (17.5-18) (MQA0437-18) Soil Sampled: 01/10/07 12:17 Received: 01/11/07 18:20									
Lead	**6.9**	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Metals by EPA 6000/7000 Series Methods

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (19.5-20) (MQA0437-19) Soil Sampled: 01/10/07 12:20 Received: 01/11/07 18:20									
Lead	**6.0**	5.0	mg/kg	1	7A18032	01/18/07	01/20/07	EPA 6010B	
TR-1 (4.5-5) (MQA0437-20) Soil Sampled: 01/09/07 09:25 Received: 01/11/07 18:20									
Lead	**22**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-1 (8-8.5) (MQA0437-21) Soil Sampled: 01/09/07 09:27 Received: 01/11/07 18:20									
Lead	**6.2**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-1 (9.5-10) (MQA0437-22) Soil Sampled: 01/09/07 09:30 Received: 01/11/07 18:20									
Lead	**11**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-1 (14.5-15) (MQA0437-23) Soil Sampled: 01/09/07 09:40 Received: 01/11/07 18:20									
Lead	**8.4**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-1 (19.5-20) (MQA0437-24) Soil Sampled: 01/09/07 09:45 Received: 01/11/07 18:20									
Lead	**12**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-2 (4.5-5) (MQA0437-25) Soil Sampled: 01/09/07 13:05 Received: 01/11/07 18:20									
Lead	**130**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-2 (9.5-10) (MQA0437-26) Soil Sampled: 01/09/07 13:10 Received: 01/11/07 18:20									
Lead	**6.3**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-2 (14.5-15) (MQA0437-27) Soil Sampled: 01/09/07 13:15 Received: 01/11/07 18:20									
Lead	**6.6**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Metals by EPA 6000/7000 Series Methods

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-2 (19.5-20) (MQA0437-28) Soil Sampled: 01/09/07 13:20 Received: 01/11/07 18:20									
Lead	**13**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-3 (4.5-5) (MQA0437-29) Soil Sampled: 01/09/07 11:30 Received: 01/11/07 18:20									
Lead	**7.4**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-3 (9.5-10) (MQA0437-30) Soil Sampled: 01/09/07 11:35 Received: 01/11/07 18:20									
Lead	**6.8**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-3 (15-15.5) (MQA0437-31) Soil Sampled: 01/09/07 11:40 Received: 01/11/07 18:20									
Lead	**25**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-3 (19.5-20) (MQA0437-32) Soil Sampled: 01/09/07 11:45 Received: 01/11/07 18:20									
Lead	**7.0**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-4 (4.5-5) (MQA0437-33) Soil Sampled: 01/09/07 10:25 Received: 01/11/07 18:20									
Lead	**12**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-4 (9.5-10) (MQA0437-34) Soil Sampled: 01/09/07 10:35 Received: 01/11/07 18:20									
Lead	**7.8**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-4 (14.5-15) (MQA0437-35) Soil Sampled: 01/09/07 10:40 Received: 01/11/07 18:20									
Lead	**11**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-4 (19.5-20) (MQA0437-36) Soil Sampled: 01/09/07 10:45 Received: 01/11/07 18:20									
Lead	**10**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Metals by EPA 6000/7000 Series Methods

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-4 (8.5-9) (MQA0437-37) Soil Sampled: 01/09/07 10:37 Received: 01/11/07 18:20									
Lead	ND	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-5 (4.5-5) (MQA0437-38) Soil Sampled: 01/09/07 14:35 Received: 01/11/07 18:20									
Lead	**410**	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-5 (9.5-10) (MQA0437-39) Soil Sampled: 01/09/07 14:40 Received: 01/11/07 18:20									
Lead	ND	5.0	mg/kg	1	7A18040	01/18/07	01/20/07	EPA 6010B	
TR-5 (14.5-15) (MQA0437-40) Soil Sampled: 01/09/07 14:45 Received: 01/11/07 18:20									
Lead	**12**	5.0	mg/kg	1	7A19031	01/19/07	01/23/07	EPA 6010B	
TR-5 (19.5-20) (MQA0437-41) Soil Sampled: 01/09/07 14:50 Received: 01/11/07 18:20									
Lead	**12**	5.0	mg/kg	1	7A19031	01/19/07	01/23/07	EPA 6010B	
SB-1 (MQA0437-42) Water Sampled: 01/10/07 16:10 Received: 01/11/07 18:20									
Lead	ND	0.10	mg/l	1	7A17033	01/17/07	01/18/07	EPA 6010B	C
SB-2 (MQA0437-43) Water Sampled: 01/10/07 16:45 Received: 01/11/07 18:20									
Lead	ND	0.10	mg/l	1	7A17033	01/17/07	01/18/07	EPA 6010B	C
SB-3 (MQA0437-44) Water Sampled: 01/10/07 17:30 Received: 01/11/07 18:20									
Lead	ND	0.10	mg/l	1	7A17033	01/17/07	01/18/07	EPA 6010B	C
SB-4 (MQA0437-45) Water Sampled: 01/10/07 17:15 Received: 01/11/07 18:20									
Lead	ND	0.10	mg/l	1	7A17033	01/17/07	01/18/07	EPA 6010B	C

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 (6-6.5) (MQA0437-01) Soil Sampled: 01/10/07 09:55 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*93 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*94 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92 %*	*60-120*		"	"	"	"	
SB-1 (9.5-10) (MQA0437-02) Soil Sampled: 01/10/07 10:00 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	I
Xylenes (total)	ND	5.0	"	"	"	"	"	"	I
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*99 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*878 %*	*60-120*		"	"	"	"	*ZX*

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-1 (14.5-15) (MQA0437-03) Soil Sampled: 01/10/07 10:05 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*874 %*		*60-120*	"	"	"	"	*ZX*
SB-1 (19.5-20) (MQA0437-04) Soil Sampled: 01/10/07 10:10 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*89 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95 %*		*60-120*	"	"	"	"	

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 (6-6.5) (MQA0437-05) Soil Sampled: 01/10/07 13:40 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*92 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*94 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92 %*		*60-120*	"	"	"	"	
SB-2 (9.5-10) (MQA0437-06) Soil Sampled: 01/10/07 13:45 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*92 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*		*60-120*	"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 (14.5-15) (MQA0437-07) Soil Sampled: 01/10/07 13:50 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*94 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*854 %*		*60-120*	"	"	"	"	*ZX*
SB-2 (17-17.5) (MQA0437-08) Soil Sampled: 01/10/07 13:52 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*91 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*128 %*		*60-120*	"	"	"	"	*ZX*

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 (19.5-20) (MQA0437-09) Soil Sampled: 01/10/07 13:55 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*92 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*60-120*		"	"	"	"	
SB-3 (6-6.5) (MQA0437-10) Soil Sampled: 01/10/07 14:25 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*92 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*90 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*123 %*	*60-120*		"	"	"	"	*ZX*

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501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 (9.5-10) (MQA0437-11) Soil Sampled: 01/10/07 14:30 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*93 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*310 %*		*60-120*	"	"	"	"	*ZX*
SB-3 (14.5-15) (MQA0437-12) Soil Sampled: 01/10/07 14:35 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*92 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*		*60-120*	"	"	"	"	

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501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-3 (17-17.5) (MQA0437-13) Soil Sampled: 01/10/07 14:37 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A16003	01/16/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	**13**	5.0	"	"	"	"	"	"	
Xylenes (total)	**50**	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*246 %*	*60-120*		"	"	"	"	*ZX*
SB-3 (19.5-20) (MQA0437-14) Soil Sampled: 01/10/07 14:40 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A16035	01/16/07	01/17/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95 %*	*60-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (6-6.5) (MQA0437-15) Soil Sampled: 01/10/07 12:05 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A16035	01/16/07	01/17/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*99 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*60-120*		"	"	"	"	
SB-4 (9.5-10) (MQA0437-16) Soil Sampled: 01/10/07 12:10 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A16035	01/16/07	01/17/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*492 %*	*60-120*		"	"	"	"	*ZX*

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (14.5-15) (MQA0437-17) Soil Sampled: 01/10/07 12:15 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A17005	01/17/07	01/17/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*169 %*	*60-120*		"	"	"	"	*ZX*
SB-4 (17.5-18) (MQA0437-18) Soil Sampled: 01/10/07 12:17 Received: 01/11/07 18:20									
Benzene	ND	0.050	mg/kg	1	7A18020	01/18/07	01/18/07	EPA 8260B	
Toluene	ND	0.050	"	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	"	
Xylenes (total)	ND	0.050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.025	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.025	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.025	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.025	"	"	"	"	"	"	
tert-Butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.025	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.025	"	"	"	"	"	"	
Ethanol	ND	10	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*94 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96 %*	*55-135*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*70-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*152 %*	*60-120*		"	"	"	"	*ZX*

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501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (19.5-20) (MQA0437-19) Soil Sampled: 01/10/07 12:20 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A17005	01/17/07	01/17/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*90 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*60-120*		"	"	"	"	
TR-1 (4.5-5) (MQA0437-20) Soil Sampled: 01/09/07 09:25 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82 %*	*60-120*		"	"	"	"	

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501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-1 (8-8.5) (MQA0437-21) Soil Sampled: 01/09/07 09:27 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92 %*	*60-120*		"	"	"	"	
TR-1 (9.5-10) (MQA0437-22) Soil Sampled: 01/09/07 09:30 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94 %*	*60-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-1 (14.5-15) (MQA0437-23) Soil Sampled: 01/09/07 09:40 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A17005	01/17/07	01/17/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*91 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*89 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94 %*		*60-120*	"	"	"	"	
TR-1 (19.5-20) (MQA0437-24) Soil Sampled: 01/09/07 09:45 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94 %*		*60-120*	"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-2 (4.5-5) (MQA0437-25) Soil Sampled: 01/09/07 13:05 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88 %*	*60-120*		"	"	"	"	
TR-2 (9.5-10) (MQA0437-26) Soil Sampled: 01/09/07 13:10 Received: 01/11/07 18:20									
Benzene	ND	25	ug/kg	5	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*60-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-2 (14.5-15) (MQA0437-27) Soil Sampled: 01/09/07 13:15 Received: 01/11/07 18:20									
Benzene	ND	25	ug/kg	5	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98 %*		*60-120*	"	"	"	"	
TR-2 (19.5-20) (MQA0437-28) Soil Sampled: 01/09/07 13:20 Received: 01/11/07 18:20									
Benzene	ND	25	ug/kg	5	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	25	"	"	"	"	"	"	
tert-Butyl alcohol	ND	100	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
Ethanol	ND	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*93 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*		*60-120*	"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-3 (4.5-5) (MQA0437-29) Soil Sampled: 01/09/07 11:30 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*94 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89 %*		*60-120*	"	"	"	"	
TR-3 (9.5-10) (MQA0437-30) Soil Sampled: 01/09/07 11:35 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*91 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*89 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96 %*		*60-120*	"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-3 (15-15.5) (MQA0437-31) Soil Sampled: 01/09/07 11:40 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15001	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*93 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*79 %*		*60-120*	"	"	"	"	
TR-3 (19.5-20) (MQA0437-32) Soil Sampled: 01/09/07 11:45 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*93 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92 %*		*60-120*	"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-4 (4.5-5) (MQA0437-33) Soil Sampled: 01/09/07 10:25 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92 %*	*60-120*		"	"	"	"	
TR-4 (9.5-10) (MQA0437-34) Soil Sampled: 01/09/07 10:35 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90 %*	*60-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-4 (14.5-15) (MQA0437-35) Soil Sampled: 01/09/07 10:40 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92 %*	*60-120*		"	"	"	"	
TR-4 (19.5-20) (MQA0437-36) Soil Sampled: 01/09/07 10:45 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91 %*	*60-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-4 (8.5-9) (MQA0437-37) Soil Sampled: 01/09/07 10:37 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87 %*		*60-120*	"	"	"	"	
TR-5 (4.5-5) (MQA0437-38) Soil Sampled: 01/09/07 14:35 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A17005	01/17/07	01/17/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97 %*		*45-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*94 %*		*55-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*68 %*		*60-120*	"	"	"	"	

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-5 (9.5-10) (MQA0437-39) Soil Sampled: 01/09/07 14:40 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*266 %*	*60-120*		"	"	"	"	*ZX*
TR-5 (14.5-15) (MQA0437-40) Soil Sampled: 01/09/07 14:45 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*484 %*	*60-120*		"	"	"	"	*ZX*

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-5 (19.5-20) (MQA0437-41) Soil Sampled: 01/09/07 14:50 Received: 01/11/07 18:20									
Benzene	ND	5.0	ug/kg	1	7A15017	01/15/07	01/16/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*93 %*	*45-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*94 %*	*55-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*60-120*		"	"	"	"	
SB-1 (MQA0437-42) Water Sampled: 01/10/07 16:10 Received: 01/11/07 18:20									**RL3**
Benzene	ND	250	ug/l	500	7A20006	01/20/07	01/21/07	EPA 8260B	
Toluene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
Xylenes (total)	ND	250	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Di-isopropyl ether	ND	250	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	250	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	250	"	"	"	"	"	"	
tert-Butyl alcohol	ND	10000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
Ethanol	ND	50000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96 %*	*75-130*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*86 %*	*60-145*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*70-130*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96 %*	*60-120*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-2 (MQA0437-43) Water Sampled: 01/10/07 16:45 Received: 01/11/07 18:20									**RL2**
Benzene	ND	1.0	ug/l	2	7A23020	01/23/07	01/24/07	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	**7.4**	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	40	"	"	"	"	"	"	
1,2-Dichloroethane	**1.1**	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Ethanol	ND	200	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*		*75-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*60-145*	"	"	"	"	
Surrogate: Toluene-d8		*97 %*		*70-130*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*125 %*		*60-120*	"	"	"	"	*ZX*
SB-3 (MQA0437-44) Water Sampled: 01/10/07 17:30 Received: 01/11/07 18:20									**RL2**
Benzene	ND	5.0	ug/l	10	7A23020	01/23/07	01/24/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	**13**	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	**6.3**	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98 %*		*75-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*90 %*		*60-145*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*70-130*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91 %*		*60-120*	"	"	"	"	

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-4 (MQA0437-45) Water Sampled: 01/10/07 17:15 Received: 01/11/07 18:20									**RL2**
Benzene	ND	1.0	ug/l	2	7A23020	01/23/07	01/24/07	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	**2.6**	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	1.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	40	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Ethanol	ND	200	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96 %*		*75-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*93 %*		*60-145*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*70-130*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*		*60-120*	"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A15001 - EPA 5030B P/T / LUFT GCMS										
Blank (7A15001-BLK1)				Prepared & Analyzed: 01/15/07						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg							
Surrogate: 1,2-Dichloroethane-d4	*5.24*		*"*	*5.00*		*105*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.44*		*"*	*5.00*		*89*	*60-120*			
Surrogate: Dibromofluoromethane	*4.74*		*"*	*5.00*		*95*	*45-130*			
Surrogate: Toluene-d8	*4.80*		*"*	*5.00*		*96*	*70-120*			
Laboratory Control Sample (7A15001-BS2)				Prepared & Analyzed: 01/15/07						
Gasoline Range Organics (C4-C12)	759	100	ug/kg	1000		76	75-140			
Surrogate: 1,2-Dichloroethane-d4	*5.00*		*"*	*5.00*		*100*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*5.08*		*"*	*5.00*		*102*	*60-120*			
Surrogate: Dibromofluoromethane	*4.76*		*"*	*5.00*		*95*	*45-130*			
Surrogate: Toluene-d8	*5.04*		*"*	*5.00*		*101*	*70-120*			
Laboratory Control Sample Dup (7A15001-BSD2)				Prepared & Analyzed: 01/15/07						
Gasoline Range Organics (C4-C12)	805	100	ug/kg	1000		80	75-140	6	35	
Surrogate: 1,2-Dichloroethane-d4	*4.98*		*"*	*5.00*		*100*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*5.22*		*"*	*5.00*		*104*	*60-120*			
Surrogate: Dibromofluoromethane	*4.58*		*"*	*5.00*		*92*	*45-130*			
Surrogate: Toluene-d8	*5.08*		*"*	*5.00*		*102*	*70-120*			
Batch 7A15017 - EPA 5030B P/T / LUFT GCMS										
Blank (7A15017-BLK1)				Prepared & Analyzed: 01/15/07						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg							
Surrogate: 1,2-Dichloroethane-d4	*4.74*		*"*	*5.00*		*95*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.62*		*"*	*5.00*		*92*	*60-120*			
Surrogate: Dibromofluoromethane	*4.58*		*"*	*5.00*		*92*	*45-130*			
Surrogate: Toluene-d8	*4.78*		*"*	*5.00*		*96*	*70-120*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A15017 - EPA 5030B P/T / LUFT GCMS										
Laboratory Control Sample (7A15017-BS2)				Prepared & Analyzed: 01/15/07						
Gasoline Range Organics (C4-C12)	821	100	ug/kg	1000		82	75-140			
Surrogate: 1,2-Dichloroethane-d4	*4.88*		"	*5.00*		*98*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*5.04*		"	*5.00*		*101*	*60-120*			
Surrogate: Dibromofluoromethane	*4.68*		"	*5.00*		*94*	*45-130*			
Surrogate: Toluene-d8	*4.96*		"	*5.00*		*99*	*70-120*			
Laboratory Control Sample Dup (7A15017-BSD2)				Prepared & Analyzed: 01/15/07						
Gasoline Range Organics (C4-C12)	868	100	ug/kg	1000		87	75-140	6	35	
Surrogate: 1,2-Dichloroethane-d4	*4.94*		"	*5.00*		*99*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*5.18*		"	*5.00*		*104*	*60-120*			
Surrogate: Dibromofluoromethane	*4.72*		"	*5.00*		*94*	*45-130*			
Surrogate: Toluene-d8	*5.04*		"	*5.00*		*101*	*70-120*			
Batch 7A16003 - EPA 5030B P/T / LUFT GCMS										
Blank (7A16003-BLK1)				Prepared & Analyzed: 01/16/07						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg							
Surrogate: 1,2-Dichloroethane-d4	*4.90*		"	*5.00*		*98*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.72*		"	*5.00*		*94*	*60-120*			
Surrogate: Dibromofluoromethane	*4.68*		"	*5.00*		*94*	*45-130*			
Surrogate: Toluene-d8	*4.84*		"	*5.00*		*97*	*70-120*			
Laboratory Control Sample (7A16003-BS2)				Prepared & Analyzed: 01/16/07						
Gasoline Range Organics (C4-C12)	827	100	ug/kg	1000		83	75-140			
Surrogate: 1,2-Dichloroethane-d4	*4.74*		"	*5.00*		*95*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*5.02*		"	*5.00*		*100*	*60-120*			
Surrogate: Dibromofluoromethane	*4.74*		"	*5.00*		*95*	*45-130*			
Surrogate: Toluene-d8	*5.00*		"	*5.00*		*100*	*70-120*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A16003 - EPA 5030B P/T / LUFT GCMS										
Laboratory Control Sample Dup (7A16003-BSD2)				Prepared & Analyzed: 01/16/07						
Gasoline Range Organics (C4-C12)	884	100	ug/kg	1000		88	75-140	7	35	
Surrogate: 1,2-Dichloroethane-d4	*4.82*		"	*5.00*		*96*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*5.00*		"	*5.00*		*100*	*60-120*			
Surrogate: Dibromofluoromethane	*4.72*		"	*5.00*		*94*	*45-130*			
Surrogate: Toluene-d8	*4.96*		"	*5.00*		*99*	*70-120*			
Batch 7A16035 - EPA 5030B P/T / LUFT GCMS										
Blank (7A16035-BLK1)				Prepared & Analyzed: 01/16/07						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg							
Surrogate: 1,2-Dichloroethane-d4	*4.66*		"	*5.00*		*93*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.72*		"	*5.00*		*94*	*60-120*			
Surrogate: Dibromofluoromethane	*4.82*		"	*5.00*		*96*	*45-130*			
Surrogate: Toluene-d8	*4.84*		"	*5.00*		*97*	*70-120*			
Laboratory Control Sample (7A16035-BS2)				Prepared & Analyzed: 01/16/07						
Gasoline Range Organics (C4-C12)	982	100	ug/kg	1000		98	75-140			
Surrogate: 1,2-Dichloroethane-d4	*4.80*		"	*5.00*		*96*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*5.52*		"	*5.00*		*110*	*60-120*			
Surrogate: Dibromofluoromethane	*4.72*		"	*5.00*		*94*	*45-130*			
Surrogate: Toluene-d8	*5.10*		"	*5.00*		*102*	*70-120*			
Laboratory Control Sample Dup (7A16035-BSD2)				Prepared & Analyzed: 01/16/07						
Gasoline Range Organics (C4-C12)	884	100	ug/kg	1000		88	75-140	11	35	
Surrogate: 1,2-Dichloroethane-d4	*5.00*		"	*5.00*		*100*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*5.08*		"	*5.00*		*102*	*60-120*			
Surrogate: Dibromofluoromethane	*4.72*		"	*5.00*		*94*	*45-130*			
Surrogate: Toluene-d8	*5.10*		"	*5.00*		*102*	*70-120*			

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A17005 - EPA 5030B P/T / LUFT GCMS										
Blank (7A17005-BLK1)				Prepared & Analyzed: 01/17/07						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg							
Surrogate: 1,2-Dichloroethane-d4	*4.90*		*"*	*5.00*		*98*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.64*		*"*	*5.00*		*93*	*60-120*			
Surrogate: Dibromofluoromethane	*4.72*		*"*	*5.00*		*94*	*45-130*			
Surrogate: Toluene-d8	*4.82*		*"*	*5.00*		*96*	*70-120*			
Laboratory Control Sample (7A17005-BS2)				Prepared & Analyzed: 01/17/07						
Gasoline Range Organics (C4-C12)	918	100	ug/kg	1000		92	75-140			
Surrogate: 1,2-Dichloroethane-d4	*4.96*		*"*	*5.00*		*99*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*5.06*		*"*	*5.00*		*101*	*60-120*			
Surrogate: Dibromofluoromethane	*4.94*		*"*	*5.00*		*99*	*45-130*			
Surrogate: Toluene-d8	*5.08*		*"*	*5.00*		*102*	*70-120*			
Laboratory Control Sample Dup (7A17005-BSD2)				Prepared & Analyzed: 01/17/07						
Gasoline Range Organics (C4-C12)	924	100	ug/kg	1000		92	75-140	0.7	35	
Surrogate: 1,2-Dichloroethane-d4	*4.76*		*"*	*5.00*		*95*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*5.32*		*"*	*5.00*		*106*	*60-120*			
Surrogate: Dibromofluoromethane	*4.72*		*"*	*5.00*		*94*	*45-130*			
Surrogate: Toluene-d8	*5.04*		*"*	*5.00*		*101*	*70-120*			
Batch 7A18003 - EPA 5030B P/T / LUFT GCMS										
Blank (7A18003-BLK1)				Prepared & Analyzed: 01/18/07						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg							
Surrogate: 1,2-Dichloroethane-d4	*4.98*		*"*	*5.00*		*100*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.76*		*"*	*5.00*		*95*	*60-120*			
Surrogate: Dibromofluoromethane	*4.76*		*"*	*5.00*		*95*	*45-130*			
Surrogate: Toluene-d8	*4.92*		*"*	*5.00*		*98*	*70-120*			

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A18003 - EPA 5030B P/T / LUFT GCMS										
Laboratory Control Sample (7A18003-BS2)				Prepared & Analyzed: 01/18/07						
Gasoline Range Organics (C4-C12)	816	100	ug/kg	1000		82	75-140			
Surrogate: 1,2-Dichloroethane-d4	*4.84*		"	*5.00*		*97*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*5.04*		"	*5.00*		*101*	*60-120*			
Surrogate: Dibromofluoromethane	*4.78*		"	*5.00*		*96*	*45-130*			
Surrogate: Toluene-d8	*5.00*		"	*5.00*		*100*	*70-120*			
Laboratory Control Sample Dup (7A18003-BSD2)				Prepared & Analyzed: 01/18/07						
Gasoline Range Organics (C4-C12)	823	100	ug/kg	1000		82	75-140	0.9	35	
Surrogate: 1,2-Dichloroethane-d4	*5.10*		"	*5.00*		*102*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*5.04*		"	*5.00*		*101*	*60-120*			
Surrogate: Dibromofluoromethane	*4.74*		"	*5.00*		*95*	*45-130*			
Surrogate: Toluene-d8	*5.00*		"	*5.00*		*100*	*70-120*			
Batch 7A18020 - EPA 5030B/5035A MeOH / LUFT GCMS										
Blank (7A18020-BLK1)				Prepared & Analyzed: 01/18/07						
Gasoline Range Organics (C4-C12)	ND	2.5	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	*0.00232*		"	*0.00250*		*93*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*0.00239*		"	*0.00250*		*96*	*60-120*			
Surrogate: Dibromofluoromethane	*0.00231*		"	*0.00250*		*92*	*45-130*			
Surrogate: Toluene-d8	*0.00246*		"	*0.00250*		*98*	*70-120*			
Laboratory Control Sample (7A18020-BS2)				Prepared: 01/18/07 Analyzed: 01/19/07						
Gasoline Range Organics (C4-C12)	42.5	2.5	mg/kg	40.0		106	75-140			
Surrogate: 1,2-Dichloroethane-d4	*0.00241*		"	*0.00250*		*96*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*0.00266*		"	*0.00250*		*106*	*60-120*			
Surrogate: Dibromofluoromethane	*0.00238*		"	*0.00250*		*95*	*45-130*			
Surrogate: Toluene-d8	*0.00252*		"	*0.00250*		*101*	*70-120*			

