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Alameda County Environmental Health



ENVIRONMENTAL ENGINEERING, INC 6620 Owens Drive, Suite A • Pleasanton, CA 94588-3334 TEL (925) 734-6400 • FAX (925) 734-6401

February 13, 2008

Mr. Jerry Wickham Alameda County Department of Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Subject: StID#3337 Site Address: 3609 International Blvd., Oakland, California

Dear Mr. Wickham:

SOMA's "Fourth Quarter 2007 Groundwater Monitoring and Remediation System Operation Report" for the subject property has been uploaded to the State's GeoTracker database and Alameda County's FTP site for your review.

Thank you for your time in reviewing our report. If you have any questions or comments, please call me at (925) 734-6400.

Sincerely,

Mansour Sepehr, Ph.D., PE Principal Hydrogeologist

Enclosure

cc: Mr. Abolghassem Razi w/report enclosure Tony's Express Auto Service

> Mr. Vince Tong w/report enclosure Traction International



Fourth Quarter 2007 **Groundwater Monitoring and Remediation System Operation Report**

Tony's Express Auto Service 3609 International Boulevard Oakland, California

February 13, 2008

Project 2331

Prepared for

Mr. Abolghassem Razi 3609 International Boulevard Oakland, California 94601



CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report on behalf of Mr. Abolghassem Razi, property owner of 3609 International Boulevard, Oakland, California, to comply with Alameda County Environmental Health Services requirements for the Fourth Quarter 2007 groundwater monitoring event.

Mansour Sepehr, Ph.D., P.E. Principal Hydrogeologist



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Fourth Quarter 2007: Groundwater Monitoring and Remediation System Operation Report

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1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) has prepared this monitoring report on behalf of Mr. Abolghassem Razi, owner of the property at 3609 International Boulevard at the intersection of 36th Avenue in Oakland, California (the Site, Figure 1). Tony's Express Auto Service operates on the property.

This report summarizes results of the Fourth Quarter 2007 groundwater monitoring event conducted at the Site on November 15 and 16, 2007, and includes laboratory analytical results for the groundwater samples.

A natural attenuation study was conducted during this monitoring event to evaluate whether petroleum hydrocarbons found in the groundwater were biodegrading.

Groundwater monitoring activities were performed in accordance with general guidelines of the California Regional Water Quality Control Board (CRWQCB) and the Alameda County Environmental Health Services (ACEHS). A description of SOMA's groundwater monitoring procedures is included in Appendix A. Figure 2 shows well and riser locations.

This report also describes operation of the groundwater extraction system installed by SOMA in December 1999 and the vapor extraction system installed by SOMA in July 2000. System locations are shown in Figure 2.

1.1 Background

<u>July 1993</u>: Soil Tech Engineering removed one single-walled 10,000-gallon gasoline underground storage tank (UST), one single-walled 6,000-gallon gasoline UST, and one 550-gallon waste oil tank from the Site. Three double-walled USTs replaced them: currently, one 10,000-gallon double-walled UST and two 6,000-gallon double-walled USTs are beneath the Site. Figure 2 shows UST locations.

<u>December 1997</u>: Western Geo-Engineers conducted additional investigations and groundwater monitoring events. Results indicated elevated levels of petroleum hydrocarbons and methyl tertiary-butyl ether (MtBE) in the groundwater.

<u>April 1999</u>: Mr. Razi, owner, retained SOMA for groundwater monitoring, riskbased corrective action (RBCA) study, preparation of a corrective action plan (CAP), and soil and groundwater remediation at the Site. Results of the RBCA study indicated that the Site is a high-risk groundwater site; therefore, on- and off-site soil and groundwater required remedial action.

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The source of petroleum hydrocarbons in the groundwater was believed to be the former USTs used to store gasoline at the Site. Results of the CAP study indicated that installation of a French drain combined with a vapor extraction system would be the most cost-effective alternative for Site remediation.

<u>Late August 1999</u>: SOMA installed a French drain and groundwater treatment system to prevent further migration of chemically impacted groundwater.

July 2000: SOMA installed a vapor extraction system.

<u>January 2002</u>: Environmental Fabric removed the former product dispensers and installed new ones.

<u>July 25, 2003</u>: SOMA installed an additional on-site extraction pump in the western French drain riser to create a capture zone in the region around the USTs and to contain off-site migration in the southwestern corner of the Site.

<u>April 1, 2005</u>: SOMA conducted a pilot test to evaluate use of ozone sparging to actively remediate groundwater at the Site. The test revealed that the unsaturated zone was permeable enough to allow operation of an ozone sparging system. However, ozone injection, especially in the region of more impacted wells MW-1 and MW-3 in the vicinity of the UST cavity, could potentially pose an explosion hazard. Therefore, based on safety concerns, air sparging technology was implemented for Site remediation.

<u>November 17 to 23, 2005</u>: SOMA oversaw installation of the air sparge wells and vapor extraction wells by Woodward Drilling of Rio Vista, California.

<u>February 22, 2006 to March 6, 2006</u>: SOMA oversaw installation of the air sparging system by ACRC, Inc., a construction company in San Ramon, California.

<u>February 5, 2007</u>: An extraction well, EX-1, was installed in the vicinity of the UST cavity due to the continued significant contaminant source within this region. The well diameter is 4 inches with an approximate depth of 20 feet.

<u>April 2007</u>: SOMA began extracting groundwater from the new groundwater extraction well EX-1.

Impacted groundwater from the well is being treated and discharged through the granular activated carbon (GAC) system. Increased groundwater contaminant removal within the UST cavity is being achieved since startup of extraction from EX-1. Well and remedial line locations are shown in Figure 2.

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2. RESULTS

Following are results of field measurements and laboratory analyses for the November 15 and 16, 2007 groundwater monitoring event.

2.1 Field Measurements

As shown in Table 1, depths to groundwater for the monitoring wells ranged from 11.12 feet in well MW-10 to 13.29 feet in MW-6. Corresponding groundwater elevations ranged from 25.00 feet in MW-12 to 28.42 feet in MW-5. Groundwater elevations for the center, east, and west risers were 23.37 feet, 26.78 feet, and 24.04 feet, respectively.

Figure 3 shows the groundwater elevation contour map. Groundwater flows toward the French drain at an approximate gradient of 0.046 feet/feet. The lowest site-wide groundwater elevation was measured in the center French drain riser. The French drain is providing a capture zone within the region of the UST cavity and in general has reduced off-site contaminant migration.

Field notes for physical, chemical and biodegradation parameters measured during this monitoring event are included in Appendix B.

The more positive the redox potential of an electron acceptor, the more energetically favorable is the reaction utilizing that electron acceptor. The most energetically preferred electron acceptor for redox reactions is dissolved oxygen (DO). Evaluating distribution of electron acceptors can provide evidence of where, and to what extent, hydrocarbon biodegradation is occurring.

Upon equalization of the surrounding aquifer, when the purge cycle was terminated, DO concentrations ranged from 0.16 mg/L in well MW-12 to 0.26 mg/L in MW-1. Oxidation-reduction potential (ORP) showed negative redox potentials in all wells. Oxidation of petroleum hydrocarbons could have occurred in the monitoring wells with negative redox potential, because it indicates that contaminants in groundwater are conducive to anaerobic biodegradation.

Ferrous iron concentrations, which can indicate anaerobic biodegradation, ranged from 0.2 mg/L in well MW-2 to 1.77 mg/L in MW-6. Ferrous iron concentrations were not detected in MW-10.

Nitrate concentrations were non-detectable in all wells except MW-2, MW-5, and MW-6.

High ferrous iron concentrations in combination with non-detectable nitrate levels indicate anaerobic biodegradation beneath the Site.

The absence of sulfate in the groundwater samples may indicate an anaerobic methanogenesis process. Sulfate was below the equipment tolerance level in wells MW-3, MW-4R, MW-8, and MW-12. Detectable sulfate concentrations ranged from 4 mg/L in MW-1 to the equipment maximum tolerance range of 80 mg/L in MW-6.

2.2 Laboratory Analysis

Pacific Analytical Laboratory analyzed groundwater samples for volatile organic compounds discussed below using EPA Method 8260B (Appendix C). Table 1 presents laboratory analysis results for groundwater samples collected during this monitoring event.

Total petroleum hydrocarbons as gasoline (TPH-g) was detected throughout the Site except at well MW-5. Detectable TPH-g concentrations ranged from 61.1 μ g/L in MW-2 to 18,500 μ g/L in MW-1.

In the more impacted wells MW-1, MW-3, MW-6 and MW-8 the following concentration trends were observed.

- In MW-1, located in the vicinity of the UST cavity, TPH-g has increased since the previous monitoring event. However, the current TPH-g concentration is significantly lower than in Fourth Quarter 2006.
- In MW-3, which is in the vicinity of the UST cavity, TPH-g has decreased significantly since the previous monitoring event.
- Since the previous monitoring event, TPH-g has decreased in MW-6.
- The groundwater sample collected from MW-8 indicated an increase in the TPH-g concentration from 1,310 µg/L in the previous monitoring event to 10,300 µg/L. Well MW-8 is located west of the French drain (Figure 2). The proximity to the French drain capture zone likely explains the historic variation in concentrations of TPH-g in this well.
- In comparison with the last several groundwater monitoring events, TPH-g concentrations showed a continuous declining pattern.

Refer to Table 1 for detailed TPH-g site concentration trends.

Figure 4 displays the contour map of TPH-g concentrations in the groundwater. The majority of the TPH-g plume was in the vicinity of the UST cavity at wells MW-1 and MW-3, as well as in MW-8 southwest of MW-1 and MW-3. Capture zones have been established at the French drain and extraction well, which have decreased off-site migration. TPH-g decreased at both off-site wells, MW-10 and MW-12, since First Quarter 2007.

The following benzene, toluene, ethylbenzene, and total xylene (BTEX) concentration trends were observed during this monitoring event:

- The maximum concentration of benzene was reported in MW-3 at 2,360 µg/L. The benzene concentration was below the laboratory-detection limit in MW-7.
- Toluene was non-detectable in MW-2, MW-4R, MW-5, MW-7, MW-10 and MW-12.
- Ethylbenzene was non-detectable in MW-5.
- The highest benzene, toluene, ethylbenzene, and total xylenes were detected at MW-3 at 2,360 μ g/L, 52 μ g/L, 523 μ g/L, and 213.9 μ g/L, respectively.

Figure 5 shows the contour map of benzene concentrations in the groundwater. The majority of the benzene plume appears to be in the vicinity of the pump islands and USTs, at wells MW-1 and MW-3. Refer to Table 1 for benzene concentration trends.

MtBE was below the laboratory detection limit in wells MW-2, MW-4R, MW-6, and MW-7. Detectable MtBE concentrations ranged from 0.580 μ g/L in MW-5 to 86.6 μ g/L in MW-1. Figure 6 shows the contour map of MtBE concentrations in the groundwater.

Refer to Table 1 for site-wide concentration trends. The laboratory report and chain of custody form for this monitoring event are included in Appendix C.

3. GROUNDWATER TREATMENT SYSTEM OPERATION

The treatment system began operating on December 9, 1999. Since startup, 3,766,840 gallons of groundwater have been treated and discharged (as of January 29, 2008) into the East Bay Municipal Utility District (EBMUD) sewer system under the existing discharge permit.

As of January 9, 2004, the previously installed pneumatic downhole pumps in the western and center French drain risers were removed and replaced with electrical submersible pumps. On May 4, 2005, to maintain accurate recordings of the total flow through the system, a newer totalizer meter was installed. On September 29, 2005, the existing 2,000-pound carbon vessel was replaced with a newer 2,000-pound carbon vessel that was refurbished with new carbon; the 200-pound carbon drum was also replaced. The former 2,000-pound vessel had become rusted from prolonged use. A schematic diagram of the remediation system is displayed in Figure 7.

On February 19, 2007, a carbon change-out was conducted on the remedial system, during which the 2,000-pound vessel was refurbished with new carbon and the 200-pound carbon drum was replaced.

To reduce the hydrocarbon source region in the vicinity of the UST cavity, SOMA oversaw installation of extraction well EX-1 by Gregg Drilling & Testing, Inc. on February 5, 2007. On April 20, 2007, SOMA installed an electric submersible pump in well EX-1, connected it to the existing groundwater remediation system, and began extracting groundwater from the well. The pump is powered on the same electrical circuit as the two existing pumps inside the French drain risers. Underground piping to the existing system influent surge tank conveys the extracted groundwater, which is then treated using GAC and discharged to the local sanitary sewer system, in accordance with the Site EBMUD discharge permit. Figure 2 shows the location of EX-1.

Table 2 presents the total volume of treated groundwater and the groundwater analytical results. The table shows that all effluent samples have remained below discharge limits set forth by EBMUD. The most current laboratory reports for the groundwater treatment system are included in Appendix D.

Since startup, the treatment system has removed approximately 229.86 pounds of hydrocarbons and 87.23 pounds of MtBE from the groundwater at the Site. Figure 8 shows approximate masses of TPH-g and MtBE removed from impacted groundwater during operation of the treatment system.

4. OPERATION OF AIR SPARGING SYSTEM

From February 22, 2006 to March 6, 2006, SOMA oversaw installation of the air sparging system, which consists of nine vapor extraction wells and three air sparge wells. The air sparge wells were installed in the vicinity of the UST cavity, pump islands, and near MW-6 (Figure 2). Figures 9 and 10 show the block diagrams of the air sparging and vapor extraction units. The operating permit for the soil vapor extraction (SVE) system was extended to August 2008 by the Bay Area Air Quality Management District.

Prior to installation of the air sparging wells in November 2005, SOMA collected air samples from previously existing SVE wells. Based on sample results, which were non-detectable, the lines from SVE wells P-4 and ISL-1 to the vacuum pump were closed. This allowed for greater vacuum at the more impacted SVE wells.

The air sparging system was initially started on March 15, 2006. However, due to close proximity of the system to a residential area, the system was modified to reduce noise level. Specifically, a timer was installed on the compressor to control operation hours of the air sparging system and limit operation to daytime

hours. Currently, the system operates from 8 a.m. to 7 p.m. To further suppress noise, the existing blower unit, installed in 2000, was rebuilt and foam was placed around it as a noise suppressant.

To more effectively increase removal of contaminants in the soil, an additional vacuum blower was installed in series to the existing vacuum blower on July 24, 2006. Rain causes the water table to rise, thereby decreasing the actual layer of the unsaturated zone. Therefore, the actual mass of contaminants in the soil that can be removed by the remedial system is greatly reduced. Based on the reduction in the unsaturated region, as well as a reduction in the mass of contaminant vapors removed from the soil, the remedial system was shut down on November 7, 2006.

On May 23, 2007, SOMA restarted the SVE and air sparge systems and resumed recording of field readings for these systems. Based on field measurements, it appeared that using both vacuum blowers in series on the same extraction manifold had little effect on the air flow rate into the system or the concentrations of hydrocarbons in the extracted gases. Therefore, the inlet piping from the well field was divided into two manifolds with the intent to use each vacuum pump to extract from a separate set of wells. However, due to alterations made by non-SOMA personnel in the facility's main electrical supply panel without SOMA's knowledge, the operation of both vacuum pumps at the same time was not possible because the resultant electrical load tripped the circuit breaker that includes the SVE system. Subsequent operation of the SVE system has been limited to one blower at a time.

As shown in Table 3, approximately 967.2 pounds of hydrocarbons as vapor have been removed from the impacted soil, as of September 28, 2007. Table 3 also outlines the history of the SVE system.

5. CONCLUSIONS AND RECOMMENDATIONS

Findings of the Fourth Quarter 2007 groundwater monitoring event are summarized below.

- 1. In general, based on the low groundwater elevations observed at the French drain, a capture zone remains established at this location. The addition of well EX-1 created additional capture zone around the UST cavity.
- 2. Groundwater contaminants remained almost the same in comparison with the previous monitoring event. It appears that MW-1 and MW-3 are located within the remaining hotspots of the groundwater chemical plume.
- 3. It appears that MtBE concentrations in groundwater are diminishing across the Site and that current maximum concentrations are below the

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Environmental Screening Levels (ESLs) for industrial land use type where groundwater is not a potential drinking water source.

- 4. The bioattenuation study confirmed occurrence of biodegradation beneath the Site. Based on this study, affected areas appear to be in the vicinity of the USTs, around wells MW-1 and MW-3 and the eastern section of the Site, around MW-6.
- 5. The source area remains in the vicinity of the UST cavity, pump islands, and eastern section of the mechanic shop at wells MW-1, MW-3, and MW-6. However, during this monitoring event the following concentration trends were observed.
 - The maximum benzene concentration was reported in MW-3 at 2,360 µg/L. The benzene concentration was below the laboratorydetection limit in MW-7.
 - Toluene was non-detectable in MW-2, MW-4R, MW-5, MW-7, MW-10 and MW-12.
 - Ethylbenzene was non-detectable in MW-5.
 - \circ The highest benzene, toluene, ethylbenzene, and total xylenes were detected at MW-3 at 2,360 µg/L, 52 µg/L, 523 µg/L, and 213.9 µg/L, respectively.
- 6. In general, the GAC and SVE systems have effectively reduced the peak contaminant levels beneath the Site. Since initial startup, approximately 229.86 pounds of hydrocarbons and 87.23 pounds of MtBE have been removed from the groundwater. Approximately 967.2 pounds of petroleum hydrocarbons have been removed from the vadose zone.

Based on results of this monitoring event, SOMA recommends:

- 1. Continuing operation of the pump-and-treat system to maintain the removal rate of contaminant masses in groundwater.
- 2. Continuing operation of the SVE and air sparging remedial systems to maintain the removal rate of contaminants in soil in the unsaturated region.
- 3. Temporarily discontinuing testing for ferrous iron, nitrate, and sulfate parameters. Due to the extent of biodegradation data generated during quarterly monitoring events, SOMA has adequately characterized Site groundwater.
- 4. Continuing the quarterly monitoring programs to better understand seasonal variations in groundwater quality conditions.

6. REPORT LIMITATIONS

This report is the summary of work done by SOMA including observations and descriptions of Site conditions. It includes analytical results produced by Pacific Analytical Laboratory for the current monitoring event and by Curtis & Tompkins, Ltd. for previous events, and summaries of data produced by environmental consultants for previous monitoring events. Numbers and locations of wells were selected to provide the required information, but may not be completely representative of entire Site conditions. All conclusions and recommendations are based on laboratory analysis results. Conclusions beyond those specifically stated in this document should not be inferred from this report.