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A18020 - EPA 5030B/5035A MeOH / LUFT GCMS										
Laboratory Control Sample Dup (7A18020-BSD2)				Prepared: 01/18/07 Analyzed: 01/19/07						
Gasoline Range Organics (C4-C12)	39.8	2.5	mg/kg	40.0		100	75-140	7	35	
Surrogate: 1,2-Dichloroethane-d4	*0.00242*		*"*	*0.00250*		*97*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*0.00266*		*"*	*0.00250*		*106*	*60-120*			
Surrogate: Dibromofluoromethane	*0.00236*		*"*	*0.00250*		*94*	*45-130*			
Surrogate: Toluene-d8	*0.00257*		*"*	*0.00250*		*103*	*70-120*			
Batch 7A20006 - EPA 5030B P/T / LUFT GCMS										
Blank (7A20006-BLK1)				Prepared & Analyzed: 01/20/07						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*2.06*		*"*	*2.50*		*82*	*60-145*			
Laboratory Control Sample (7A20006-BS2)				Prepared & Analyzed: 01/20/07						
Gasoline Range Organics (C4-C12)	370	50	ug/l	500		74	75-140			L2
Surrogate: 1,2-Dichloroethane-d4	*2.17*		*"*	*2.50*		*87*	*60-145*			
Laboratory Control Sample Dup (7A20006-BSD2)				Prepared & Analyzed: 01/20/07						
Gasoline Range Organics (C4-C12)	380	50	ug/l	500		76	75-140	3	20	
Surrogate: 1,2-Dichloroethane-d4	*2.20*		*"*	*2.50*		*88*	*60-145*			
Batch 7A23020 - EPA 5030B P/T / LUFT GCMS										
Blank (7A23020-BLK1)				Prepared: 01/23/07 Analyzed: 01/24/07						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*2.20*		*"*	*2.50*		*88*	*60-145*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A23020 - EPA 5030B P/T / LUFT GCMS										
Laboratory Control Sample (7A23020-BS2)				Prepared & Analyzed: 01/23/07						
Gasoline Range Organics (C4-C12)	410	50	ug/l	500		82	75-140			
Surrogate: 1,2-Dichloroethane-d4	*2.30*		*"*	*2.50*		*92*	*60-145*			
Laboratory Control Sample Dup (7A23020-BSD2)				Prepared & Analyzed: 01/23/07						
Gasoline Range Organics (C4-C12)	446	50	ug/l	500		89	75-140	8	20	
Surrogate: 1,2-Dichloroethane-d4	*2.38*		*"*	*2.50*		*95*	*60-145*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Extractable Hydrocarbons by EPA 8015B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A16006 - EPA 3510C / EPA 8015B-SVOA										
Blank (7A16006-BLK1)				Prepared & Analyzed: 01/16/07						
Diesel Range Organics (C10-C28)	ND	50	ug/l							
Surrogate: n-Octacosane	*38.6*		*"*	*50.0*		*77*	*30-115*			
Laboratory Control Sample (7A16006-BS1)				Prepared & Analyzed: 01/16/07						
Diesel Range Organics (C10-C28)	306	50	ug/l	500		61	40-140			
Surrogate: n-Octacosane	*34.2*		*"*	*50.0*		*68*	*30-115*			
Laboratory Control Sample Dup (7A16006-BSD1)				Prepared & Analyzed: 01/16/07						
Diesel Range Organics (C10-C28)	298	50	ug/l	500		60	40-140	3	35	
Surrogate: n-Octacosane	*34.2*		*"*	*50.0*		*68*	*30-115*			
Batch 7A22024 - EPA 3550B / EPA 8015B-SVOA										
Blank (7A22024-BLK1)				Prepared: 01/22/07 Analyzed: 01/23/07						
Diesel Range Organics (C10-C28)	ND	1.0	mg/kg							
Surrogate: n-Octacosane	*1.52*		*"*	*1.67*		*91*	*40-120*			
Laboratory Control Sample (7A22024-BS1)				Prepared: 01/22/07 Analyzed: 01/23/07						
Diesel Range Organics (C10-C28)	16.2	1.0	mg/kg	16.7		97	60-115			
Surrogate: n-Octacosane	*1.95*		*"*	*1.67*		*117*	*40-120*			
Matrix Spike (7A22024-MS1)	**Source: MQA0437-23**			Prepared: 01/22/07 Analyzed: 01/23/07						
Diesel Range Organics (C10-C28)	15.1	1.0	mg/kg	16.7	2.4	76	60-115			
Surrogate: n-Octacosane	*1.78*		*"*	*1.67*		*107*	*40-120*			
Matrix Spike Dup (7A22024-MSD1)	**Source: MQA0437-23**			Prepared: 01/22/07 Analyzed: 01/23/07						
Diesel Range Organics (C10-C28)	13.8	1.0	mg/kg	16.7	2.4	68	60-115	9	40	
Surrogate: n-Octacosane	*1.73*		*"*	*1.67*		*104*	*40-120*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Extractable Hydrocarbons by EPA 8015B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A23027 - EPA 3550B Sonic / EPA 8015B-SVOA										
Blank (7A23027-BLK1)				Prepared: 01/23/07 Analyzed: 01/24/07						
Diesel Range Organics (C10-C28)	ND	1.0	mg/kg							
Surrogate: n-Octacosane	*1.49*		*"*	*1.67*		*89*	*40-120*			
Laboratory Control Sample (7A23027-BS1)				Prepared: 01/23/07 Analyzed: 01/24/07						
Diesel Range Organics (C10-C28)	16.6	1.0	mg/kg	16.7		99	60-115			
Surrogate: n-Octacosane	*1.54*		*"*	*1.67*		*92*	*40-120*			
Matrix Spike (7A23027-MS1)	**Source: MQA0437-41**			Prepared: 01/23/07 Analyzed: 01/24/07						
Diesel Range Organics (C10-C28)	25.4	1.0	mg/kg	16.7	6.8	111	60-115			
Surrogate: n-Octacosane	*1.76*		*"*	*1.67*		*105*	*40-120*			
Matrix Spike Dup (7A23027-MSD1)	**Source: MQA0437-41**			Prepared: 01/23/07 Analyzed: 01/24/07						
Diesel Range Organics (C10-C28)	39.9	1.0	mg/kg	16.7	6.8	198	60-115	44	40	R2, M7
Surrogate: n-Octacosane	*1.88*		*"*	*1.67*		*113*	*40-120*			
Batch 7A24006 - EPA 3550B / EPA 8015B-SVOA										
Blank (7A24006-BLK1)				Prepared: 01/24/07 Analyzed: 01/25/07						
Diesel Range Organics (C10-C28)	ND	1.0	mg/kg							
Surrogate: n-Octacosane	*1.63*		*"*	*1.67*		*98*	*40-120*			
Laboratory Control Sample (7A24006-BS1)				Prepared: 01/24/07 Analyzed: 01/25/07						
Diesel Range Organics (C10-C28)	16.6	1.0	mg/kg	16.7		99	60-115			
Surrogate: n-Octacosane	*1.57*		*"*	*1.67*		*94*	*40-120*			
Matrix Spike (7A24006-MS1)	**Source: MQA0691-03**			Prepared: 01/24/07 Analyzed: 01/25/07						
Diesel Range Organics (C10-C28)	17.2	1.0	mg/kg	16.7	0.96	97	60-115			
Surrogate: n-Octacosane	*1.77*		*"*	*1.67*		*106*	*40-120*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Extractable Hydrocarbons by EPA 8015B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A24006 - EPA 3550B / EPA 8015B-SVOA										
Matrix Spike Dup (7A24006-MSD1)	**Source: MQA0691-03**			Prepared: 01/24/07 Analyzed: 01/25/07						
Diesel Range Organics (C10-C28)	16.1	1.0	mg/kg	16.7	0.96	91	60-115	7	40	
Surrogate: n-Octacosane	*1.73*		*"*	*1.67*		*104*	*40-120*			

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Metals by EPA 6000/7000 Series Methods - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A17033 - EPA 3005A / EPA 6010B										
Blank (7A17033-BLK1)				Prepared: 01/17/07 Analyzed: 01/18/07						
Lead	ND	0.10	mg/l							C
Laboratory Control Sample (7A17033-BS1)				Prepared: 01/17/07 Analyzed: 01/18/07						
Lead	1.04	0.10	mg/l	1.00		104	80-120			C
Matrix Spike (7A17033-MS1)	**Source: MQA0546-01**			Prepared: 01/17/07 Analyzed: 01/18/07						
Lead	1.18	0.10	mg/l	1.00	ND	118	80-120			C
Matrix Spike Dup (7A17033-MSD1)	**Source: MQA0546-01**			Prepared: 01/17/07 Analyzed: 01/18/07						
Lead	1.22	0.10	mg/l	1.00	ND	122	80-120	3	20	C, M7
Batch 7A18032 - EPA 3050B / EPA 6010B										
Blank (7A18032-BLK1)				Prepared: 01/18/07 Analyzed: 01/20/07						
Lead	ND	5.0	mg/kg							
Laboratory Control Sample (7A18032-BS1)				Prepared: 01/18/07 Analyzed: 01/19/07						
Lead	43.1	5.0	mg/kg	50.0		86	75-120			
Matrix Spike (7A18032-MS1)	**Source: MQA0476-01**			Prepared: 01/18/07 Analyzed: 01/19/07						
Lead	60.2	5.0	mg/kg	50.0	19	82	75-120			
Matrix Spike Dup (7A18032-MSD1)	**Source: MQA0476-01**			Prepared: 01/18/07 Analyzed: 01/19/07						
Lead	65.0	5.0	mg/kg	50.0	19	92	75-120	8	25	
Batch 7A18040 - EPA 3050B / EPA 6010B										
Blank (7A18040-BLK1)				Prepared: 01/18/07 Analyzed: 01/20/07						
Lead	ND	5.0	mg/kg							

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Total Metals by EPA 6000/7000 Series Methods - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A18040 - EPA 3050B / EPA 6010B										
Laboratory Control Sample (7A18040-BS1)				Prepared: 01/18/07 Analyzed: 01/20/07						
Lead	50.9	5.0	mg/kg	50.0		102	75-120			
Matrix Spike (7A18040-MS1)	**Source: MQA0437-20**			Prepared: 01/18/07 Analyzed: 01/20/07						
Lead	66.7	5.0	mg/kg	50.0	22	89	75-120			
Matrix Spike Dup (7A18040-MSD1)	**Source: MQA0437-20**			Prepared: 01/18/07 Analyzed: 01/20/07						
Lead	61.8	5.0	mg/kg	50.0	22	80	75-120	8	25	
Batch 7A19031 - EPA 3050B / EPA 6010B										
Blank (7A19031-BLK1)				Prepared: 01/19/07 Analyzed: 01/23/07						
Lead	ND	5.0	mg/kg							
Laboratory Control Sample (7A19031-BS1)				Prepared: 01/19/07 Analyzed: 01/23/07						
Lead	48.6	5.0	mg/kg	50.0		97	75-120			
Matrix Spike (7A19031-MS1)	**Source: MQA0444-01**			Prepared: 01/19/07 Analyzed: 01/23/07						
Lead	129	5.0	mg/kg	50.0	86	86	75-120			
Matrix Spike Dup (7A19031-MSD1)	**Source: MQA0444-01**			Prepared: 01/19/07 Analyzed: 01/23/07						
Lead	150	5.0	mg/kg	50.0	86	128	75-120	15	25	M7

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A15001 - EPA 5030B P/T / EPA 8260B										
Blank (7A15001-BLK1)				Prepared & Analyzed: 01/15/07						
Benzene	ND	5.0	ug/kg							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
Xylenes (total)	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Di-isopropyl ether	ND	5.0	"							
Ethyl tert-butyl ether	ND	5.0	"							
tert-Amyl methyl ether	ND	5.0	"							
tert-Butyl alcohol	ND	20	"							
1,2-Dichloroethane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Ethanol	ND	100	"							
Surrogate: Dibromofluoromethane	*4.74*		*"*	*5.00*		*95*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*5.24*		*"*	*5.00*		*105*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.44*		*"*	*5.00*		*89*	*60-120*			
Laboratory Control Sample (7A15001-BS1)				Prepared & Analyzed: 01/15/07						
Benzene	19.9	5.0	ug/kg	20.0		100	70-130			
Toluene	19.7	5.0	"	20.0		98	75-130			
Ethylbenzene	18.6	5.0	"	20.0		93	75-130			
Xylenes (total)	56.3	5.0	"	60.0		94	75-135			
Methyl tert-butyl ether	18.5	5.0	"	20.0		92	75-130			
Di-isopropyl ether	20.5	5.0	"	20.0		102	70-130			
Ethyl tert-butyl ether	18.7	5.0	"	20.0		94	70-125			
tert-Amyl methyl ether	18.2	5.0	"	20.0		91	65-140			
tert-Butyl alcohol	378	20	"	400		94	75-130			
1,2-Dichloroethane	19.0	5.0	"	20.0		95	70-120			
1,2-Dibromoethane (EDB)	18.8	5.0	"	20.0		94	80-135			
Ethanol	507	100	"	400		127	50-150			
Surrogate: Dibromofluoromethane	*4.84*		*"*	*5.00*		*97*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.94*		*"*	*5.00*		*99*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.66*		*"*	*5.00*		*93*	*60-120*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A15001 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (7A15001-MS1)	**Source: MQA0437-20**			Prepared & Analyzed: 01/15/07						**MCP**
Benzene	21.0	5.0	ug/kg	20.0	0.38	103	70-130			
Toluene	20.6	5.0	"	20.0	0.74	99	75-130			
Ethylbenzene	18.9	5.0	"	20.0	ND	94	75-130			
Xylenes (total)	58.3	5.0	"	60.0	ND	97	75-135			
Methyl tert-butyl ether	20.7	5.0	"	20.0	ND	104	75-130			
Di-isopropyl ether	23.0	5.0	"	20.0	ND	115	70-130			
Ethyl tert-butyl ether	21.2	5.0	"	20.0	ND	106	70-125			
tert-Amyl methyl ether	21.1	5.0	"	20.0	ND	106	65-140			
tert-Butyl alcohol	377	20	"	400	ND	94	75-130			
1,2-Dichloroethane	21.0	5.0	"	20.0	ND	105	70-120			
1,2-Dibromoethane (EDB)	20.9	5.0	"	20.0	ND	104	80-135			
Ethanol	491	100	"	400	ND	123	50-150			
Surrogate: Dibromofluoromethane	*4.98*		*"*	*5.00*		*100*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*5.26*		*"*	*5.00*		*105*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.78*		*"*	*5.00*		*96*	*60-120*			
Batch 7A15017 - EPA 5030B P/T / EPA 8260B										
Blank (7A15017-BLK1)				Prepared & Analyzed: 01/15/07						
Benzene	ND	5.0	ug/kg							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
Xylenes (total)	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Di-isopropyl ether	ND	5.0	"							
Ethyl tert-butyl ether	ND	5.0	"							
tert-Amyl methyl ether	ND	5.0	"							
tert-Butyl alcohol	ND	20	"							
1,2-Dichloroethane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Ethanol	ND	100	"							
Surrogate: Dibromofluoromethane	*4.58*		*"*	*5.00*		*92*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.74*		*"*	*5.00*		*95*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.62*		*"*	*5.00*		*92*	*60-120*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A15017 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample (7A15017-BS1)				Prepared & Analyzed: 01/15/07						
Benzene	19.9	5.0	ug/kg	20.0		100	70-130			
Toluene	19.2	5.0	"	20.0		96	75-130			
Ethylbenzene	18.1	5.0	"	20.0		90	75-130			
Xylenes (total)	54.2	5.0	"	60.0		90	75-135			
Methyl tert-butyl ether	18.0	5.0	"	20.0		90	75-130			
Di-isopropyl ether	20.9	5.0	"	20.0		104	70-130			
Ethyl tert-butyl ether	18.5	5.0	"	20.0		92	70-125			
tert-Amyl methyl ether	17.8	5.0	"	20.0		89	65-140			
tert-Butyl alcohol	337	20	"	400		84	75-130			
1,2-Dichloroethane	17.4	5.0	"	20.0		87	70-120			
1,2-Dibromoethane (EDB)	17.6	5.0	"	20.0		88	80-135			
Ethanol	446	100	"	400		112	50-150			
Surrogate: Dibromofluoromethane	*4.78*		*"*	*5.00*		*96*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.72*		*"*	*5.00*		*94*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.64*		*"*	*5.00*		*93*	*60-120*			
Matrix Spike (7A15017-MS1)	**Source: MQA0437-36**			Prepared: 01/15/07 Analyzed: 01/16/07						
Benzene	24.2	5.0	ug/kg	20.0	ND	121	70-130			
Toluene	23.8	5.0	"	20.0	ND	119	75-130			
Ethylbenzene	21.7	5.0	"	20.0	ND	108	75-130			
Xylenes (total)	65.5	5.0	"	60.0	ND	109	75-135			
Methyl tert-butyl ether	22.6	5.0	"	20.0	ND	113	75-130			
Di-isopropyl ether	25.4	5.0	"	20.0	ND	127	70-130			
Ethyl tert-butyl ether	23.3	5.0	"	20.0	ND	116	70-125			
tert-Amyl methyl ether	24.3	5.0	"	20.0	ND	122	65-140			
tert-Butyl alcohol	441	20	"	400	ND	110	75-130			
1,2-Dichloroethane	24.0	5.0	"	20.0	ND	120	70-120			
1,2-Dibromoethane (EDB)	22.8	5.0	"	20.0	ND	114	80-135			
Ethanol	550	100	"	400	ND	138	50-150			
Surrogate: Dibromofluoromethane	*5.06*		*"*	*5.00*		*101*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*5.18*		*"*	*5.00*		*104*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.76*		*"*	*5.00*		*95*	*60-120*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A15017 - EPA 5030B P/T / EPA 8260B										
Matrix Spike Dup (7A15017-MSD1)	**Source: MQA0437-36**			Prepared: 01/15/07 Analyzed: 01/16/07						
Benzene	23.3	5.0	ug/kg	20.0	ND	116	70-130	4	25	
Toluene	23.1	5.0	"	20.0	ND	116	75-130	3	20	
Ethylbenzene	20.9	5.0	"	20.0	ND	104	75-130	4	30	
Xylenes (total)	63.3	5.0	"	60.0	ND	106	75-135	3	25	
Methyl tert-butyl ether	21.5	5.0	"	20.0	ND	108	75-130	5	25	
Di-isopropyl ether	24.7	5.0	"	20.0	ND	124	70-130	3	40	
Ethyl tert-butyl ether	22.4	5.0	"	20.0	ND	112	70-125	4	30	
tert-Amyl methyl ether	23.2	5.0	"	20.0	ND	116	65-140	5	25	
tert-Butyl alcohol	407	20	"	400	ND	102	75-130	8	25	
1,2-Dichloroethane	22.8	5.0	"	20.0	ND	114	70-120	5	30	
1,2-Dibromoethane (EDB)	21.3	5.0	"	20.0	ND	106	80-135	7	20	
Ethanol	521	100	"	400	ND	130	50-150	5	30	
Surrogate: Dibromofluoromethane	*5.00*		*"*	*5.00*		*100*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.94*		*"*	*5.00*		*99*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.86*		*"*	*5.00*		*97*	*60-120*			
Batch 7A16003 - EPA 5030B P/T / EPA 8260B										
Blank (7A16003-BLK1)				Prepared & Analyzed: 01/16/07						
Benzene	ND	5.0	ug/kg							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
Xylenes (total)	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Di-isopropyl ether	ND	5.0	"							
Ethyl tert-butyl ether	ND	5.0	"							
tert-Amyl methyl ether	ND	5.0	"							
tert-Butyl alcohol	ND	20	"							
1,2-Dichloroethane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Ethanol	ND	100	"							
Surrogate: Dibromofluoromethane	*4.68*		*"*	*5.00*		*94*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.90*		*"*	*5.00*		*98*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.72*		*"*	*5.00*		*94*	*60-120*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A16003 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample (7A16003-BS1)				Prepared & Analyzed: 01/16/07						
Benzene	21.8	5.0	ug/kg	20.0		109	70-130			
Toluene	21.3	5.0	"	20.0		106	75-130			
Ethylbenzene	19.5	5.0	"	20.0		98	75-130			
Xylenes (total)	59.4	5.0	"	60.0		99	75-135			
Methyl tert-butyl ether	20.3	5.0	"	20.0		102	75-130			
Di-isopropyl ether	22.7	5.0	"	20.0		114	70-130			
Ethyl tert-butyl ether	20.7	5.0	"	20.0		104	70-125			
tert-Amyl methyl ether	20.6	5.0	"	20.0		103	65-140			
tert-Butyl alcohol	389	20	"	400		97	75-130			
1,2-Dichloroethane	19.5	5.0	"	20.0		98	70-120			
1,2-Dibromoethane (EDB)	20.6	5.0	"	20.0		103	80-135			
Ethanol	406	100	"	400		102	50-150			
Surrogate: Dibromofluoromethane	*4.78*		*"*	*5.00*		*96*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.76*		*"*	*5.00*		*95*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.64*		*"*	*5.00*		*93*	*60-120*			
Matrix Spike (7A16003-MS1)	**Source: MQA0437-04**			Prepared & Analyzed: 01/16/07						
Benzene	22.6	5.0	ug/kg	20.0	ND	113	70-130			
Toluene	21.7	5.0	"	20.0	ND	108	75-130			
Ethylbenzene	20.7	5.0	"	20.0	ND	104	75-130			
Xylenes (total)	63.2	5.0	"	60.0	ND	105	75-135			
Methyl tert-butyl ether	20.6	5.0	"	20.0	ND	103	75-130			
Di-isopropyl ether	24.3	5.0	"	20.0	ND	122	70-130			
Ethyl tert-butyl ether	21.6	5.0	"	20.0	ND	108	70-125			
tert-Amyl methyl ether	21.0	5.0	"	20.0	ND	105	65-140			
tert-Butyl alcohol	394	20	"	400	ND	98	75-130			
1,2-Dichloroethane	19.0	5.0	"	20.0	ND	95	70-120			
1,2-Dibromoethane (EDB)	18.9	5.0	"	20.0	ND	94	80-135			
Ethanol	428	100	"	400	ND	107	50-150			
Surrogate: Dibromofluoromethane	*4.76*		*"*	*5.00*		*95*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.46*		*"*	*5.00*		*89*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.60*		*"*	*5.00*		*92*	*60-120*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A16003 - EPA 5030B P/T / EPA 8260B										
Matrix Spike Dup (7A16003-MSD1)	**Source: MQA0437-04**			Prepared & Analyzed: 01/16/07						
Benzene	20.8	5.0	ug/kg	20.0	ND	104	70-130	8	25	
Toluene	19.5	5.0	"	20.0	ND	98	75-130	11	20	
Ethylbenzene	19.4	5.0	"	20.0	ND	97	75-130	6	30	
Xylenes (total)	59.4	5.0	"	60.0	ND	99	75-135	6	25	
Methyl tert-butyl ether	18.8	5.0	"	20.0	ND	94	75-130	9	25	
Di-isopropyl ether	22.2	5.0	"	20.0	ND	111	70-130	9	40	
Ethyl tert-butyl ether	19.6	5.0	"	20.0	ND	98	70-125	10	30	
tert-Amyl methyl ether	19.3	5.0	"	20.0	ND	96	65-140	8	25	
tert-Butyl alcohol	362	20	"	400	ND	90	75-130	8	25	
1,2-Dichloroethane	17.3	5.0	"	20.0	ND	86	70-120	9	30	
1,2-Dibromoethane (EDB)	16.6	5.0	"	20.0	ND	83	80-135	13	20	
Ethanol	352	100	"	400	ND	88	50-150	19	30	
Surrogate: Dibromofluoromethane	*4.74*		*"*	*5.00*		*95*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.64*		*"*	*5.00*		*93*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.30*		*"*	*5.00*		*86*	*60-120*			
Batch 7A16035 - EPA 5030B P/T / EPA 8260B										
Blank (7A16035-BLK1)				Prepared & Analyzed: 01/16/07						
Benzene	ND	5.0	ug/kg							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
Xylenes (total)	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Di-isopropyl ether	ND	5.0	"							
Ethyl tert-butyl ether	ND	5.0	"							
tert-Amyl methyl ether	ND	5.0	"							
tert-Butyl alcohol	ND	20	"							
1,2-Dichloroethane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Ethanol	ND	100	"							
Surrogate: Dibromofluoromethane	*4.82*		*"*	*5.00*		*96*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.66*		*"*	*5.00*		*93*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.72*		*"*	*5.00*		*94*	*60-120*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A16035 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample (7A16035-BS1)				Prepared & Analyzed: 01/16/07						
Benzene	22.0	5.0	ug/kg	20.0		110	70-130			
Toluene	21.4	5.0	"	20.0		107	75-130			
Ethylbenzene	20.0	5.0	"	20.0		100	75-130			
Xylenes (total)	60.4	5.0	"	60.0		101	75-135			
Methyl tert-butyl ether	19.2	5.0	"	20.0		96	75-130			
Di-isopropyl ether	22.0	5.0	"	20.0		110	70-130			
Ethyl tert-butyl ether	20.2	5.0	"	20.0		101	70-125			
tert-Amyl methyl ether	20.0	5.0	"	20.0		100	65-140			
tert-Butyl alcohol	389	20	"	400		97	75-130			
1,2-Dichloroethane	18.9	5.0	"	20.0		94	70-120			
1,2-Dibromoethane (EDB)	19.5	5.0	"	20.0		98	80-135			
Ethanol	419	100	"	400		105	50-150			
Surrogate: Dibromofluoromethane	*4.64*		*"*	*5.00*		*93*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.38*		*"*	*5.00*		*88*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.74*		*"*	*5.00*		*95*	*60-120*			
Matrix Spike (7A16035-MS1)	**Source: MQA0442-01**			Prepared: 01/16/07 Analyzed: 01/17/07						
Benzene	24.3	5.0	ug/kg	20.0	ND	122	70-130			
Toluene	24.1	5.0	"	20.0	0.28	119	75-130			
Ethylbenzene	22.3	5.0	"	20.0	ND	112	75-130			
Xylenes (total)	67.3	5.0	"	60.0	ND	112	75-135			
Methyl tert-butyl ether	22.5	5.0	"	20.0	ND	112	75-130			
Di-isopropyl ether	25.1	5.0	"	20.0	ND	126	70-130			
Ethyl tert-butyl ether	22.9	5.0	"	20.0	ND	114	70-125			
tert-Amyl methyl ether	22.3	5.0	"	20.0	ND	112	65-140			
tert-Butyl alcohol	415	20	"	400	ND	104	75-130			
1,2-Dichloroethane	22.1	5.0	"	20.0	ND	110	70-120			
1,2-Dibromoethane (EDB)	21.8	5.0	"	20.0	ND	109	80-135			
Ethanol	515	100	"	400	ND	129	50-150			
Surrogate: Dibromofluoromethane	*4.88*		*"*	*5.00*		*98*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.90*		*"*	*5.00*		*98*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.58*		*"*	*5.00*		*92*	*60-120*			

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A16035 - EPA 5030B P/T / EPA 8260B										
Matrix Spike Dup (7A16035-MSD1)	**Source: MQA0442-01**			Prepared: 01/16/07 Analyzed: 01/17/07						
Benzene	20.8	5.0	ug/kg	20.0	ND	104	70-130	16	25	
Toluene	20.4	5.0	"	20.0	0.28	101	75-130	17	20	
Ethylbenzene	19.1	5.0	"	20.0	ND	96	75-130	15	30	
Xylenes (total)	58.4	5.0	"	60.0	ND	97	75-135	14	25	
Methyl tert-butyl ether	19.3	5.0	"	20.0	ND	96	75-130	15	25	
Di-isopropyl ether	21.5	5.0	"	20.0	ND	108	70-130	15	40	
Ethyl tert-butyl ether	19.7	5.0	"	20.0	ND	98	70-125	15	30	
tert-Amyl methyl ether	19.5	5.0	"	20.0	ND	98	65-140	13	25	
tert-Butyl alcohol	374	20	"	400	ND	94	75-130	10	25	
1,2-Dichloroethane	19.4	5.0	"	20.0	ND	97	70-120	13	30	
1,2-Dibromoethane (EDB)	18.9	5.0	"	20.0	ND	94	80-135	14	20	
Ethanol	469	100	"	400	ND	117	50-150	9	30	
Surrogate: Dibromofluoromethane	*4.78*		*"*	*5.00*		*96*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.98*		*"*	*5.00*		*100*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.50*		*"*	*5.00*		*90*	*60-120*			
Batch 7A17005 - EPA 5030B P/T / EPA 8260B										
Blank (7A17005-BLK1)				Prepared & Analyzed: 01/17/07						
Benzene	ND	5.0	ug/kg							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
Xylenes (total)	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Di-isopropyl ether	ND	5.0	"							
Ethyl tert-butyl ether	ND	5.0	"							
tert-Amyl methyl ether	ND	5.0	"							
tert-Butyl alcohol	ND	20	"							
1,2-Dichloroethane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Ethanol	ND	100	"							
Surrogate: Dibromofluoromethane	*4.72*		*"*	*5.00*		*94*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.90*		*"*	*5.00*		*98*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.64*		*"*	*5.00*		*93*	*60-120*			

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A17005 - EPA 5030B P/T / EPA 8260B										
Laboratory Control Sample (7A17005-BS1)				Prepared & Analyzed: 01/17/07						
Benzene	23.6	5.0	ug/kg	20.0		118	70-130			
Toluene	23.1	5.0	"	20.0		116	75-130			
Ethylbenzene	20.8	5.0	"	20.0		104	75-130			
Xylenes (total)	63.7	5.0	"	60.0		106	75-135			
Methyl tert-butyl ether	22.3	5.0	"	20.0		112	75-130			
Di-isopropyl ether	25.0	5.0	"	20.0		125	70-130			
Ethyl tert-butyl ether	23.0	5.0	"	20.0		115	70-125			
tert-Amyl methyl ether	23.9	5.0	"	20.0		120	65-140			
tert-Butyl alcohol	418	20	"	400		104	75-130			
1,2-Dichloroethane	21.1	5.0	"	20.0		106	70-120			
1,2-Dibromoethane (EDB)	21.6	5.0	"	20.0		108	80-135			
Ethanol	526	100	"	400		132	50-150			
Surrogate: Dibromofluoromethane	*4.96*		*"*	*5.00*		*99*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.68*		*"*	*5.00*		*94*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.62*		*"*	*5.00*		*92*	*60-120*			
Matrix Spike (7A17005-MS1)	**Source: MQA0437-19**			Prepared & Analyzed: 01/17/07						
Benzene	21.7	5.0	ug/kg	20.0	ND	108	70-130			
Toluene	21.2	5.0	"	20.0	ND	106	75-130			
Ethylbenzene	19.8	5.0	"	20.0	ND	99	75-130			
Xylenes (total)	60.2	5.0	"	60.0	ND	100	75-135			
Methyl tert-butyl ether	20.4	5.0	"	20.0	ND	102	75-130			
Di-isopropyl ether	23.5	5.0	"	20.0	ND	118	70-130			
Ethyl tert-butyl ether	21.3	5.0	"	20.0	ND	106	70-125			
tert-Amyl methyl ether	21.2	5.0	"	20.0	ND	106	65-140			
tert-Butyl alcohol	381	20	"	400	ND	95	75-130			
1,2-Dichloroethane	18.9	5.0	"	20.0	ND	94	70-120			
1,2-Dibromoethane (EDB)	20.1	5.0	"	20.0	ND	100	80-135			
Ethanol	393	100	"	400	ND	98	50-150			
Surrogate: Dibromofluoromethane	*4.76*		*"*	*5.00*		*95*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.58*		*"*	*5.00*		*92*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.66*		*"*	*5.00*		*93*	*60-120*			

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A17005 - EPA 5030B P/T / EPA 8260B										
Matrix Spike Dup (7A17005-MSD1)	**Source: MQA0437-19**			Prepared & Analyzed: 01/17/07						
Benzene	22.3	5.0	ug/kg	20.0	ND	112	70-130	3	25	
Toluene	21.3	5.0	"	20.0	ND	106	75-130	0.5	20	
Ethylbenzene	20.1	5.0	"	20.0	ND	100	75-130	2	30	
Xylenes (total)	60.5	5.0	"	60.0	ND	101	75-135	0.5	25	
Methyl tert-butyl ether	20.1	5.0	"	20.0	ND	100	75-130	1	25	
Di-isopropyl ether	23.3	5.0	"	20.0	ND	116	70-130	0.9	40	
Ethyl tert-butyl ether	21.1	5.0	"	20.0	ND	106	70-125	0.9	30	
tert-Amyl methyl ether	20.9	5.0	"	20.0	ND	104	65-140	1	25	
tert-Butyl alcohol	387	20	"	400	ND	97	75-130	2	25	
1,2-Dichloroethane	18.6	5.0	"	20.0	ND	93	70-120	2	30	
1,2-Dibromoethane (EDB)	19.2	5.0	"	20.0	ND	96	80-135	5	20	
Ethanol	377	100	"	400	ND	94	50-150	4	30	
Surrogate: Dibromofluoromethane	*4.80*		*"*	*5.00*		*96*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*4.58*		*"*	*5.00*		*92*	*55-135*			
Surrogate: 4-Bromofluorobenzene	*4.90*		*"*	*5.00*		*98*	*60-120*			
Batch 7A18020 - EPA 5030B/5035A MeOH / EPA 8260B										
Blank (7A18020-BLK1)				Prepared & Analyzed: 01/18/07						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	"							
Ethylbenzene	ND	0.050	"							
Xylenes (total)	ND	0.050	"							
Methyl tert-butyl ether	ND	0.025	"							
Di-isopropyl ether	ND	0.025	"							
Ethyl tert-butyl ether	ND	0.025	"							
tert-Amyl methyl ether	ND	0.025	"							
tert-Butyl alcohol	ND	5.0	"							
1,2-Dichloroethane	ND	0.025	"							
1,2-Dibromoethane (EDB)	ND	0.025	"							
Ethanol	ND	10	"							
Surrogate: Dibromofluoromethane	*0.00231*		*"*	*0.00250*		*92*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.00232*		*"*	*0.00250*		*93*	*55-135*			
Surrogate: Toluene-d8	*0.00246*		*"*	*0.00250*		*98*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*0.00239*		*"*	*0.00250*		*96*	*60-120*			

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Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A18020 - EPA 5030B/5035A MeOH / EPA 8260B										
Laboratory Control Sample (7A18020-BS1)				Prepared & Analyzed: 01/18/07						
Benzene	1.10	0.050	mg/kg	1.00		110	70-130			
Toluene	1.10	0.050	"	1.00		110	75-130			
Ethylbenzene	1.00	0.050	"	1.00		100	75-130			
Xylenes (total)	3.08	0.050	"	3.00		103	75-135			
Methyl tert-butyl ether	1.00	0.025	"	1.00		100	75-130			
Di-isopropyl ether	1.12	0.025	"	1.00		112	70-130			
Ethyl tert-butyl ether	1.03	0.025	"	1.00		103	70-125			
tert-Amyl methyl ether	1.09	0.025	"	1.00		109	65-140			
tert-Butyl alcohol	19.5	5.0	"	20.0		98	75-130			
1,2-Dichloroethane	0.968	0.025	"	1.00		97	70-120			
1,2-Dibromoethane (EDB)	1.03	0.025	"	1.00		103	80-135			
Ethanol	20.6	10	"	20.0		103	50-150			
Surrogate: Dibromofluoromethane	*0.00241*		*"*	*0.00250*		*96*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.00232*		*"*	*0.00250*		*93*	*55-135*			
Surrogate: Toluene-d8	*0.00252*		*"*	*0.00250*		*101*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*0.00235*		*"*	*0.00250*		*94*	*60-120*			
Laboratory Control Sample Dup (7A18020-BSD1)				Prepared & Analyzed: 01/18/07						
Benzene	1.04	0.050	mg/kg	1.00		104	70-130	6	25	
Toluene	1.04	0.050	"	1.00		104	75-130	6	20	
Ethylbenzene	0.959	0.050	"	1.00		96	75-130	4	30	
Xylenes (total)	2.95	0.050	"	3.00		98	75-135	4	25	
Methyl tert-butyl ether	0.923	0.025	"	1.00		92	75-130	8	25	
Di-isopropyl ether	1.06	0.025	"	1.00		106	70-130	6	40	
Ethyl tert-butyl ether	0.964	0.025	"	1.00		96	70-125	7	30	
tert-Amyl methyl ether	1.02	0.025	"	1.00		102	65-140	7	25	
tert-Butyl alcohol	18.3	5.0	"	20.0		92	75-130	6	25	
1,2-Dichloroethane	0.918	0.025	"	1.00		92	70-120	5	30	
1,2-Dibromoethane (EDB)	0.943	0.025	"	1.00		94	80-135	9	20	
Ethanol	20.4	10	"	20.0		102	50-150	1	30	
Surrogate: Dibromofluoromethane	*0.00242*		*"*	*0.00250*		*97*	*45-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.00230*		*"*	*0.00250*		*92*	*55-135*			
Surrogate: Toluene-d8	*0.00257*		*"*	*0.00250*		*103*	*70-120*			
Surrogate: 4-Bromofluorobenzene	*0.00237*		*"*	*0.00250*		*95*	*60-120*			

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A20006 - EPA 5030B P/T / EPA 8260B										
Blank (7A20006-BLK1)				Prepared & Analyzed: 01/20/07						
Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Ethanol	ND	100	"							
Surrogate: Dibromofluoromethane	*2.35*		*"*	*2.50*		*94*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.06*		*"*	*2.50*		*82*	*60-145*			
Surrogate: Toluene-d8	*2.56*		*"*	*2.50*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.27*		*"*	*2.50*		*91*	*60-120*			
Laboratory Control Sample (7A20006-BS1)				Prepared & Analyzed: 01/20/07						
Benzene	10.7	0.50	ug/l	10.0		107	70-125			
Toluene	10.1	0.50	"	10.0		101	70-120			
Ethylbenzene	10.8	0.50	"	10.0		108	70-130			
Xylenes (total)	32.7	0.50	"	30.0		109	80-125			
Methyl tert-butyl ether	9.45	0.50	"	10.0		94	50-140			
Di-isopropyl ether	10.7	0.50	"	10.0		107	70-130			
Ethyl tert-butyl ether	10.5	0.50	"	10.0		105	65-130			
tert-Amyl methyl ether	10.2	0.50	"	10.0		102	65-135			
tert-Butyl alcohol	181	20	"	200		90	60-135			
1,2-Dichloroethane	8.65	0.50	"	10.0		86	75-125			
1,2-Dibromoethane (EDB)	8.73	0.50	"	10.0		87	80-125			
Ethanol	238	100	"	200		119	15-150			
Surrogate: Dibromofluoromethane	*2.40*		*"*	*2.50*		*96*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.17*		*"*	*2.50*		*87*	*60-145*			
Surrogate: Toluene-d8	*2.57*		*"*	*2.50*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.49*		*"*	*2.50*		*100*	*60-120*			

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A20006 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (7A20006-MS1)	**Source: MQA0461-04**			Prepared: 01/20/07 Analyzed: 01/21/07						
Benzene	13.7	0.50	ug/l	10.0	ND	137	70-125			M7
Toluene	13.0	0.50	"	10.0	ND	130	70-120			M7
Ethylbenzene	13.8	0.50	"	10.0	ND	138	70-130			M7
Xylenes (total)	41.8	0.50	"	30.0	ND	139	80-125			M7
Methyl tert-butyl ether	12.7	0.50	"	10.0	ND	127	50-140			
Di-isopropyl ether	13.8	0.50	"	10.0	ND	138	70-130			M7
Ethyl tert-butyl ether	13.6	0.50	"	10.0	ND	136	65-130			M7
tert-Amyl methyl ether	13.3	0.50	"	10.0	ND	133	65-135			
tert-Butyl alcohol	240	20	"	200	5.7	117	60-135			
1,2-Dichloroethane	12.4	0.50	"	10.0	ND	124	75-125			
1,2-Dibromoethane (EDB)	12.4	0.50	"	10.0	ND	124	80-125			
Ethanol	296	100	"	200	ND	148	15-150			
Surrogate: Dibromofluoromethane	*2.46*		*"*	*2.50*		*98*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.32*		*"*	*2.50*		*93*	*60-145*			
Surrogate: Toluene-d8	*2.53*		*"*	*2.50*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.45*		*"*	*2.50*		*98*	*60-120*			
Matrix Spike Dup (7A20006-MSD1)	**Source: MQA0461-04**			Prepared: 01/20/07 Analyzed: 01/21/07						
Benzene	11.6	0.50	ug/l	10.0	ND	116	70-125	17	15	R2
Toluene	11.2	0.50	"	10.0	ND	112	70-120	15	15	
Ethylbenzene	11.7	0.50	"	10.0	ND	117	70-130	16	15	R2
Xylenes (total)	35.9	0.50	"	30.0	ND	120	80-125	15	15	
Methyl tert-butyl ether	10.8	0.50	"	10.0	ND	108	50-140	16	25	
Di-isopropyl ether	11.7	0.50	"	10.0	ND	117	70-130	16	35	
Ethyl tert-butyl ether	11.4	0.50	"	10.0	ND	114	65-130	18	35	
tert-Amyl methyl ether	11.4	0.50	"	10.0	ND	114	65-135	15	25	
tert-Butyl alcohol	208	20	"	200	5.7	101	60-135	14	35	
1,2-Dichloroethane	10.6	0.50	"	10.0	ND	106	75-125	16	10	R2
1,2-Dibromoethane (EDB)	10.5	0.50	"	10.0	ND	105	80-125	17	15	R2
Ethanol	230	100	"	200	ND	115	15-150	25	35	
Surrogate: Dibromofluoromethane	*2.55*		*"*	*2.50*		*102*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.37*		*"*	*2.50*		*95*	*60-145*			
Surrogate: Toluene-d8	*2.57*		*"*	*2.50*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.52*		*"*	*2.50*		*101*	*60-120*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A23020 - EPA 5030B P/T / EPA 8260B										
Blank (7A23020-BLK1)				Prepared: 01/23/07 Analyzed: 01/24/07						
Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Ethanol	ND	100	"							
Surrogate: Dibromofluoromethane	*2.26*		*"*	*2.50*		*90*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.20*		*"*	*2.50*		*88*	*60-145*			
Surrogate: Toluene-d8	*2.44*		*"*	*2.50*		*98*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.05*		*"*	*2.50*		*82*	*60-120*			
Laboratory Control Sample (7A23020-BS1)				Prepared & Analyzed: 01/23/07						
Benzene	10.2	0.50	ug/l	10.0		102	70-125			
Toluene	9.90	0.50	"	10.0		99	70-120			
Ethylbenzene	10.5	0.50	"	10.0		105	70-130			
Xylenes (total)	31.8	0.50	"	30.0		106	80-125			
Methyl tert-butyl ether	9.96	0.50	"	10.0		100	50-140			
Di-isopropyl ether	11.0	0.50	"	10.0		110	70-130			
Ethyl tert-butyl ether	10.4	0.50	"	10.0		104	65-130			
tert-Amyl methyl ether	10.5	0.50	"	10.0		105	65-135			
tert-Butyl alcohol	198	20	"	200		99	60-135			
1,2-Dichloroethane	9.76	0.50	"	10.0		98	75-125			
1,2-Dibromoethane (EDB)	10.1	0.50	"	10.0		101	80-125			
Ethanol	184	100	"	200		92	15-150			
Surrogate: Dibromofluoromethane	*2.42*		*"*	*2.50*		*97*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.29*		*"*	*2.50*		*92*	*60-145*			
Surrogate: Toluene-d8	*2.43*		*"*	*2.50*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.37*		*"*	*2.50*		*95*	*60-120*			

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A23020 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (7A23020-MS1)	**Source: MQA0590-03**			Prepared: 01/23/07 Analyzed: 01/24/07						
Benzene	9.39	0.50	ug/l	10.0	ND	94	70-125			
Toluene	9.29	0.50	"	10.0	ND	93	70-120			
Ethylbenzene	9.59	0.50	"	10.0	ND	96	70-130			
Xylenes (total)	29.2	0.50	"	30.0	ND	97	80-125			
Methyl tert-butyl ether	9.08	0.50	"	10.0	ND	91	50-140			
Di-isopropyl ether	10.1	0.50	"	10.0	ND	101	70-130			
Ethyl tert-butyl ether	9.59	0.50	"	10.0	ND	96	65-130			
tert-Amyl methyl ether	9.25	0.50	"	10.0	ND	92	65-135			
tert-Butyl alcohol	182	20	"	200	ND	91	60-135			
1,2-Dichloroethane	9.22	0.50	"	10.0	ND	92	75-125			
1,2-Dibromoethane (EDB)	9.42	0.50	"	10.0	ND	94	80-125			
Ethanol	245	100	"	200	ND	122	15-150			
Surrogate: Dibromofluoromethane	*2.45*		*"*	*2.50*		*98*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.27*		*"*	*2.50*		*91*	*60-145*			
Surrogate: Toluene-d8	*2.41*		*"*	*2.50*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.37*		*"*	*2.50*		*95*	*60-120*			
Matrix Spike Dup (7A23020-MSD1)	**Source: MQA0590-03**			Prepared: 01/23/07 Analyzed: 01/24/07						
Benzene	10.9	0.50	ug/l	10.0	ND	109	70-125	15	15	
Toluene	10.6	0.50	"	10.0	ND	106	70-120	13	15	
Ethylbenzene	11.0	0.50	"	10.0	ND	110	70-130	14	15	
Xylenes (total)	33.1	0.50	"	30.0	ND	110	80-125	13	15	
Methyl tert-butyl ether	11.0	0.50	"	10.0	ND	110	50-140	19	25	
Di-isopropyl ether	11.9	0.50	"	10.0	ND	119	70-130	16	35	
Ethyl tert-butyl ether	11.2	0.50	"	10.0	ND	112	65-130	15	35	
tert-Amyl methyl ether	11.3	0.50	"	10.0	ND	113	65-135	20	25	
tert-Butyl alcohol	201	20	"	200	ND	100	60-135	10	35	
1,2-Dichloroethane	10.8	0.50	"	10.0	ND	108	75-125	16	10	R2
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0	ND	112	80-125	17	15	R2
Ethanol	218	100	"	200	ND	109	15-150	12	35	
Surrogate: Dibromofluoromethane	*2.45*		*"*	*2.50*		*98*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.37*		*"*	*2.50*		*95*	*60-145*			
Surrogate: Toluene-d8	*2.47*		*"*	*2.50*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.49*		*"*	*2.50*		*100*	*60-120*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0437
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:46

Notes and Definitions

ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
RL3	Reporting limit raised due to high concentrations of non-target analytes.
RL2	Reporting limit raised due to high concentrations of hydrocarbons.
R2	The RPD exceeded the acceptance limit.
Q1	Does not match typical pattern
MCP	No results were reported for the MS and/or MSD due to a clogged autosampler port. Batch was accepted based on Blank Spike (LCS) recoveries.
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
L2	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was below acceptance limits.
I	Internal Standard recovery was outside of method limits. Matrix interference was confirmed by reanalysis.
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
A-01	Pattern does not match typical gasoline.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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MPA0437

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☐ 777 Campus Commons Rd., Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7412

Site Name: 1600 63rd St., Emeryville
Job Number: 3494.01
Project Manager\Contact: Matthew Hall
Samplers: Matthew Hall
Recorder (Signature Required):

Turnaround Time

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPH-gas	TPH-diesel	BTEX	fuel oxygenates	ethanol	total lead	Silica gel clean-up	Hold	Remarks
SB-1 (6-6.5)	1/10/07	9:55	01	X						1		X	X	X	X	X	X			
SB-1 (9.5-10)	1/10/07	10:00	02	X						1		X	X	X	X	X	X			
SB-1 (14.5-15)	1/10/07	10:05	03	X						1		X	X	X	X	X	X			
SB-1 (19.5-20)	1/10/07	10:10	04	X						1		X	X	X	X	X	X			

Relinquished by: (Signature)	Date 1/11/07	Time 11:30	Received by: (Signature) (TAMH)	Date 1/11/07	Time 11:30
Relinquished by: (Signature) (TAMH)	Date 1-11-07	Time 1820	Received by: (Signature)	Date 1/11/07	Time 1820
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Test America
Laboratory Comments/Notes:

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☐ 777 Campus Commons Rd., Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7412

Site Name: 1100 63rd Street, Emeryville
Job Number: 3494.01
Project Manager\Contact: Matthew Hall
Samplers: Matthew Hall
Recorder (Signature Required):

Turnaround Time

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPH-gas	TPH-diesel	BTEX	fuel oxygenates	Ethanol	Total lead	Silica gel clean-up	Hold	Remarks
SB-2 (6-6.5)	1/10/07	1:40	05	X						1		X	X	X	X	X	X			
SB-2 (9.5-10)	1/10/07	1:45	06	X						1		X	X	X	X	X	X			
SB-2 (14.5-15)	1/10/07	1:50	07	X						1		X	X	X	X	X	X			
SB-2 (17-17.5)	1/10/07	1:52	08	X						1		X	X	X	X	X	X			
SB-2 (19.5-20)	1/10/07	1:55	09	X						1		X	X	X	X	X	X			

Relinquished by: (Signature)	Date 1/11/07	Time 11:33	Received by: (Signature) (TAMH)	Date 1/11/07	Time 11:33
Relinquished by: (Signature) (TAMH)	Date 1-11-07	Time 1820	Received by: (Signature) MH	Date 1/11/07	Time 1820
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Test America
Laboratory Comments/Notes:

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

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MQA0437

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☐ 777 Campus Commons Rd., Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7412

Site Name: 1600 63rd St., Emeryville CA
Job Number: 3494.01
Project Manager\Contact: Matthew Hall
Samplers: Matthew Hall
Recorder (Signature Required):

Turnaround Time

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPH-gas	TPH-diesel	BTEX	fuel oxygenates	Ethanol	Total lead	Silica gel clean-up	Hold	Remarks
SB-3 (6-6.5)	1/10/07	2:25	10	X						1		X	X	X	X	X	X			
SB-3 (9.5-10)	1/10/07	2:30	11	X						1		X	X	X	X	X	X			
SB-3 (14.5-15)	1/10/07	2:35	12	X						1		X	X	X	X	X	X			
SB-3 (17-17.5)	1/10/07	2:37	13	X						1		X	X	X	X	X	X			
SB-3 (19.5-20)	1/10/07	2:40	14	X						1		X	X	X	X	X	X			

	Date	Time		Date	Time
Relinquished by: (Signature)	1/11/07	11:33	Received by: (Signature)	1/11/07	11:33
Relinquished by: (Signature) (TAMH)	1-11-07	1820	Received by: (Signature) MH	1/11/07	1820
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Test America
Laboratory Comments/Notes:

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

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☐ 777 Campus Commons Rd., Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7412

Site Name: 1600 63rd Street, Emeryville
Job Number: 3494.01
Project Manager\Contact: Matthew Hall
Samplers: Matthew Hall
Recorder (Signature Required):

Turnaround Time

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPH-gas	TPH-diesel	BTEX	fuel oxygenates	ethanol	total lead	Silica gel clean-up	Hold	Remarks
SB-4 (6-6.5)	1/10/07	12:05	15	X						1		X	X	X	X	X	X			
SB-4 (9.5-10)	1/10/07	12:10	16	X						1		X	X	X	X	X	X			
SB-4 (14.5-15)	1/10/07	12:15	17	X						1		X	X	X	X	X	X			
SB-4 (17.5-18)	1/10/07	12:17	18	X						1		X	X	X	X	X	X			
SB-4 (19.5-20)	1/10/07	12:20	19	X						1		X	X	X	X	X	X			

	Date	Time		Date	Time
Relinquished by: (Signature)	1/11/07	11:33	Received by: (Signature) (TAMH)	1/11/07	11:33
Relinquished by: (Signature) (TAMH)	1-11-07	1820	Received by: (Signature)	1/11/07	1820
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Test America
Laboratory Comments/Notes:

Method of Shipment ☒ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS
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Site Name: 1600 63rd St., Emeryville
Job Number: 3494.01
Project Manager\Contact: Matthew Hall
Samplers: Matthew Hall
Recorder (Signature Required):

Turnaround Time

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPH-gas	TPH-diesel	BTEX	Fuel oxys	Ethanol	Total Lead	Silica gel clean-up	Hold	Remarks
TR-1 (4.5-5)	1/9/07	9:25	20	X						1		X	X	X	X	X	X			
TR-1 (8-8.5)	1/9/07	9:27	21	X						1		X	X	X	X	X	X			
TR-1 (9.5-10)	1/9/07	9:30	22	X						1		X	X	X	X	X	X			
TR-1 (14.5-15)	1/9/07	9:40	23	X						1		X	X	X	X	X	X			
TR-1 (19.5-20)	1/9/07	9:45	24	X						1		X	X	X	X	X	X			

Relinquished by: (Signature)	Date 1/11/07	Time 11:33	Received by: (Signature) (TAMH)	Date 1/11/07	Time 11:33
Relinquished by: (Signature) (TAMH)	Date 1-11-07	Time 1820	Received by: (Signature)	Date 1/11/07	Time 1820
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Test America
Laboratory Comments/Notes:

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

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Site Name: 1600 63rd Street, Emeryville
Job Number: 3494.01
Project Manager\Contact: Matthew Hall
Samplers: Matthew Hall
Recorder (Signature Required):

Turnaround Time

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPH-gas	TPH-diesel	BTEX	fuel oxygenate	Ethanol	Total lead	Silica gel clean-up	Hold	Remarks
TR-2(4.5-5)	1/9/07	1:05	25	X						1		X	X	X	X	X	X			
TR-2(9.5-10)	1/9/07	1:10	26	X						1		X	X	X	X	X	X			
TR-2 (14.5-15)	1/9/07	1:15	27	X						1		X	X	X	X	X	X			
TR-2 (19.5-20)	1/9/07	1:20	28	X						1		X	X	X	X	X	X			

	Date	Time		Date	Time
Relinquished by: (Signature)	1/11/07	11:33	Received by: (Signature) (TAMH)	1/11/07	11:33
Relinquished by: (Signature) (TAMH)	1-11-07	1820	Received by: (Signature)	1/11/07	1820
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Test America
Laboratory Comments/Notes:

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

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COC Number: 006631

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☐ 777 Campus Commons Rd., Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7412

Site Name: 1600 63rd Street, Emeryville
Job Number: 3494.01
Project Manager\Contact: Matthew Hall
Samplers: Matthew Hall
Recorder (Signature Required):

Turnaround Time

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPH-gas	TPH-diesel	BTEX	fuel oxygenates	ethanol	total lead	Silica gel clean-up	Hold	Remarks
TR-3(4.5-5)	1/9/07	11:30	29	X						1		X	X	X	X	X	X			
TR-3(9.5-10)	1/9/07	11:35	30	X						1		X	X	X	X	X	X			
TR-3(15-15.5)	1/9/07	11:40	31	X						1		X	X	X	X	X	X			
TR-3(19.5-20)	1/9/07	11:45	32	X						1		X	X	X	X	X	X			

Relinquished by: (Signature)	Date 1/11/07	Time 11:33	Received by: (Signature) (TAMH)	Date 1/11/07	Time 11:33
Relinquished by: (Signature) (TAMH)	Date 1-11-07	Time 1820	Received by: (Signature)	Date 1/11/07	Time 1820
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Test America
Laboratory Comments/Notes:

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

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number: 006628

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

MQA 0437

☐ 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 Rd., Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7412

Site Name: 1600 63rd Street, Emeryville
Job Number: 3494.01
Project Manager\Contact: Matthew Hall
Samplers: Matthew Hall
Recorder (Signature Required):

Turnaround Time

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPH-gas	TPH-diesel	BTEX	Fuel oxygenates	Ethanol	Total Lead	Silica gel clean-up	Hold	Remarks
TR-4 (4.5-5)	1/9/07	10:25	33	X						1		X	X	X	X	X	X			
TR-4 (9.5-10)	1/9/07	10:35	34	X						1		X	X	X	X	X	X			
TR-4 (14.5-15)	1/9/07	10:40	35	X						1		X	X	X	X	X	X			
TR-4 (19.5-20)	1/9/07	10:45	36	X						1		X	X	X	X	X	X			
TR-4 (8.5-9)	1/9/07	10:37	37	X						1		X	X	X	X	X	X			

Relinquished by: (Signature)	Date 1/11/07	Time 11:33	Received by: (Signature) (TMH)	Date 1/11/07	Time 11:33
Relinquished by: (Signature) (TMH)	Date 1-11-07	Time 1820	Received by: (Signature)	Date 1/11/07	Time 1820
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Test America
Laboratory Comments/Notes:

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

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501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
777 Campus Commons Rd., Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7412

Site Name: 1600 63rd Street, Emeryville
Job Number: 3494.01
Project Manager\Contact: Matthew Hall
Samplers: Matthew Hall
Recorder (Signature Required):

Turnaround Time

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPH-gasoline	TPH-diesel	BTEX	fuel oxygenates	Ethanol	Total lead	Silica gel clean-up	Hold	Remarks
TR-5 (4.5-5)	1/9/07	2:35	38	X						1		X	X	X	X	X	X			
TR-5 (9.5-10)	1/9/07	2:40	39	X						1		X	X	X	X	X	X			
TR-5 (14.5-15)	1/9/07	2:45	40	X						1		X	X	X	X	X	X			
TR-5 (19.5-20)	1/9/07	2:50	41	X						1		X	X	X	X	X	X			

	Date	Time		Date	Time
Relinquished by: (Signature)	1/11/07	11:33	Received by: (Signature) (TAMH)	1/11/07	11:33
Relinquished by: (Signature) (TAMH)	1-11-07	1820	Received by: (Signature)	1/11/07	1820
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Test America
Laboratory Comments/Notes:

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

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MQA 0437

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Site Name: 1600 63rd Street, Emeryville
Job Number: 3494.01
Project Manager\Contact: Matthew Hall
Samplers: Matthew Hall
Recorder (Signature Required):

Turnaround Time

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPH-gas	TPH-diesel	BTEX	fuel oxygenates	Ethanol	total lead	Silica gel clean-up	Hold	Remarks
SB-1	1/10/07	4:10	42		X		3					X		X	X	X				
SB-1	"	4:10	↓		X					2			X							All samples may contain free phase product. Additional L Amber provided for lab. We are interested in dissolved phase concentrations.
SB-1	"	4:10	↓		X				1								X			
SB-2	"	4:45	43		X		3					X		X	X	X				
SB-2	"	4:45	↓		X					2			X							
SB-2	"	4:45	↓		X				1								X			
SB-3	"	5:30	44		X		3					X		X	X	X				
SB-3	"	5:30	↓		X					2			X							
SB-3	"	5:30	↓		X				1								X			
SB-4	"	5:15	45		X		3					X		X	X	X				
SB-4	"	5:15	↓		X					2			X							
SB-4	"	5:15	↓		X				1								X			

	Date	Time		Date	Time
Relinquished by: (Signature)	1/11/07	11:33	Received by: (Signature) (TAMH)	1/11/07	11:33
Relinquished by: (Signature) (TAMH)	1-11-07	1820	Received by: (Signature)	1/11/07	1820
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Test America
Laboratory Comments/Notes:

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

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 006561

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: Treadwell & Rollo
REC. BY (PRINT) EH
WORKORDER: MQA6437

DATE REC'D AT LAB: 1/11/07
TIME REC'D AT LAB: 1820
DATE LOGGED IN: 1-12-07

For Regulatory Purposes?
DRINKING WATER YES / (NO)
WASTE WATER YES / (NO)

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / (Absent) Intact / Broken*		SB-1 (6-6.5)	PLASTIC TUBE					
		(9.5-10)	↓					
2. Chain-of-Custody (Present) / Absent*		(14.5-15)						
3. Traffic Reports or		(19.5-20)	↓					
Packing List: Present / (Absent)		SB-2 (6-6.5)	PLASTIC TUBE					
4. Airbill: Airbill / Sticker		(9.5-10)	↓					
Present / (Absent)		(14.5-15)						
5. Airbill #:		(17-17.5)						
6. Sample Labels: (Present) / Absent		(19.5-20)	↓					ALL PLASTIC TUBES
7. Sample IDs: (Listed) / Not Listed		SB-3	SAME					
on Chain-of-Custody		SB-4	↓					
8. Sample Condition: (Intact) / Broken* /		TR-1						
Leaking*		TR-2 (4.5-5)	PLASTIC TUBE					
9. Does information on chain-of-custody, traffic reports and sample labels agree? (Yes) / No*		(9.5-10)	↓					
		(14.5-15)						
		(19.5-20)	↓					
10. Sample received within hold time? (Yes) / No*		TR3	SAME					
		TR4	↓					
11. Adequate sample volume		TR-5						
received? (Yes) / No*		SB-1	3 VOAS	HCl				
12. Proper preservatives used? (Yes) / No*		↓	2 AMBERS	—				
13. Trip Blank / Temp Blank Received?		↓	500 Poly	HNO3				
(circle which, if yes) Yes / (No)		SB-2	SAME	SAME				
14. Read Temp: 5.0°C		SB-3	↓	↓				
Corrected Temp:		SB-4	↓	↓				
Is corrected temp 4 +/-2°C? (Yes) / No**								
(Acceptance range for samples requiring thermal pres.)								
**Exception (if any): METALS / DFF ON ICE or Problem COC								

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

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20 March, 2007

Matt Hall
Treadwell & Rollo - Oakland
501 14th Street 3rd Floor
Oakland, CA 94612

RE: 1600 63rd Street, Emeryville
Work Order: MQA0566

Enclosed are the results of analyses for samples received by the laboratory on 01/16/07 19:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tim Costello
Client Services Department Manager