SOMA warrants that the services were provided in accordance with generally accepted practices in the environmental engineering and consulting field at the time of this sampling.

TABLES

Fourth Quarter 2007: Groundwater Monitoring and Remediation System Operation Report

Monitoring Well	Date	Top Of Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl-Benzene (μg/L)	Total Xylenes (μg/L)	MtBE ² EPA 8260B (μg/L)
MW-1	10/5/1994	97.99	15.39	82.60	320,000	24,000	21,000	2,600	15,000	NA
	12/5/1994	97.99	9.32	88.67	80,000	3,800	6,600	2,300	11,000	NA
	3/2/1995	97.99	8.07	89.92	32,000	190	160	150	490	NA
	6/6/1995	97.99	9.53	88.46	21,000	950	650	570	150	NA
	10/5/1995	97.99	13.29	84.70	59,000	140	130	140	390	NA
	1/2/1996	97.99	10.07	87.92	30,000	71	73	50	120	NA
	4/1/1996	97.99	8.29	89.70	31,000	98	120	63	170	NA
	12/3/1996	97.99	11.67	86.32	NA	NA	NA	NA	NA	NA
	4/9/1997	97.99	11.14	86.85	NA	NA	NA	NA	NA	NA
	12/10/1997	97.99	9.30	88.69	27,000	2,300	2,100	1,400	5,100	NA
	9/10/1998	97.99	13.58	84.41	NA	NA	NA	NA	NA	NA
	12/16/1998	97.99	11.10	86.89	65,000	2,500	2,400	2,300	9,500	160
	3/16/1999	97.99	9.91	88.08	17,000	480	860	850	3,000	190
	6/10/1999	97.99	11.10	86.89	25,000	1,110	1,460	1,330	5,265	77
	8/23/1999	97.99	13.35	84.64	19,750	678	463	893	2,938	38
	11/9/1999	97.99	14.45	83.54	10,000	693	15	<5	3,471	50
	2/7/2000	97.99	11.20	86.79	40,000	2,280	1,380	8	6,130	47
	5/31/2000	97.99	11.49	86.50	15,610	610	350	310	1,400	<5
	8/9/2000	97.99	13.36	84.63	11,000	638	<5	<5	<5	17.1
	11/2/2000	97.99	13.20	84.79	7,050	435	52	ND	689	10

 Table 1

 Historical Groundwater Elevation Data & Analytical Results

 3609 International Boulevard, Oakland, California

		Top Of Casing	Depth to	Groundwater		_			Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260B
Monitoring Well	Date	(feet)	(feet)	(feet)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
MW-1 cont.	3/13/2001	97.99	8.96	89.03	14,570	1,005	440	108	2,030	16
	5/22/2001	97.99	11.50	86.49	4,900	310	81	82	388	150
	8/8/2001	97.99	13.51	84.48	14,820	852	342	568	1,606	2,000
	11/19/2001	97.99	14.01	83.98	41,000	2,700	5,100	1,000	4,570	74,000
	2/21/2002	97.99	10.11	87.88	260,000	3,700	12,000	3,700	19,200	23,000
	5/7/2002	97.99	10.86	87.13	53,000	4,400	5,100	1300	7,000	32,000
	7/30/2002	40.11	12.80	27.31	29,000	2,400	2,500	920	4,400	13,000
	10/2/2002	40.11	15.50	24.61	27,000	2,200	2,400	950	4,500	34,000
	1/3/2003	40.11	9.73	30.38	62,000	3,500	6,000	1600	9,700	48,000
	5/3/2003	40.11	9.71	30.40	59,000	3,100	2,700	1500	7,000	14,000
	7/24/2003	40.11	12.44	27.67	36,000	4,800	1,800	1300	5,600	25,000
	10/22/2003	40.11	13.89	26.22	630,000 H	3,300	1900 C	3600	27,700	15,000
	1/22/2004	40.11	10.45	29.66	39,000	3,100	1,600	950	4,300	8,500
	4/1/2004	40.11	11.49	28.62	41,000	1,200	350C	830	2,740	4,300
	8/20/2004	40.11	13.81	26.30	22,000	2,000	220	560	3,090	6,900
	12/8/2004	40.11	11.10	29.01	22,790	1,634	319	895	2,851	5,504
	3/16/2005	40.11	8.40	31.71	44,400	3,150	811	1,090	2,856	7,180
	5/16/2005	40.11	9.72	30.39	33,900	3,440	1,700	1,090	2,276	3,210
	7/14/2005	40.11	11.31	28.80	50,100	4,350	1,760	1,500	2,853	3,980
	10/13/2005	40.11	13.51	26.60	43,100	1,960	325	639	3,080	3,000
	1/3/2006	40.11	8.82	31.29	55,000	1,100	510	1,100	4,070	2,200
	4/7/2006	40.11	7.12	32.99	42,500	1,780	1,010	1,610	2,449	2,110
	9/8/2006	40.11	12.64	27.47	37,200	3,280	1,460	1,290	2,685	2,180
	11/29/2006	40.11	12.49	27.62	29,400	2,490	782	1,510	1,815	1,540
	2/27/2007	40.11	9.68	30.43	17,000	1,400	452	989	1,583	1,150
	5/24/2007	40.11	11.58	28.53	8,630	575	121	306	687	235
	8/21/2007	40.11	13.34	26.77	7,480	544	87	356	537	172
	11/15/2007	40.11	12.73	27.38	18,500	413	93.1	523	627	86.6

 Table 1

 Historical Groundwater Elevation Data & Analytical Results

 3609 International Boulevard, Oakland, California

		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260B
Monitoring Well	Date	(feet)	(feet)	(feet)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
MW-2	10/1/1994	98.58	15.36	83.22	NA	NA	NA	NA	NA	NA
141 4 4 - 2	12/1/1994	98.58	8.60	89.98	NA	NA	NA	NA	NA	NA
	3/6/1995	98.58	7.68	90.90	490	3	3	3	1	NA
	6/5/1995	98.58	9.59	88.99	8,000	220	330	350	660	NA
	10/2/1995	98.58	13.42	85.16	46,000	160	130	93	240	NA
	1/3/1996	98.58	9.93	88.65	46,000	160	130	93	240	NA
	4/3/1996	98.58	9.93 8.13	90.45	27,000	0.1	92	93 44	13	NA
	12/9/1996	98.58 98.58	11.67	90.45 86.91	6,200	11	92 7	2	13	NA
					,			37		
	4/10/1997	98.58	11.40	87.18	53,000	150	110		0.12	ND
	12/30/1997	98.58	9.04	89.54	35,000	4,900	4,900	1,600	7,000	NA
	6/30/1998	98.58	NM	NM	25,000	2,000	2,000	1,300	4,300	NA
	9/29/1998	98.58	13.58	85.00	29,000	290	180	160	360	<0.5
	12/16/1998	98.58	10.94	87.64	26,000	1,400	1,600	880	9,500	<5
	3/16/1999	98.58	7.60	90.98	7,600	730	830	610	1,900	55
	6/10/1999	98.58	11.24	87.34	3,500	290	428	211	744	ND
	8/23/1999	98.58	13.50	85.08	60	6	9	4	11	ND
	11/9/1999	98.58	14.10	84.48	<50	<5	<5	<5	<5	<5
	2/7/2000	98.58	9.85	88.73	6,400	372	639	46	134	8
	5/31/2000	98.58	10.88	87.70	2,930	130	330	130	570	<5
	8/9/2000	98.58	13.03	85.55	<50	<5	<5	<5	<5	<5
	11/2/2000	98.58	12.60	85.98	ND	ND	ND	ND	ND	ND
	3/13/2001	98.58	8.55	90.03	932	18	34	1.3	225	ND
	5/22/2001	98.58	11.00	87.58	870	37	75	55	179	2.7
	8/8/2001	98.58	13.53	85.05	125	4	4	3	11	ND
	11/19/2001	98.58	13.43	85.15	470	13	64	22	83	14
	2/21/2002	98.58	8.99	89.59	1,700	26	180	95	360	<2
	5/7/2002	98.58	10.59	87.99	1,800	31	140	110	348	<2
	7/30/2002	40.71	12.70	28.01	180	11	6.3	9.4	27	<2.0
	10/2/2002	40.71	14.23	26.48	<50	<0.5	<0.5	<0.5	0.64	<2.0

 Table 1

 Historical Groundwater Elevation Data & Analytical Results

 3609 International Boulevard, Oakland, California

					1			1 1		
		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260B
Monitoring Well	Date	(feet)	(feet)	(feet)	(µg/L)	(μg/L)	(µg/L)	(μg/L)	(μg/L)	(μg/L)
MW-2 cont.	1/3/2003	40.71	8.66	32.05	510	5	30.0	24.0	92	<2.0
	5/3/2003	40.71	9.17	31.54	1,300	14	88.0	78.0	271	<2.0
	7/24/2003	40.71	12.23	28.48	220	3.9	4.3	7	14.5	<2.0
	10/22/2003	40.71	13.65	27.06	170 H	1.9	<0.5	2.2	2.2	<2.0
	1/22/2004	40.71	9.54	31.17	860	7.2	37	50	151	<2.0
	4/1/2004	40.71	10.80	29.91	730	6.6	19	38	87	<2.0
	8/20/2004	40.71	13.54	27.17	220	2.2	1.9	7	11.7	<0.5
	12/8/2004	40.71	10.52	30.19	99	1.7	3.3	8.3	25.1	<0.5
	3/15/2005	40.71	8.06	32.65	5,690	18.7	120	315	876	<1.0
	5/17/2005	40.71	9.10	31.61	6,320	12.5	75	429	557	<2.15
	7/14/2005	40.71	11.10	29.61	7,680	14.1	46.3	522	471	<2.15
	10/13/2005	40.71	13.25	27.46	562	4.25	3.28	15	8.29	<0.50
	1/3/2006	40.71	6.72	33.99	340	2.5	4.4	22	50.2	<0.5
	4/7/2006	40.71	5.75	34.96	6,160	24	84.8	385	474	<2.15
	9/7/2006	40.71	12.58	28.13	114	2.45	<2.0	8.62	6.85	<0.5
	11/29/2006	40.71	12.26	28.45	293	5.02	3.25	24	15.15	<0.5
	2/27/2007	40.71	8.78	31.93	3,190	18.30	49.20	396	466	<1.0
	5/23/2007	40.71	11.09	29.62	<50.0	<0.500	<2.00	6.22	4.68	<0.500
	8/21/2007	40.71	13.31	27.40	241	3.12	<2.00	17.6	7.59	<0.500
	11/16/2007	40.71	12.59	28.12	61.1	5.09	<2.00	1.67	<2.00	<0.5
MW-3	10/5/1994	97.78	15.79	81.99	3,000,000	190,000	740,000	310,000	130,000	NA
	12/2/1994	97.78	9.79	87.99	250,000	19,000	22,000	4,400	28,000	NA
	3/6/1995	97.78	8.69	89.09	350,000	20,000	42,000	5,800	36,000	NA
	6/5/1995	97.78	10.25	87.53	350,000	20,000	42,000	5,800	36,000	NA
	10/2/1995	97.78	12.91	84.87	150,000	510	410	210	65	NA
	1/3/1996	97.78	10.55	87.23	150,000	510	410	210	650	NA
	4/3/1996	97.78	8.76	89.02	NA	NA	NA	NA	NA	NA
	12/3/1996	97.78	12.02	85.76	NA	NA	NA	NA	NA	NA

 Table 1

 Historical Groundwater Elevation Data & Analytical Results

 3609 International Boulevard, Oakland, California

				T		T	T		r	
		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene		EPA 8260
Monitoring Well	Date	(feet)	(feet)	(feet)	(µg/L)	(μg/L)	(µg/L)	(μg/L)	(μg/L)	(μg/L)
MW-3 cont.	4/1/1997	97.78	11.73	86.05	NA	NA	NA	NA	NA	NA
	12/1/1997	97.78	NM	NM	NA	NA	NA	NA	NA	NA
	9/1/1998	97.78	14.68	83.10	NA	NA	NA	NA	NA	NA
	12/16/1998	97.78	11.55	86.23	51,000	5,700	3,900	1,200	6,300	410
	3/16/1999	97.78	8.44	89.34	45,000	4,100	6,400	1,000	6,100	470
	6/10/1999	97.78	11.8	85.98	46,000	8,245	6,425	1,015	7,173	274
	8/23/1999	97.78	13.85	83.93	64,000	7,484	8,052	1,744	9,749	141
	11/9/1999	97.78	14.7	83.08	26,000	3,218	1,319	<5	6,697	126
	2/7/2000	97.78	10.95	86.83	44,000	6,090	3,360	<5	5,780	276
	5/31/2000	97.78	11.68	86.10	68,000	15,000	8,900	1,500	7,400	<5
	8/9/2000	97.78	13.73	84.05	76,000	8,900	5,636	883	7,356	176
	11/2/2000	97.78	13.4	84.38	48,000	6,789	4,816	676	7,258	83
	3/13/2001	97.78	9.43	88.35	14,754	2,250	140	ND	1,284	110
	5/22/2001	97.78	11.81	85.97	44,000	5,400	3,100	1,400	6,400	200
	8/8/2001	97.78	14.1	83.68	41,750	3,485	2,670	1,255	5,420	52
	11/19/2001	97.78	14.32	83.46	NA	NA	NA	NA	NA	NA
	2/21/2002	97.78	10.01	87.77	62,000	6,000	7,600	1,900	9,200	12,000
	5/7/2002	97.78	11.28	86.50	54,000	6,700	3,200	1,800	7,100	9,100
	7/30/2002	40.91	13.25	27.66	45,000	8,900	1,700	1,600	5,600	2,600
	10/2/2002	40.91	14.98	25.93	70,000	4,900	5,100	2,100	11,900	21,000
	1/3/2003	40.91	9.79	31.12	35,000	2,900	1,300	860	5,200	13,000
	5/3/2003	40.91	10.01	30.90	48,000	5,800	1,400	1,600	7,400	5,900
	7/24/2003	40.91	12.94	27.97	31,000	4,700	990	1,400	5,200	16,000
	10/22/2003	40.91	14.29	26.62	30,000	4,400	930	1,600	5,400	7,400
	1/22/2004	40.91	10.57	30.34	45,000	2,100	850	1,500	5,700	2,900
	4/1/2004	40.91	11.84	29.07	31,000	4,200	590	1,600	4,370	900
	8/20/2004	40.91	14.24	26.67	21,000	3,400	370	1,000	2,350	1,100
	12/8/2004	40.91	11.32	29.59	6,441	978	109	490	941	201
	3/16/2005	40.91	8.87	32.04	22,300	1,280	456	729	1,870	2,400
	5/17/2005	40.91	9.96	30.95	17,600	764	302	735	1,227	1,800
	7/14/2005	40.91	11.50	29.41	34,600	1,390	492	1,460	2,054	1,090
	10/13/2005	40.91	13.78	27.13	15,000	1,290	267	675	838	893

 Table 1

 Historical Groundwater Elevation Data & Analytical Results

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		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260E
Monitoring Well	Date	(feet)	(feet)	(feet)	(μg/L)	(μg/L)	(μg/L)	(µg/L)	(µg/L)	(μg/L)
MW-3 cont.	1/3/2006	40.91	7.50	33.41	8,700	650	98	330	860	280
	4/7/2006	40.91	6.74	34.17	16,800	677	239	802	1,018	564
	9/8/2006	40.91	12.95	27.96	26,400	1,660	381	933	1,545	332
	11/29/2006	40.91	12.78	28.13	15,100	2,080	381	1,290	1,624	247
	2/27/2007	40.91	9.43	31.48	5,950	1,100	116	531	500	170
	5/24/2007	40.91	11.63	29.28	8,240	1,360	116	540	696	37
	8/21/2007	40.91	13.75	27.16	13,200	2,240	119	868	983	36.4
	11/16/2007	40.91	13.25	27.66	5,490	2,360	52	523	213.9	43
MW-4	1/3/1996	97.85	10.11	87.74	9,300	230	110	10	29	NA
	4/3/1996	97.85	8.35	89.50	1,900	12	8	5	14	NA
	12/9/1996	97.85	11.58	86.27	4,000	14	6	4	12	ND
	4/10/1997	97.85	11.23	86.62	ND	ND	ND	ND	ND	ND
	12/30/1997	97.85	9.43	88.42	2,300	410	270	100	1,500	NA
	6/30/1998	97.85	NM	NM	1,700	780	160	54	200	NA
	9/29/1998	97.85	13.64	84.21	6,200	910	77	68	200	18
	12/16/1998	97.85	11.13	86.72	1,400	590	33	28	94	24
	3/16/1999	97.85	8.46	89.39	600	200	35	19	56	11
	6/10/1999	97.85	11.30	86.55	1,000	298	44	19	64	13
	8/23/1999	97.85	13.20	84.65	660	497	41	54	145	6
	11/9/1999	97.85	14.10	83.75	<50	<5	<5	<5	<5	<5
	2/7/2000	97.85	11.25	86.60	7,800	1,200	61	<5	781	<5
	5/31/2000	97.85	11.46	86.39	552	42	19	16	67	<5
	8/9/2000	97.85	13.35	84.50	370	5.08	<5	<5	<5	<5
	11/2/2000	97.85	13.05	84.80	ND	5.30	ND	ND	8	ND
	3/13/2001	97.85	9.24	88.61	62	ND	ND	3.2	8.7	ND
	5/22/2001	97.85	11.50	86.35	80	12	1.9	4.1	9.8	ND
	8/8/2001	97.85	13.80	84.05	133	12	2.2	3.9	9	ND
	11/19/2001	97.85	13.68	84.17	670	180	5	17	53	ND