CA ELAP Certificate # 1210

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0566
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TR-3	MQA0566-01	Water	01/15/07 11:00	01/16/07 19:55
TR-1	MQA0566-02	Water	01/15/07 11:45	01/16/07 19:55
TR-4	MQA0566-03	Water	01/15/07 13:45	01/16/07 19:55
TR-2	MQA0566-04	Water	01/15/07 15:45	01/16/07 19:55
MW-2	MQA0566-05	Water	01/15/07 16:45	01/16/07 19:55
TR-5	MQA0566-06	Water	01/15/07 17:15	01/16/07 19:55

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0566
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:48

Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-3 (MQA0566-01) Water Sampled: 01/15/07 11:00 Received: 01/16/07 19:55									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7A24020	01/24/07	01/25/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*99 %*	*60-145*		"	"	"	"	
TR-1 (MQA0566-02) Water Sampled: 01/15/07 11:45 Received: 01/16/07 19:55									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7A24020	01/24/07	01/25/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*60-145*		"	"	"	"	
TR-4 (MQA0566-03) Water Sampled: 01/15/07 13:45 Received: 01/16/07 19:55									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	7A24020	01/24/07	01/25/07	LUFT GCMS	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*60-145*		"	"	"	"	
TR-2 (MQA0566-04) Water Sampled: 01/15/07 15:45 Received: 01/16/07 19:55									
Gasoline Range Organics (C4-C12)	**3400**	2500	ug/l	50	7A26004	01/26/07	01/26/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*95 %*	*60-145*		"	"	"	"	
MW-2 (MQA0566-05) Water Sampled: 01/15/07 16:45 Received: 01/16/07 19:55									
Gasoline Range Organics (C4-C12)	**600**	50	ug/l	1	7A24020	01/24/07	01/25/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*60-145*		"	"	"	"	
TR-5 (MQA0566-06) Water Sampled: 01/15/07 17:15 Received: 01/16/07 19:55									
Gasoline Range Organics (C4-C12)	**12000**	500	ug/l	10	7A23005	01/23/07	01/23/07	LUFT GCMS	A-01
Surrogate: 1,2-Dichloroethane-d4		*92 %*	*60-145*		"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0566
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:48

Extractable Hydrocarbons by EPA 8015B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-3 (MQA0566-01) Water Sampled: 01/15/07 11:00 Received: 01/16/07 19:55									
Diesel Range Organics (C10-C28)	**98**	47	ug/l	1	7A18019	01/18/07	01/19/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*86 %*	*30-115*		"	"	"	"	
TR-1 (MQA0566-02) Water Sampled: 01/15/07 11:45 Received: 01/16/07 19:55									
Diesel Range Organics (C10-C28)	**140**	47	ug/l	1	7A18019	01/18/07	01/19/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*96 %*	*30-115*		"	"	"	"	
TR-4 (MQA0566-03) Water Sampled: 01/15/07 13:45 Received: 01/16/07 19:55									
Diesel Range Organics (C10-C28)	**430**	48	ug/l	1	7A18019	01/18/07	01/19/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*94 %*	*30-115*		"	"	"	"	
TR-2 (MQA0566-04) Water Sampled: 01/15/07 15:45 Received: 01/16/07 19:55									
Diesel Range Organics (C10-C28)	**480000**	38000	ug/l	400	7A18019	01/18/07	01/22/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*%*	*30-115*		"	"	"	"	*Z3*
MW-2 (MQA0566-05) Water Sampled: 01/15/07 16:45 Received: 01/16/07 19:55									
Diesel Range Organics (C10-C28)	**10000**	480	ug/l	10	7A18019	01/18/07	01/19/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*197 %*	*30-115*		"	"	"	"	*ZX*
TR-5 (MQA0566-06) Water Sampled: 01/15/07 17:15 Received: 01/16/07 19:55									
Diesel Range Organics (C10-C28)	**31000**	2400	ug/l	50	7A18019	01/18/07	01/19/07	EPA 8015B-SVOA	Q1
Surrogate: n-Octacosane		*397 %*	*30-115*		"	"	"	"	*Z3*

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0566
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:48

Total Metals by EPA 200 Series Methods

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-3 (MQA0566-01) Water Sampled: 01/15/07 11:00 Received: 01/16/07 19:55									
Lead	ND	0.10	mg/l	1	7A17038	01/18/07	01/19/07	EPA 200.7	
TR-1 (MQA0566-02) Water Sampled: 01/15/07 11:45 Received: 01/16/07 19:55									
Lead	ND	0.10	mg/l	1	7A17038	01/18/07	01/22/07	EPA 200.7	
TR-4 (MQA0566-03) Water Sampled: 01/15/07 13:45 Received: 01/16/07 19:55									
Lead	ND	0.10	mg/l	1	7A17038	01/18/07	01/22/07	EPA 200.7	
TR-2 (MQA0566-04) Water Sampled: 01/15/07 15:45 Received: 01/16/07 19:55									
Lead	ND	0.10	mg/l	1	7A17038	01/18/07	01/22/07	EPA 200.7	
MW-2 (MQA0566-05) Water Sampled: 01/15/07 16:45 Received: 01/16/07 19:55									
Lead	ND	0.10	mg/l	1	7A17038	01/18/07	01/22/07	EPA 200.7	
TR-5 (MQA0566-06) Water Sampled: 01/15/07 17:15 Received: 01/16/07 19:55									
Lead	ND	0.10	mg/l	1	7A17038	01/18/07	01/22/07	EPA 200.7	

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:48

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-3 (MQA0566-01) Water Sampled: 01/15/07 11:00 Received: 01/16/07 19:55									
Benzene	ND	0.50	ug/l	1	7A24020	01/24/07	01/25/07	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*75-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99 %*		*60-145*	"	"	"	"	
Surrogate: Toluene-d8		*98 %*		*70-130*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90 %*		*60-120*	"	"	"	"	
TR-1 (MQA0566-02) Water Sampled: 01/15/07 11:45 Received: 01/16/07 19:55									
Benzene	ND	0.50	ug/l	1	7A24020	01/24/07	01/25/07	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**7.4**	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*99 %*		*75-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*60-145*	"	"	"	"	
Surrogate: Toluene-d8		*94 %*		*70-130*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84 %*		*60-120*	"	"	"	"	

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Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0566
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:48

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TR-4 (MQA0566-03) Water Sampled: 01/15/07 13:45 Received: 01/16/07 19:55									
Benzene	ND	0.50	ug/l	1	7A24020	01/24/07	01/25/07	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**2.2**	0.50	"	"	"	"	"	"	
Di-isopropyl ether	**1.0**	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*99 %*		*75-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*60-145*	"	"	"	"	
Surrogate: Toluene-d8		*95 %*		*70-130*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92 %*		*60-120*	"	"	"	"	
TR-2 (MQA0566-04) Water Sampled: 01/15/07 15:45 Received: 01/16/07 19:55									
Benzene	ND	5.0	ug/l	10	7A23005	01/23/07	01/23/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*		*75-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*		*60-145*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*70-130*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*117 %*		*60-120*	"	"	"	"	

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0566
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:48

Volatile Organic Compounds by EPA Method 8260B

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (MQA0566-05) Water Sampled: 01/15/07 16:45 Received: 01/16/07 19:55									
Benzene	ND	0.50	ug/l	1	7A26004	01/26/07	01/26/07	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	**0.53**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**0.95**	0.50	"	"	"	"	"	"	
Di-isopropyl ether	**0.97**	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Ethanol	ND	100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96 %*		*75-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*60-145*	"	"	"	"	
Surrogate: Toluene-d8		*97 %*		*70-130*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*		*60-120*	"	"	"	"	
TR-5 (MQA0566-06) Water Sampled: 01/15/07 17:15 Received: 01/16/07 19:55									**RL2**
Benzene	ND	5.0	ug/l	10	7A23005	01/23/07	01/23/07	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	"	"	"	"	"	"	
tert-Butyl alcohol	ND	200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*91 %*		*75-130*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92 %*		*60-145*	"	"	"	"	
Surrogate: Toluene-d8		*99 %*		*70-130*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*		*60-120*	"	"	"	"	

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:48

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A23005 - EPA 5030B P/T / LUFT GCMS										
Blank (7A23005-BLK1)				Prepared & Analyzed: 01/23/07						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*2.64*		*"*	*2.50*		*106*	*60-145*			
Laboratory Control Sample (7A23005-BS2)				Prepared & Analyzed: 01/23/07						
Gasoline Range Organics (C4-C12)	526	50	ug/l	500		105	75-140			
Surrogate: 1,2-Dichloroethane-d4	*2.66*		*"*	*2.50*		*106*	*60-145*			
Laboratory Control Sample Dup (7A23005-BSD2)				Prepared & Analyzed: 01/23/07						
Gasoline Range Organics (C4-C12)	469	50	ug/l	500		94	75-140	11	20	
Surrogate: 1,2-Dichloroethane-d4	*2.67*		*"*	*2.50*		*107*	*60-145*			
Batch 7A24020 - EPA 5030B P/T / LUFT GCMS										
Blank (7A24020-BLK1)				Prepared & Analyzed: 01/24/07						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*2.41*		*"*	*2.50*		*96*	*60-145*			
Laboratory Control Sample (7A24020-BS2)				Prepared & Analyzed: 01/24/07						
Gasoline Range Organics (C4-C12)	630	50	ug/l	500		126	75-140			
Surrogate: 1,2-Dichloroethane-d4	*2.54*		*"*	*2.50*		*102*	*60-145*			
Laboratory Control Sample Dup (7A24020-BSD2)				Prepared & Analyzed: 01/24/07						
Gasoline Range Organics (C4-C12)	615	50	ug/l	500		123	75-140	2	20	
Surrogate: 1,2-Dichloroethane-d4	*2.47*		*"*	*2.50*		*99*	*60-145*			
Batch 7A26004 - EPA 5030B P/T / LUFT GCMS										
Blank (7A26004-BLK1)				Prepared & Analyzed: 01/26/07						
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*2.40*		*"*	*2.50*		*96*	*60-145*			

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:48

Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A26004 - EPA 5030B P/T / LUFT GCMS										
Laboratory Control Sample (7A26004-BS2)				Prepared & Analyzed: 01/26/07						
Gasoline Range Organics (C4-C12)	651	50	ug/l	500		130	75-140			
Surrogate: 1,2-Dichloroethane-d4	*2.65*		*"*	*2.50*		*106*	*60-145*			
Laboratory Control Sample Dup (7A26004-BSD2)				Prepared & Analyzed: 01/26/07						
Gasoline Range Organics (C4-C12)	526	50	ug/l	500		105	75-140	21	20	R
Surrogate: 1,2-Dichloroethane-d4	*2.51*		*"*	*2.50*		*100*	*60-145*			

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:48

Extractable Hydrocarbons by EPA 8015B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A18019 - EPA 3510C / EPA 8015B-SVOA										
Blank (7A18019-BLK1)				Prepared & Analyzed: 01/18/07						
Diesel Range Organics (C10-C28)	ND	50	ug/l							
Surrogate: n-Octacosane	*42.8*		*"*	*50.0*		*86*	*30-115*			
Laboratory Control Sample (7A18019-BS1)				Prepared & Analyzed: 01/18/07						
Diesel Range Organics (C10-C28)	379	50	ug/l	500		76	40-140			
Surrogate: n-Octacosane	*41.3*		*"*	*50.0*		*83*	*30-115*			
Laboratory Control Sample Dup (7A18019-BSD1)				Prepared & Analyzed: 01/18/07						
Diesel Range Organics (C10-C28)	396	50	ug/l	500		79	40-140	4	35	
Surrogate: n-Octacosane	*45.1*		*"*	*50.0*		*90*	*30-115*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0566
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:48

Total Metals by EPA 200 Series Methods - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A17038 - EPA 3005A / EPA 200.7										
Blank (7A17038-BLK1)				Prepared: 01/18/07 Analyzed: 01/19/07						
Lead	ND	0.10	mg/l							
Laboratory Control Sample (7A17038-BS1)				Prepared: 01/18/07 Analyzed: 01/19/07						
Lead	0.976	0.10	mg/l	1.00		98	85-115			
Matrix Spike (7A17038-MS1)	**Source: MQA0566-01**			Prepared: 01/18/07 Analyzed: 01/19/07						
Lead	0.974	0.10	mg/l	1.00	ND	97	70-130			
Matrix Spike Dup (7A17038-MSD1)	**Source: MQA0566-01**			Prepared: 01/18/07 Analyzed: 01/19/07						
Lead	0.947	0.10	mg/l	1.00	ND	95	70-130	3	20	

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A23005 - EPA 5030B P/T / EPA 8260B										
Blank (7A23005-BLK1)				Prepared & Analyzed: 01/23/07						
Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Ethanol	ND	100	"							
Surrogate: Dibromofluoromethane	*2.53*		*"*	*2.50*		*101*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.64*		*"*	*2.50*		*106*	*60-145*			
Surrogate: Toluene-d8	*2.47*		*"*	*2.50*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.29*		*"*	*2.50*		*92*	*60-120*			
Laboratory Control Sample (7A23005-BS1)				Prepared & Analyzed: 01/23/07						
Benzene	9.82	0.50	ug/l	10.0		98	70-125			
Toluene	10.0	0.50	"	10.0		100	70-120			
Ethylbenzene	10.6	0.50	"	10.0		106	70-130			
Xylenes (total)	31.7	0.50	"	30.0		106	80-125			
Methyl tert-butyl ether	10.0	0.50	"	10.0		100	50-140			
Di-isopropyl ether	9.61	0.50	"	10.0		96	70-130			
Ethyl tert-butyl ether	9.93	0.50	"	10.0		99	65-130			
tert-Amyl methyl ether	10.1	0.50	"	10.0		101	65-135			
tert-Butyl alcohol	191	20	"	200		96	60-135			
1,2-Dichloroethane	11.0	0.50	"	10.0		110	75-125			
1,2-Dibromoethane (EDB)	10.7	0.50	"	10.0		107	80-125			
Ethanol	218	100	"	200		109	15-150			
Surrogate: Dibromofluoromethane	*2.59*		*"*	*2.50*		*104*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.66*		*"*	*2.50*		*106*	*60-145*			
Surrogate: Toluene-d8	*2.54*		*"*	*2.50*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.67*		*"*	*2.50*		*107*	*60-120*			

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A23005 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (7A23005-MS1)	**Source: MQA0431-10**			Prepared & Analyzed: 01/23/07						
Benzene	11.2	0.50	ug/l	10.0	ND	112	70-125			
Toluene	10.9	0.50	"	10.0	ND	109	70-120			
Ethylbenzene	11.4	0.50	"	10.0	ND	114	70-130			
Xylenes (total)	34.9	0.50	"	30.0	ND	116	80-125			
Methyl tert-butyl ether	11.3	0.50	"	10.0	ND	113	50-140			
Di-isopropyl ether	12.4	0.50	"	10.0	ND	124	70-130			
Ethyl tert-butyl ether	11.8	0.50	"	10.0	ND	118	65-130			
tert-Amyl methyl ether	11.6	0.50	"	10.0	ND	116	65-135			
tert-Butyl alcohol	215	20	"	200	ND	108	60-135			
1,2-Dichloroethane	10.7	0.50	"	10.0	ND	107	75-125			
1,2-Dibromoethane (EDB)	11.3	0.50	"	10.0	ND	113	80-125			
Ethanol	213	100	"	200	ND	106	15-150			
Surrogate: Dibromofluoromethane	*2.36*		*"*	*2.50*		*94*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.31*		*"*	*2.50*		*92*	*60-145*			
Surrogate: Toluene-d8	*2.47*		*"*	*2.50*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.43*		*"*	*2.50*		*97*	*60-120*			
Matrix Spike Dup (7A23005-MSD1)	**Source: MQA0431-10**			Prepared & Analyzed: 01/23/07						
Benzene	11.0	0.50	ug/l	10.0	ND	110	70-125	2	15	
Toluene	10.5	0.50	"	10.0	ND	105	70-120	4	15	
Ethylbenzene	10.9	0.50	"	10.0	ND	109	70-130	4	15	
Xylenes (total)	33.9	0.50	"	30.0	ND	113	80-125	3	15	
Methyl tert-butyl ether	11.2	0.50	"	10.0	ND	112	50-140	0.9	25	
Di-isopropyl ether	12.2	0.50	"	10.0	ND	122	70-130	2	35	
Ethyl tert-butyl ether	11.8	0.50	"	10.0	ND	118	65-130	0	35	
tert-Amyl methyl ether	11.5	0.50	"	10.0	ND	115	65-135	0.9	25	
tert-Butyl alcohol	213	20	"	200	ND	106	60-135	0.9	35	
1,2-Dichloroethane	10.7	0.50	"	10.0	ND	107	75-125	0	10	
1,2-Dibromoethane (EDB)	10.9	0.50	"	10.0	ND	109	80-125	4	15	
Ethanol	230	100	"	200	ND	115	15-150	8	35	
Surrogate: Dibromofluoromethane	*2.39*		*"*	*2.50*		*96*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.31*		*"*	*2.50*		*92*	*60-145*			
Surrogate: Toluene-d8	*2.47*		*"*	*2.50*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.40*		*"*	*2.50*		*96*	*60-120*			

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501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A24020 - EPA 5030B P/T / EPA 8260B										
Blank (7A24020-BLK1)				Prepared & Analyzed: 01/24/07						
Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Ethanol	ND	100	"							
Surrogate: Dibromofluoromethane	*2.35*		*"*	*2.50*		*94*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.41*		*"*	*2.50*		*96*	*60-145*			
Surrogate: Toluene-d8	*2.36*		*"*	*2.50*		*94*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.21*		*"*	*2.50*		*88*	*60-120*			
Laboratory Control Sample (7A24020-BS1)				Prepared & Analyzed: 01/24/07						
Benzene	11.1	0.50	ug/l	10.0		111	70-125			
Toluene	11.1	0.50	"	10.0		111	70-120			
Ethylbenzene	11.4	0.50	"	10.0		114	70-130			
Xylenes (total)	34.5	0.50	"	30.0		115	80-125			
Methyl tert-butyl ether	11.1	0.50	"	10.0		111	50-140			
Di-isopropyl ether	11.5	0.50	"	10.0		115	70-130			
Ethyl tert-butyl ether	11.6	0.50	"	10.0		116	65-130			
tert-Amyl methyl ether	11.5	0.50	"	10.0		115	65-135			
tert-Butyl alcohol	207	20	"	200		104	60-135			
1,2-Dichloroethane	11.6	0.50	"	10.0		116	75-125			
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0		112	80-125			
Ethanol	210	100	"	200		105	15-150			
Surrogate: Dibromofluoromethane	*2.64*		*"*	*2.50*		*106*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.43*		*"*	*2.50*		*97*	*60-145*			
Surrogate: Toluene-d8	*2.50*		*"*	*2.50*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.46*		*"*	*2.50*		*98*	*60-120*			

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

Treadwell & Rollo - Oakland	Project:	1600 63rd Street, Emeryville	MQA0566
501 14th Street 3rd Floor	Project Number:	3494.01	**Reported:**
Oakland CA, 94612	Project Manager:	Matt Hall	03/20/07 17:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A24020 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (7A24020-MS1)	**Source: MQA0591-02**			Prepared & Analyzed: 01/24/07						
Benzene	11.4	0.50	ug/l	10.0	ND	114	70-125			
Toluene	11.5	0.50	"	10.0	ND	115	70-120			
Ethylbenzene	12.3	0.50	"	10.0	ND	123	70-130			
Xylenes (total)	36.8	0.50	"	30.0	ND	123	80-125			
Methyl tert-butyl ether	11.7	0.50	"	10.0	ND	117	50-140			
Di-isopropyl ether	12.1	0.50	"	10.0	ND	121	70-130			
Ethyl tert-butyl ether	11.9	0.50	"	10.0	ND	119	65-130			
tert-Amyl methyl ether	12.0	0.50	"	10.0	ND	120	65-135			
tert-Butyl alcohol	226	20	"	200	ND	113	60-135			
1,2-Dichloroethane	12.0	0.50	"	10.0	ND	120	75-125			
1,2-Dibromoethane (EDB)	12.1	0.50	"	10.0	ND	121	80-125			
Ethanol	231	100	"	200	ND	116	15-150			
Surrogate: Dibromofluoromethane	*2.54*		*"*	*2.50*		*102*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.46*		*"*	*2.50*		*98*	*60-145*			
Surrogate: Toluene-d8	*2.57*		*"*	*2.50*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.48*		*"*	*2.50*		*99*	*60-120*			
Matrix Spike Dup (7A24020-MSD1)	**Source: MQA0591-02**			Prepared & Analyzed: 01/24/07						
Benzene	11.5	0.50	ug/l	10.0	ND	115	70-125	0.9	15	
Toluene	11.2	0.50	"	10.0	ND	112	70-120	3	15	
Ethylbenzene	12.1	0.50	"	10.0	ND	121	70-130	2	15	
Xylenes (total)	36.8	0.50	"	30.0	ND	123	80-125	0	15	
Methyl tert-butyl ether	11.1	0.50	"	10.0	ND	111	50-140	5	25	
Di-isopropyl ether	11.9	0.50	"	10.0	ND	119	70-130	2	35	
Ethyl tert-butyl ether	11.4	0.50	"	10.0	ND	114	65-130	4	35	
tert-Amyl methyl ether	11.5	0.50	"	10.0	ND	115	65-135	4	25	
tert-Butyl alcohol	230	20	"	200	ND	115	60-135	2	35	
1,2-Dichloroethane	11.9	0.50	"	10.0	ND	119	75-125	0.8	10	
1,2-Dibromoethane (EDB)	11.3	0.50	"	10.0	ND	113	80-125	7	15	
Ethanol	251	100	"	200	ND	126	15-150	8	35	
Surrogate: Dibromofluoromethane	*2.57*		*"*	*2.50*		*103*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.42*		*"*	*2.50*		*97*	*60-145*			
Surrogate: Toluene-d8	*2.47*		*"*	*2.50*		*99*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.46*		*"*	*2.50*		*98*	*60-120*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0566
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A26004 - EPA 5030B P/T / EPA 8260B										
Blank (7A26004-BLK1)				Prepared & Analyzed: 01/26/07						
Benzene	ND	0.50	ug/l							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	0.50	"							
Ethyl tert-butyl ether	ND	0.50	"							
tert-Amyl methyl ether	ND	0.50	"							
tert-Butyl alcohol	ND	20	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Ethanol	ND	100	"							
Surrogate: Dibromofluoromethane	*2.33*		*"*	*2.50*		*93*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.40*		*"*	*2.50*		*96*	*60-145*			
Surrogate: Toluene-d8	*2.43*		*"*	*2.50*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.52*		*"*	*2.50*		*101*	*60-120*			
Laboratory Control Sample (7A26004-BS1)				Prepared & Analyzed: 01/26/07						
Benzene	11.5	0.50	ug/l	10.0		115	70-125			
Toluene	11.1	0.50	"	10.0		111	70-120			
Ethylbenzene	11.6	0.50	"	10.0		116	70-130			
Xylenes (total)	34.6	0.50	"	30.0		115	80-125			
Methyl tert-butyl ether	11.4	0.50	"	10.0		114	50-140			
Di-isopropyl ether	10.6	0.50	"	10.0		106	70-130			
Ethyl tert-butyl ether	11.3	0.50	"	10.0		113	65-130			
tert-Amyl methyl ether	12.3	0.50	"	10.0		123	65-135			
tert-Butyl alcohol	197	20	"	200		98	60-135			
1,2-Dichloroethane	11.5	0.50	"	10.0		115	75-125			
1,2-Dibromoethane (EDB)	11.4	0.50	"	10.0		114	80-125			
Ethanol	218	100	"	200		109	15-150			
Surrogate: Dibromofluoromethane	*2.49*		*"*	*2.50*		*100*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.61*		*"*	*2.50*		*104*	*60-145*			
Surrogate: Toluene-d8	*2.50*		*"*	*2.50*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.73*		*"*	*2.50*		*109*	*60-120*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0566
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control

TestAmerica - Morgan Hill, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7A26004 - EPA 5030B P/T / EPA 8260B										
Matrix Spike (7A26004-MS1)	**Source: MQA0684-01**			Prepared & Analyzed: 01/26/07						
Benzene	12.2	0.50	ug/l	10.0	ND	122	70-125			
Toluene	11.4	0.50	"	10.0	ND	114	70-120			
Ethylbenzene	11.8	0.50	"	10.0	ND	118	70-130			
Xylenes (total)	35.3	0.50	"	30.0	ND	118	80-125			
Methyl tert-butyl ether	18.4	0.50	"	10.0	7.2	112	50-140			
Di-isopropyl ether	11.0	0.50	"	10.0	ND	110	70-130			
Ethyl tert-butyl ether	11.2	0.50	"	10.0	ND	112	65-130			
tert-Amyl methyl ether	12.2	0.50	"	10.0	ND	122	65-135			
tert-Butyl alcohol	200	20	"	200	ND	100	60-135			
1,2-Dichloroethane	10.5	0.50	"	10.0	0.30	102	75-125			
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0	ND	112	80-125			
Ethanol	228	100	"	200	ND	114	15-150			
Surrogate: Dibromofluoromethane	*2.33*		*"*	*2.50*		*93*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.20*		*"*	*2.50*		*88*	*60-145*			
Surrogate: Toluene-d8	*2.40*		*"*	*2.50*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.59*		*"*	*2.50*		*104*	*60-120*			
Matrix Spike Dup (7A26004-MSD1)	**Source: MQA0684-01**			Prepared & Analyzed: 01/26/07						
Benzene	12.6	0.50	ug/l	10.0	ND	126	70-125	3	15	M7
Toluene	11.7	0.50	"	10.0	ND	117	70-120	3	15	
Ethylbenzene	11.9	0.50	"	10.0	ND	119	70-130	0.8	15	
Xylenes (total)	35.9	0.50	"	30.0	ND	120	80-125	2	15	
Methyl tert-butyl ether	19.1	0.50	"	10.0	7.2	119	50-140	4	25	
Di-isopropyl ether	11.4	0.50	"	10.0	ND	114	70-130	4	35	
Ethyl tert-butyl ether	11.7	0.50	"	10.0	ND	117	65-130	4	35	
tert-Amyl methyl ether	12.7	0.50	"	10.0	ND	127	65-135	4	25	
tert-Butyl alcohol	204	20	"	200	ND	102	60-135	2	35	
1,2-Dichloroethane	11.0	0.50	"	10.0	0.30	107	75-125	5	10	
1,2-Dibromoethane (EDB)	11.7	0.50	"	10.0	ND	117	80-125	4	15	
Ethanol	222	100	"	200	ND	111	15-150	3	35	
Surrogate: Dibromofluoromethane	*2.40*		*"*	*2.50*		*96*	*75-130*			
Surrogate: 1,2-Dichloroethane-d4	*2.24*		*"*	*2.50*		*90*	*60-145*			
Surrogate: Toluene-d8	*2.43*		*"*	*2.50*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*2.58*		*"*	*2.50*		*103*	*60-120*			

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Treadwell & Rollo - Oakland	Project: 1600 63rd Street, Emeryville	MQA0566
501 14th Street 3rd Floor	Project Number: 3494.01	**Reported:**
Oakland CA, 94612	Project Manager: Matt Hall	03/20/07 17:48

Notes and Definitions

ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
RL2	Reporting limit raised due to high concentrations of hydrocarbons.
R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
Q1	Does not match typical pattern
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
A-01	Pattern does not match typical gasoline.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

MQA0544

☐ 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 Rd., Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7412

Site Name: 1600 63rd Street, Emeryville
Job Number: 3494.01
Project Manager\Contact: Matthew Hall
Samplers: Matthew Hall
Recorder (Signature Required):

Turnaround Time

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPH-gas	TPH-diesel	BTEX	Fuel oxygenates	Chlorinated	Total lead	Silica gel clean-up	Hold	Remarks
TR-3	1/15/07	11:00	61		X					●			X							
TR-3	1/15/07	11:00			X		3					X		X	X	X				
TR-3	1/15/07	11:00			X				●								X			
TR-1	1/15/07	11:45	62		X					1			X							
TR-1	1/15/07	11:45			X		3					X		X	X	X				
TR-1	1/15/07	11:45			X				1								X			
TR-4	1/15/07	1:45	63		X					1			X							
TR-4	1/15/07	1:45			X		3					X		X	X	X				
TR-4	1/15/07	1:45			X				1								X			

Relinquished by: (Signature)	Date 1/16/07	Time 3:32	Received by: (Signature)	Date 1-16-07	Time 1700
Relinquished by: (Signature)	Date 1-16-07	Time 1455	Received by: (Signature)	Date 1-16-07	Time 1455
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): Test America
Laboratory Comments/Notes:

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

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number: 006562

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

MQA0564

☐ 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 Rd., Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7412

Site Name: 1600 63rd Street, Emeryville
Job Number: 3494.01
Project Manager\Contact: Matthew Hall
Samplers: Matthew Hall
Recorder (Signature Required):

Turnaround Time

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPH- gas	TPH - diesel	BTEX	Fuel Oxygenate	ethanol	total lead	Silica gel clean-up	Hold	Remarks
TR-2	1/15/07	3:45	04		X					2			X							Samples may contain
TR-2		3:45	L		X		3					X		X	X	X				free phase product.
TR-2		3:45	L		X				1								X			We are interested in
MW-2		4:45	05		X					2			X							dissolved concentrations.
MW-2		4:45	L		X		3		[illegible]			X		X	X	X				Any special extraction
MW-2		4:45	L		X				1								X			methods should be
TR-5		5:15	04		X					2			X							utilized. An additional
TR-5		5:15	L		X		3					X		X	X	X				Amber was provided
TR-5		5:15	L		X				1								X			to assist with sample
																				prep.

Relinquished by: (Signature)	Date 1/16/07	Time 3:32	Received by: (Signature)
Relinquished by: (Signature)	Date 1-16-07	Time ~~1700~~ 1955	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)

Received by: (Signature)	Date 1-16-07	Time 1700
Received by: (Signature)	Date 1-16-07	Time 1955
Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): TestAmerica
Laboratory Comments/Notes:

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

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number: 006563

TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: 16 00 63rd Street
REC. BY (PRINT): Shawn
WORKORDER: MRK0544

DATE REC'D AT LAB: 11/6/07
TIME REC'D AT LAB: 1955
DATE LOGGED IN: 11-7-07

For Regulatory Purposes?
DRINKING WATER YES / NO (NO circled)
WASTE WATER YES / NO (NO circled)

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / Absent (Absent circled)	01	TR-1	1(L) Amber	—	—	L	11/5/07	
	Intact / Broken*	↓	↓	1(L) Poly	HNO3	↓	↓	↓	
2. Chain-of-Custody	Present / Absent* (Present circled)	↓	↓	VOA-3	HCL				
3. Traffic Reports or		02	TR-2	2(L) Amber	—				
Packing List:	Present / Absent (Absent circled)	↓	↓	2(L) Poly	HNO3				
4. Airbill:	Airbill / Sticker	↓	↓	VOA-3	HCL				
	Present / Absent (Absent circled)	03	TR-3	1(L) Amber	—				
5. Airbill #:	—	↓	↓	1(L) Poly	HNO3				
6. Sample Labels:	Present / Absent (Present circled)	↓	↓	VOA-3					
7. Sample IDs:	Listed / Not Listed (Listed circled)	04	TR-4	Same	Same				
	on Chain-of-Custody	05	TR-5	2(L) Amber	—				
8. Sample Condition:	Intact / Broken* / (Intact circled)		↓	1(L) Poly	HNO3				
	Leaking*	L	↓	VOA-3	HCL				
9. Does information on chain-of-custody,		06	MW-2	2(L) Amber	—				
traffic reports and sample labels			↓	VOA-3	HCL	↓	↓	↓	
agree?	Yes / No* (Yes circled)								
10. Sample received within									
hold time?	Yes / No* (Yes circled)								
11. Adequate sample volume									
received?	Yes / No* (Yes circled)								
12. Proper preservatives used?	Yes / No* (Yes circled)								
13. Trip Blank / Temp Blank Received?									
(circle which, if yes)	Yes / No* (No circled)								
14. Read Temp:	1.0								
Corrected Temp:	1.0								
Is corrected temp 4 +/-2°C?	Yes / No** (Yes circled)								
(Acceptance range for samples requiring thermal pres.)									
**Exception (if any): METALS / DFF ON ICE									
or Problem COC									

Shawn 11/6/07

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

APPENDIX F
Chromatograms

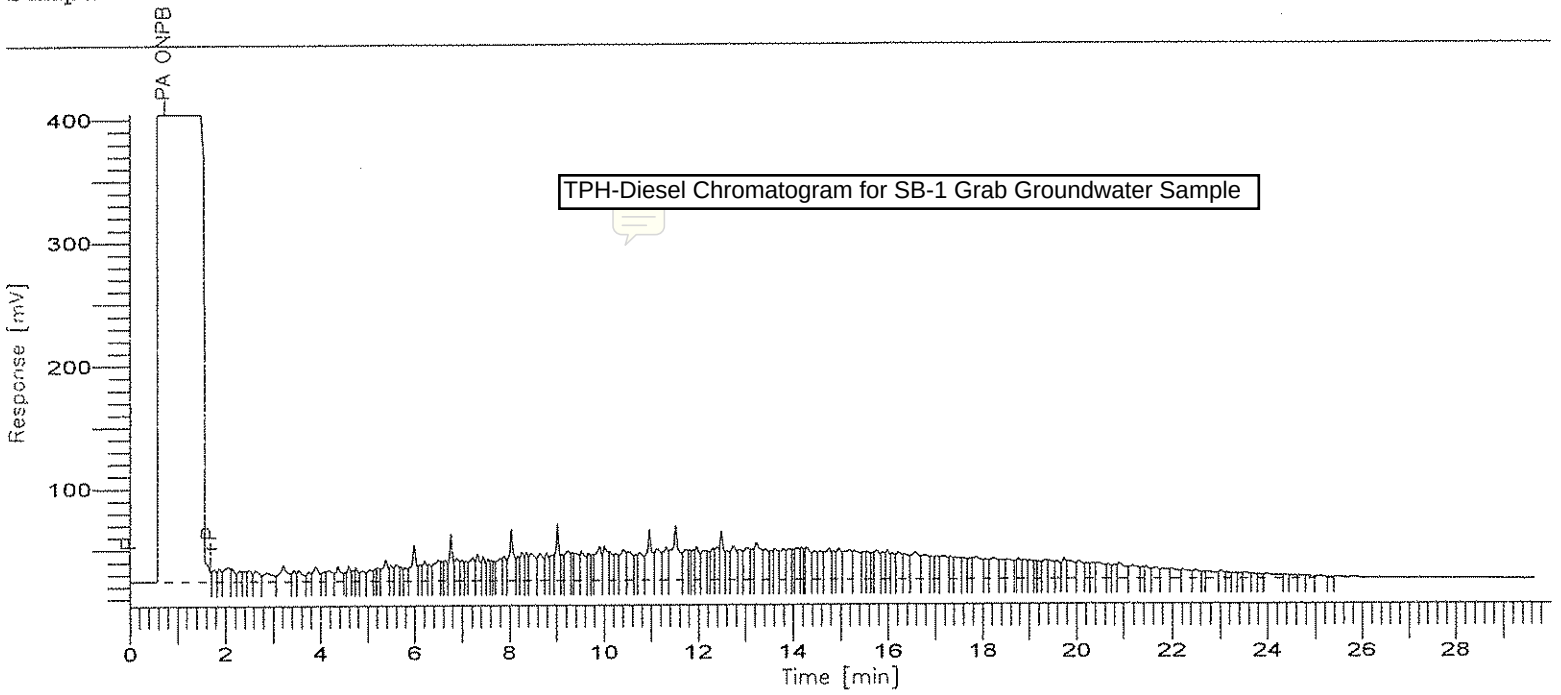
```
Software Version: 4.1<2F12>
Sample Name   : MQA0437-42                          Time   : 1/17/07  01:17 PM
Sample Number: SB-1                                 Study  : TREADWELL
Operator      : RV

Instrument    : GCHP_05                    Channel : A     A/D mV Range : 1000
AutoSampler   : HP7673A
Rack/Vial     : 0/6

Interface Serial # : NONE   Data Acquisition Time: 1/17/07  12:45 PM
Delay Time       : 0.00   min.
End Time         : 29.65  min.
Sampling Rate    : 1.2500   pts/sec

Raw Data File     : S:\GHP_05\011707\117A006.RAW
Result File       : S:\GHP_05\011707\117A006.RST
Inst Method       : S:\GHP_05\MET_SEQ\TPH05A from S:\GHP_05\011707\117A006.RST
Proc Method       : S:\GHP_05\MET_SEQ\TPH05A.mth
Calib Method      : S:\GHP_05\MET_SEQ\TPH05A.mth
Sequence File     : S:\GHP_05\MET_SEQ\H05_0117.SEQ

Sample Volume     : 1.0000      uL          Area Reject       : 0.000000
Sample Amount     : 1.0000                  Dilution Factor   : 200.00
```



TPH-Diesel Chromatogram for SB-1 Grab Groundwater Sample

Time [min]	Component Name	Area [µV·s]	Raw Amount (ng)	Soil (mg/kg)	Water (µg/L)
4.422	n-C9 to n-C13 Mineral Spir	3244338	3.2	7.210	216.289
4.422	n-C9 to n-C13 Stoddard Solv	3244338	3.2	7.210	216.289
4.422	n-C9 to n-C13 Paint Thinner	3244338	3.2	7.210	216.289
5.591	n-C9 to n-C15 JP-4	6176492	6.2	13.726	411.766
6.611	n-C9 to n-C17 Jet A	8748653	574.3	1276.129	38283.876
6.611	n-C9 to n-C17 JP-5	8748653	8.7	19.441	583.244
7.090	n-C9 to n-C18 Kerosene	10176715	10.2	22.615	678.448
7.090	n-C9 to n-C18 JP-8	10176715	10.2	22.615	678.448
9.476	n-C9 to n-C24 TPH-D	16878512	1023.7	2274.930	68247.908
9.695	LUFT DRO n-C10 to n-C23	15357256	994.1	2209.056	66271.673
10.149	n-C9 to n-C26 Heating Oil	18045625	18.0	40.101	1203.042
11.124	B&C DIESEL C12 to C23	13912621	1048.2	2329.232	69876.958
11.223	n-C10 to n-C28 8015 TOTAL	18393901	1150.7	2557.217	76716.499
12.899	n-C9 to n-C36	21261938	21.3	47.249	1417.463
13.365	n-C12 to n-C30 Transformer O	18096495	18.1	40.214	1206.433
13.481	n-C10 to n-C36 DRO	20669518	1289.3	2865.033	85950.979
14.067	n-C9 to n-C40 Total	21383891	1425.6	3167.984	95039.514
14.540	n-C13 to n-C32 8015	17424914	1256.0	2791.009	83730.280
15.438	n-C12 to n-C38 Fuel Oil #6	19336209	19.3	42.969	1289.081
16.222	n-C15 to n-C34 Mineral Oil	14820622	14.8	32.935	988.041
16.762	n-C16 to n-C34 Transmiss Oil	13510888	13.5	30.024	900.726
17.248	n-C16 to n-C36 Motor Oil	13775712	1020.2	2267.140	68014.211
18.416	n-C16 to n-C40 Hydraulic Oil	13897665	13.9	30.884	926.511
19.744	n-C28	105405	7.1	15.711	471.338
21.398	B&C MOTOR OIL C23 to C40	5434214	488.4	1085.424	32562.715
		316065627	10441.5		

Report stored in ASCII file: S:\GHP_05\011707\117A006.TXO

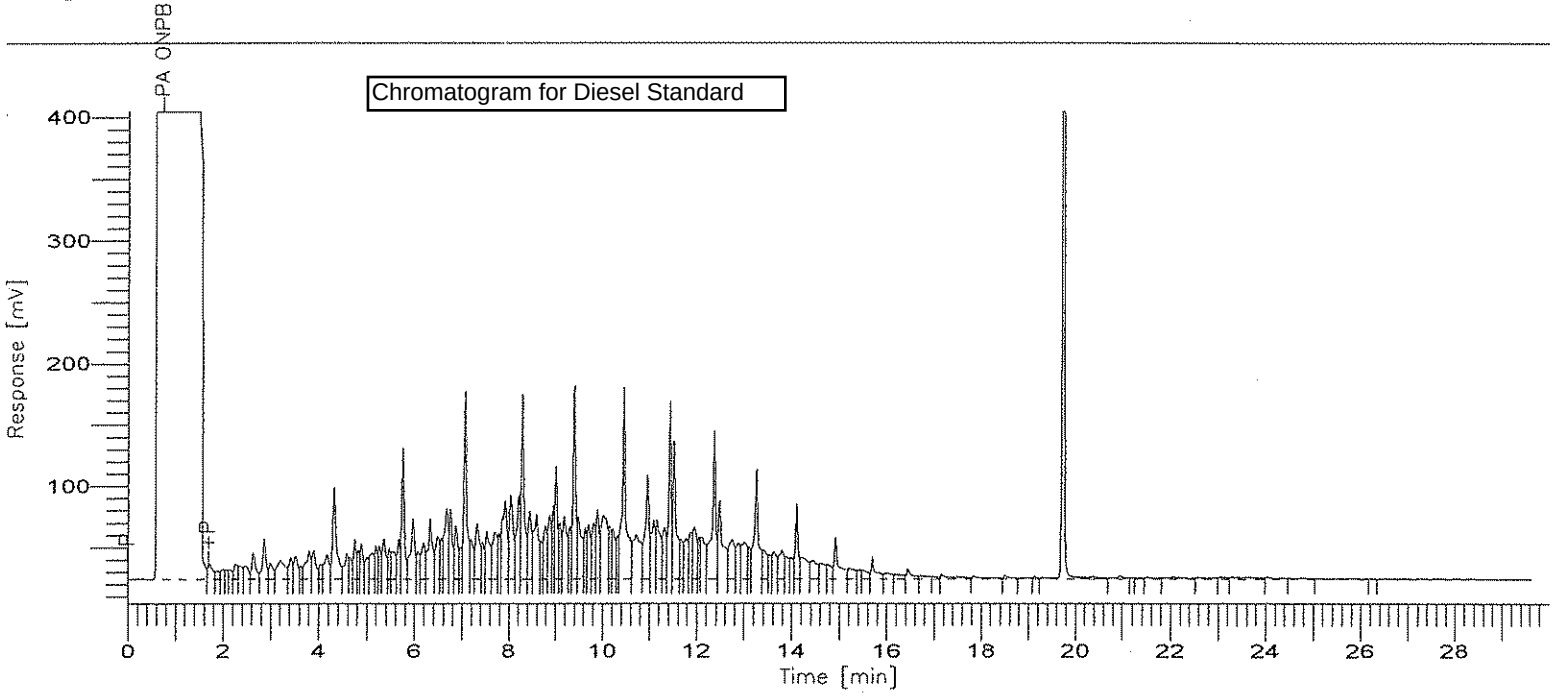
Software Version: 4.1<2F12>
Sample Name : DSTD011706_500PPM Time : 1/17/07 03:50 PM
Sample Number: 6120149 Study : TA
Operator : RV

Instrument : GCHP_05 Channel : A A/D mV Range : 1000
AutoSampler : HP7673A
Rack/Vial : 0/10

Interface Serial # : NONE Data Acquisition Time: 1/17/07 03:13 PM
Delay Time : 0.00 min.
End Time : 29.65 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : S:\GHP_05\011707\117A010.RAW
Result File : S:\GHP_05\011707\117A010.RST
Inst Method : S:\GHP_05\MET_SEQ\TPH05A from S:\GHP_05\011707\117A010.RST
Proc Method : S:\GHP_05\MET_SEQ\TPH05A.mth
Calib Method : S:\GHP_05\MET_SEQ\TPH05A.mth
Sequence File : S:\GHP_05\MET_SEQ\H05_0117.SEQ

Sample Volume : 1.0000 uL Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 1.00



Time [min]	Component Name	Area [µV·s]	Raw Amount (ng)	Soil [mg/kg]	Water [ug/L]
4.422	n-C9 to n-C13 Mineral Spir	6087935	6.1	0.068	2.029
4.422	n-C9 to n-C13 Stoddard Solv	6087935	6.1	0.068	2.029
4.422	n-C9 to n-C13 Paint Thinner	6087935	6.1	0.068	2.029
5.591	n-C9 to n-C15 JP-4	12349820	12.3	0.137	4.117
6.611	n-C9 to n-C17 Jet A	18277938	1199.8	13.331	399.919
6.611	n-C9 to n-C17 JP-5	18277938	18.3	0.203	6.093
7.090	n-C9 to n-C18 Kerosene	20599343	20.6	0.229	6.866
7.090	n-C9 to n-C18 JP-8	20599343	20.6	0.229	6.866
9.476	n-C9 to n-C24 TPH-D	24675722	1496.6	16.629	498.879
9.595	LUFT DRO n-C10 to n-C23	23922351	1548.5	17.205	516.165
10.149	n-C9 to n-C26 Heating Oil	24799093	24.8	0.276	8.266
11.124	B&C DIESEL C12 to C23	20596686	1551.7	17.241	517.240
11.223	n-C10 to n-C28 8015 TOTAL	24184784	1513.0	16.811	504.344
12.899	n-C9 to n-C36	27256624	27.3	0.303	9.086
13.365	n-C12 to n-C30 Transformer O	23060555	23.1	0.256	7.687
13.481	n-C10 to n-C36 DRO	26615564	1660.2	18.446	553.383
14.067	n-C9 to n-C40 Total	27348299	1823.2	20.258	607.740
14.540	n-C13 to n-C32 8015	21016817	1514.9	16.832	504.951
15.438	n-C12 to n-C38 Fuel Oil #6	23341289	23.3	0.259	7.780
16.222	n-C15 to n-C34 Mineral Oil	14835724	14.8	0.165	4.945
16.762	n-C16 to n-C34 Transmiss Oil	11142946	11.1	0.124	3.714
17.248	n-C16 to n-C36 Motor Oil	11214026	830.5	9.228	276.833
18.416	n-C16 to n-C40 Hydraulic Oil	11305700	11.3	0.126	3.769
19.740	n-C28	2155820	144.6	1.607	48.201
21.398	B&C MOTOR OIL C23 to C40	2784868	250.3	2.781	83.438
		428625076	13759.1		

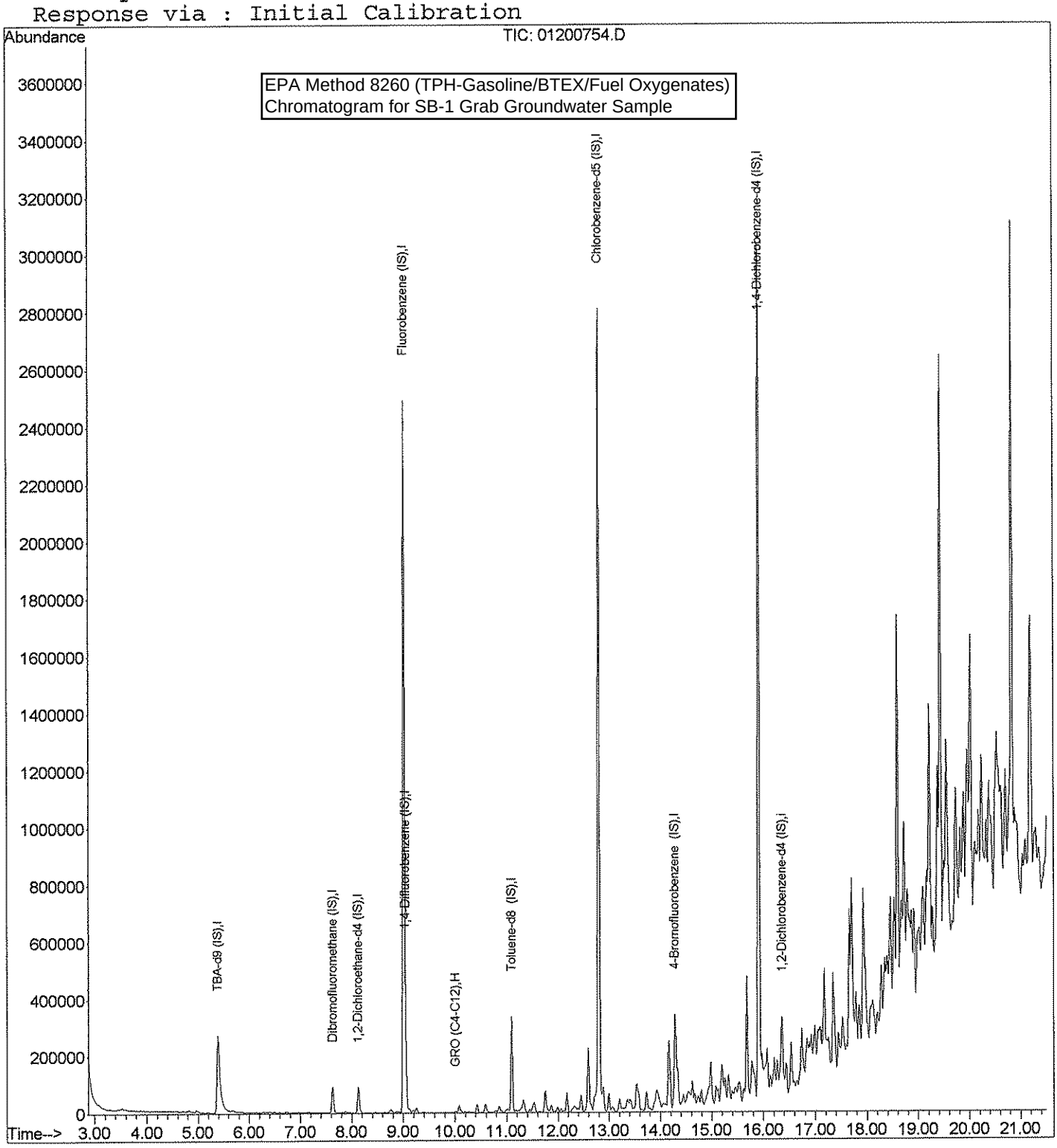
PASS

Report stored in ASCII file: S:\GHP_05\011707\117A010.TXO

Quantitation Report (Not Reviewed)

Data File : D:\MSDCHEM\1\DATA\07JAN20\01200754.D Vial: 40
Acq On : 21 Jan 2007 4:18 am Operator: tmn/av
Sample : MQA0437-42@TREADWELL&ROLLO (W) Inst : GCV-MS8
Misc : 500@20UL/10ml SB-1 5uL6120180 Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Jan 22 17:05 2007 Quant Results File: 87A15TPH.RES

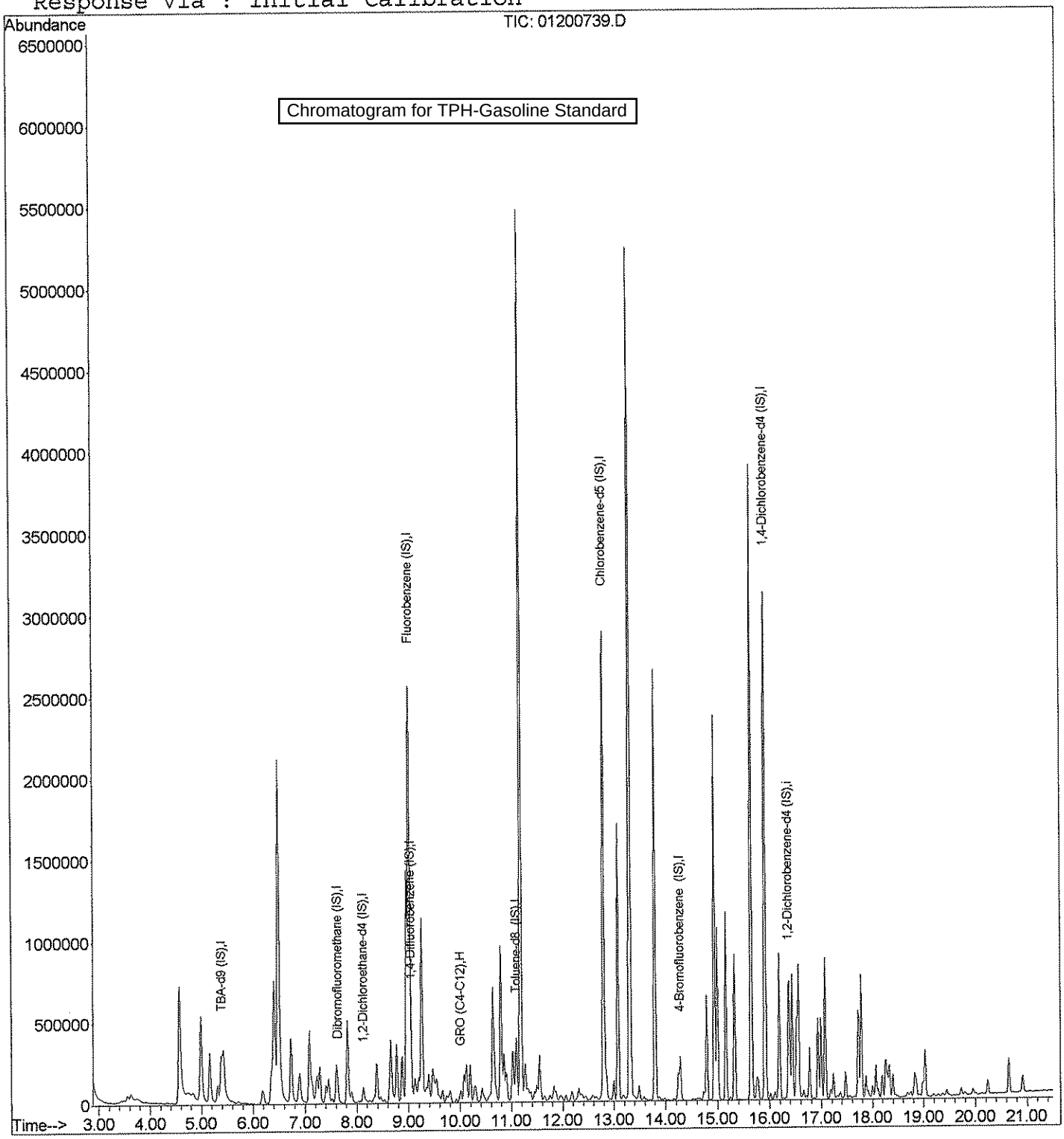
Method : D:\MSDCHEM\1\METHODS\87C07826.M (RTE Integrator)
Title : 8260B/624/524.2
Last Update : Thu Mar 08 08:22:12 2007
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

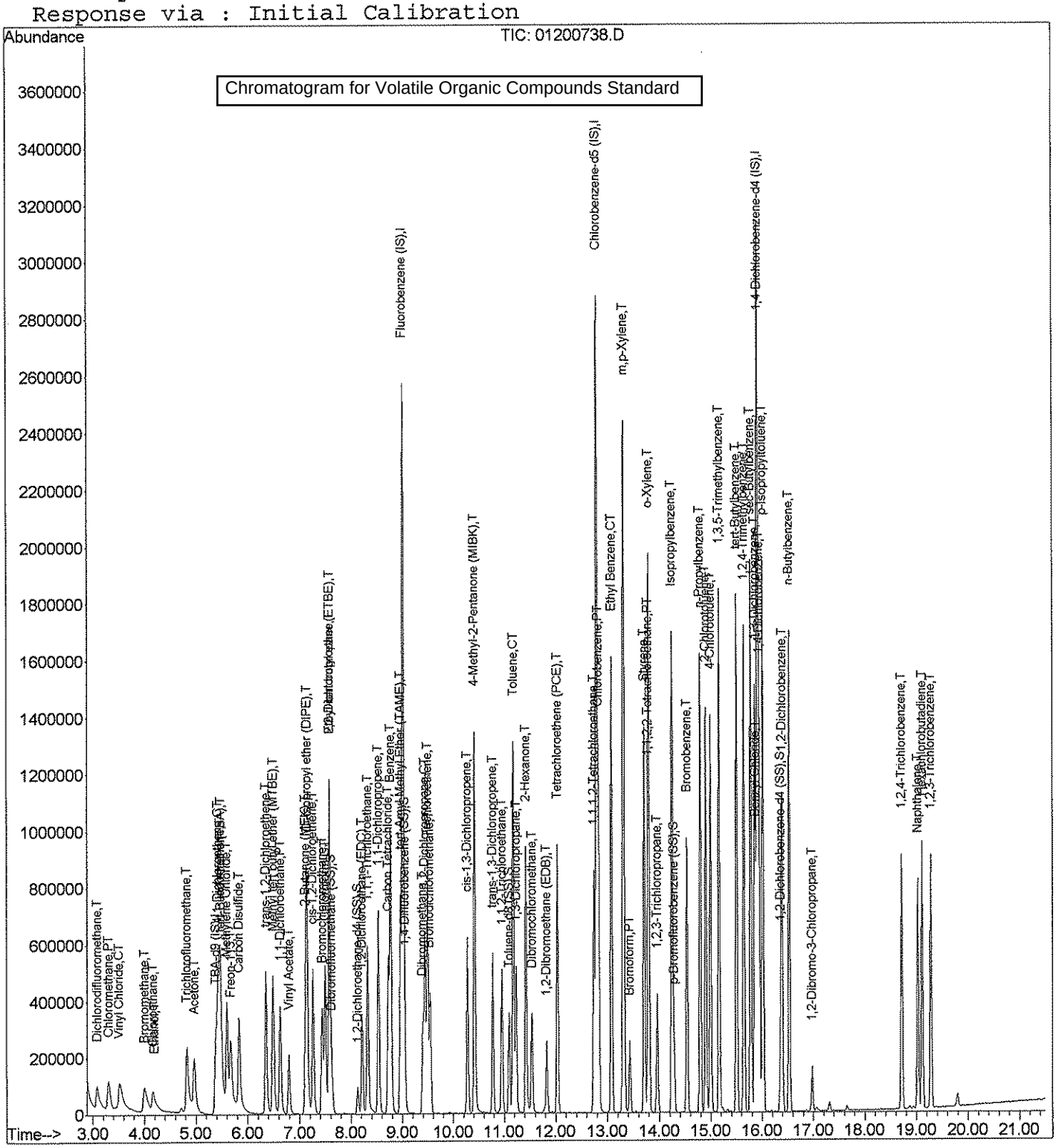
Data File : D:\MSDCHEM\1\DATA\07JAN20\01200739.D Vial: 25
Acq On : 20 Jan 2007 8:52 pm Operator: tmn/av
Sample : 500PPB TPH CCV Inst : GCV-MS8
Misc : 1@10ml +5uL6120180+25uL7010077a Multiplr: 1.00
MS Integration Params: EVENTS.E
Quant Time: Jan 22 16:43 2007 Quant Results File: 87A15TPH.RES