 Table 1

 Historical Groundwater Elevation Data & Analytical Results

 3609 International Boulevard, Oakland, California

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		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260B
Monitoring Well	Date	(feet)	(feet)	(feet)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
MW-4 cont.	2/21/2002	97.85	9.97	87.88	450	63	4.1	22	28.7	<2
	5/7/2002	97.85	10.81	87.04	570	72	29	27	74	<2
	7/30/2002	40.01	12.62	27.39	450	20	24	19	74	<2.0
	10/2/2002	40.01	14.34	25.67	320	69	0.99	9	5.49	<2.0
	1/3/2003	40.01	9.79	30.22	310	49	2.5	13	26.7	<2.0
	7/24/2003	40.01	12.44	27.57	<50	1	<0.5	<0.5	<0.5	<0.5
	10/22/2003	40.01	13.72	26.29	70	12	<0.5	4.7	3.0	<2.0
	1/22/2004	40.01	10.55	29.46	230	18	2.1	8.1	17.1	<2.0
	4/1/2004	40.01	11.39	28.62	<50	3.8	<0.5	1.6	1.9	<2.0
	8/20/2004	40.01	13.68	26.33	<50	1.6	<0.5	0.66	0.53	<2.0
	12/7/2004	40.01	10.95	29.06	<50	1.3	<0.5	2.80	<1.0	<0.5
	3/15/2005	40.01	8.61	31.40	661	72	4.13	39.7	48.42	<0.5
MW-4R	5/17/2005	40.34	9.88	30.46	7,780	170	11.1	192	121.2	<0.5
	7/14/2005	40.34	11.61	28.73	847	25.3	<2.0	28.2	10.9	<0.5
	10/13/2005	40.34	13.73	26.61	785	35.5	<2.0	48.2	8.35	<0.50
	1/3/2006	40.34	9.18	31.16	2,500	65	3.8	70	62	<0.5
	4/6/2006	40.34	7.70	32.64	852	42.4	2.25	28.4	17.13	<0.5
	9/7/2006	40.34	12.96	27.38	97.7	9.29	<2.0	4.05	1.03	<0.5
	11/28/2006	40.34	12.70	27.64	914	87	<2.0	15.10	10.40	<0.5
	2/26/2007	40.34	9.78	30.56	561	38.4	<2.0	41.30	9.67	<0.5
	5/23/2007	40.34	11.36	28.98	351	35.8	<2.00	23.20	4.82	<0.500
	8/20/2007	40.34	13.45	26.89	223	24.7	<2.00	9.15	2.54	<0.500
	11/15/2007	40.34	13.01	27.33	1,740	94.5	<2.00	41	15.52	<0.5
MW-5	10/2/1995	99.04	13.57	85.47	1,500	1	1	4	5	NA
	1/3/1996	99.04	10.03	89.01	1,500	1	1	4	5	NA
	4/3/1996	99.04	8.24	90.80	780	1	1	5	4	NA
	12/9/1996	99.04	11.48	87.56	NA	NA	NA	NA	NA	NA
	4/10/1997	99.04	11.35	87.69	NA	NA	NA	NA	NA	NA

 Table 1

 Historical Groundwater Elevation Data & Analytical Results

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		Top Of Casing Elevation ¹	Depth to Groundwater	Groundwater Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE ² EPA 8260B
Monitoring Well	Date	(feet)	(feet)	(feet)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(µg/L)
MW-5 cont.	12/30/1997	99.04	9.15	89.89	790	82	66	59	160	NA
	6/30/1998	99.04	NM	NM	400	<5	<5	15	<10	NA
	9/29/1998	99.04	13.82	85.22	270	2	1	3	3	<.5
	12/16/1998	99.04	11.20	87.84	1,400	1	1	ND	2	ND
	3/16/1999	99.04	7.73	91.31	650	3	1	16	2	10
	6/10/1999	99.04	11.50	87.54	270	4	3	6	4	ND
	8/23/1999	99.04	13.55	85.49	120	ND	4	ND	4	ND
	11/9/1999	99.04	14.30	84.74	<50	<5	<5	<5	<5	<5
	2/7/2000	99.04	9.85	89.19	70	<5	<5	<5	7	<5
	5/31/2000	99.04	11.03	88.01	627.4	7.4	24	12	32.4	<5
	8/9/2000	99.04	13.22	85.82	<50	<5	<5	<5	<5	<5
	11/2/2000	99.04	13.55	85.49	ND	ND	ND	ND	ND	ND
	3/13/2001	99.04	8.67	90.37	382	6.1	1.9	6.6	5.9	ND
	5/22/2001	99.04	11.12	87.92	180	ND	ND	2.1	0.57	4.4
	8/8/2001	99.04	13.79	85.25	258	1	1.1	3.4	7.3	1.4
	11/19/2001	99.04	13.72	85.32	920	17	160	26	135	40
	2/21/2002	99.04	9.04	90.00	290	3.5	2	6.2	6.2	<0.5
	5/7/2002	99.04	10.69	88.35	160	<0.5	0.78 C	2	2.15	2.3
	7/30/2002	41.16	12.94	28.22	110	<0.5	<0.5	0.77	<0.5	<0.5
	10/20/2002	41.16	14.51	26.65	77	<0.5	<0.5	<0.5	<0.5	<2.0
	1/3/2003	41.16	8.73	32.43	450 Y	<0.5	<0.5	4	0.54	2.1
	5/3/2003	41.16	9.24	31.92	130	<0.5	<0.5	1	<0.5	3.1
	7/24/2003	41.16	12.45	28.71	300	<0.5	1.9 C	0.76	<0.5	<2.0
	10/22/2003	41.16	13.89	27.27	460 H	<0.5	< 0.5	<0.5	< 0.5	1.9
	1/22/2004	41.16	9.60	31.56	160	< 0.5	< 0.5	0.55 C	< 0.5	<5.0
	4/1/2004	41.16	11.06	30.10	280	< 0.5	0.74C	0.62	<0.5	2.1
	8/20/2004	41.16	13.75	27.41	250	<0.5	<0.5	<0.5	< 0.5	2
	12/7/2004	41.16	10.73	30.43	150	<0.5	<0.5	<0.5	<1.0	2.6

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		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260B
Monitoring Well	Date	(feet)	(feet)	(feet)	(μg/L)	(μg/L)	(μg/L)	(µg/L)	(µg/L)	(μg/L)
MW-5 cont.	3/15/2005	41.16	8.18	32.98	496	<0.5	<0.5	<0.5	<1.0	1.91
	5/17/2005	41.16	9.22	31.94	360	<0.5	<0.5	<0.5	<1.0	1.72
	7/14/2005	41.16	11.30	29.86	267	<0.5	<2.0	<0.5	<1.0	1.74
	10/13/2005	41.16	13.57	27.59	404	<0.50	<2.0	<0.50	<1.0	0.93
	1/3/2006	41.16	6.81	34.35	170	2.2	<0.5	1.8	3.1	1.1
	4/7/2006	41.16	5.81	35.35	449	<0.5	<2.0	0.53	<1.0	1.16
	9/7/2006	41.16	12.78	28.38	185	<0.5	<2.0	2.02	<1.0	<0.5
	11/28/2006	41.16	12.62	28.54	158	0.64	<2.0	<0.5	<2.0	<0.5
	2/26/2007	41.16	8.92	32.24	78.2	<0.5	<2.0	<0.5	<2.0	0.52
	5/23/2007	41.16	11.36	29.80	58.4	<0.5	<2.0	4.36	<2.0	<0.5
	8/20/2007	41.16	13.52	27.64	82.4	0.52	<2.0	4.49	2.3	<0.5
	11/16/2007	41.16	12.74	28.42	<50	3.45	<2.00	<0.5	<2.0	0.58
MW-6	10/1/1995	98.77	13.94	84.83	NA	NA	NA	NA	NA	NA
	1/1/1996	98.77	10.55	88.22	120,000	350	310	200	610	NA
	4/1/1996	98.77	8.76	90.01	NA	NA	NA	NA	NA	NA
	12/1/1996	98.77	12.04	86.73	NA	NA	NA	NA	NA	NA
	4/1/1997	98.77	11.76	87.01	NA	NA	NA	NA	NA	NA
	12/1/1997	98.77	9.30	89.47	NA	NA	NA	NA	NA	NA
	9/1/1998	98.77	14.10	84.67	NA	NA	NA	NA	NA	NA
	12/1/1998	98.77	11.60	87.17	NA	NA	NA	NA	NA	NA
	3/16/1999	98.77	8.40	90.37	37,000	3,900	4,300	1,600	7,000	180
	6/10/1999	98.77	11.90	86.87	18,500	2,060	1,650	735	3,170	ND
	8/23/1999	98.77	13.90	84.87	42,000	3,806	3,649	1,554	7,996	10
	11/9/1999	98.77	14.75	84.02	40,000	1,084	130	<5	10,940	<5
	2/7/2000	98.77	10.95	87.82	17,000	1,360	521	<5	4,150	6
	8/9/2000	98.77	13.78	84.99	24,000	1,306	870	<5	5,162	<5
	11/2/2000	98.77	13.40	85.37	19,000	1,387	618	ND	5,250	ND

 Table 1

 Historical Groundwater Elevation Data & Analytical Results

 3609 International Boulevard, Oakland, California

		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260B
Monitoring Well	Date	(feet)	(feet)	(feet)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
MW-6 cont.	3/13/2001	98.77	9.49	89.28	15,637	713	459	238	2,363	ND
	5/22/2001	98.77	11.82	86.95	27,000	760	450	1,600	4,270	ND
	8/8/2001	98.77	NM	NM	NA	NA	NA	NA	NA	NA
	11/19/2001	98.77	NM	NM	NA	NA	NA	NA	NA	NA
	2/21/2002	98.77	9.92	88.85	14,000	440	180	750	1,020	<10
	5/7/2002	98.77	11.33	87.44	10,000	400	160	470	970	<2
	7/30/2002	40.92	13.28	27.64	24,000	1,000	410	1,400	3,770	<20
	10/20/2002	40.92	14.93	25.99	22,000	1,200	620	1,300	2,800	<20
	1/3/2003	40.92	9.78	31.14	12,000	730	230	740	1,690	<20
	5/3/2003	40.92	9.92	31.00	150,000 H	1,400	780	2,500	8,700	<40
	7/24/2003	40.92	12.98	27.94	29,000	1,600	520	1,500	4,400	<200
	10/22/2003	40.92	14.35	26.57	36,000	1,300	430	1,600	4,570	<40
	1/22/2004	40.92	10.60	30.32	30,000	1,300	320	1,500	3,040	<50
	4/1/2004	40.92	11.80	29.12	99,000	1,700	580 C	2,200	5,200	<50
	8/20/2004	40.92	14.36	26.56	12,000	580	130	520	1,020	<10
	12/8/2004	40.92	11.22	29.70	12,631	649	134	1,009	2,037	<2.15
	3/16/2005	40.92	8.94	31.98	18,300	546	126	705	1,069	<2.15
	5/17/2005	40.92	10.02	30.90	38,500	1,290	395	1,550	1,652	<5.50
	7/15/2005	40.92	11.78	29.14	50,100	1,510	409	1,900	1,920	<5.50
	10/13/2005	40.92	14.04	26.88	9,620	513	97.4	523	422.3	<2.15
	1/3/2006	40.92	7.86	33.06	13,000	260	79.0	680	750	<4.2
	4/7/2006	40.92	6.93	33.99	18,200	650	151	918	715	<5.5
	9/8/2006	40.92	13.12	27.80	18,600	604	98.80	639	659	<2.15
	11/28/2006	40.92	12.95	27.97	20,300	656	96.30	1,060	760	7.86
	2/27/2007	40.92	9.68	31.24	8,440	249	36.30	697	316.8	<2.15
	5/24/2007	40.92	11.59	29.33	11,400	292	34.8	493	278.5	<2.15
	8/21/2007 11/16/2007	40.92 40.92	13.88 13.29	27.04 27.63	9,480 5,430	727 436	87.6 29.8	761 439	590 147.8	<2.15 <2.15
I	11/10/2007	40.32	13.23	21.05	3,430	430	23.0	400	147.0	×2.13

 Table 1

 Historical Groundwater Elevation Data & Analytical Results

 3609 International Boulevard, Oakland, California

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		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260
Monitoring Well	Date	(feet)	(feet)	(feet)	(µg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
MW-7	10/2/1995	97.83	12.95	84.88	NA	10	12	17	NA	3,300
	1/3/1996	97.83	9.57	88.26	3,300	9	12	17	45	NA
	4/3/1996	97.83	7.75	90.08	1,900	2	3	5	7	NA
	12/9/1996	97.83	10.97	86.86	NA	NA	NA	NA	NA	NA
	4/10/1997	97.83	12.95	84.88	NA	NA	NA	NA	NA	NA
	12/30/1997	97.83	8.65	89.18	1,400	130	98	75	200	NA
	6/30/1998	97.83	NM	NM	620	4	<5	9	<10	NA
	9/29/1998	97.83	13.09	84.74	1,800	1	1	1	2	68
	12/16/1998	97.83	10.52	87.31	990	5	10	5	20	160
	3/16/1999	97.83	7.00	90.83	300	3	1	1	1	62
	6/10/1999	97.83	10.70	87.13	320	3	7	4	3	26
	8/23/1999	97.83	12.80	85.03	570	5	10	ND	ND	ND
	11/9/1999	97.83	13.25	84.58	290	<5	9	<5	<5	12
	2/7/2000	97.83	9.50	88.33	80	<5	<5	<5	<5	23
	5/31/2000	97.83	10.52	87.31	494.9	4.9	22	4.2	21.9	29
	8/9/2000	97.83	12.63	85.20	80	<5	<5	<5	<5	11.7
	11/2/2000	97.83	11.95	85.88	50	ND	ND	ND	ND	9.1
	3/13/2001	97.83	8.04	89.79	82	0.97	ND	0.76	ND	78
	5/22/2001	97.83	10.60	87.23	370	ND	9.1	1.3	2.3	28
	8/8/2001	97.83	13.02	84.81	610	3.7	3	6.2	18.9	10
	11/19/2001	97.83	12.83	85.00	1,700	24	220	41	205	69
	2/21/2002	97.83	8.91	88.92	380	<0.5	2.5	2	3.8	78
	5/7/2002	97.83	10.13	87.70	560	15	28.0	9.2	44.0	37
	7/30/2002	39.94	12.15	27.79	270	5.3	1.3 C	2.3	8.1	46
	10/20/2002	39.94	13.74	26.20	350	<0.5	2.1 C	<0.5	3.1 C	43
	1/3/2003	39.94	8.45	31.49	220 Y	<0.5	<0.5	0.78	0.55	19
	5/3/2003	39.94	7.69	32.25	280	<0.5	<0.5	<0.5	<0.5	11
	7/24/2003	39.94	11.72	28.22	230	<0.5	1.3 C	<0.5	0.63	5.9
	10/22/2003	39.94	13.10	26.84	460	<0.5	<0.5	<0.5	<0.5	5.0

 Table 1

 Historical Groundwater Elevation Data & Analytical Results

 3609 International Boulevard, Oakland, California

		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260
Monitoring Well	Date	(feet)	(feet)	(feet)	(μg/L)	(μg/L)	(µg/L)	(μg/L)	(μg/L)	(μg/L)
MW-7 cont.	1/22/2004	39.94	9.23	30.71	380	<0.5	1.4 C	<0.5	<0.5	<5.0
	4/1/2004	39.94	10.40	29.54	480	<0.5	2.5 C	<0.5	0.90	0.62
	8/20/2004	39.94	12.92	27.02	410	<0.5	.81 C	<0.5	<0.5	1.70
	12/7/2004	39.94	10.28	29.66	96	<0.5	<0.5	<0.5	<1.0	<0.5
	3/16/2005	39.94	7.44	32.50	209	<0.5	<0.5	<0.5	<1.0	1.74
	5/16/2005	39.94	8.53	31.41	262	4.85	2.19	2.36	4.24	0.73
	7/14/2005	39.94	10.61	29.33	753	20.6	11.9	16.8	33.23	2.36
	10/13/2005	39.94	12.80	27.14	1,690	5.3	2.71	12.6	54	1.93
	1/3/2006	39.94	6.39	33.55	250 Y	0.80	<0.5	0.61	<0.5	1.1
	4/7/2006	39.94	8.10	31.84	3,440	0.64	<2.0	17	<1.0	<0.5
	9/7/2006	39.94	14.52	25.42	320	2.87	<2.0	4.76	1.34	<0.5
	11/28/2006	39.94	12.17	27.77	774	1.81	<2.0	6.76	3.03	<0.5
	2/26/2007	39.94	10.41	29.53	1,240	<0.5	<2.0	6.83	<2.0	<0.5
	5/23/2007	39.94	10.16	29.78	265	<0.5	<2.0	5.38	<2.0	<0.5
	8/20/2007	39.94	12.98	26.96	<50.0	0.78	<2.0	4.87	2.36	<0.5
	11/15/2007	39.94	12.45	27.49	135	<0.5	<2.00	0.54	<2.0	<0.5
MW-8	10/2/1995	97.25	12.86	84.39	NA	NA	NA	NA	NA	NA
	1/3/1996	97.25	9.79	87.46	94,000	310	250	180	480	NA
	4/3/1996	97.25	7.98	89.27	58,000	250	170	140	330	NA
	12/9/1996	97.25	11.13	86.12	27,000	88	43	44	80	ND
	4/10/1997	97.25	12.95	84.30	24,000	86	55	50	100	ND
	12/30/1997	97.25	8.95	88.30	28,000	6,000	1,600	2,100	4,700	NA
	6/30/1998	97.25	NM	NM	54,000	4,600	2,800	3,500	7,300	NA
	9/29/1998	97.25	13.02	84.23	NA	NA	NA	NA	NA	NA
	12/16/1998	97.25	10.75	86.50	61,000	6,300	1,700	2,200	4,400	1,300
	3/16/1999	97.25	7.58	89.67	22,000	1,800	470	2,000	2,000	820
	6/10/1999	97.25	10.80	86.45	39,500	3,610	1,635	2,175	5,913	988
	8/23/1999	97.25	12.75	84.50	58,000	5,379	2,438	3,001	6,960	639
	11/9/1999	97.25	13.65	83.60	10,500	92	<5	<5	3,414	769
	2/7/2000	97.25	10.85	86.40	44,200	1,080	617	<5	4,160	240
	5/31/2000	97.25	11.15	86.10	25,940	940	130	1,600	3,960	75
	8/9/2000	97.25	12.87	84.38	22,000	632	5.38	<5	2,686	37.3
	11/2/2000	97.25	12.55	84.70	3,000	278	350	209	980	21