Method : D:\MSDCHEM\1\METHODS\87C07826.M (RTE Integrator)
Title : 8260B/624/524.2
Last Update : Thu Mar 08 08:22:12 2007
Response via : Initial Calibration

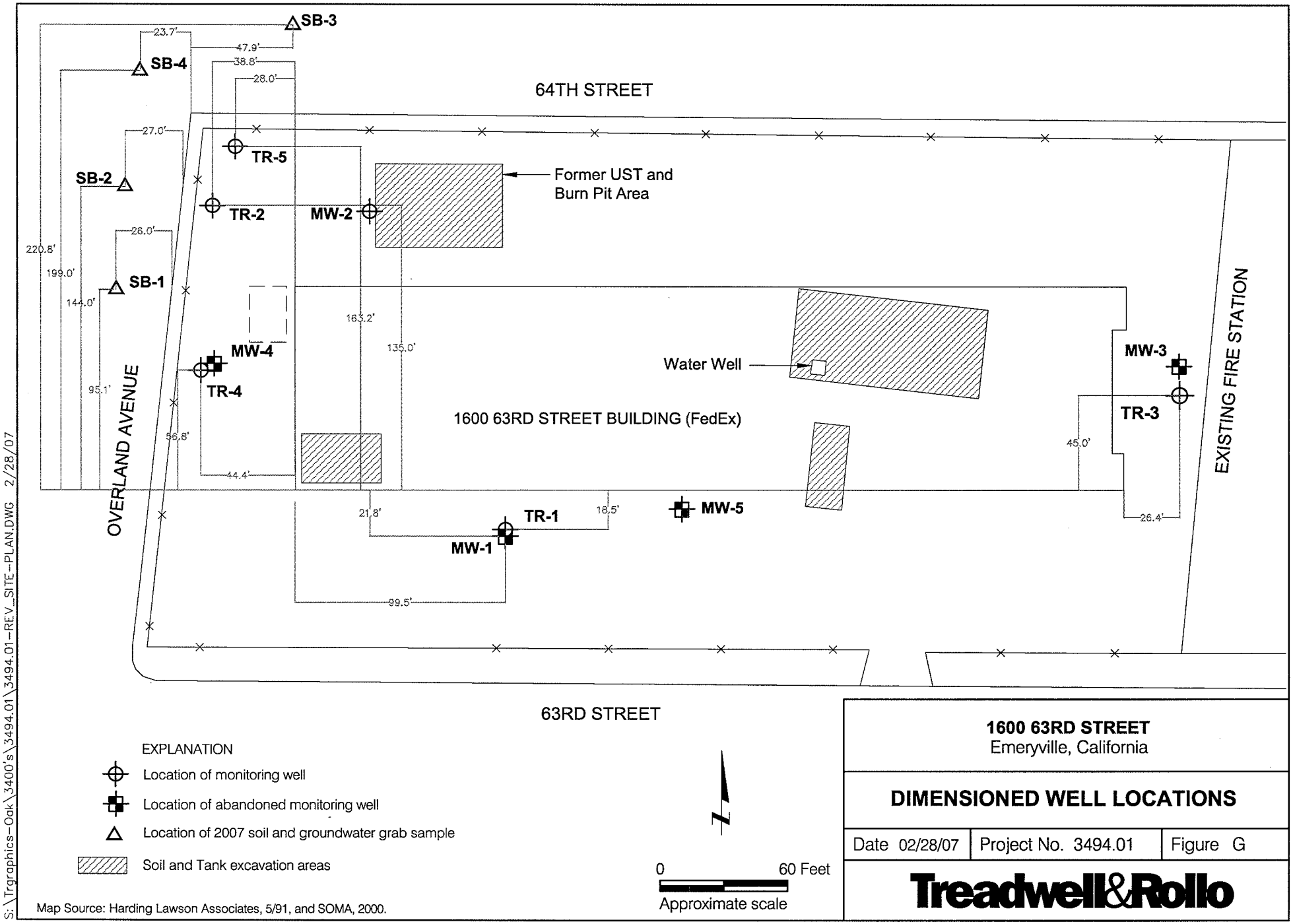


Data File : D:\MSDCHEM\1\DATA\07JAN20\01200738.D Vial: 24
Acq On : 20 Jan 2007 8:22 pm Operator: tmn/av
Sample : 10PPB 8260 CCV Inst : GCV-MS8
Misc : 1@10ml +5uL6120180A+10uL7010159/62 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 21 9:40 2007 Quant Results File: 87A18826.RES

Method : D:\MSDCHEM\1\METHODS\87C07826.M (RTE Integrator)
Title : 8260B/624/524.2
Last Update : Thu Mar 08 08:22:12 2007
Response via : Initial Calibration



APPENDIX G
Dimensioned Well Locations



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

1600 63RD STREET
Emeryville, California

DIMENSIONED WELL LOCATIONS

Date 02/28/07	Project No. 3494.01	Figure G

Treadwell&Rollo

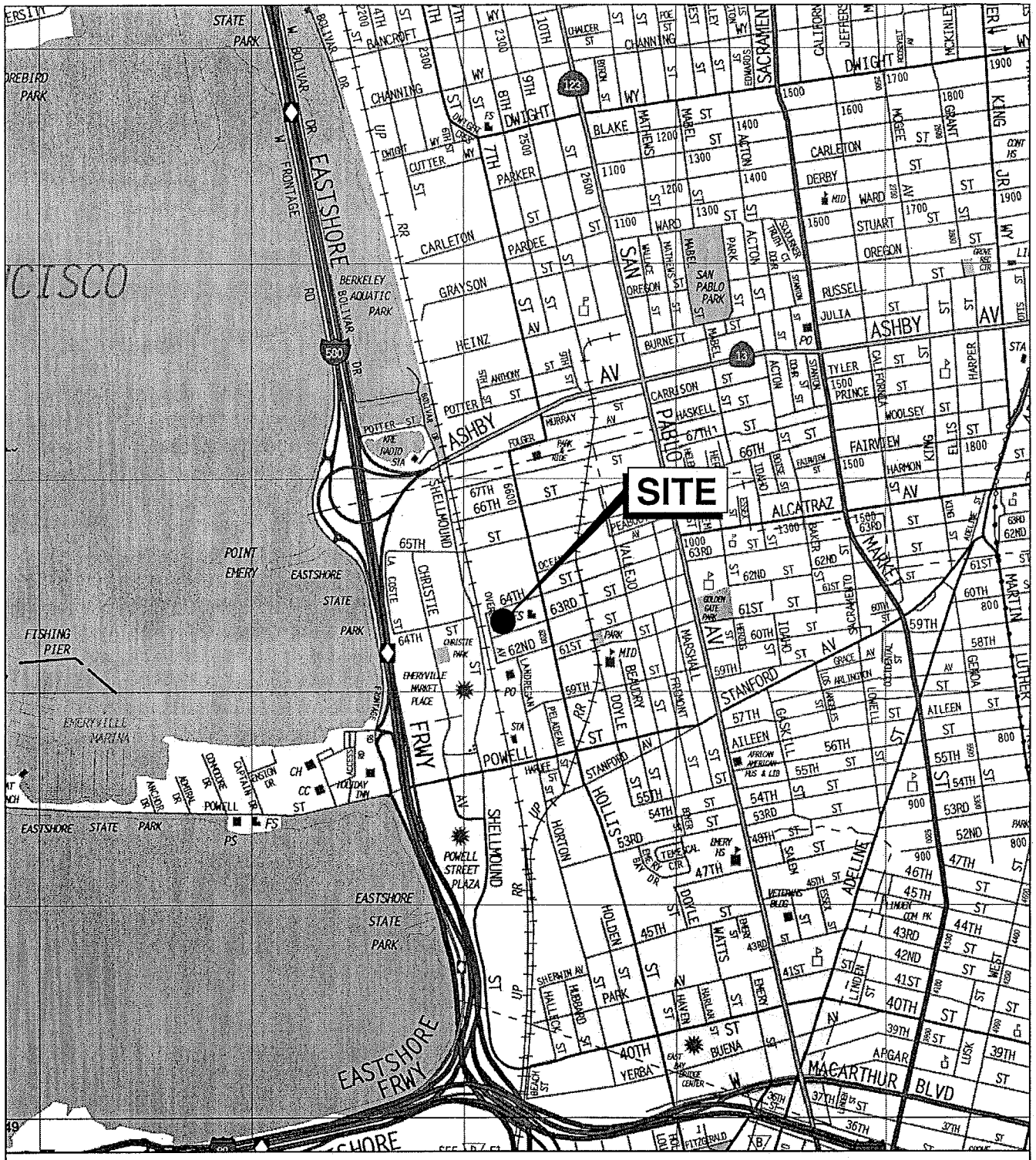
S:\Trgraphics-Oak\3400's\3494.01\3494.01-REV_SITE-PLAN.DWG 2/28/07

APPENDIX H
DWR 188 Forms

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED



Base map: The Thomas Guide
Alameda County
1999

0 1/4 1/2 Mile

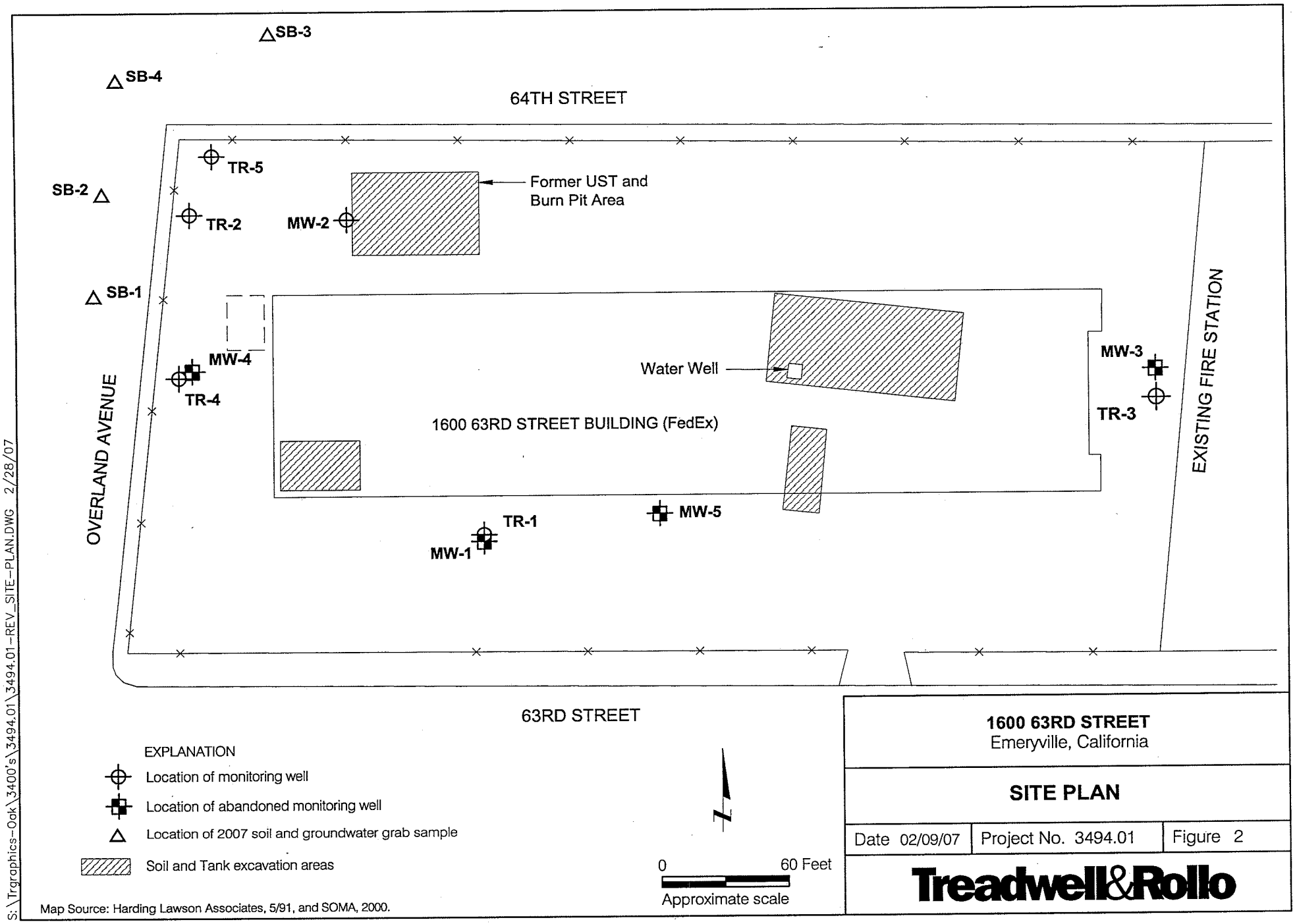
Approximate scale

1600 63RD STREET
Emeryville, California

SITE LOCATION MAP

Treadwell&Rollo

Date 04/21/06	Project No. 3494.01	Figure 1



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

1600 63RD STREET
Emeryville, California

SITE PLAN

Date 02/09/07	Project No. 3494.01	Figure 2

Treadwell&Rollo

S:\Trgraphics-Oak\3400's\3494.01\3494.01-REV_SITE-PLAN.DWG 2/28/07

PROJECT:	1600 63RD STREET Emeryville, California	**Log of Boring TR-1**	PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: M. Hall Drilled By: Precision Drilling Co.
Date started: 1/9/07	Date finished: 1/9/07	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: 5' Acetate Liner		

DEPTH (feet)	Sample Number	Sample	Blow Count	Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							Surface Conditions:
1							FILL
2				55/60	<5	CL	GRAVELLY CLAY (CL) brown, stiff, moist, 30 percent sub-angular gravel up to 1-inch, slightly plastic, 10 percent medium to coarse graded sand, no odor
3							
4						CL	CLAY (CL) brown, soft, moist, non-plastic, 10 percent fine-grained sand, no odor
5	TR-1-4.5-5.0						
6							
7				55/60	<5	SC	▽ CLAYEY SAND (SC) gray, loose, wet, 10 percent sub-angular gravel up to 1/8-inch, slightly plastic, poorly graded, 30 percent fines, no odor
8	TR-1-8.0-8.5						discoloration
9							
10	TR-1-9.5-10.0					CL	SANDY CLAY (CL) gray, medium stiff, wet, slightly plastic, 35 percent fine-grained sand, poorly graded, no odor
11							
12				60/60	<5		
13							CLAY (CH) light brown, soft, wet, very plastic, <5 percent fine-grained sand, poorly graded, no odor
14						CH	
15	TR-1-14.5-15.0						
16							
17				60/60	<5		
18						SC	CLAYEY SAND (SC) light brown, dense, wet, non-plastic, moderately graded, 20 percent fines, no odor
19							
20	TR-1-19.5-20.0						CLAY brown, medium stiff, wet, slightly plastic, 15 percent fine-grained sand, poorly graded, no odor
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Boring terminated at a depth of 20 feet.
Boring backfilled with cement grout.
Groundwater encoutered at 7.3 feet.

Treadwell&Rollo

Project No.:	Figure:
3494.01	A-5

TEST ENVIRONMENTAL 349401.GPJ TR.GDT 3/6/07

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size	Gravels (More than half of coarse fraction > no. 4 sieve size)	GW	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	SW	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	MH	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		PT	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel	3" to No. 4	76.2 to 4.76
coarse	3" to 3/4"	76.2 to 19.1
fine	3/4" to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.074
coarse	No. 4 to No. 10	4.76 to 2.00
medium	No. 10 to No. 40	2.00 to 0.420
fine	No. 40 to No. 200	0.420 to 0.074
Silt and Clay	Below No. 200	Below 0.074

Unstabilized groundwater level

Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with split-barrel sampler other than Standard Penetration Test sampler. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test sampler

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample

Analytical laboratory sample

Sample taken with Direct Push sampler

SAMPLER TYPE

C Core barrel

CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter

D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube

O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter

SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter

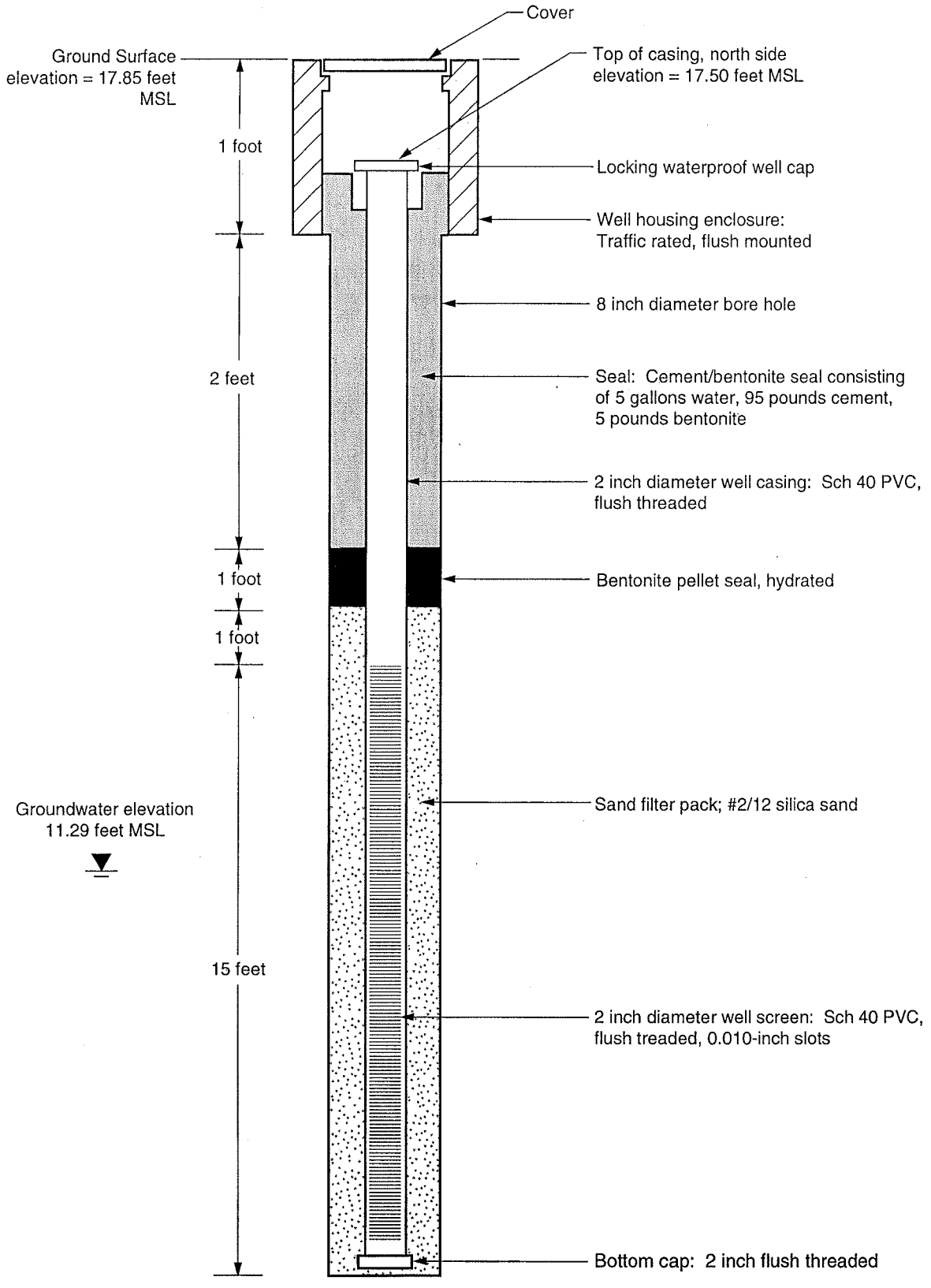
ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

1600 63 STREET
Emeryville, California

CLASSIFICATION CHART

Treadwell&Rollo

Date 03/02/07 | Project No. 3494.01 | Figure A-10



Not to scale

1600 63RD STREET
Emeryville, California

TR-1 WELL
CONSTRUCTION DIAGRAM

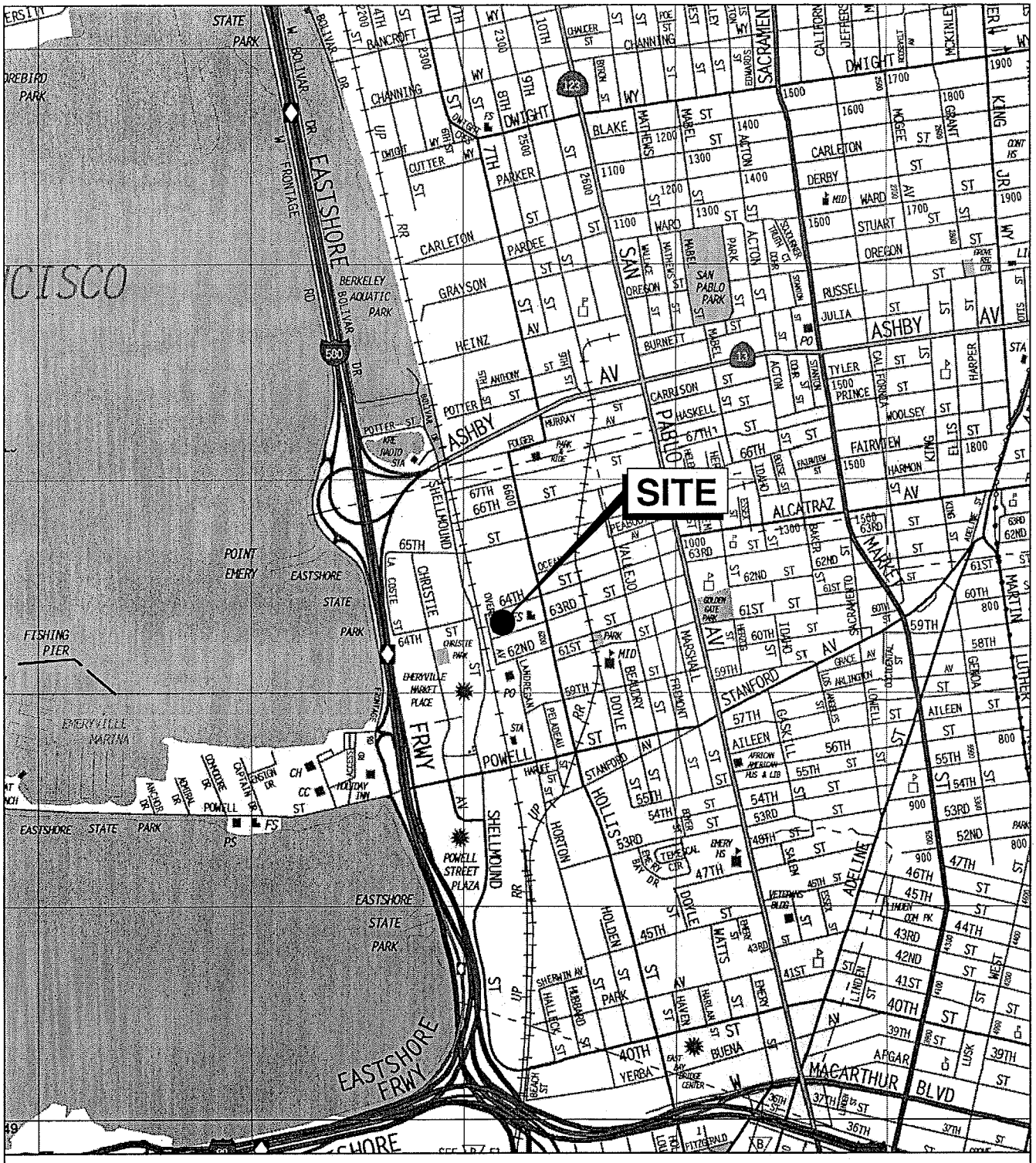
Treadwell&Rollo

Date 03/06/07	Project No. 3494.01	Figure A-11

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED



Base map: The Thomas Guide
Alameda County
1999

0 1/4 1/2 Mile

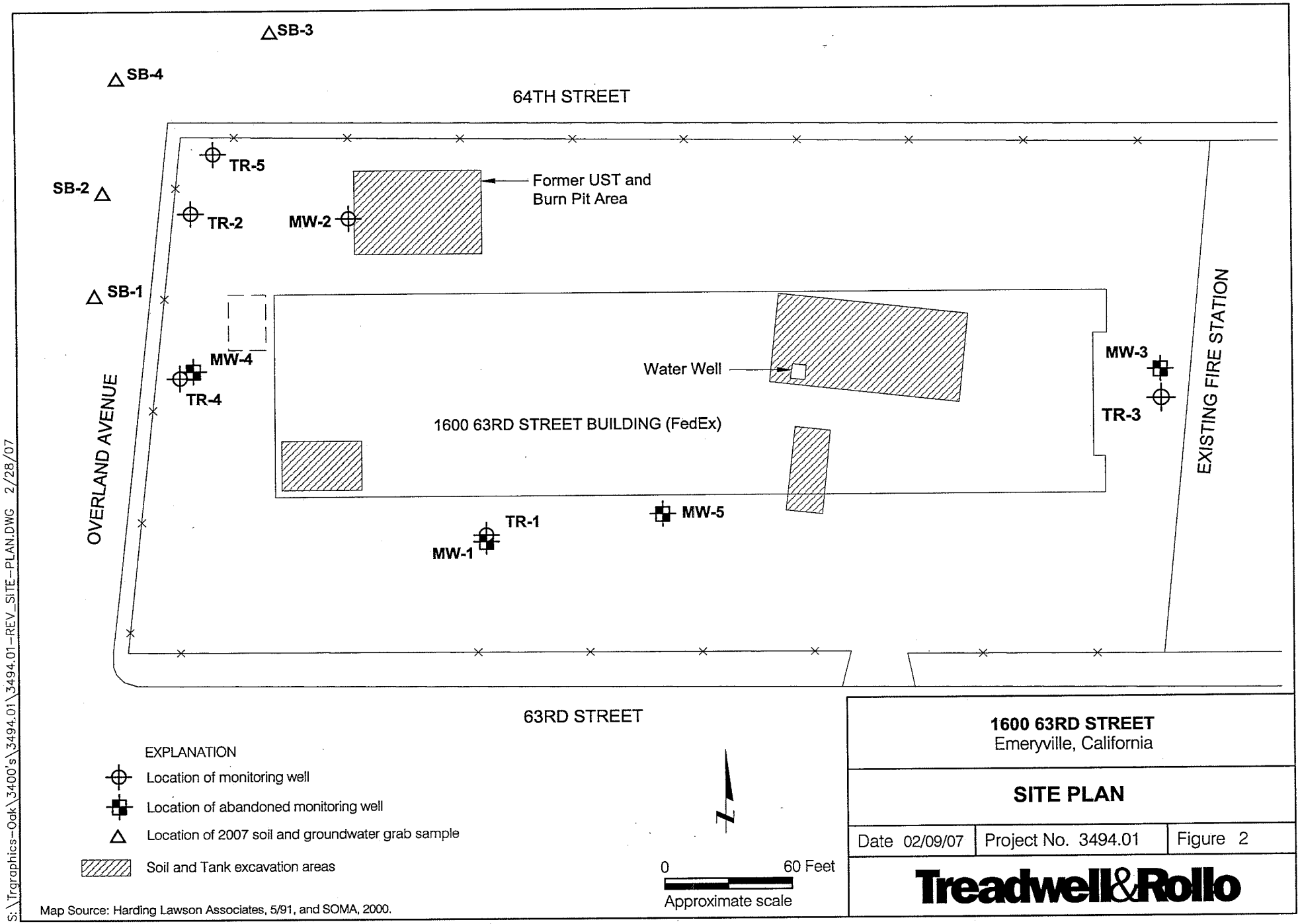
Approximate scale

1600 63RD STREET
Emeryville, California

SITE LOCATION MAP

Treadwell&Rollo

Date 04/21/06	Project No. 3494.01	Figure 1



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

1600 63RD STREET
Emeryville, California

SITE PLAN

Date 02/09/07	Project No. 3494.01	Figure 2

Treadwell&Rollo

S:\Trgraphics-Oak\3400's\3494.01\3494.01-REV_SITE-PLAN.DWG 2/28/07

PROJECT:	1600 63RD STREET Emeryville, California	**Log of Boring TR-2**	PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: M. Hall Drilled By: Precision Drilling Co.
Date started: 1/9/07	Date finished: 1/9/07	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: 5' Acetate Liner		

DEPTH (feet)	SAMPLES: Sample Number	SAMPLES: Sample	SAMPLES: Blow Count	SAMPLES: Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							Surface Conditions:
1–3				60/60	<5		FILL
4–8	TR-2-4.5-5.0			60/60	<5	CL	SANDY CLAY (CL) dark brown, soft, moist, plastic, 35 percent fine-grained sand, poorly graded, no odor ▽
9–11	TR-2-9.5-10.0			55/60	10	CL	CLAY with SAND (CL) gray, medium stiff, moist, slightly plastic, 20 percent fine-grained sand, poorly graded, no odor, slight petroleum
12–18	TR-2-14.5-15.0			60/60	10	CL	SANDY CLAY (CL) gray, very plastic, 40 percent fine-grained sand, poorly graded, moderate odor
19–20	TR-2-19.5-20.0					SP-SM	SAND with SILT and GRAVEL (SP-SM) gray, moderately dense, wet, 30 percent sub-angular gravel, 10 percent fines, moderate odor
21–30							

FILL

Boring terminated at a depth of 20 feet.
Boring backfilled with cement grout.
Groundwater encoutered at 7.8 feet.