 Table 1

 Historical Groundwater Elevation Data & Analytical Results

 3609 International Boulevard, Oakland, California

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		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260B
Monitoring Well	Date	(feet)	(feet)	(feet)	(µg/L)	(μg/L)	(μg/L)	(μg/L)	(µg/L)	(μg/L)
MW-8 cont.	3/13/2001	97.25	8.75	88.50	2,360	81	16	71	270	221
	8/8/2001	97.25	12.97	84.28	5,620	153	46	373	345	174
	11/19/2001	97.25	13.19	84.06	13,000	600	270	750	1,200	400
	2/21/2002	97.25	9.88	87.37	240,000	1,400	<25	4,200	6,560	<100
	5/7/2002	97.25	10.32	86.93	9,000	360	56	560	622	2,100
	7/30/2002	39.38	11.79	27.59	8,400	340	78	530	517	1,200
	10/20/2002	39.38	13.80	25.58	18,000	950	75	1,400	1,269	700
	1/3/2003	39.38	9.48	29.90	8,100	300	29	370	302	1,100
	5/3/2003	39.38	9.48	29.90	18,000	380	33 C	1,000	516	540
	7/24/2003	39.38	11.92	27.46	12,000	460	54 C	910	435	890
	10/22/2003	39.38	13.09	26.29	16,000	830	87	2,000	675	280
	1/22/2004	39.38	10.32	29.06	18,000	330	37 C	860	239	500
	4/1/2004	39.38	11.23	28.15	12,000	240	26 C	650	128.8 C	<4
	8/20/2004	39.38	13.02	26.36	6,000	310	27	660	56.8 C	<4
	12/8/2004	39.38	10.79	28.59	6,650	171	15	360	35	166
	3/15/2005	39.38	7.62	31.76	11,400	125	21	418	55.3	865
	5/16/2005	39.38	9.15	30.23	10,100	122	13.2	440	34.73	406
	7/14/2005	39.38	10.81	28.57	11,600	213	27.8	854	71.51	184
	10/13/2005	39.38	12.81	26.57	6,590	256	27.7	655	48.50	375
	1/3/2006	39.38	7.40	31.98	4,800	53	5.2	130	21	210
	4/6/2006	39.38	6.04	33.34	8,240	82.5	14.6	364	28.06	771
	9/7/2006	39.38	12.15	27.23	4,130	86.80	7.32	173	19.73	48.60
	11/28/2006	39.38	11.92	27.46	3,680	198	15.10	313	23.82	149
	2/27/2007	39.38	8.52	30.86	5,690	122	15.10	455	33.62	203
	5/24/2007	39.38	10.79	28.59	3,400	32.60	4.35	177	14.65	69.5
	8/20/2007	39.38	12.71	26.67	1,310	58.60	4.22	106	7.20	26.8
	11/15/2007	39.38	12.13	27.25	10,300	169	11.1	281	12.0	60.4
MW-10	12/1/1996	94.54	10.44	84.10	NA	NA	NA	NA	NA	NA
	4/10/1997	94.54	10.07	84.47	1,000	21	9	3	3	ND
	12/30/1997	94.54	8.78	85.76	10,000	5,300	76	1,100	780	NA

 Table 1

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		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260B
Monitoring Well	Date	(feet)	(feet)	(feet)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
MW-10 cont.	9/29/1998	94.54	11.93	82.61	9,900	5,400	66	970	620	2,600
	12/16/1998	94.54	10.19	84.35	8,700	3,800	51	790	420	1,800
	3/16/1999	94.54	7.30	87.24	4,100	15	28	420	250	2,800
	6/10/1999	94.54	9.95	84.59	4,200	1,168	34	264	154	1,195
	8/23/1999	94.54	11.60	82.94	3,250	2,135	97	600	248	1,800
	11/9/1999	94.54	12.50	82.04	2,950	1,134	20	<5	70	652
	2/7/2000	94.54	9.25	85.29	<50	<5	<5	<5	<5	448
	5/31/2000	94.54	9.45	85.09	4,400	1,500	25	390	107.1	580
	8/9/2000	94.54	11.52	83.02	6,800	1,055	26	54	53.8	1,283
	11/2/2000	94.54	11.35	83.19	ND	ND	ND	ND	ND	145
	3/13/2001	94.54	8.07	86.47	4,935	969	18	41	72	630
	5/22/2001	94.54	9.80	84.74	2,900	630	11	200	31	270
	8/8/2001	94.54	11.64	82.90	242	35	1	11	2	64
	11/19/2001	94.54	12.06	82.48	3,500	900	260	310	258	410
	2/21/2002	94.54	8.28	86.26	4,700	1,100	20	370	63.7	500
	5/7/2002	94.54	9.49	85.05	3,400	660	13	260	48.0	270
	7/30/2002	36.71	10.93	25.78	160	26	0.55	8.1	1.0	72
	10/20/2002	36.71	12.54	24.17	550	130	3.00	31.0	2.7	70
	1/3/2003	36.71	8.23	28.48	17,000	870	11	290	27	270
	5/3/2003	36.71	8.30	28.41	2,500	650	10	190	15.81 C	180
	7/24/2003	36.71	10.76	25.95	750	160	4	58	6.66 C	79
	10/22/2003	36.71	11.91	24.80	2,000	410	11	170	9.14 C	110
	1/22/2004	36.71	8.91	27.80	4,000	600	15	280	15.3 C	110
	4/1/2004	36.71	9.62	27.09	5,100	580	<1	330	26.4	160
	8/20/2004	36.71	11.50	25.21	3,400	550	13	240	17.0	100
	12/7/2004	36.71	9.29	27.42	2,524	556	10	184	16.0	144

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Monitoring Well	Date	Top Of Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl-Benzene (μg/L)	Total Xylenes (μg/L)	MtBE ² EPA 8260B (μg/L)
MW-10 cont.	3/15/2005	36.71	7.48	29.23	4,340	354	6.07	166	17.1	258
	5/16/2005	36.71	8.24	28.47	4,750	415	6.87	254	10.4	126
	7/14/2005	36.71	9.78	26.93	6,050	594	9.53	297	10.7	120
	10/13/2005	36.71	11.32	25.39	6,230	811	11.3	355	5.6	167
	1/3/2006	36.71	6.81	29.90	2,000	350	6.0	210	16	88
	4/6/2006	36.71	6.03	30.68	600	86.5	<2.0	59.1	2.36	30.4
	9/7/2006	36.71	10.90	25.81	6,960	360	<8.60	253	11.30	103
	11/28/2006	36.71	10.92	25.79	2,800	305	<8.6	228	<8.6	72.8
	2/26/2007	36.71	8.02	28.69	9,470	1,400	29.3	1,260	32.60	263.0
	5/23/2007	36.71	9.54	27.17	860	138	2.45	69.2	4.65	30.9
	8/20/2007	36.71	11.47	25.24	86.6	2.88	<2.00	5.98	2.30	2.68
	11/15/2007	36.71	11.12	25.59	492	104	<2.00	41.2	<2.0	18.7
MW-11	12/1/1996	95.94	11.99	83.95	NA	NA	NA	NA	NA	NA
	4/1/1997	95.94	11.47	84.47	NA	NA	NA	NA	NA	NA
	12/30/1997	95.94	10.40	85.54	710	66	97	59	190	NA
	6/30/1998	95.94	NM	NM	1,100	45	24	71	100	NA
	9/29/1998	95.94	13.24	82.70	170	7	1	4	9	22
	12/16/1998	95.94	11.58	84.36	650	27	4	25	33	>0.5
	3/16/1999	95.94	8.81	87.13	710	30	6	53	84	8
	6/10/1999	95.94	11.50	84.44	4,600	1,240	35	290	159	1,291
	8/23/1999	95.94	12.75	83.19	170	4	4	ND	6	ND
	11/9/1999	95.94	13.85	82.09	<50	<5	<5	<5	<5	<5
	2/7/2000	95.94	13.60	82.34	700	20	15	<5	35	<5
	8/9/2000	95.94	14.87	81.07	590	10.5	5.94	<5	7.75	<5
	11/2/2000	95.94	12.55	83.39	60	ND	ND	ND	ND	ND
	3/13/2001	95.94	9.61	86.33	273	8.6	2.1	10	14	ND
	5/22/2001	95.94	11.15	84.79	280	12	8.3	3.3	9.8	12
	8/8/2001	95.94	13.04	82.90	NA	NA	NA	NA	NA	NA
	11/19/2001	95.94	13.48	82.46	300	7.9	26	5.1	28.9	ND
	2/21/2002	95.94	9.69	86.25	560	34	20	32	37.3	< 0.5
	5/7/2002	95.94	10.99	84.95	280	16	3	7.6	7.6	<2
	7/30/2002	NS	13.24	NC	120	5.6	<0.5	0.61	0.53	<2.0
	10/20/2002	NS	NM	NC	NA	NA	NA	NA	NA	NA

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 3609 International Boulevard, Oakland, California

		Top Of Casing Elevation ¹	Depth to Groundwater	Groundwater Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE ² EPA 8260B
Monitoring Well	Date	(feet)	(feet)	(feet)	(μg/L)	(μg/L)	(μg/L)	(µg/L)	(µg/L)	(μg/L)
MW-11 cont.	1/3/2003	NS	9.76	NC	700	32	5.7	25	14.10	<2.0
	5/3/2003	NS	9.66	NC	280	17	1.5 C	8	4.10	<2.0
	7/24/2003	NS	12.30	NC	340	19 C	3.2	0.58	0.89	<2.0
	10/22/2003	NS	13.38	NC	210	5.0 C	<0.5	<0.5	<0.5	<0.5
	1/22/2004	NS	NM	NC	NA	NA	NA	NA	NA	NA
	4/1/2004	NS	NM	NC	NA	NA	NA	NA	NA	NA
	8/20/2004	NS	NM	NC	NA	NA	NA	NA	NA	NA
	12/7/2004	NS	10.54	NC	486	24	3.0	18	4.00	<0.5
	3/15/2005	NS	NM	NC	NA	NA	NA	NA	NA	NA
	5/16/2005	NS	NM	NC	NA	NA	NA	NA	NA	NA
	7/14/2005	NS	NM	NC	NA	NA	NA	NA	NA	NA
	10/13/2005	NS	NM	NC	NA	NA	NA	NA	NA	NA
	1/3/2006	NS	NM	NC	NA	NA	NA	NA	NA	NA
	4/6/2006	NS	7.72	NC	872	19.8	3.63	37.5	3.28	<0.5
MW-12	11/9/1999	94.84	13.20	81.64	80	<5	<5	<5	<5	229
	2/7/2000	94.84	10.20	84.64	4,000	351	37	<5	24	513
	5/31/2000	94.84	10.48	84.36	3,930	230	10	34	12	200
	8/9/2000	94.84	12.07	82.77	1,730	15.4	12.4	<5	<5	185
	11/2/2000	94.84	12.05	82.79	1,010	9.3	19.0	ND	7.40	215
	3/13/2001	94.84	9.04	85.80	1,517	13	5.6	5.5	11	214
	5/22/2001	94.84	10.52	84.32	31,000	1,200	ND	95	165	1,900
	8/8/2001	94.84	12.24	82.60	2,090	71	1.8	3	4	142
	11/19/2001	94.84	12.76	82.08	3,000	81	69	13	73	120
	2/21/2002	94.84	8.78	86.06	2,500	77	<0.5	5.7	7.4	95
	5/7/2002	94.84	10.26	84.58	2,700	74	<0.5	20	5.1	94
	7/30/2002	36.84	10.93	25.91	2,200	57	<0.5	11	2.6	100
	10/20/2002	36.84	13.13	23.71	2,600	71	<0.5	<0.5	10.3	84

 Table 1

 Historical Groundwater Elevation Data & Analytical Results

 3609 International Boulevard, Oakland, California

		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260B
Monitoring Well	Date	(feet)	(feet)	(feet)	(µg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
MW-12 cont.	1/3/2003	36.84	9.23	27.61	2,300	65	<0.5	1	4.00	86
	5/3/2003	36.84	9.24	27.60	2,200	58	<0.5	4.2 C	4.1 C	96
	7/24/2003	36.84	11.44	25.40	2,200	32 C	16 C	<0.5	9.20	66
	10/22/2003	36.84	12.50	24.34	2200 H	31 C	<0.5	<0.5	3.5 C	49
	1/22/2004	36.84	9.56	27.28	1,700	24 C	14 C	3	5.00	72
	4/1/2004	36.84	10.21	26.63	2,000	11 C	<0.5	<0.5	5 C	36
	8/20/2004	36.84	12.00	24.84	1,900	8.9 C	<0.5	<0.5	1.1 C	26
	12/7/2004	36.84	10.03	26.81	1,018	2	<0.5	<0.5	<1.0	26
	3/15/2005	36.84	8.49	28.35	1,890	4.25	<0.5	6.38	<1.0	30.6
	5/16/2005	36.84	9.07	27.77	1,080	<0.5	<0.5	<0.5	<1.0	20.6
	7/14/2005	36.84	10.43	26.41	1,580	2.71	<2.0	3.33	<1.0	29.3
	10/13/2005	36.84	12.08	24.76	1,560	0.74	<2.0	<0.50	<1.0	28.1
	1/3/2006	36.84	7.89	28.95	480 Y	13	<0.5	<0.5	<0.5	30
	4/6/2006	36.84	7.92	28.92	1,310	<0.5	<2.0	<0.5	<1.0	31.1
	9/7/2006	36.84	11.44	25.40	1,220	0.61	<2.0	2.69	<1.0	23.7
	11/28/2006	36.84	11.61	25.23	543	2.15	<2.0	1.72	<2.0	27.6
	2/26/2007	36.84	9.04	27.80	5,580	9.81	11	8.52	31.3	14.2
	5/23/2007	36.84	10.37	26.47	350	<0.5	<2.0	4.74	2.32	18.9
	8/20/2007	36.84	12.03	24.81	556	0.68	<2.0	4.81	2.41	20.3
	11/15/2007	36.84	11.84	25.00	678	0.79	<2.0	0.51	<2.0	20.4
FDC	2/7/2000	97.10	15.40	81.70	NA	NA	NA	NA	NA	NA
	5/31/2000	97.10	12.41	84.69	NA	NA	NA	NA	NA	NA
	8/9/2000	97.10	15.70	81.40	NA	NA	NA	NA	NA	NA
	11/2/2000	97.10	16.85	80.25	NA	NA	NA	NA	NA	NA
	3/13/2001	97.10	9.39	87.71	NA	NA	NA	NA	NA	NA
	5/22/2001	97.10	15.85	81.25	NA	NA	NA	NA	NA	NA
	8/8/2001	97.10	13.30	83.80	NA	NA	NA	NA	NA	NA
	11/19/2001	97.10	17.82	79.28	NA	NA	NA	NA	NA	NA

 Table 1

 Historical Groundwater Elevation Data & Analytical Results

 3609 International Boulevard, Oakland, California

					1					
		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260
Monitoring Well	Date	(feet)	(feet)	(feet)	(µg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
FDC cont.	2/21/2002	97.10	16.74	80.36	NA	NA	NA	NA	NA	NA
	5/7/2002	97.10	10.36	86.74	NA	NA	NA	NA	NA	NA
	7/30/2002	39.35	11.93	27.42	NA	NA	NA	NA	NA	NA
	10/20/2002	39.35	13.74	25.61	NA	NA	NA	NA	NA	NA
	1/3/2003	39.35	15.18	24.17	NA	NA	NA	NA	NA	NA
	5/3/2003	39.35	16.20	23.15	NA	NA	NA	NA	NA	NA
	7/24/2003	39.35	16.45	22.90	NA	NA	NA	NA	NA	NA
	10/22/2003	39.35	16.53	22.82	NA	NA	NA	NA	NA	NA
	1/22/2004	39.35	13.74	25.61	NA	NA	NA	NA	NA	NA
	4/1/2004	39.35	16.30	23.05	NA	NA	NA	NA	NA	NA
	8/20/2004	39.35	16.05	23.30	NA	NA	NA	NA	NA	NA
	12/7/2004	39.35	14.56	24.79	NA	NA	NA	NA	NA	NA
	3/16/2005	39.35	13.55	25.80	NA	NA	NA	NA	NA	NA
	5/17/2005	39.35	14.88	24.47	NA	NA	NA	NA	NA	NA
	7/14/2005	39.35	14.32	25.03	NA	NA	NA	NA	NA	NA
	10/13/2005	39.35	14.99	24.36	NA	NA	NA	NA	NA	NA
	1/3/2006	39.35	11.82	27.53	NA	NA	NA	NA	NA	NA
	4/6/2006	39.35	13.60	25.75	NA	NA	NA	NA	NA	NA
	9/7/2006	39.35	15.05	24.30	NA	NA	NA	NA	NA	NA
	11/28/2006	39.35	15.47	23.88	NA	NA	NA	NA	NA	NA
	2/26/2007	39.35	13.01	26.34	NA	NA	NA	NA	NA	NA
	5/23/2007	39.35	14.23	25.12	NA	NA	NA	NA	NA	NA
	8/20/2007	39.35	15.92	23.43	NA	NA	NA	NA	NA	NA
	11/15/2007	39.35	15.98	23.37	NA	NA	NA	NA	NA	NA
FDE	5/31/2000	97.90	13.22	84.68	NA	NA	NA	NA	NA	NA
	8/9/2000	97.90	NM	NM	NA	NA	NA	NA	NA	NA
	11/2/2000	97.90	12.75	85.15	NA	NA	NA	NA	NA	NA
	3/13/2001	97.90	9.14	88.76	NA	NA	NA	NA	NA	NA
	5/22/2001	97.90	13.05	84.85	NA	NA	NA	NA	NA	NA
	8/8/2001	97.90	13.69	84.21	NA	NA	NA	NA	NA	NA
	11/19/2001	97.90	13.92	83.98	NA	NA	NA	NA	NA	NA