Treadwell&Rollo

Project No.:	Figure:
3494.01	A-6

TEST ENVIRONMENTAL 349401.GPJ TR.GDT 3/6/07

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size)	Gravels (More than half of coarse fraction > no. 4 sieve size)	GW	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	SW	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	MH	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		PT	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
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Cobbles	12" to 3"	305 to 76.2
Gravel	3" to No. 4	76.2 to 4.76
coarse	3" to 3/4"	76.2 to 19.1
fine	3/4" to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.074
coarse	No. 4 to No. 10	4.76 to 2.00
medium	No. 10 to No. 40	2.00 to 0.420
fine	No. 40 to No. 200	0.420 to 0.074
Silt and Clay	Below No. 200	Below 0.074

Unstabilized groundwater level

Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with split-barrel sampler other than Standard Penetration Test sampler. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test sampler

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample

Analytical laboratory sample

Sample taken with Direct Push sampler

SAMPLER TYPE

C Core barrel

CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter

D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube

O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter

SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter

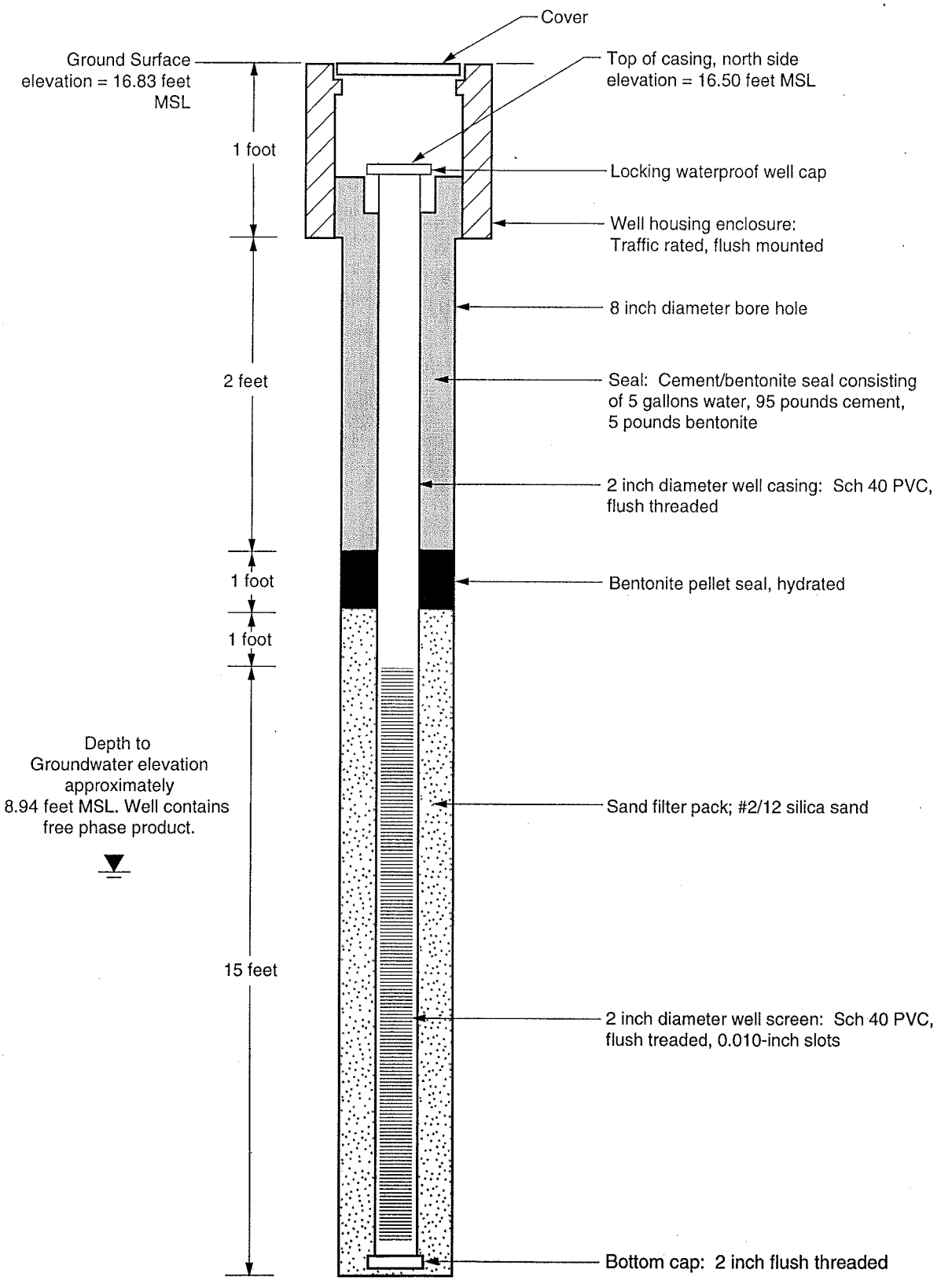
ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

1600 63 STREET
Emeryville, California

CLASSIFICATION CHART

Treadwell&Rollo

Date 03/02/07 | Project No. 3494.01 | Figure A-10



Not to scale

1600 63RD STREET
Emeryville, California

TR-2 WELL CONSTRUCTION DIAGRAM

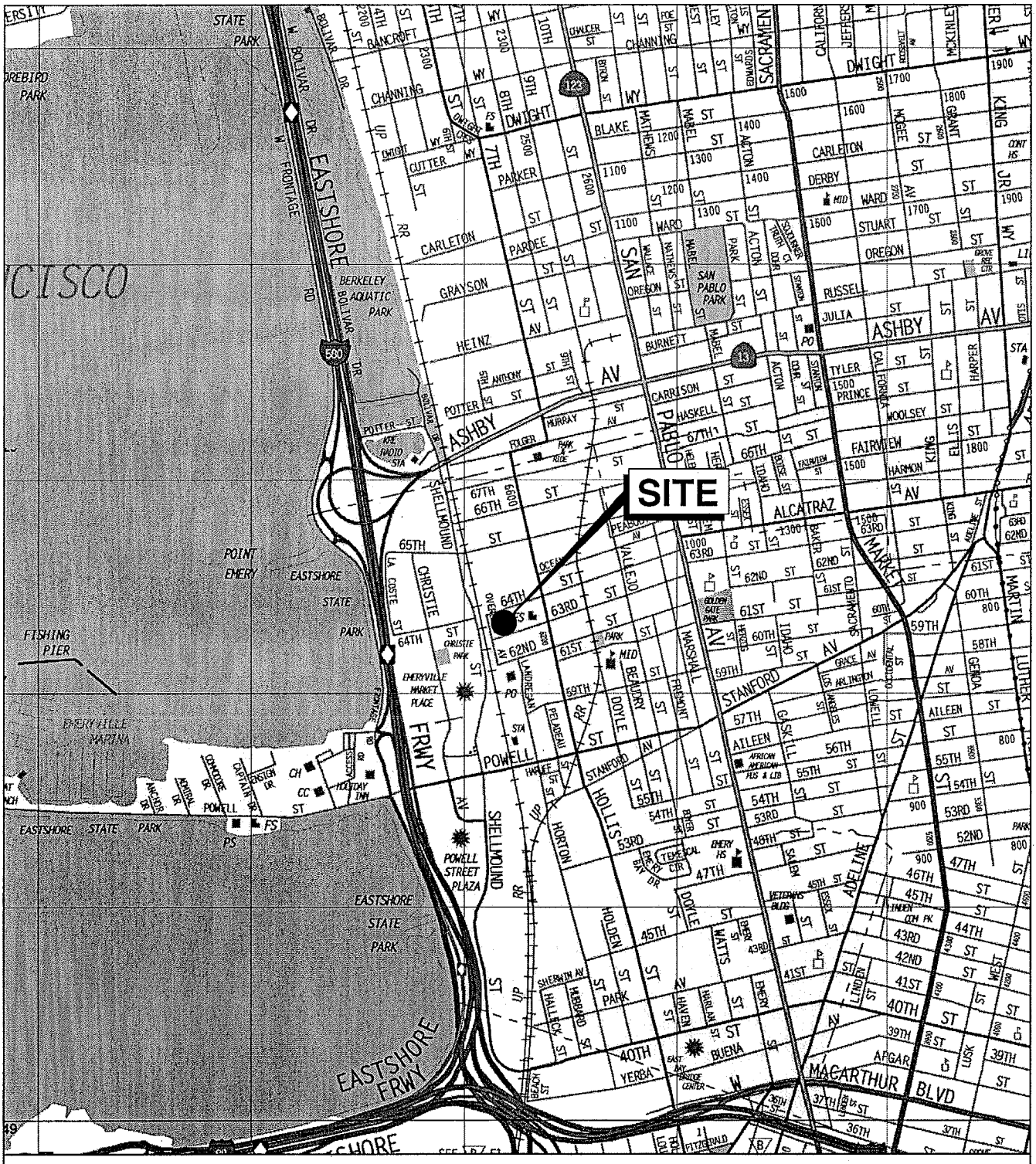
Treadwell&Rollo

Date 03/06/07	Project No. 3494.01	Figure A-12

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED



Base map: The Thomas Guide
Alameda County
1999

0 1/4 1/2 Mile

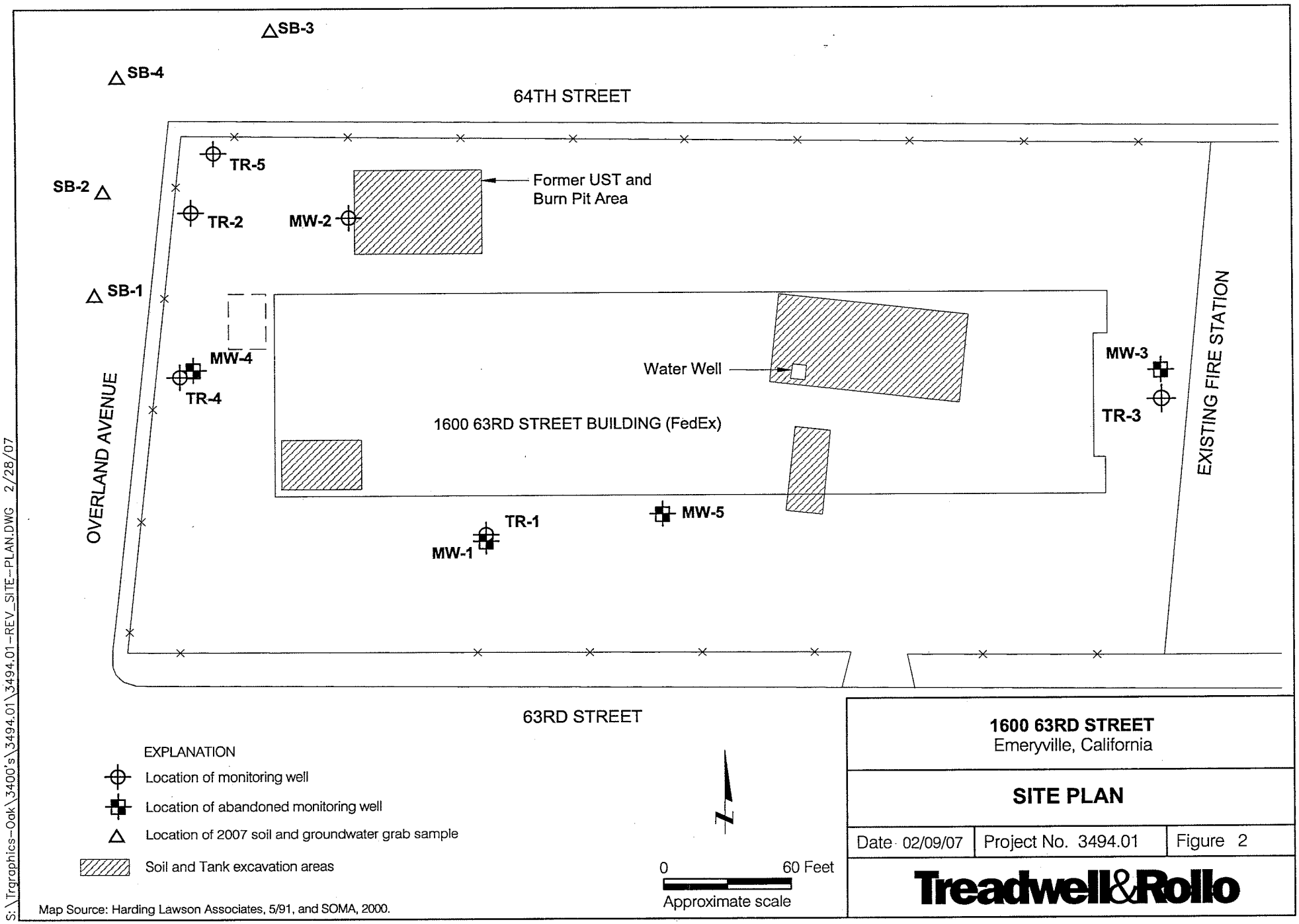
Approximate scale

1600 63RD STREET
Emeryville, California

SITE LOCATION MAP

Treadwell&Rollo

Date 04/21/06	Project No. 3494.01	Figure 1



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

1600 63RD STREET
Emeryville, California

SITE PLAN

Date 02/09/07	Project No. 3494.01	Figure 2

Treadwell&Rollo

S:\Trgraphics-Odk\3400's\3494.01\3494.01-REV_SITE--PLAN.DWG 2/28/07

PROJECT:	1600 63RD STREET Emeryville, California	**Log of Boring TR-3**	PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: M. Hall Drilled By: Precision Drilling Co.
Date started: 1/9/07	Date finished: 1/9/07	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: 5' Acetate Liner		

DEPTH (feet)	Sample Number	Sample	Blow Count	Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							Surface Conditions:
1							FILL
2				60/60	<5		
3						CL	CLAY (CL) black, soft, moist, plastic, 10 percent fine sand poorly graded, weak odor
4							
5	TR-3-4.5-5.0						
6							
7				60/60	<5	SP	SAND with GRAVEL (SP) brown, moderately dense, 35 percent angular to sub-angular, non-plastic, <5 percent fines, moderately graded, no odor
8							
9							CLAY with GRAVEL (CL) brown, medium stiff, moist, 10 percent sub-angular gravels less than 1/8-inch, plastic, 5 percent fine-grained sand, poorly graded, no odor
10	TR-3-9.5-10.0						
11						CL	
12				42/60	<5		
13							
14							
15	TR-3-14.5-15.0						
16						SC	CLAYEY SAND (SC) brown, moderately dense, moist, 5 percent sub-angular gravel, slightly plastic, moderately graded, 35 percent fines, no odor
17				60/60	<5		
18						CL	CLAY (CL) brown, medium stiff, moist, plastic, 10 percent fine-grained sand, poorly graded, no odor
19							
20	TR-3-19.5-20.0						
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Boring terminated at a depth of 20 feet.
Boring backfilled with cement grout.
Groundwater encoutered at 7.6 feet.

Treadwell&Rollo

Project No.:	Figure:
3494.01	A-7

TEST ENVIRONMENTAL 349401.GPJ TR.GDT 3/6/07

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size)	Gravels (More than half of coarse fraction > no. 4 sieve size)	GW	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	SW	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	MH	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		PT	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel	3" to No. 4	76.2 to 4.76
coarse	3" to 3/4"	76.2 to 19.1
fine	3/4" to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.074
coarse	No. 4 to No. 10	4.76 to 2.00
medium	No. 10 to No. 40	2.00 to 0.420
fine	No. 40 to No. 200	0.420 to 0.074
Silt and Clay	Below No. 200	Below 0.074

Unstabilized groundwater level

Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with split-barrel sampler other than Standard Penetration Test sampler. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test sampler

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample

Analytical laboratory sample

Sample taken with Direct Push sampler

SAMPLER TYPE

C Core barrel

CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter

D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube

O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter

SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter

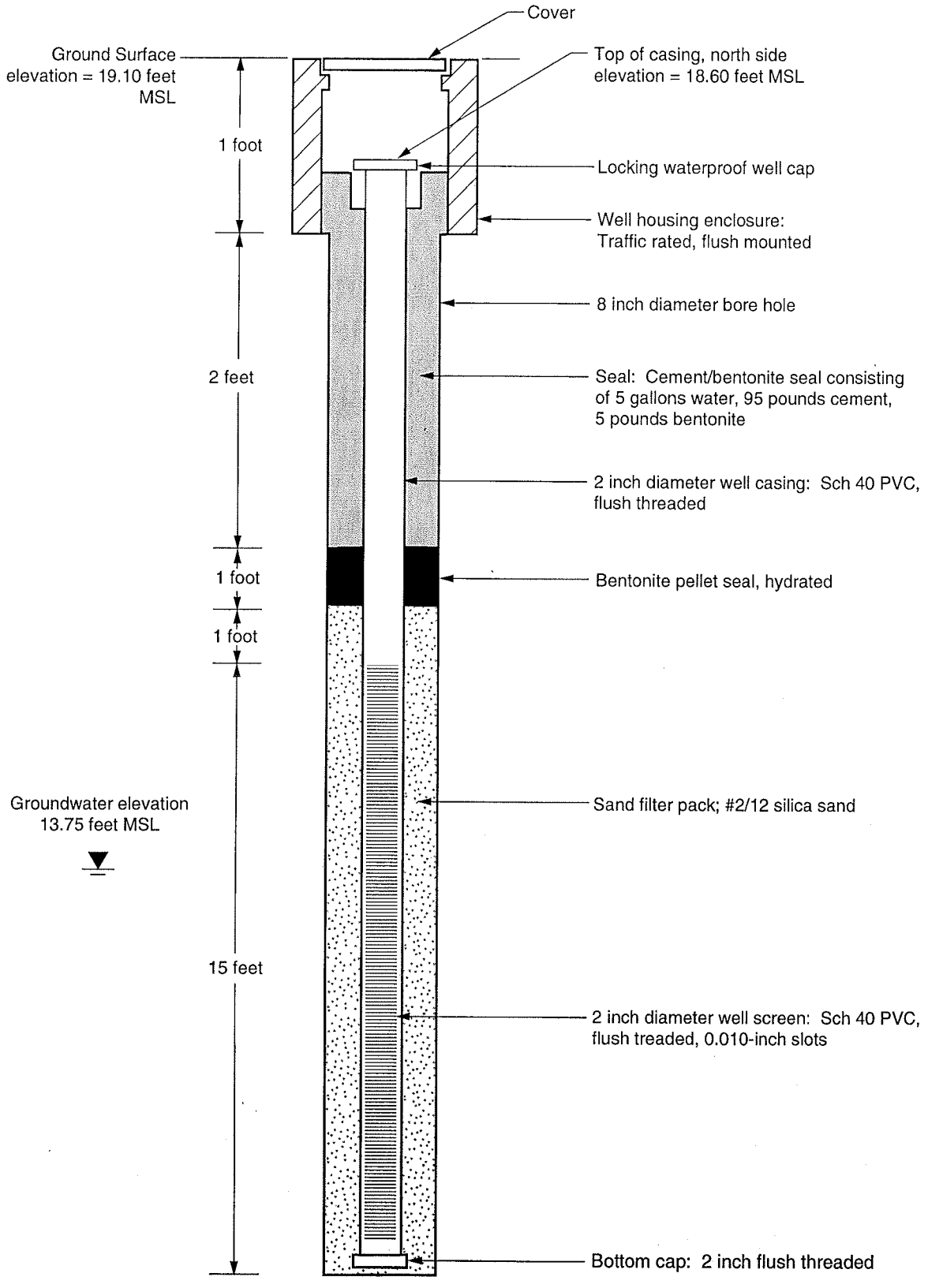
ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

1600 63 STREET
Emeryville, California

CLASSIFICATION CHART

Treadwell&Rollo

Date 03/02/07 | Project No. 3494.01 | Figure A-10



Not to scale

1600 63RD STREET
Emeryville, California

TR-3 WELL CONSTRUCTION DIAGRAM

Treadwell&Rollo

Date 03/06/07	Project No. 3494.01	Figure A-13

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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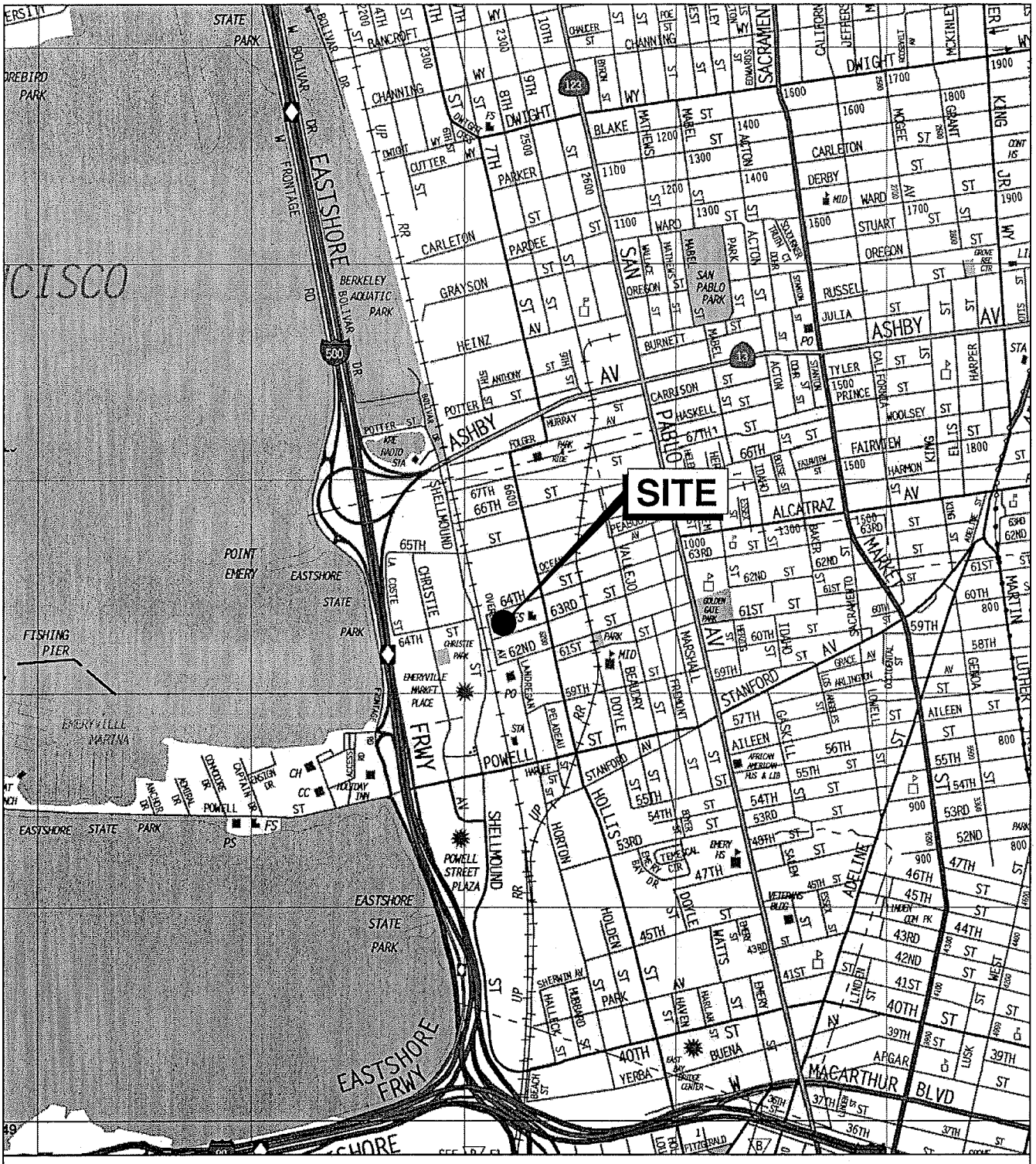


Base map: The Thomas Guide
Alameda County
1999

0 1/4 1/2 Mile

Approximate scale

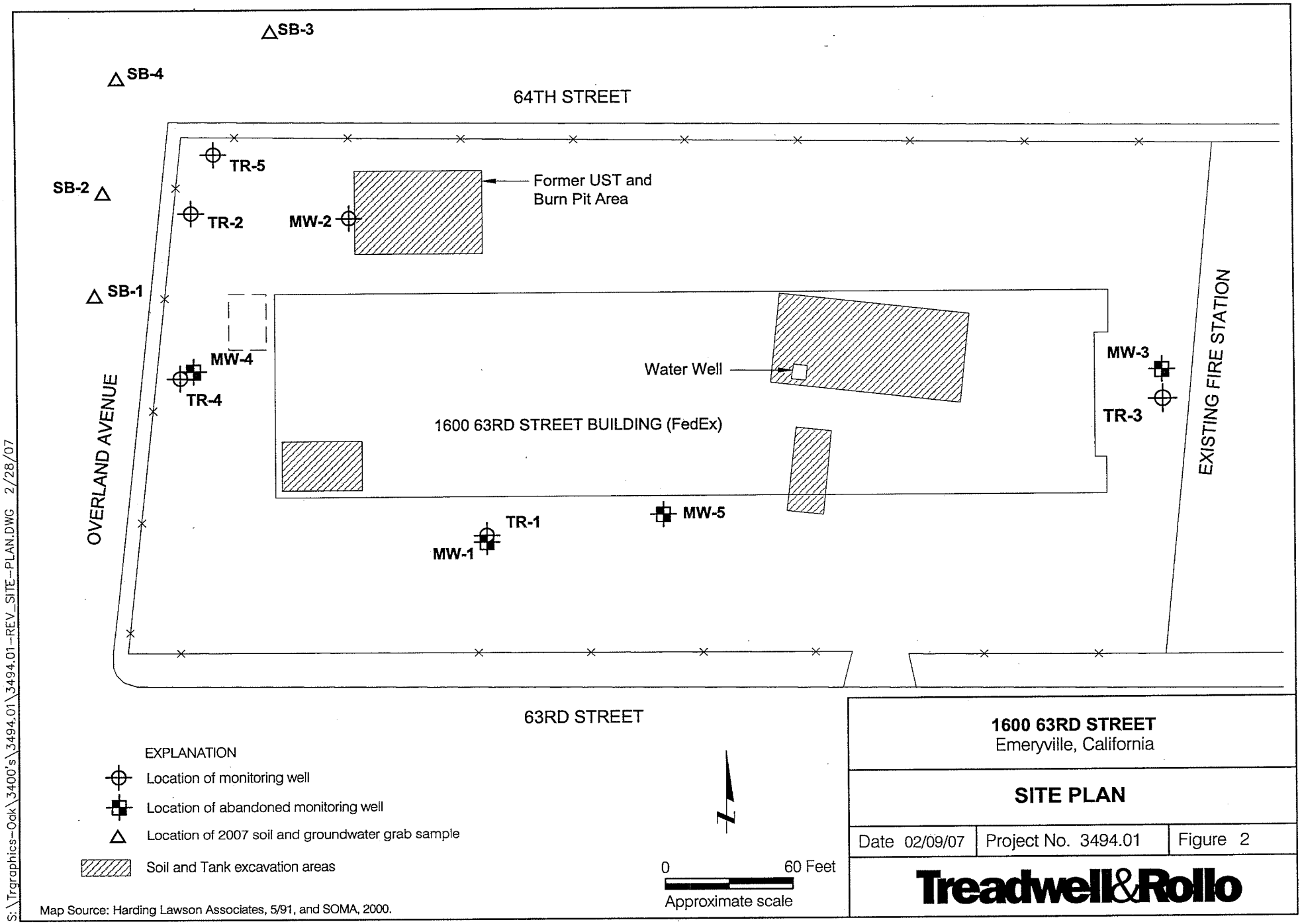
N

1600 63RD STREET
Emeryville, California

SITE LOCATION MAP

Treadwell&Rollo

Date 04/21/06	Project No. 3494.01	Figure 1



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

1600 63RD STREET
Emeryville, California

SITE PLAN

Date 02/09/07	Project No. 3494.01	Figure 2

Treadwell&Rollo

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PROJECT:	1600 63RD STREET Emeryville, California	**Log of Boring TR-4**	PAGE 1 OF 1

Boring location: See Site Plan, Figure 2		Logged by: M. Hall Drilled By: Precision Drilling Co.
Date started: 1/9/07	Date finished: 1/9/07	
Drilling method: Direct Push		
Hammer weight/drop: NA	Hammer type: NA	
Sampler: 5' Acetate Liner		

DEPTH (feet)	Sample Number	Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
					Surface Conditions:
1–2		50/60	<5		FILL
3–4				SP-SC	SAND with CLAY (SP-SC) brown, moderately dense, moist, non-plastic, moderately graded, 10 percent fines, no odor
5	TR-4-4.5-5.0				
6–7		55/60	<5	CL	SANDY CLAY (CL) dark brown, soft, wet, slightly plastic, 20 percent fine to medium-grained sand, moderately graded, no odor
8–9	TR-4-8.5-9.0				some staining
10	TR-4-9.5-10.0			CL	CLAY with SAND (CL) brown, soft, moist, plastic, 10 percent fine-grained sand, poorly graded, no odor
11–12		60/60	<5		
13–14				SP-SC	SAND with CLAY (SP-SC) brown, moderately dense, moist, 10 percent sub-angular gravel, non-plastic, moderately graded, 10 percent fines, no odor
15	TR-4-14.5-15.0			CL	CLAY (CL) brown, medium stiff, moist, plastic, 10 percent fine-grained sand, poorly graded, no odor
16–17		60/60	<5	SP	SAND with GRAVEL (SP) brown, loose, moist, 40 percent sub-angular gravel up to 0.5-inch, non-plastic, moderately graded, no odor
18–19				CL	CLAY (CL) brown, medium stiff, moist, plastic, 10 percent fine-grained sand, poorly graded, no odor
20	TR-4-19.5-20.0				
21–30					

FILL

Boring terminated at a depth of 20 feet.
Boring backfilled with cement grout.
Groundwater encoutered at 9.4 feet.