 Table 1

 Historical Groundwater Elevation Data & Analytical Results

 3609 International Boulevard, Oakland, California

		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260B
Monitoring Well	Date	(feet)	(feet)	(feet)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
FDE cont.	2/21/2002	97.90	13.18	84.72	NA	NA	NA	NA	NA	NA
	5/7/2002	97.90	11.18	86.72	NA	NA	NA	NA	NA	NA
	7/30/2002	40.06	12.81	27.25	NA	NA	NA	NA	NA	NA
	10/20/2002	40.06	14.53	25.53	NA	NA	NA	NA	NA	NA
	1/3/2003	40.06	13.13	26.93	NA	NA	NA	NA	NA	NA
	5/3/2003	40.06	11.79	28.27	NA	NA	NA	NA	NA	NA
	7/24/2003	40.06	13.10	26.96	NA	NA	NA	NA	NA	NA
	10/22/2003	40.06	13.85	26.21	NA	NA	NA	NA	NA	NA
	1/22/2004	40.06	13.27	26.79	NA	NA	NA	NA	NA	NA
	4/1/2004	40.06	13.20	26.86	NA	NA	NA	NA	NA	NA
	8/20/2004	40.06	14.97	25.09	NA	NA	NA	NA	NA	NA
	12/7/2004	40.06	14.25	25.81	NA	NA	NA	NA	NA	NA
	3/16/2005	40.06	12.50	27.56	NA	NA	NA	NA	NA	NA
	5/17/2005	40.06	13.93	26.13	NA	NA	NA	NA	NA	NA
	7/14/2005	40.06	13.98	26.08	NA	NA	NA	NA	NA	NA
	10/13/2005	40.06	13.60	26.46	NA	NA	NA	NA	NA	NA
	1/3/2006	40.06	9.83	30.23	NA	NA	NA	NA	NA	NA
	4/6/2006	40.06	11.30	28.76	NA	NA	NA	NA	NA	NA
	9/7/2006	40.06	13.52	26.54	NA	NA	NA	NA	NA	NA
	11/28/2006	40.06	13.73	26.33	NA	NA	NA	NA	NA	NA
	2/26/2007	40.06	11.20	28.86	NA	NA	NA	NA	NA	NA
	5/23/2007	40.06	12.72	27.34	NA	NA	NA	NA	NA	NA
	8/20/2007	40.06	13.49	26.57	NA	NA	NA	NA	NA	NA
	11/15/2007	40.06	13.28	26.78	NA	NA	NA	NA	NA	NA
FDW	5/31/2000	96.90	12.20	84.70	NA	NA	NA	NA	NA	NA
	8/9/2000	96.90	NM	NM	NA	NA	NA	NA	NA	NA
	11/2/2000	96.90	15.50	81.40	NA	NA	NA	NA	NA	NA
	3/13/2001	96.90	10.12	86.78	NA	NA	NA	NA	NA	NA
	5/22/2001	96.90	13.50	83.40	NA	NA	NA	NA	NA	NA
	8/8/2001	96.90	13.08	83.82	NA	NA	NA	NA	NA	NA
	11/19/2001	96.90	14.31	82.59	NA	NA	NA	NA	NA	NA

Table 1 Historical Groundwater Elevation Data & Analytical Results 3609 International Boulevard, Oakland, California

		T T								
		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260B
Monitoring Well	Date	(feet)	(feet)	(feet)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(µg/L)	(μg/L)
FDW cont.	2/21/2002	96.90	12.78	84.12	NA	NA	NA	NA	NA	NA
	5/7/2002	96.90	10.14	86.76	NA	NA	NA	NA	NA	NA
	7/30/2002	39.16	11.79	27.37	NA	NA	NA	NA	NA	NA
	10/20/2002	39.16	13.50	25.66	NA	NA	NA	NA	NA	NA
	1/3/2003	39.16	12.13	27.03	NA	NA	NA	NA	NA	NA
	5/3/2003	39.16	10.84	28.32	NA	NA	NA	NA	NA	NA
	7/24/2003	39.16	12.12	27.04	NA	NA	NA	NA	NA	NA
	10/22/2003	39.16	13.48	25.68	NA	NA	NA	NA	NA	NA
	1/22/2004	39.16	13.58	25.58	NA	NA	NA	NA	NA	NA
	4/1/2004	39.16	13.90	25.26	NA	NA	NA	NA	NA	NA
	8/20/2004	39.16	15.69	23.47	NA	NA	NA	NA	NA	NA
	12/7/2004	39.16	14.85	24.31	NA	NA	NA	NA	NA	NA
	3/16/2005	39.16	13.10	26.06	NA	NA	NA	NA	NA	NA
	5/17/2005	39.16	14.60	24.56	NA	NA	NA	NA	NA	NA
	7/14/2005	39.16	15.10	24.06	NA	NA	NA	NA	NA	NA
	10/13/2005	39.16	13.34	25.82	NA	NA	NA	NA	NA	NA
	1/3/2006	39.16	12.61	26.55	NA	NA	NA	NA	NA	NA
	4/6/2006	39.16	12.80	26.36	NA	NA	NA	NA	NA	NA
	9/7/2006	39.16	15.80	23.36	NA	NA	NA	NA	NA	NA
	11/28/2006	39.16	14.10	25.06	NA	NA	NA	NA	NA	NA
	2/26/2007	39.16	10.21	28.95	NA	NA	NA	NA	NA	NA
	5/23/2007	39.16	12.44	26.72	NA	NA	NA	NA	NA	NA
	8/20/2007	39.16	15.08	24.08	NA	NA	NA	NA	NA	NA
	11/15/2007	39.16	15.12	24.04	NA	NA	NA	NA	NA	NA
EX-1	2/27/2007	40.51	9.05	31.46	15,900	1,400	1,190	725	2,880	185
	5/23/2007	40.51	15.37	25.14	NA	NA	NA	NA	NA	NA
	8/20/2007	40.51	17.42	23.09	NA	NA	NA	NA	NA	NA
	11/15/2007	40.51	13.28	27.23	NA	NA	NA	NA	NA	NA

 Table 1

 Historical Groundwater Elevation Data & Analytical Results

 3609 International Boulevard, Oakland, California

Table 1 Historical Groundwater Elevation Data & Analytical Results 3609 International Boulevard, Oakland, California

		Top Of Casing	Depth to	Groundwater					Total	MtBE ²
		Elevation ¹	Groundwater	Elevation	TPH-g	Benzene	Toluene	Ethyl-Benzene	Xylenes	EPA 8260B
Monitoring Well	Date	(feet)	(feet)	(feet)	(μg/L)	(μg/L)	(μg/L)	(µg/L)	(μg/L)	(μg/L)

Notes:

- ¹ Top of casing elevations were re-surveyed to comply with the EDF requirements for electronic reporting of data to the State Water Resources Control Board Database on August 9, 2002.
- ² MtBE was analyzed using the EPA Method 8021B and confirmed using 8260B.
- C Presence confirmed, but confirmation concentration differed by more than a factor of two.
- H: Heavier hydrocarbons may have contributed to the quantitation.
- NA: Not Analyzed
- NA: Not Applicable, Well/Drain did not exist at time of sampling
- NC: Not calculated. No top of casing elevation was available for MW-11.
- ND, <: Not Detected above laboratory reporting limits.
- NM: Not Measured
- NS: Not Surveyed.
- Y: Sample exhibits fuel pattern which does not resemble standard.
- FDC: French drain center riser.
- FDE: French drain east riser.
- FDW: French drain west riser.

Well MW-4R replaced damaged well MW-4 on April 11, 2005. The first time well MW-4R was monitored was in the Second Quarter 2005 NS: Not surveyed. Well MW-11 was not surveyed due to obstructions surrounding well. Well EX-1 was installed in the First Quarter 2007 and initially monitored in February 2007.

Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP #1 and GAC-1 Samples

		Effluent		Lab Res	ults For <mark>PS</mark>	P #1 ¹ and	GAC-1 San	nples
Month	Date	Totalizer Reading (gallons)	MtBE ² (ug/L)	TPH-g (ug/L) 2007	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
	40/04/0007	0.070.440		T	0.5			
October	10/31/2007	3,673,410	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
July	7/27/2007	3,643,880	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
May	5/17/2007	3,590,070	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
April	4/27/2007	3,561,230	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
								ion well EX-1.
	4/20/2007	3,546,800	As of th		Indwater is b X-1, West R			wells at the site
March	3/16/2007	3,528,090	<0.5	<50	<0.5	<2.0	<0.5	<2.0
		-,	<0.5	<50	<0.5	<2.0	<0.5	<2.0
February	2/22/2007	3,510,560	<0.5	<50	<0.5	<2.0	<0.5	<2.0
	_,,	0,010,000	<0.5	<50	<0.5	<2.0	<0.5	<2.0
	2/19/2007	3,508,300	Carb	∣ on Change-	 out of 2000 II	b vessel and	d 55 gallon po	lishing vessel
January	1/16/2007	3,488,140	<0.5	<50	<0.5	<2.0	<0.5	<2.0
	.,	0,100,110	1.37	<50	1.68	<2.0	1.25	<2.0
				2006				
December	12/22/2006	3,469,890	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
November	11/20/2006	3,455,980	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<2.0 <2.0
			<0.5	<00	<0.5	<2.0	<0.5	~2.0
October	10/18/2006	3,447,850	< 0.5	<50	< 0.5	<2.0	< 0.5	<1.0
			<0.5	<50	<0.5	<2.0	<0.5	<1.0
September	9/27/2006	3,441,500	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
			<0.5	<50	<0.5	<0.5	<0.5	<0.5
August	8/14/2006	3,425,340	<0.5	<50	<0.5	<2.0	<0.5	<1.0
			<0.5	<50	<0.5	<2.0	<0.5	<1.0
July	7/24/2006	3,414,800	<0.5	<50	<0.5	<2.0	<0.5	<1.0
			<0.5	<50	0.94	<2.0	<0.5	<1.0
June	6/15/2006	3,387,940	Carb	on Change-	out of 2000 II	b vessel and	d 55 gallon po	lishing vessel
	6/7/2006	3,379,880	<0.5	<50	<0.5	<2.0	<0.5	<1.0
			2.89	<50	5.3	<2.0	1.24	4.91
Мау	5/18/2006	3,350,260	renla	ced existing	200 gallon h	olding tank	with newer 2	00 gallon tank

Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP #1 and GAC-1 Samples

		Effluent		Lab Res	ults For <mark>PS</mark>	P #1 ¹ and	GAC-1 Sar	nples
Month	Date	Totalizer Reading (gallons)	MtBE ² (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
				2006				
Мау	5/11/2006	3,337,750	<0.5 0.61	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
April	4/19/2006	3,268,110	<0.5 1.66	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
	4/10/2006	3,236,770	Carbo	l on Change-	I out of 2000 l	b vessel and	d 55 gallon po	l Ilishing vessel
March	3/10/2006	3,220,570	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
February	2/10/2006	3,186,590	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
January	1/4/2006	3,122,610	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
	T	-	-	2005	1			
December	12/9/2005	3,081,750	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
November	11/14/2005	3,072,540	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
October	10/17/2005	3,065,260	<0.5 <0.5	<50 <50	<0.5 < 0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
September	9/29/2005	3,060,640	Repla				with newer 2 ishing vessel	000 lb vessel,
	9/12/2005	3,055,676	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
August	8/8/2005	3,042,586	<0.5 0.51	<200 <200	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
July	7/7/2005	3,026,010	<0.5 <0.5	<200 <200	<0.5 <0.5	<2.0 <2.0	<0.5 </td <td><1.0 <1.0</td>	<1.0 <1.0
June	6/9/2005	3,000,386	<0.5 0.61	<200 <200	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
Мау	5/9/2005	2,971,430	<0.5 < 0.5	<200 <200	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0
	5/4/2005	2,964,270	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel totalizer changed at meter reading of 2,189,270					
April	4/4/2005	2,904,500	<0.5 <0.5	<200 <200	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0
					•			

Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP #1 and GAC-1 Samples

		Effluent		Lab Res	ults For <mark>PS</mark>	P #1 ¹ and	GAC-1 San	nples
Month	Date	Totalizer Reading (gallons)	MtBE ² (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
				2005				• • •
March	3/21/2005	2,874,170	<0.5	<200	<0.5	<0.5	<0.5	<1.0
			<0.5	<200	<0.5	<0.5	<0.5	<1.0
February	2/14/2005	2,828,000			55 Gallon	Drum Chan	ged Out	
	2/7/2005	2,819,000	<5.0	<50	<5.0	<5.0	<5.0	<5.0
			<5.0	<50	<5.0	<5.0	<5.0	<5.0
January	1/19/2005	2,775,000	Carbo	on Change-	out of 2000 l	b vessel and	d 55 gallon po	lishing vessel
	1/3/2005	2,730,480	3.6	<50	<0.5	<0.5	<0.5	<0.5
	., 0, 2000	_,,,	3.8	<50	< 0.5	<0.5	<0.5	<0.5
				2004				
December	12/6/2004	2,667,620	<0.5	<50	<0.5	<0.5	<0.5	<1.0
			<0.5	<50	<0.5	<0.5	<0.5	<1.0
November	11/8/2004	2,631,600	<0.5	<50	<0.5	<0.5	<0.5	<0.5
			<0.5	<50	<0.5	<0.5	<0.5	<0.5
October	10/13/2004	2,606,420	< 2.0	< 50	<0.5	<0.5	<0.5	<0.5
			<2.0	<50	<0.5	<0.5	<0.5	<0.5
September	9/13/2004	2,594,390	< 2.0	< 50	<0.5	<0.5	<0.5	<0.5
			< 2.0	< 50	<0.5	<0.5	<0.5	<0.5
August	8/25/2004	2,586,010	55 Gallon Drum Changed Out					
	8/9/2004	2,581,250	< 2.0	< 50	<0.5	<0.5	<0.5	<0.5
			< 2.0	< 50	<0.5	<0.5	<0.5	<0.5
July	7/13/2004	2,568,830	< 2.0	< 50	<0.5	<0.5	<0.5	<0.5
			< 2.0	< 50	<0.5	<0.5	<0.5	<0.5
	7/21/2004	2,564,710			I 55 Gallon	Drum Chan	ged Out	
June	6/14/2004	2,549,470	< 2.0	< 50	<0.5	<0.5	<0.5	<0.5
			< 2.0	< 50	<0.5	<0.5	<0.5	<0.5
May	5/26/2004	2,530,000	Carbo					lishing vessel
	5/10/2004	2,488,760				•	leeting With E	
	5/17/2004 5/5/2004	2,518,910 2,500,650	Re				nd restarted t n Drum Chan	
	5/3/2004	2,497,350	< 2.0	< 50	<0.5	<0.5	<0.5	<0.5
		_,,	< 2.0	< 50	<0.5	<0.5	<0.5	<0.5
April	4/15/2004	2,436,190	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0

Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP #1 and GAC-1 Samples

		Effluent		Lab Res	ults For <mark>PS</mark>	SP #1 ¹ and	GAC-1 Sar	nples
		Totalizer					Ethyl-	
		Reading	MtBE ²	TPH-g	Benzene	Toluene	benzene	Total Xylenes
Month	Date	(gallons)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
				2004				
March	3/17/2004	2,376,200						lishing vessel
February	2/24/2004	2,276,770	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	1/07/0001	0.405.000	<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
January	1/27/2004	2,165,220	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	1/13/2004	2,116,720	<5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
	1/13/2004	2,110,720	< 5.0	< 50 < 50	< 5.0	< 5.0	< 5.0	< 5.0
			40.0	2003	CO.O	0.0		4 0.0
December	12/8/2003	2,092,330	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
December	12/0/2000	2,002,000	<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
November	11/17/2003	2,087,670	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	11/3/2003	2,079,460	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
October	10/13/2003	2,073,060	5.3	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	10/1/2003	2,072,610	Carbo	on Change-	out of 2000 I	b vessel and	d 55 gallon po	lishing vessel
September	9/15/2003	2,056,910	<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			6	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	9/2/2003	2,040,040	<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
August	8/19/2003	2,021,040	<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			<5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
luik.	7/04/0000	1 005 040	. 5.0	. 50	. 5.0		. 5.0	. 5.0
July	7/21/2003	1,995,240	< 5.0 40	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
			40	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	7/9/2003	1,990,260	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	.,0,2000	.,,	36	< 50	< 5.0	< 5.0	< 5.0	< 5.0
June	6/18/2003	1,978,560	Carbo			h vessel an	1 55 gallon ng	lishing vessel
June	0/10/2003	1,070,000	Carbo				a oo gallori pe	Jishing Vesser
	6/10/2003	1,972,780	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
		,- ,	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
May	5/21/2003	1,951,830	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	5/1/2003	1,918,270	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
التر م	4/44/0000	4 000 440	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
April	4/11/2003	1,882,440	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
		I	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0

Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP #1 and GAC-1 Samples

		Effluent		Lab Res	ults For PS	P #1 ¹ and	GAC-1 Sar	nples
Month	Date	Totalizer Reading (gallons)	MtBE ² (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
			(9/	2003	(49,2)	("g/=)	(49,2)	(((())))
March	3/19/2003	1,846,490	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
February	2/25/2003	1,804,960						a carbon drum
robroary	2/19/2003	1,791,720	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
		.,	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
January	1/27/2003	1,733,500	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	1/2/2003	1,675,600	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
				2002				
December	12/10/2002	1,672,870	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
			< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
November	11/22/2002	1,668,650	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
November	11/22/2002	1,000,000	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0
	11/13/2002	1,664,780	replace	ed gasket on	top of 2000) lb GAC ve	ssel, slight lea	ak was detected
	11/7/2002	1,663,880	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					
October	10/16/02 ³	1,661,590	< 310 < 0.5	2,000 Y Z < 50	< 310 < 0.5	< 310 < 0.5	< 310 < 0.5	< 310 < 0.5
Questa esta est	0/40/0000	4 050 000	1					Ĩ
September	9/19/2002	1,653,600	< 5 < 5	< 50 < 50	< 5 < 5	< 5 < 5	< 5 < 5	< 5 < 5
			< 0	< 50	< 0	< 0	< 0	< 0
August	8/23/2002	1,641,650	1	< 50	< 0.5	< 0.5	< 0.5	< 0.5
Ŭ			< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	7/00/0000	4 000 004	5.0	50	5.0	5.0	5.0	5.0
July	7/23/2002	1,632,834	<5.0 < 5.0	< 50 < 50	<5.0 < 5.0	<5.0 < 5.0	<5.0 < 5.0	<5.0 < 5.0
June	6/24/2002	1,610,050	1.7	< 50	< 0.5	< 0.5	< 0.5	< 0.5
June	0/24/2002	1,610,050	< 0.5	< 50	< 0.5	< 0.5 < 0.5	< 0.5	< 0.5
			< 0.0	< 00	< 0.0	< 0.0	< 0.0	< 0.0
May	5/30/2002	1,571,630	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 0.5
-			< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	5/20/2002	1,548,000	rem	oved newly i				r compressor
	5/8/2002	1,538,850				new compr		
	5/1/2002	1,529,650	ļ		stalled new			1
April	4/24/2002	1,528,740	< 0.5	< 50	< 0.5	< 0.5	< 0.5	< 0.5
	4/1/2002	1 478 500	< 0.5	< 50	< 0.5	< 0.5	< 0.5 on compress	< 0.5
	4/1/2002	1,478,500		repair	eu vaive pla	ie assembly	on compress	SOI

Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP #1 and GAC-1 Samples

		Effluent		Lab Res	ults For <mark>PS</mark>	SP #1 ¹ and	GAC-1 San	nples	
Month	Date	Totalizer Reading (gallons)	MtBE ² (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)	
			-	2002					
March	3/25/2002 3/18/2002 3/14/2002	1,478,420 NR 1,478,330				iston on con	•	rstem	
February	2/27/2002	1,449,830	< 0.5 1.1	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
January	1/22/2002	1,381,370	< 2.0 < 2.0	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
				2001					
December	12/12/2001	1,311,340	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
November	11/2/2001	1,272,660	ND 0.6	ND ND	ND ND	ND ND	ND ND	ND ND	
September	9/28/2001	NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
August	8/22/2001	1,243,100	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
July	7/26/2001	1,227,270	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
	7/11/2001	1,226,730	NA NA	NA NA	NA NA	NA NA	NA NA	NA	
June	6/29/2001	1,224,600	NA ND	NA ND	NA ND	NA ND	NA ND	NA ND	
	6/26/2001	NR	installed new compressor						
	6/16/2001	1,216,580	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	6/7/2001	1,216,580	NA NA	compi NA NA	1		red compress NA NA		
Мау	5/30/2001	1,205,198	NA NA	NA NA	NA NA	NA NA	NA NA NA	NA NA NA	
	5/23/2001	1,194,390	NA NA	NA NA	NA	NA NA	NA NA	NA	
	5/17/2001	1,182,360	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
	5/10/2001	1,166,850	NA NA	NA NA	NA NA	NA NA	NA NA	NA	
	5/5/2001	1,151,600	NA NA	NA NA	NA NA	NA NA	NA NA	NA	
April	4/28/2001	1,135,690	NA NA	NA NA	NA NA	NA NA	NA NA	NA	
	4/21/2001	1,113,570	NA NA	NA NA	NA NA	NA NA	NA NA	NA	
	4/11/2001	1,082,700	NA ND	ND ND	ND ND	ND ND	ND ND	ND ND	
	4/6/2001	1,065,540	NA NA	NA NA	NA NA	NA NA	NA NA	NA	

Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP #1 and GAC-1 Samples

		Effluent		Lab Results For PSP #1 ¹ and GAC-1 SamplesEthyl- benzene (ug/L)Total Xylenes (ug/L)Z001NANDNDNDNDNDNANANANANANANANANANANANANANANANDNDNDNDNDNAND </th				
Month	Date	Totalizer Reading (gallons)	MtBE ² (ug/L)	•			benzene	
March	3/29/2001	1,036,330	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
					system	n was re-sta	rted	
	3/21/2001	1,036,070	NA	NA	NA	NA	NA	NA
			NA	NA				NA
					belt repla	ced on com	pressor	
	3/17/2001	1,035,100	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
	3/13/2001	1,032,500	ND	ND	ND	ND	ND	ND
			NA	NA	NA	NA	NA	NA
	3/2/2001	996,520	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	NA
	3/1/2001	NR		on change-ou	t			
February	2/28/2001	NR	Carb	on Change-	out was per	ormed on G	AC-1, washe	d algae from
-				-				•
	2/10/2001	975,490		System	shut down f	or maintena	nce and clear	ning.
January	1/29/2001	957,880	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
				2000				
December	12/5/2000	883,000	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
November	11/24/2000	NR	ND	ND	ND	ND	ND	ND
			ND					
	11/1/2000	842,000	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
October	10/1/2000	809,000	ND	ND	ND	ND	ND	ND
			ND	ND	ND	ND	ND	ND
August	8/27/2000	781,000	ND	ND	ND	ND	ND	ND
	8/24/2000	778,000	00 totalizer changed at meter reading of 775,000					
July	7/26/2000	726,000	ND	ND	ND	ND	ND	ND
	7/19/2000	718,000	ND	ND	ND	ND	ND	ND
	7/13/2000	712,000	ND	ND	ND	ND	ND	ND
	7/7/2000	706,000	ND	ND	ND	ND	ND	ND

Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP #1 and GAC-1 Samples

3609 International Boulevard, Oakland, California

		Effluent		Lab Res	ults For <mark>PS</mark>	P #1 ¹ and	GAC-1 San	nples
		Totalizer Reading	MtBE ²	TPH-g	Benzene	Toluene	Ethyl- benzene	Total Xylenes
Month	Date	(gallons)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
			•	2000				
June	6/29/2000	700,000	ND	ND	ND	ND	ND	ND
	6/21/2000	682,220	ND	ND	ND	ND	ND	ND
	6/16/2000	669,720	ND	ND	ND	ND	ND	ND
	6/10/2000	651,200	ND	ND	ND	ND	ND	ND
May	5/31/2000	629,000	ND	ND	ND	ND	ND	ND
	5/23/2000	603,700	ND	ND	ND	ND	ND	ND
	5/18/2000	570,000	ND	ND	ND	ND	ND	ND
	5/10/2000	530,400	ND	ND	ND	ND	ND	ND
April	4/30/2000	488,300	ND	ND	ND	ND	ND	ND
	4/18/2000	485,300	ND	ND	ND	ND	ND	0.51
			С	ompressor s	stopped, sys	tem shut do	wn until April	29, 2000
	4/10/2000	440,200	ND	ND	ND	ND	ND	ND
	4/4/2000	390,100	ND	ND	ND	ND	ND	ND
	4/2/2000	NR		perfo	ormed a carb	oon change	-out on GAC-	1
March	3/31/2000	NR	performed a carbon change-out on GAC-1 replaced GAC-2 with a special GAC designed for removal of MtBE ND ND ND ND					
	3/24/2000	388,000	ND	ND	ND	ND	ND	ND
	3/17/2000	357,100	ND	ND	ND	ND	ND	ND
	3/10/2000	329,000	ND	ND	ND	ND	ND	ND
	3/3/2000	300,000	tra	ansfer overh	eated, repai	red pump, r	estarted syste	em 3/6/00
February	2/25/2000	274,000	ND	ND	ND	ND	ND	ND
	2/18/2000	233,000	ND	ND	ND	ND	ND	ND
	2/11/2000	190,000	ND	ND	ND	ND	ND	ND
	2/4/2000	160,800	ND	ND	ND	ND	ND	ND
January	1/28/2000	130,600	ND	ND	ND	ND	ND	ND
	1/21/2000	103,435	ND	ND	ND	ND	ND	ND
	1/17/2000	NR		GAC	1 was repla	ced with 2,0	000 lb GAC ur	nit
			S	econd polish	ing GAC wa	s replaced	with 55 gallon	GAC unit
	1/14/2000	83,500	185	ND	ND	ND	ND	ND
				1999				
December	12/23/1999	51,680	1486	NA	ND	ND	ND	ND
			ND	NA	ND	ND	ND	ND
	12/16/1999	30,450	963	NA	ND	ND	ND	ND
		*	ND	NA	ND	ND	ND	ND
	12/9/1999	9,000	230	ND	ND	ND	ND	ND
1 '			mping begai		ber 6, 1999		I	

Notes:

1 The designator "Effluent" used on sampling and laboratory documents refers to samples collected from PSP #1.

2 MTBE was analyzed using EPA Method 8260B, prior to the September 2003. After September 2003,

MtBE was only analyzed by EPA Method 8021B.

3 Lab data as shown for Oct. 2002 is erroneous data. During lab analysis a high detection of 2-Butanone was detected in only the effluent sample. The influent sample for 2-Butanone was at only 20 ppb. This caused a high dilution factor causing a high non-detectable value. The high TPH-g value was misrepresentative due to the Y and Z flags.

ND, <: Not Detected above laboratory reporting limits

NA: Not Analyzed

NR: Not recorded. Totalizer reading not recorded.

Y: Sample exhibits fuel pattern which does not resemble standard

Z: Sample exhibits unknown single peak or peaks

		PID (p	opmv)	Flow Rate	Time Elapsed	Air Flow	Air Flow	Mass Removed ¹
Date	Time	Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
					2000			
7/24/2000	5:00 PM	394	0	85	0.0	0	0	0.00
7/25/2000	5:15 PM	38	2	95	24.3	3,911,768	138,225	1.35
7/26/2000	5:05 PM	207	1	80	24.0	3,260,160	115,200	6.15
7/27/2000	9:00 AM	160	5	92	16.0	2,499,456	88,320	3.64
7/28/2000	4:30 PM	141	7	87	31.5	4,653,369	164,430	5.98
7/29/2000	1:30 PM	225	8	85	21.0	3,030,930	107,100	6.21
7/30/2000	9:00 AM	226	12	85	19.5	2,814,435	99,450	5.79
7/31/2000	3:00 PM	141	5	85	30.0	4,329,900	153,000	5.56
8/1/2000	5:00 PM	135	4	80	26.0	3,531,840	124,800	4.34
8/2/2000	4:00 PM	80	4	80	23.0	3,124,320	110,400	2.28
8/3/2000	5:00 PM	60	5	85	25.0	3,608,250	127,500	1.97
8/4/2000	3:00 PM	57	4	85	22.0	3,175,260	112,200	1.65
8/5/2000	2:00 PM	97	8	87	23.0	3,397,698	120,060	3.00
8/6/2000	12:00 PM	114	8	80	22.0	2,988,480	105,600	3.10
8/7/2000	12:00 PM	93	9	85	24.0	3,463,920	122,400	2.93
8/8/2000	4:30 PM	152	10	85	28.5	4,113,405	145,350	5.70
8/10/2000	10:00 AM	173	1	85	41.5	5,989,695	211,650	9.44
8/11/2000	7:00 AM	78	4	70	21.0	2,496,060	88,200	1.77
8/12/2000	9:00 AM	100	6	70	26.0	3,090,360	109,200	2.82
8/13/2000	5:00 PM	107	9	70	32.0	3,803,520	134,400	3.71
8/14/2000	12:30 PM	122	5	70	19.5	2,317,770	81,900	2.58
8/15/2000	6:00 PM	103	12	70	29.5	3,506,370	123,900	3.29
8/16/2000	12:30 PM	112	0	70	18.5	2,198,910	77,700	2.24
8/18/2000	9:00 AM	90	0	75	44.5	5,667,075	200,250	4.65
8/21/2000	12:00 PM	74	5	80	75.0	10,188,000	360,000	6.87
8/24/2000	12:00 PM	68	13	80	72.0	9,780,480	345,600	6.06
8/27/2000	12:30 PM	68.5	2	80	72.5	9,848,400	348,000	6.15
8/31/2000	1:30 PM	52	6	80	97.0	13,176,480	465,600	6.24

		PID (p	opmv)	Flow Rate	Time Elapsed	Air Flow	Air Flow	Mass Removed ¹
Date	Time	Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
					2000			
9/4/2000	12:30 PM	54	5	80	95.0	12,904,800	456,000	6.35
9/7/2000	12:00 PM	55	3	80	71.5	9,712,560	343,200	4.87
9/11/2000	4:30 PM ²	141	0	80	100.5	13,651,920	482,400	17.54
9/14/2000	9:30 AM	56	5	80	65.0	8,829,600	312,000	4.50
9/18/2000	2:00 PM	46	9.5	80	100.5	13,651,920	482,400	5.72
9/18/2000	4:30 PM ³	34	0	80	2.5	339,600	12,000	0.11
9/21/2000	4:30 PM	43	1	80	72.0	9,780,480	345,600	3.83
9/25/2000	5:30 PM	55	6	80	97.0	13,176,480	465,600	6.60
9/28/2000	9:00 AM	47.5	7.5	80	63.5	8,625,840	304,800	3.73
10/1/2000	1:00 PM	38.5	6	80	76.0	10,323,840	364,800	3.62
10/5/2000	3:00 PM 4	28.5	3	80	98.0	13,312,320	470,400	3.46
10/5/2000	5:00 PM	36	0	80	2.0	271,680	9,600	0.09
10/8/2000	3:00 PM	28.5	3	80	70.0	9,508,800	336,000	2.47
10/14/2000	3:00 PM	24.5	2.5	80	144.0	19,560,960	691,200	4.37
10/17/2000	2:00 PM	36.5	3.5	80	71.0	9,644,640	340,800	3.21
10/20/2000	8:30 AM	18.5	3.5	80	66.5	9,033,360	319,200	1.52
10/25/2000	2:00 PM	38	3.7	80	125.5	17,047,920	602,400	5.90
10/29/2000	10:00 AM	35	4	80	93.0	12,633,120	446,400	4.03
11/2/2000	4:00 PM	30.5	4	80	102.0	13,855,680	489,600	3.85
11/7/2000	4:00 PM	30	6	80	120.0	16,300,800	576,000	4.46
11/19/2000	12:00 PM	92.7	5.5	80	284.0	38,578,560	1,363,200	32.57
11/24/2000	1:30 PM	25	6.5	80	121.5	16,504,560	583,200	3.76
11/29/2000	3:00 PM	14.5	3.5	80	121.5	16,504,560	583,200	2.18
12/4/2000	4:30 PM	10.7	1	80	121.5	16,504,560	583,200	1.61
12/13/2000	3:30 PM	24	3	80	263.0	35,725,920	1,262,400	7.81
12/28/2000	2:30 PM	10	6	85	359.0	51,814,470	1,830,900	4.72

		PID (p	opmv)	Flow Rate	Time Elapsed	Air Flow	Air Flow	Mass Removed ¹
Date	Time	Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
				2001				
1/4/2001 ⁵	2:00 PM	8.7	3.7	85	167.5	24,175,275	854,250	1.92
8/8/2001	3:00 PM	217	0	85	0.5	72,165	2,550	0.14
9/6/2001	12:00 PM	85	0	85	693.0	100,020,690	3,534,300	77.45
9/13/2001	4:00 PM	186	8	85	172.0	24,824,760	877,200	42.07
9/18/2001	3:00 PM	184	9	85	119.0	17,175,270	606,900	28.79
9/21/2001 6					NC	NC	NC	NC
10/12/01 ⁷					NC	NC	NC	NC
10/23/2001	5:00 PM	114	58	87	0.5	73,863	2,610	0.08
10/25/01 4	3:00 PM	133	0	85	46.0	6,639,180	234,600	8.04
10/29/2001 ⁸	1:20 PM	569	0	85	94.5	13,639,185	481,950	70.70
11/7/2001	3:30 PM	177	0	87	218.0	32,204,268	1,137,960	51.93
11/16/2001	3:00 PM	117	0	87	215.5	31,834,953	1,124,910	33.93
11/21/01 ⁹	12:00 PM	85	72	87	117.0	17,283,942	610,740	13.38
				2002				
2/15/02 ¹⁰	4:30 PM	49	0	80	0.5	67,920	2,400	0.03
2/16/2002	3:45 PM	50	0	80	23.3	3,158,280	111,600	1.44
2/21/2002	4:00 PM	37	4	80	120.3	16,334,760	577,200	5.51
2/27/2002	10:30 AM	11	0	83	138.5	19,519,359	689,730	1.96
3/7/02 ¹¹	12:20 PM	10		80	194.0	26,352,960	931,200	2.40
6/12/2002 12	4:15 PM	53	2	75	NA	NA	NA	NA
6/17/2002	11:00 AM	28	2	80	120.0	16,306,560	576,204	4.16
6/24/2002	11:20 AM	24	3.1	80	168.3	22,866,400	808,000	5.00
7/5/2002	1:25 PM	20	5	80	266.0	36,133,440	1,276,800	6.58
7/11/2002	3:30 PM	26	8.0	80	146.0	19,832,640	700,800	4.70
7/23/2002	10:10 AM	28	7.5	83	282.8	39,849,089	1,408,095	10.16
8/9/2002	12:20 PM	7.5	0	80	410.3	55,728,360	1,969,200	3.81
8/15/2002 11	3:00 PM	7.0	1	80	146.5	19,900,560	703,200	1.27
8/23/2002 ¹³	3:20 PM	NC	NC	NC	NC	NC	NC	NC
8/26/2002	11:15 AM	14.0	2.0	80	71.0	9,644,640	340,800	1.23
9/11/2002	10:10 AM	34.4	0	80	383.0	52,020,588	1,838,183	16.30
9/19/2002	10:55 AM	8.8	1.1	80	192.8	26,183,160	925,200	2.10
9/25/2002	10:30 AM	18.8	1.8	80	143.5	19,493,040	688,800	3.34

		PID (p	opmv)	Flow Rate	Time Elapsed	Air Flow	Air Flow	Mass Removed ¹
Date	Time	Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
				2002				
10/2/2002	8:10 AM	17.1	2.5	80	165.70	22,508,688	795,360	3.51
10/9/2002		PID ma	lfunction	80	NC	NC	NC	NC
10/16/2002	1:45 PM	17.0	4.0	80	341.50	46,389,360	1,639,200	7.18
10/24/2002	10:00 AM	16.5	6.4	80	188.25	25,571,880	903,600	3.84
11/1/2002	10:00 AM	21.1	0.0	85	192.00	27,711,360	979,200	5.33
11/6/2002	10:12 AM	PID ma	lfunction	87	NC	NC	NC	NC
11/7/2002	11:00 AM	17.5	0.0	85	24.75	3,572,168	126,225	0.57
11/13/2002	11:30 AM	15.0	0.0	85	144.50	20,855,685	736,950	2.85
11/22/2002	2:30 PM	6.6	0.0	80	219.00	29,748,960	1,051,200	1.79
11/22/2002			system	shut-down due	e to rainy season	and low influer	nt readings	
				2003				
5/9/2003	10:30 AM	0.1	0.0	82	0.5	69,618	2,460	0.00
5/12/2003	10:30 AM	0.4	0.3	85	72.00	10,391,760	367,200	0.04
5/21/2003	11:00 AM	2.2	2.2	83	216.50	30,512,211	1,078,170	0.61
6/4/2003	10:30 AM	2.5	0.1	82	335.50	46,713,678	1,650,660	1.06
6/10/2003	10:30 AM	2.2	0.08	82	144.00	20,049,984	708,480	0.40
6/16/2003	12:15 PM	2.1	0.07	82	146.25	20,363,265	719,550	0.39
6/24/2003	4:55 PM	2.6	0.08	82	196.75	27,394,683	968,010	0.65
6/30/2003	11:30 AM	2.2	0.1	82	138.50	19,284,186	681,420	0.39
7/16/2003	12:00 PM	2.2	0.22	82	384.50	53,536,242	1,891,740	1.07
7/21/2003	10:50 AM	2.1	0.21	82	119.00	16,569,084	585,480	0.32
7/28/2003	11:15 AM	2.2	0.22	82	168.25	23,426,457	827,790	0.47
8/11/2003	12:15 PM	2.1	0.21	82	337.00	46,922,532	1,658,040	0.90
8/19/2003	10:05 AM	2.1	0.22	82	190.00	26,454,840	934,800	0.51
8/25/2003	11:30 AM	2.2	0.23	81	145.50	20,011,779	707,130	0.40
9/2/2003	10:50 AM	2.1	0.21	80	191.50	26,013,360	919,200	0.50
9/8/2003	2:10 PM	9.1	3.19	83	147.30	20,759,578	733,554	1.72
9/11/2003	10:00 AM			All	4 SVE carbon d	rums changed-	out	
9/22/2003	1:30 PM	7	0.2	88	334.25	49,944,972	1,764,840	3.19