Treadwell&Rollo

Project No.:	Figure:
3494.01	A-8

TEST ENVIRONMENTAL 349401.GPJ TR.GDT 3/2/07

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size)	Gravels (More than half of coarse fraction > no. 4 sieve size)	GW	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	SW	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	MH	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		PT	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel	3" to No. 4	76.2 to 4.76
coarse	3" to 3/4"	76.2 to 19.1
fine	3/4" to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.074
coarse	No. 4 to No. 10	4.76 to 2.00
medium	No. 10 to No. 40	2.00 to 0.420
fine	No. 40 to No. 200	0.420 to 0.074
Silt and Clay	Below No. 200	Below 0.074

Unstabilized groundwater level

Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with split-barrel sampler other than Standard Penetration Test sampler. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test sampler

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample

Analytical laboratory sample

Sample taken with Direct Push sampler

SAMPLER TYPE

C Core barrel

CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter

D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube

O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter

SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter

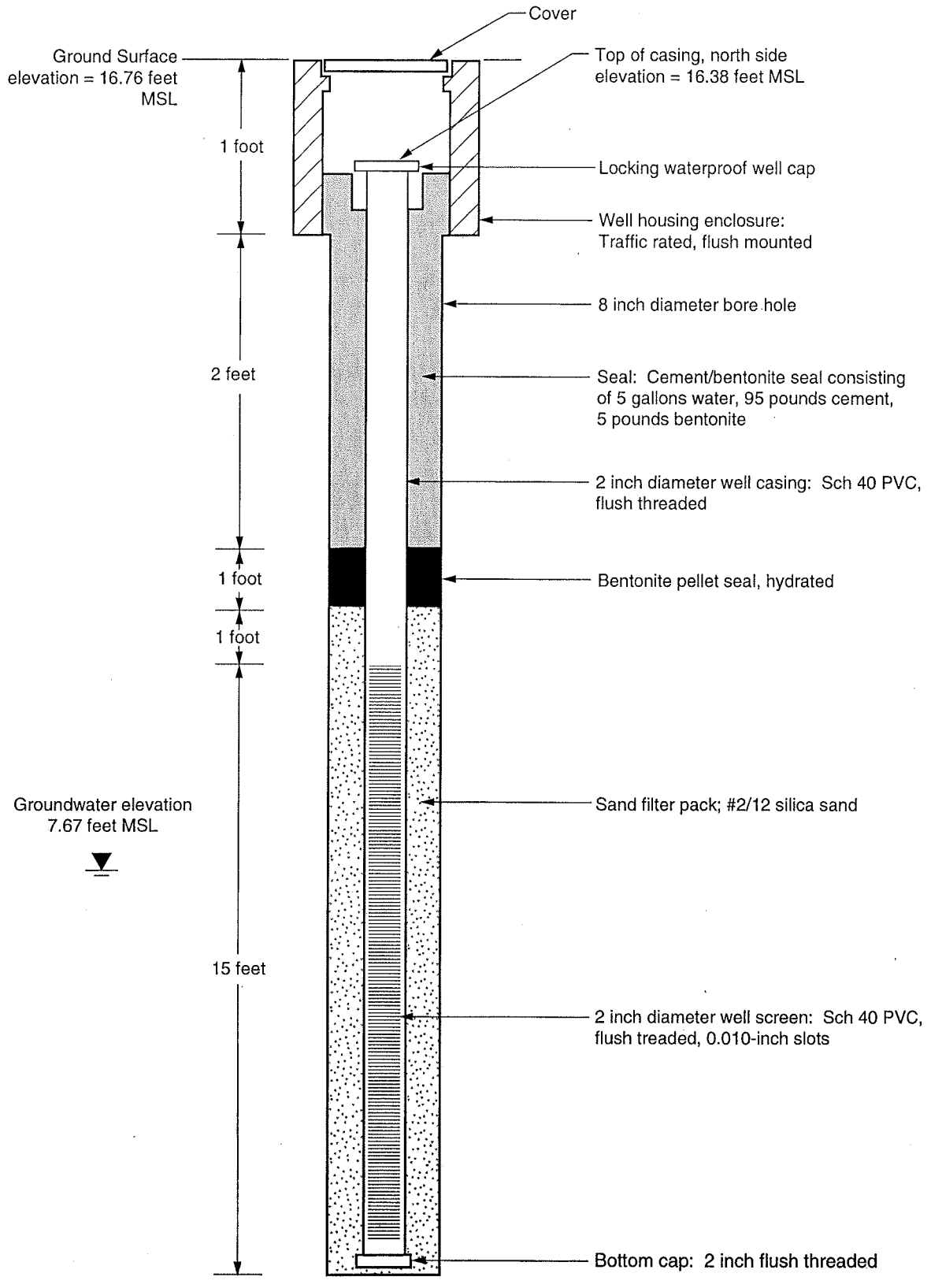
ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

1600 63 STREET
Emeryville, California

CLASSIFICATION CHART

Treadwell&Rollo

Date 03/02/07 | Project No. 3494.01 | Figure A-10



Not to scale

1600 63RD STREET
Emeryville, California

TR-4 WELL CONSTRUCTION DIAGRAM

Treadwell&Rollo

Date 03/06/07	Project No. 3494.01	Figure A-14

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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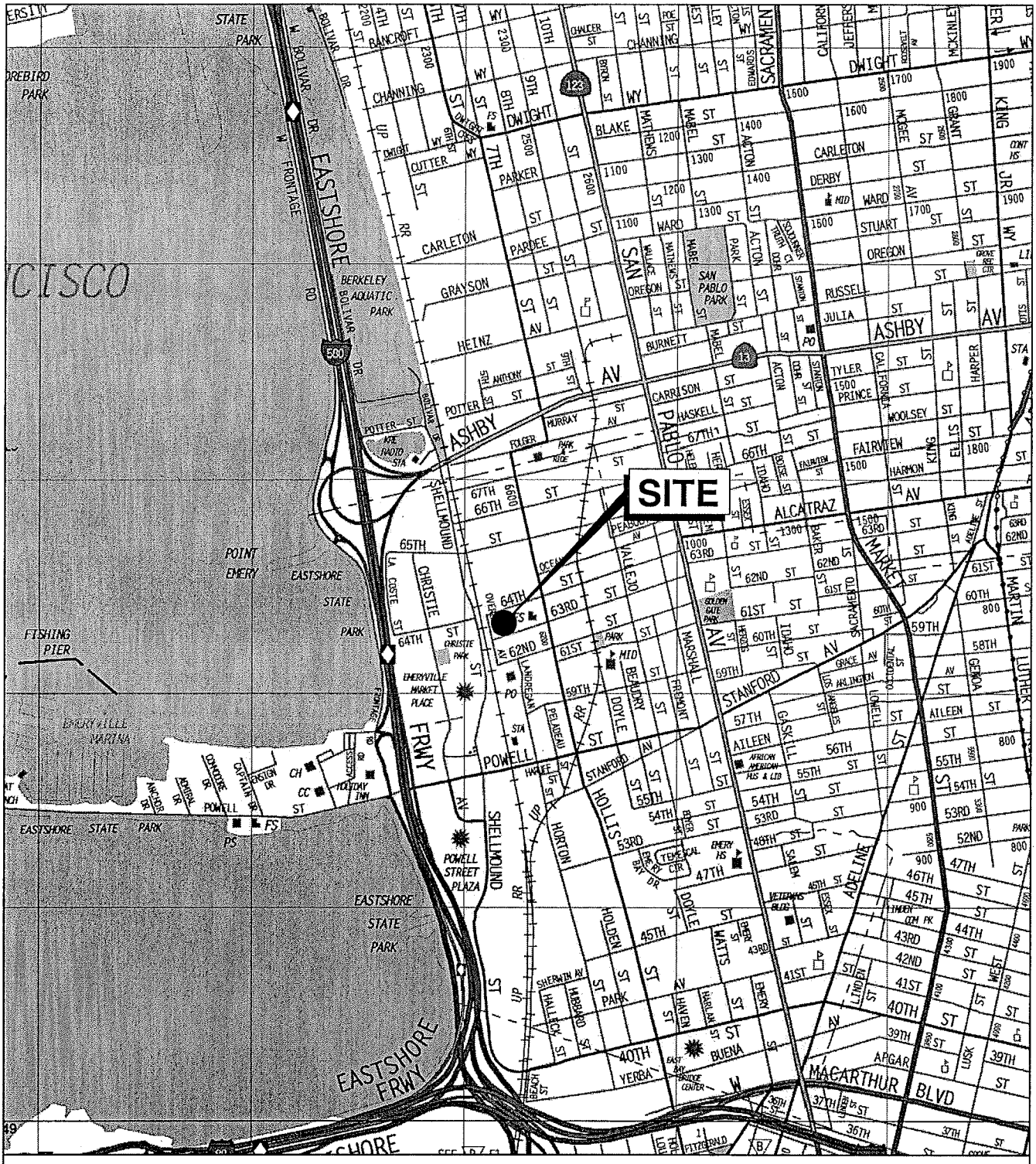


Base map: The Thomas Guide
Alameda County
1999

0 1/4 1/2 Mile

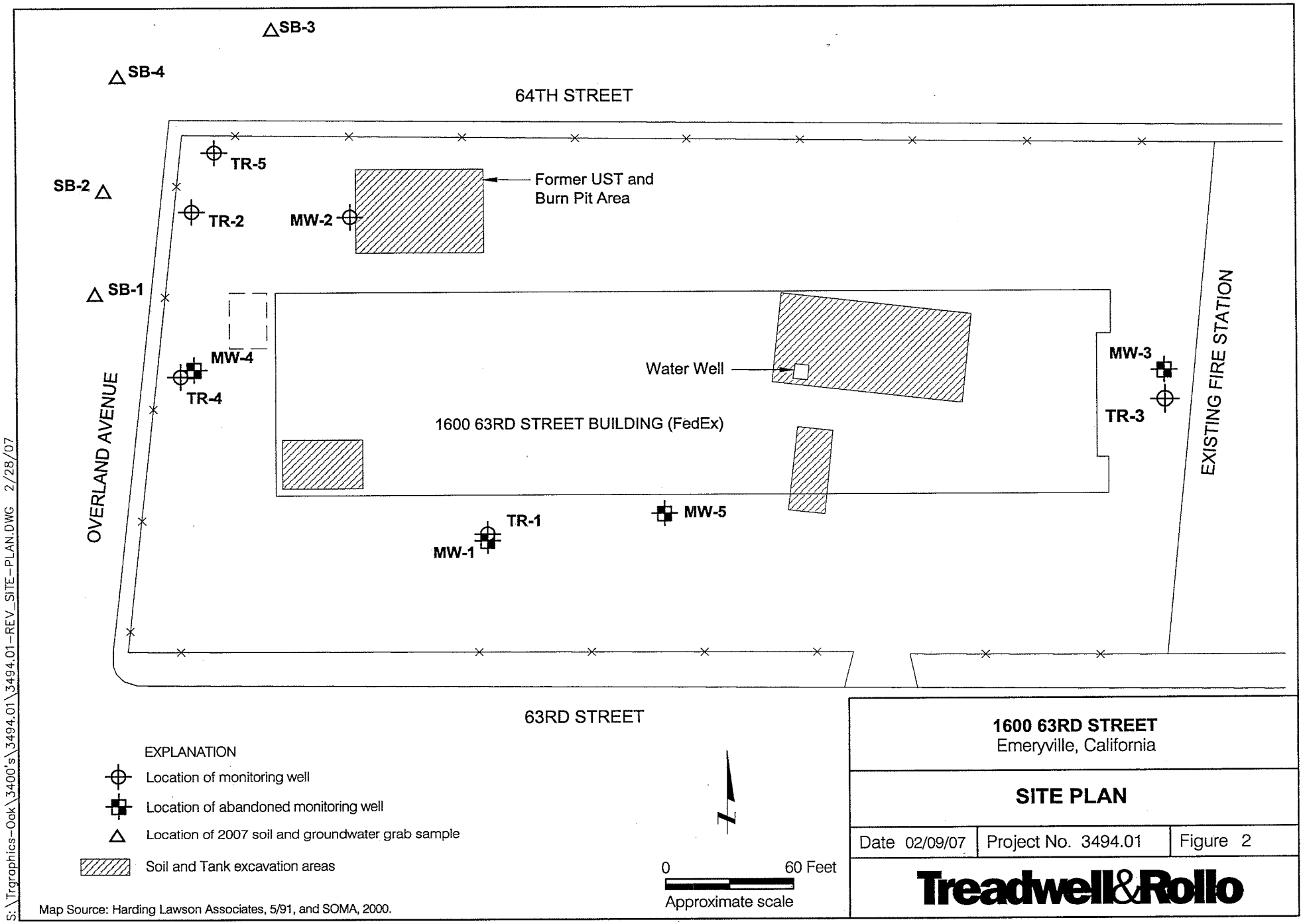
Approximate scale

1600 63RD STREET
Emeryville, California

SITE LOCATION MAP

Treadwell&Rollo

Date 04/21/06	Project No. 3494.01	Figure 1



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

1600 63RD STREET
Emeryville, California

SITE PLAN

Date 02/09/07	Project No. 3494.01	Figure 2

Treadwell&Rollo

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PROJECT:	1600 63RD STREET Emeryville, California	**Log of Boring TR-5**
		PAGE 1 OF 1

Boring location: See Site Plan, Figure 2	Logged by: M. Hall Drilled By: Precision Drilling Co.
Date started: 1/9/07 — Date finished: 1/9/07	
Drilling method: Direct Push	
Hammer weight/drop: NA — Hammer type: NA	
Sampler: 5' Acetate Liner	

DEPTH (feet)	SAMPLES: Sample Number	Sample	Blow Count	Recovery (inches)	OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							Surface Conditions:
1–3				60/60	<5		FILL
4–5	TR-5-4.5-5.0					CL	CLAY with SAND (CL) dark brown, soft, moist, plastic, 20 percent fine-grained sand, poorly graded, no odor
6–8				50/60	<5	CL	CLAY (CL) brown, stiff, moist, plastic, 10 percent fine-grained sand, no odor
9–10	TR-5-9.5-10.0						
11–12				50/60	15	CL	SANDY CLAY (CL) brown, soft, wet, 10 percent sub-angular gravel up to 0.25-inch, plastic, 30 percent fine-grained sand, weak odor
13						CL	CLAY (CL) brown, stiff, moist, plastic,10 percent fine-grained sand, poorly graded, no odor
14–15	TR-5-14.5-15.0					SC	CLAYEY SAND with GRAVEL (SC) gray, dense, moist, 30 percent sub-angular gravel up to 0.25-inch, non-plastic, moderately graded, 20 percent fines, weak odor
16–17				60/60	<5	CL	CLAY (CL) gray, stiff, wet, plastic, 10 percent fine-grained sand, poorly graded, no odor
18–19						SP	SAND with GRAVEL (SP) gray, dense, wet, 40 percent sub-angular gravel up to 0.5-inch, non-plastic, moderately graded, slight odor
20	TR-5-19.5-20.0						
21–30							

Boring terminated at a depth of 20 feet.
Boring backfilled with cement grout.
Groundwater encoutered at 8.2 feet.

Treadwell&Rollo

Project No.:	Figure:
3494.01	A-9

TEST ENVIRONMENTAL 349401.GPJ TR.GDT 3/6/07

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size	Gravels (More than half of coarse fraction > no. 4 sieve size)	GW	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	SW	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	MH	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		PT	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel	3" to No. 4	76.2 to 4.76
coarse	3" to 3/4"	76.2 to 19.1
fine	3/4" to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.074
coarse	No. 4 to No. 10	4.76 to 2.00
medium	No. 10 to No. 40	2.00 to 0.420
fine	No. 40 to No. 200	0.420 to 0.074
Silt and Clay	Below No. 200	Below 0.074

Unstabilized groundwater level

Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with split-barrel sampler other than Standard Penetration Test sampler. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test sampler

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample

Analytical laboratory sample

Sample taken with Direct Push sampler

SAMPLER TYPE

C Core barrel

CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter

D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube

O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter

SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter

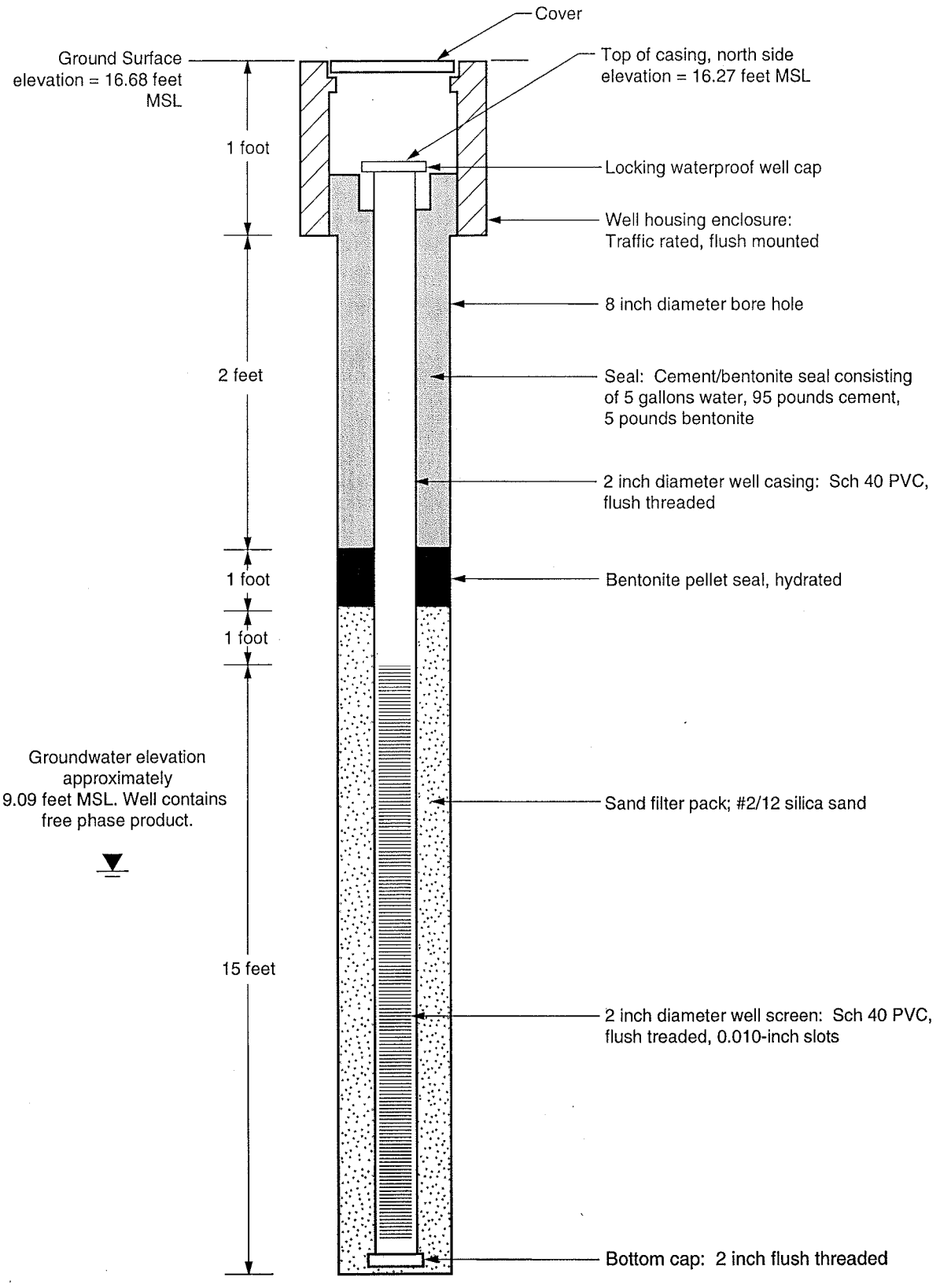
ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

1600 63 STREET
Emeryville, California

CLASSIFICATION CHART

Treadwell&Rollo

Date 03/02/07	Project No. 3494.01	Figure A-10



1600 63RD STREET
Emeryville, California

TR-5 WELL CONSTRUCTION DIAGRAM

Treadwell&Rollo

Date 03/06/07	Project No. 3494.01	Figure A-15

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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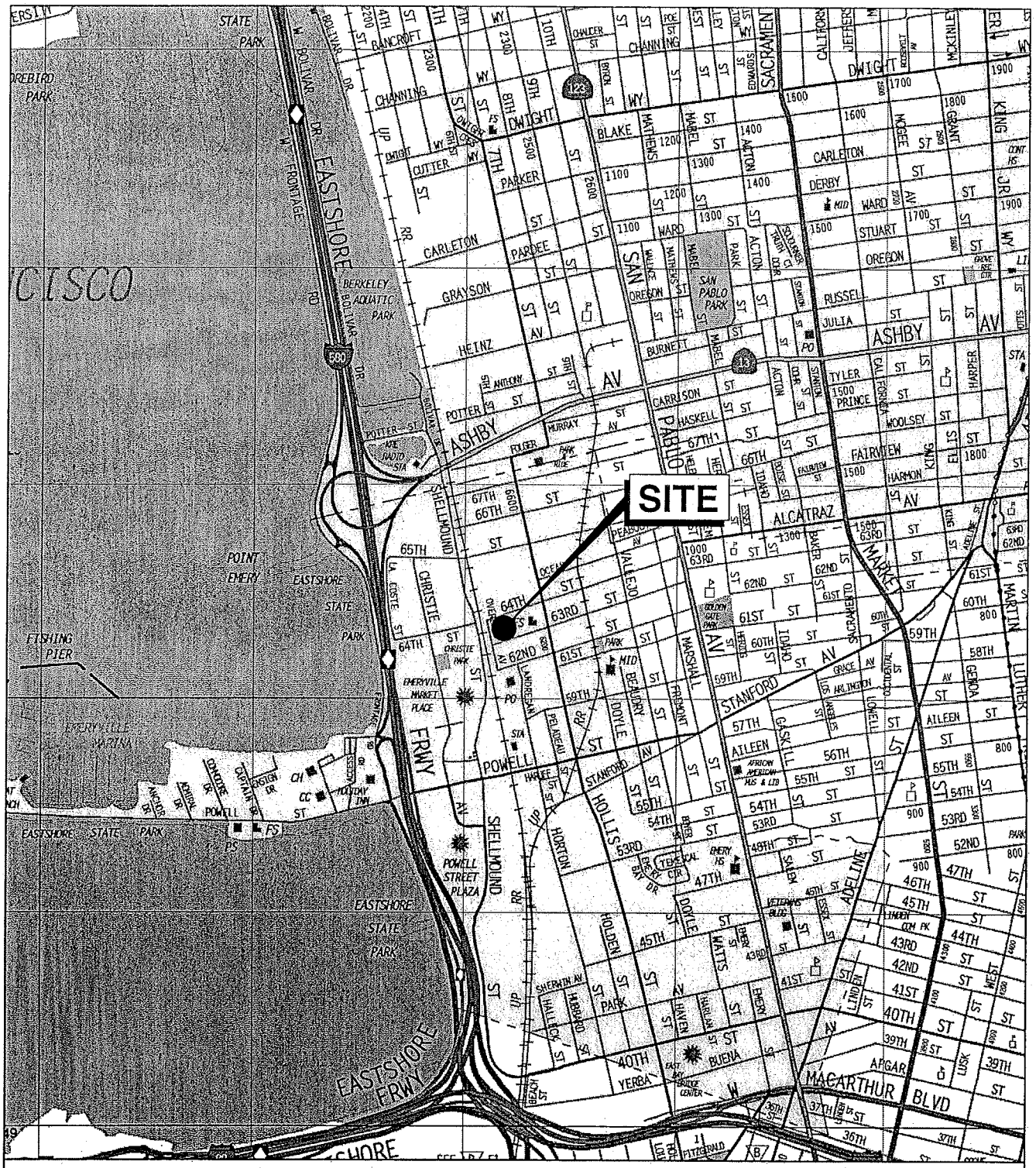


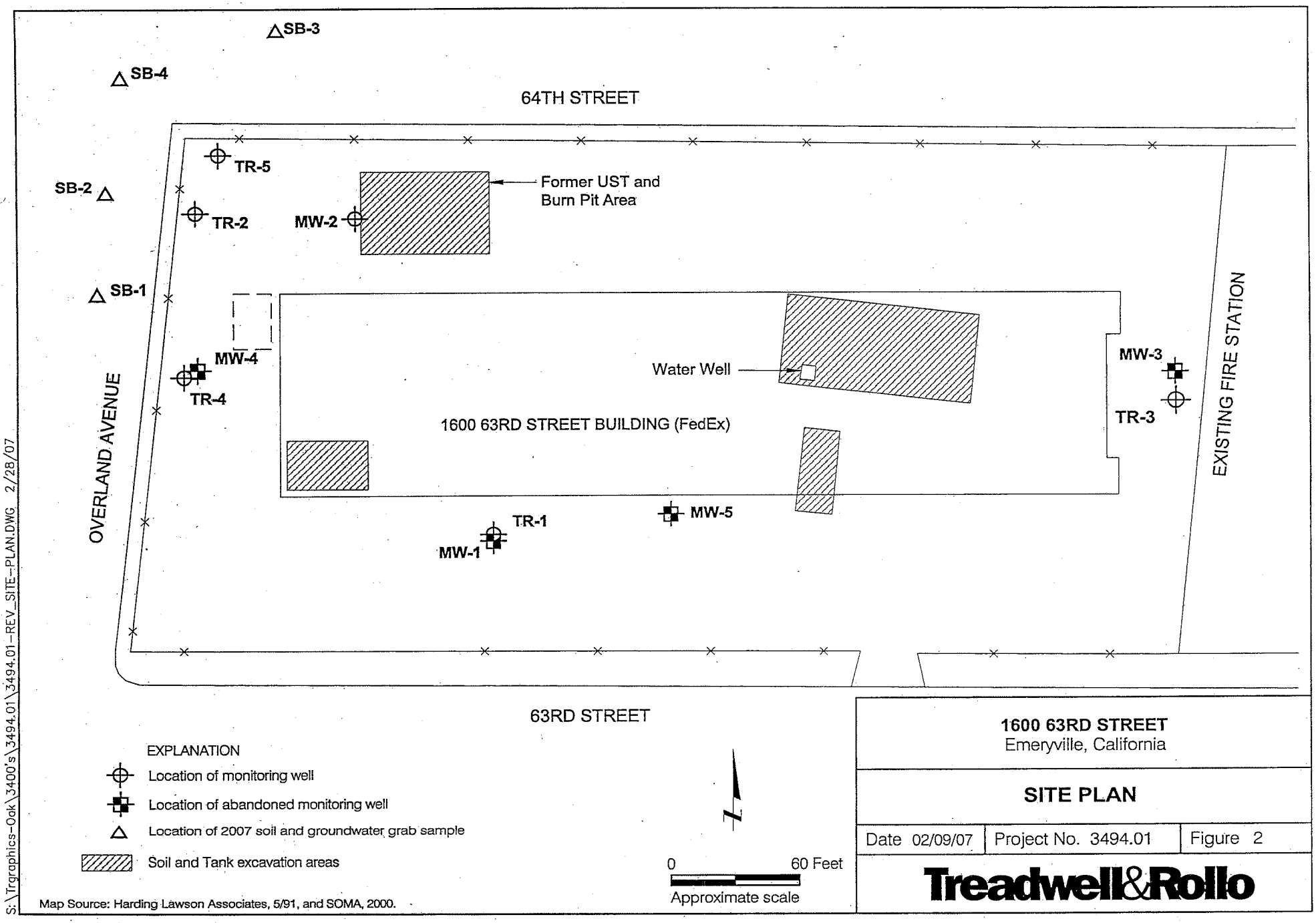
Base map: The Thomas Guide
Alameda County
1999

1600 63RD STREET
Emeryville, California

SITE LOCATION MAP

Treadwell&Rollo

Date 04/21/06	Project No. 3494.01	Figure 1



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

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1600 63RD STREET
Emeryville, California

SITE PLAN

Date 02/09/07	Project No. 3494.01	Figure 2

Treadwell&Rollo