		PID (p	opmv)	Flow Rate	Time Elapsed	Air Flow	Air Flow	Mass Removed ¹
Date	Time	Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
				2003				
10/1/2003	10:30 AM	6.5	0.2	85	213.00	30,742,290	1,086,300	1.82
10/6/2003	11:00 AM	7	0.3	85	120.50	17,391,765	614,550	1.11
10/13/2003	11:15 AM	5	0.2	85	168.25	24,283,523	858,075	1.11
10/29/2003	10:00 AM	2.4	0	85	382.75	55,242,308	1,952,025	1.21
11/3/2003	11:30 AM	3	0	85	121.50	17,536,095	619,650	0.48
11/10/2003	11:10 AM	3.5	0	85	167.67	24,199,330	855,100	0.77
11/17/2003	1:50 PM	4.1	0	85	170.70	24,637,131	870,570	0.92
11/24/2003	11:00 AM	3.8	0	85	165.20	23,843,316	842,520	0.83
11/24/2003			system	n shut-down du	e to rainy season	and low influer	nt readings	
				2004				
4/5/2004	1:00 PM	5.6	0.11	85	0.5	72165	2550	0.004
4/12/2004	10:30 AM	6.5	0.2	83	165.5	23,324,577	824,190	1.38
4/20/2004	12:00 PM	7.1	0.9	84	193.5	27,599,292	975,240	1.79
4/23/2004	11:00 AM	7.2	2.3	80	71	9,644,640	340,800	0.63
5/3/2004	12:00 PM	7.1	3.4	80	241	32,737,440	1,156,800	2.12
5/5/2004	11:00 PM			All 4 SVE	carbon drums ch	nanged-out		
5/17/2004	12:00 PM	2.7	0.8	82	336	46,783,296	1,653,120	1.15
5/26/2004	11:00 AM	3.8	0.5	82	215	29,935,740	1,057,800	1.04
6/1/2004	1:00 PM	3.6	0.9	82	146	20,328,456	718,320	0.67
6/7/2004	11:50 AM	3.2	0	82	142.75	19,875,939	702,330	0.58
6/14/2004	11:50 AM	10.9	0	86	168	24,532,704	866,880	2.44
6/21/2004	10:50: AM	13.5	0	83	167	23,535,978	831,660	2.89
6/28/2004	11:50 AM	10.9	0.5	85	169	24,391,770	861,900	2.42
7/2/2004	11:30 AM	8.7	0	85	95.8	13,826,814	488,580	1.10
7/13/2004	2:00 PM	9.1	0.22	85	266.5	38,463,945	1,359,150	3.19
7/21/2004	12:00 PM	8.9	0.5	85	190	27,422,700	969,000	2.22
7/26/2004	11:50 AM	8.5	0.4	85	119.5	17,247,435	609,450	1.34
8/2/2004	11:30 AM	4.9	0.1	85	167.8	24,218,574	855,780	1.08
8/9/2004	11:50 AM	5.6	0.2	85	168.3	24,290,739	858,330	1.24
8/16/2004	12:00 PM	6	0.4	85	168.1	24,261,873	857,310	1.33
8/24/2004	11:50 AM	6.2	1.2	85	191.9	27,696,927	978,690	1.56
8/30/2004	11:30 AM	6	0.4	85	143.66	20,734,448	732,666	1.13
9/7/2004	1:05 PM	5.5	0.8	85	193.5	27,927,855	986,850	1.40
9/13/2004	12:05 PM	5.3	0.9	85	143	20,639,190	729,300	1.00
9/20/2004	11:08 AM	7	2.9	85	167	24,103,110	851,700	1.54
9/27/2004	2:50 PM	6.5	2.1	85	171.75	24,788,678	875,925	1.47

		PID (p	opmv)	Flow Rate	Time Elapsed	Air Flow	Air Flow	Mass Removed ¹
Date	Time	Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
				2004				
10/4/2004	11:30 AM	6.9	3	85	164.55	23,749,502	839,205	1.49
10/13/2004	10:30 AM	6.5	2.9	85	215	31,030,950	1,096,500	1.84
10/18/2004	2:30 PM	6	1.5	85	124	17,896,920	632,400	0.98
10/28/2004	2:00 PM	3.1	0.9	85	239.5	34,567,035	1,221,450	0.98
10/28/2004			system	n shut-down du	e to rainy season	and low influer	nt readings	
				2005				
4/11/2005		sys	tem re-star	ted, all four vap	oor phase carbon	drums replace	d with new carl	oon
4/18/2005	10:50 AM	6.5	0.8	85	167.83	24,223,481	855,953	1.43
4/25/2005	5:30 PM	6	0.7	85	174.33	25,161,626	889,103	1.38
5/4/2005	11:20 AM	0.4	0	85	209.83	30,285,341	1,070,153	0.11
5/9/2005	11:00 AM	1	0.4	85	119.67	17,271,538	610,302	0.16
5/16/2005	10:15 AM	3	0	85	167.25	24,139,193	852,975	0.66
5/23/2005	11:05 AM	0.4	0	90	168.83	25,801,110	911,700	0.09
6/3/2005	3:30 PM	0.2	0	90	268.48	41,029,114	1,449,792	0.07
6/9/2005	3:00 PM	0.2	0	90	143.50	21,929,670	774,900	0.04
6/15/2005	2:15 PM	1	0	85	143.25	20,675,273	730,575	0.19
6/20/2005	12:00 PM	0.6	0	88	117.75	17,594,676	621,720	0.10
6/26/2005	12:00 PM	0.5	0	85	144.00	20,783,520	734,400	0.09
7/7/2005	2:45 PM	0.2	0	90	266.75	40,764,735	1,440,450	0.07
7/11/2005	3:00 PM	0.3	0	90	96.25	14,708,925	519,750	0.04
7/18/2005	1:00 PM	1	0	85	166.00	23,958,780	846,600	0.22
7/25/2005	12:00 PM	1.5	0	87	167.00	24,670,242	871,740	0.34
8/1/2005	1:30 PM	1	0	85	169.50	24,463,935	864,450	0.22
8/8/2005	11:50 AM	0.7	0	80	166.40	22,603,776	798,720	0.14
8/15/2005	1:30 PM	0.9	0	83	169.60	23,902,406	844,608	0.20
8/24/2005	12:00 PM	0.8	0	85	214.50	30,958,785	1,093,950	0.23
8/29/2005	11:45 AM	0.7	0	85	119.75	17,283,518	610,725	0.11
9/6/2005	12:15 PM	0.8	0	85	192.50	27,783,525	981,750	0.20
9/12/2005	12:10 PM	1.2	0	85	144.00	20,783,520	734,400	0.23
9/20/2005	11:30 AM	1.1	0	84	192.60	27,470,923	970,704	0.28

		PID (p	opmv)	Flow Rate	Time Elapsed	Air Flow	Air Flow	Mass Removed ¹
Date	Time	Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
				2005				
10/6/2005	3:00 PM		á	all 4 vapor phas	se carbon drums	replaced with n	ew carbon drur	ns
10/14/2005	3:30 PM	33	5	83	192.5	27,129,795	958,650	8.16
10/17/2005	12:00 PM	33	5	86	68.5	10,002,918	353,460	3.01
10/28/2005	11:00 AM	77	1.5	83	263	37,065,642	1,309,740	26.00
11/1/2005	9:40 AM	33	7	86	94.75	13,836,153	488,910	4.16
11/3/2005	3:30 PM	33	7	87	54	7,977,204	281,880	2.40
11/9/2005	3:15 PM		a	all 4 vapor phas	se carbon drums	replaced with n	ew carbon drur	ns
11/14/2005	11:30 AM	0.3	0	89	260	39,291,720	1,388,400	0.11
11/22/2005	2:40 PM	0.8	0	88	195	29,137,680	1,029,600	0.21
11/17/2005-	11/23/2005			:	3 new vapor well	s installed onsit	e	•
					2006			
1/6/2006	10:00 AM			Syst	em shut-down du	ie to rainy cond	litions	
2/22/2006-	-3/6/2006			Air Spa	rge and Additiona	al SVE system i	installed	
4/8/2006				Existing vacuur	m eductor, which	was built and in	nstalled in 2000),
				was rebuilt. To	reduce the noise	e level, foam wa	as placed arour	nd
					um eductor to ac			
4/14/2006	2:00 PM		system re	-started, all 4 v	apor phase carbo	on drums replac	ced with new ca	arbon drums
4/14/2006	2:30 PM	33	0	85	0.5	72,165	2,550	0.02
5/18/2006	12:00 PM	14	0	87	813.5	120,175,101	4,246,470	15.33
5/31/2006	12:30 PM	15	2	83	312.5	44,041,875	1,556,250	6.02
6/7/2006	10:00 AM	17.7	5.8	85	165.5	23,886,615	844,050	3.85
6/14/2006	10:00 AM	8.2	0	89	168	25,388,496	897,120	1.90
6/19/2006	2:30 PM	220	0	88	124.5	18,603,288	657,360	37.29
6/22/2006	11:00 AM	18	0	85	68.5	9,886,605	349,350	1.62
7/6/2006	2:45 PM	3.2	0	80	339.75	46,151,640	1,630,800	1.35
7/24/2006	2:00 PM		Ac	lditional vacuur	n eductor installe	d in series with	the existing blo	ower
8/2/2006	11:00 AM	25	0	65	644.25	71,105,873	2,512,575	16.19
8/9/2006	11:30 AM	7.3	3.5	110	168.5	31,472,430	1,112,100	2.09
8/14/2006	12:00 PM	8	2.3	100	120.5	20,460,900	723,000	1.49
8/25/2006	12:30 PM	2	0	100	264.5	44,912,100	1,587,000	0.82
8/28/2006	2:30 PM	2.5	0	110	74.5	13,915,110	491,700	0.32
9/7/2006	2:30 PM	1.4	0	105	240	42,789,600	1,512,000	0.55
9/13/2006	12:45 PM	1.6	0	105	142.25	25,361,753	896,175	0.37
9/22/2006	3:00 PM	1.3	0	115	219.25	42,812,948	1,512,825	0.51
9/27/2006	2:15 PM	5.6	1.1	110	119.25	22,273,515	787,050	1.14

Total Mass of Petroleum Hydrocarbons Removed by the Vapor Extraction System & Historical Operational Data 3609 International Boulevard, Oakland, California

		PID (p	opmv)	Flow Rate	Time Elapsed	Air Flow	Air Flow	Mass Removed ¹
Date	Time	Influent	Effluent	(ft^3/min)	(Hours)	(Liters)	(ft^3)	(Pounds)
					2006			
10/4/2006	11:15 AM	5.9	1.6	105	165	29,417,850	1,039,500	1.58
10/10/2006	11:30 AM	0.9	0	105	144.25	25,718,333	908,775	0.21
10/18/2006	3:15 PM	0.9	0	105	195.75	34,900,268	1,233,225	0.29
10/27/2006	10:00 AM	303	0	60	210.75	21,471,210	758,700	59.27
11/1/2006	10:00 AM	0.2	0	90	120	18,338,400	648,000	0.03
11/7/2006	12:00 PM	0.2	0	80	146	19,832,640	700,800	0.04
11/7/2006	12:00 PM			Syst	em shut-down du	ie to rainy cond	itions	
					2007			
5/23/2007					System Re	e-started		
5/23/2007	10:45 AM	31.3	0	85	1	144,330	5,100	0.04
5/29/2007	11:00 AM	11.2	1.7	80	144.25	19,594,920	692,400	2.00
6/11/2007	12:00 PM	8.1	1.1	80	313	42,517,920	1,502,400	3.14
6/20/2007	3:00 PM	1.4	0.5	75	219	27,889,650	985,500	0.36
7/3/2007	12:00 PM	1.5	0.4	75	1	127,350	4,500	0.00
7/12/2007	12:00 PM	8	0.3	80	144.25	19,594,920	692,400	1.43
7/27/2007	9:30 AM	8.5	0.4	85	313	45,175,290	1,596,300	3.50
8/7/2007	3:30 PM	14	0.9	105	219	39,045,510	1,379,700	4.98
8/21/2007	2:00 PM	16.5	0	110	1	186,780	6,600	0.03
9/7/2007	12:30 PM	12.2	0.1	105	144.25	25,718,333	908,775	2.86
9/21/2007	10:00 AM	1.9	0.3	84	313	44,643,816	1,577,520	0.77
9/28/2007	11:00 AM	1.9	0.3	85	219	31,608,270	1,116,900	0.55
			Total Ma	ss of Petroleu	ım Hydrocarbon	s Removed =		967.20
			A	verage Daily F	Removal Rate (p	ounds / day)=		0.37

Notes:

¹ The representative molecular weight of hydrocarbons was assumed to be 150 gram/mole and use

the measured temperature of Vapor (25°C) in converting ppm-v to ppm on mass basis.

² System accidentally shut down from main box, readings taken 30 minutes after startur.

³ GAC Replaced

⁴ GAC-1 removed, new GAC installed at effluent end

- ⁵ SVE System turned off for rainy season due to low influent concentration
- ⁶ system down, hoses disconnected and GAC moved for replacemer
- ⁷ system down for electrical repai
- ⁸ Carbon change-out of three drums, moved new effluent drum on 10/25/01 to GAC-

⁹ system shut-down due to hiah effluent value
 ¹⁰ System re-started (since November 21, 2001), installed new 4-55 gallon vapor phase carbon vessels, repaired blow

¹¹ System was shut-down due to low influent reading

¹² System was restarted on 6/12/02

¹³ System was re-started but no readings were take Data for October 28, 2005 based on lab data

NC: Not Calculated

Calculations

Airflow: Flowrate (ft^3/min)* 60 min * Time Elapsed (hrs)* 28.3 liters/ft^3

Mass Removed: Time Elapsed (hrs) * 60 min* Flowrate (ft^3/min)* (28.3 m^3/ft^3)*

(((PID reading * (102 grams TPH-g /mole)* (1 mole / 24.4 L))*(1/1000 m^3)) * (1 lb/454 grams)

FIGURES

Fourth Quarter 2007: Groundwater Monitoring and Remediation System Operation Report

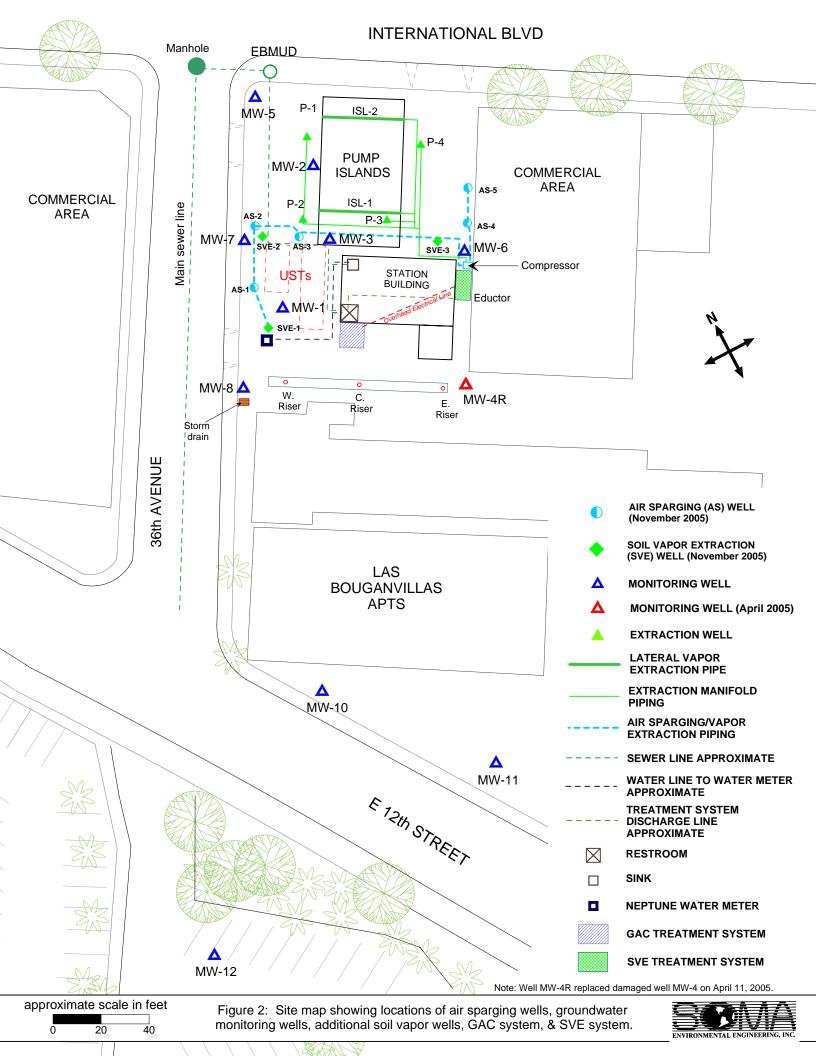




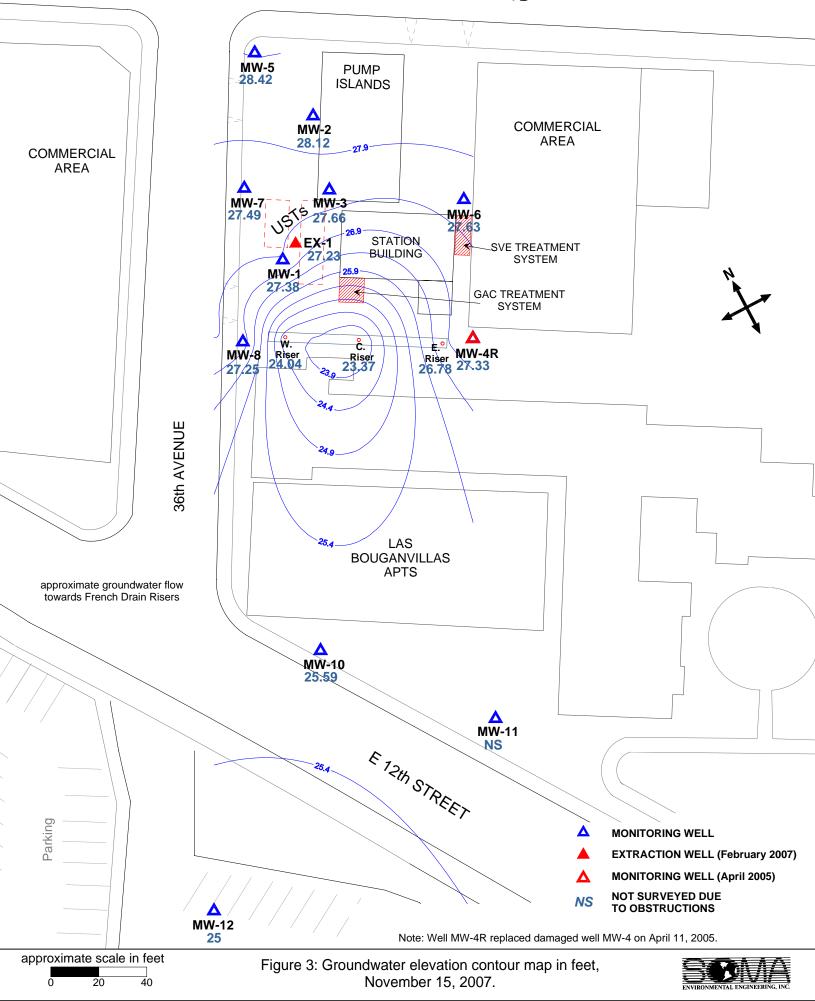
	approximate scale in feet						
0	15	50	300				

Figure 1: Site vicinity map.

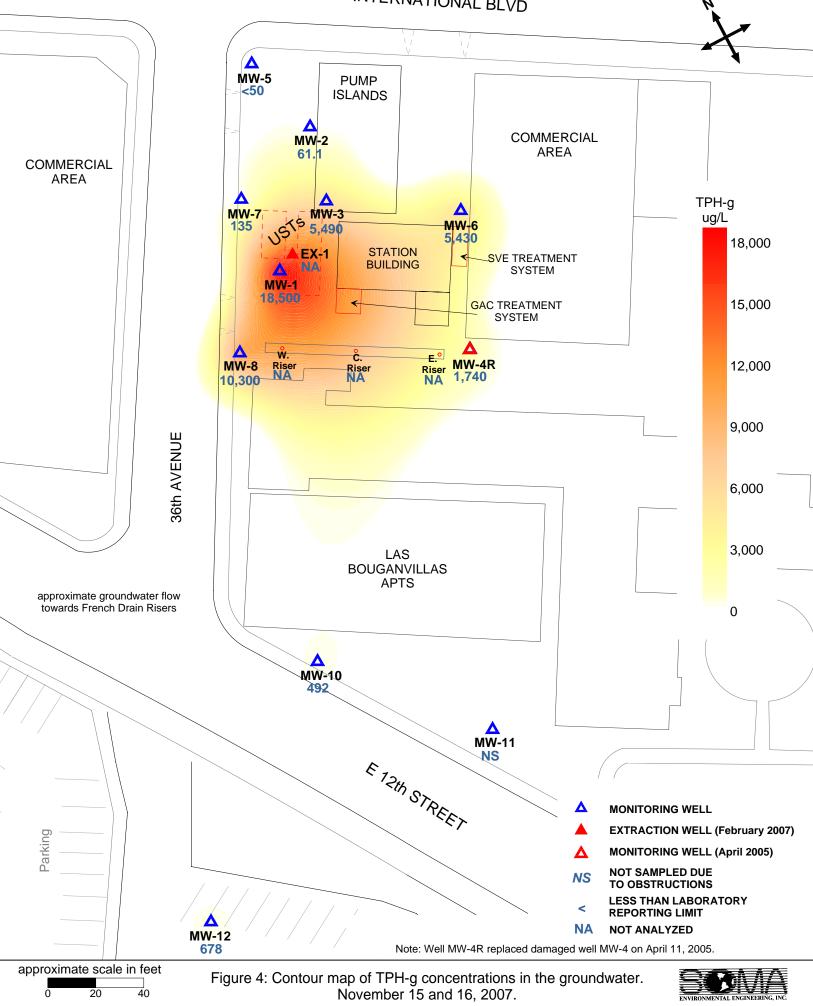




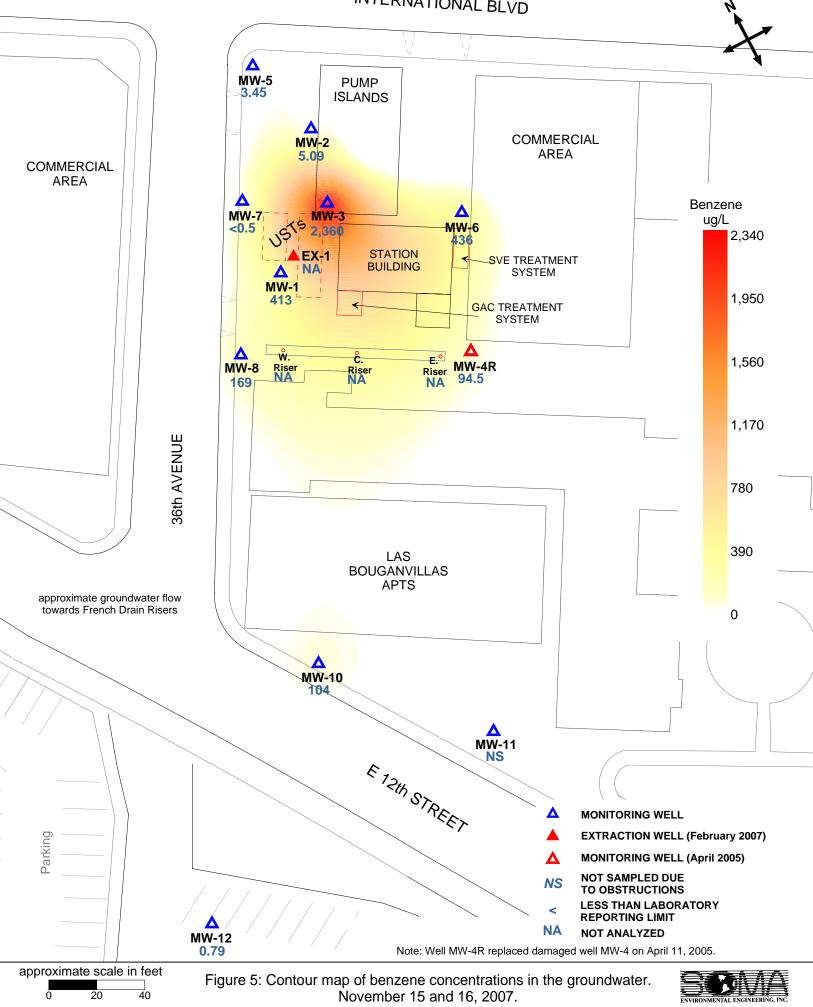
INTERNATIONAL BLVD



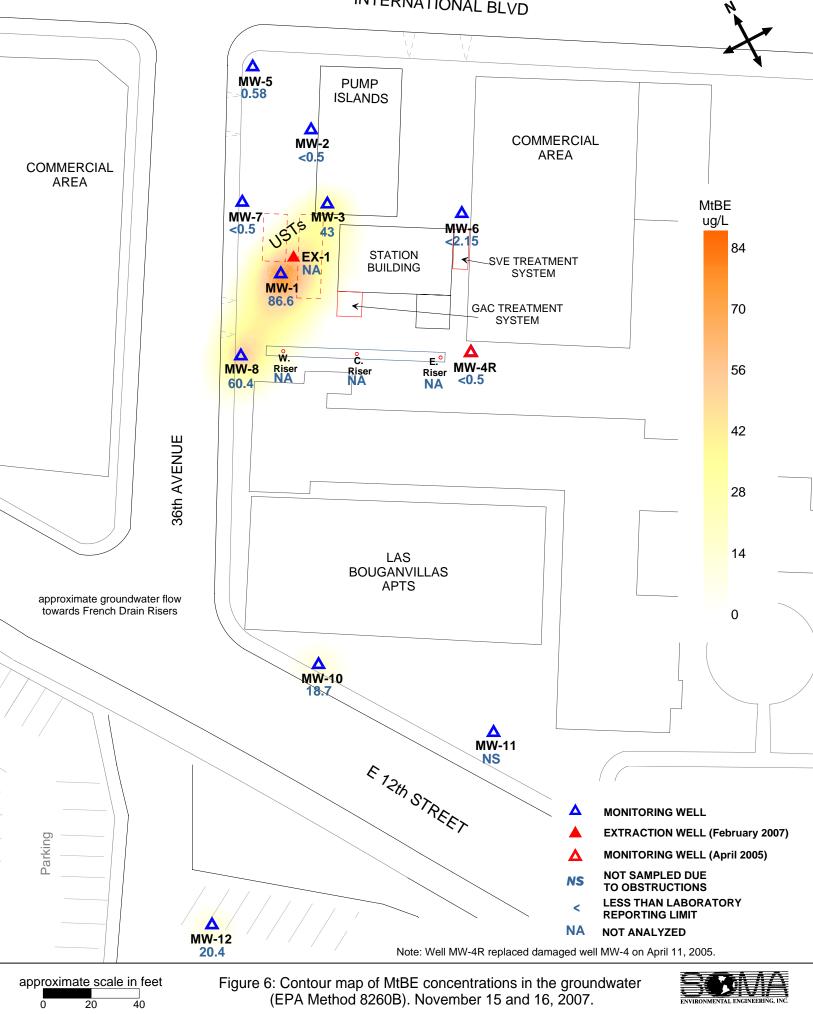


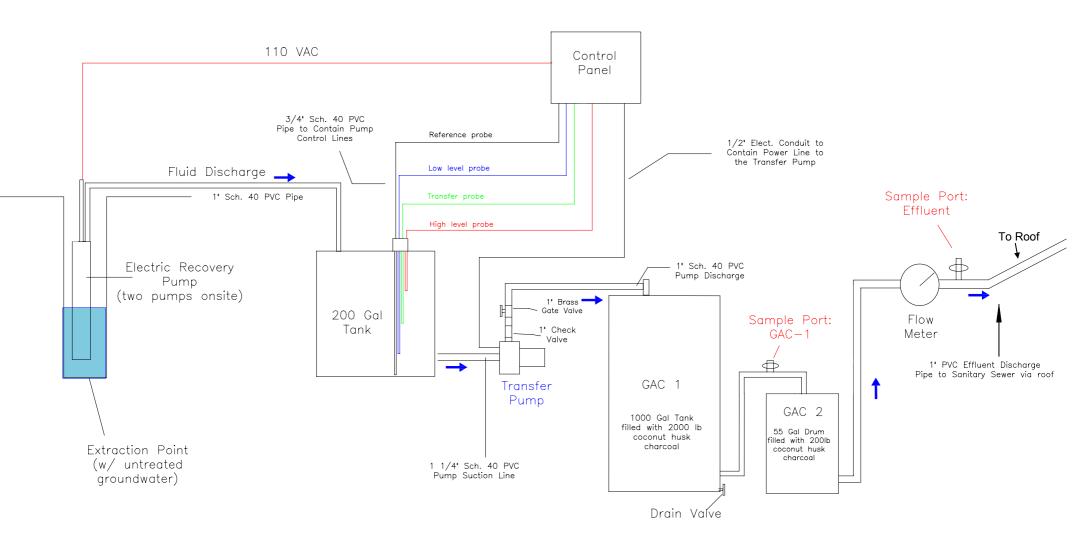












(Discharge permit No: 504-27421) Tony's Express Auto Service. November 14, 2011 permit expires

Figure 7: Schematic of the Groundwater Remediation System. 3609 International Blvd., Oakland, CA



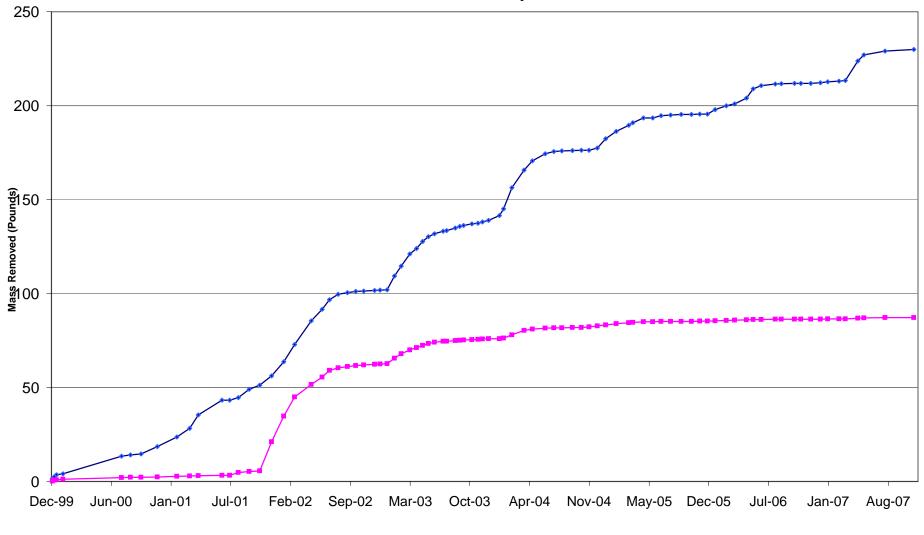


Figure 8: Cumulative Mass of TPH-g and MtBE Removed from Groundwater since the Installation of the Treatment System



BLOWERS

Meter 59 inches H₂O suction

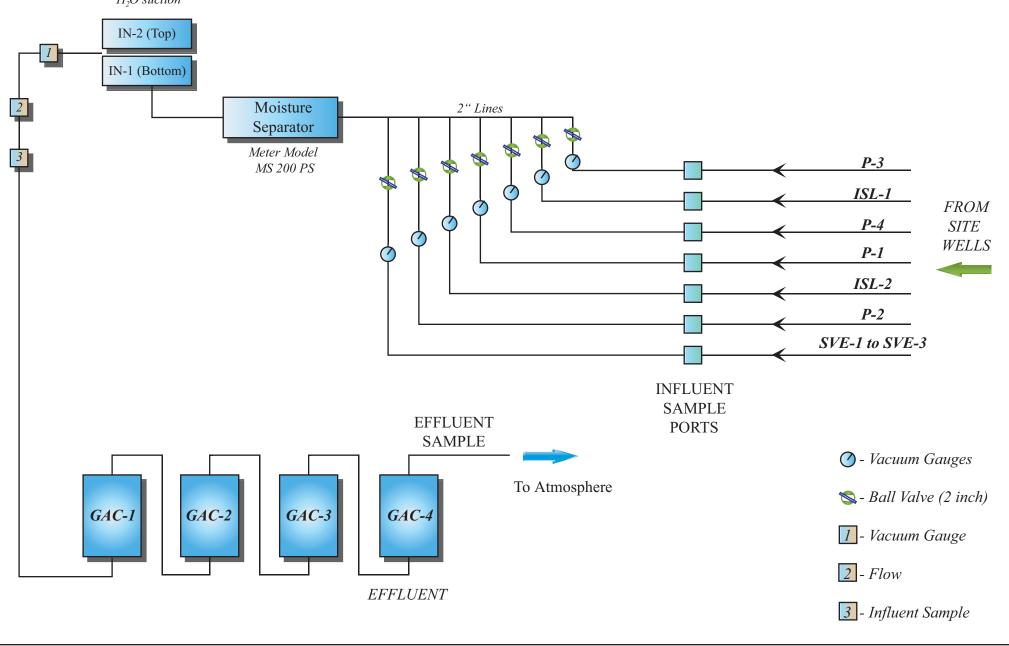


Figure 9: Block Diagram of SVE System

ENVIRONMENTAL ENGINEERING, INC

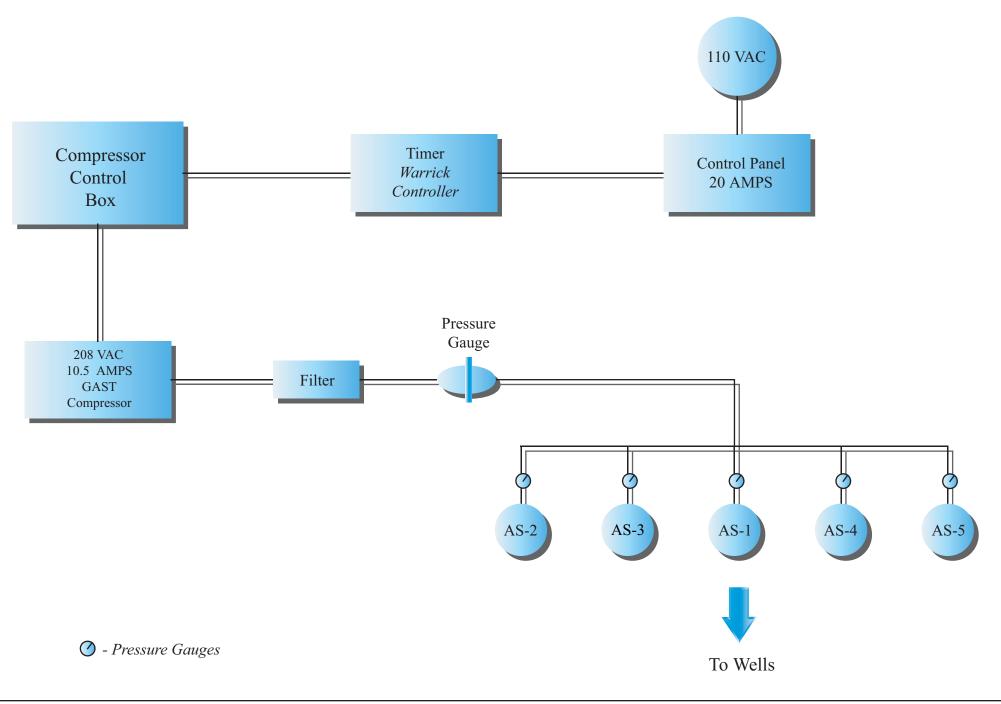


Figure 10: Block diagram of the Air Sparge System



APPENDIX A

Standard Operating Procedures for

Conducting Groundwater Monitoring Activities

Standard Operating Procedures for Conducting Groundwater Monitoring Activities

Prior to measurement of groundwater depth at each well, equalization with the surrounding aquifer must be achieved. Initially, the well cap is removed and the pressure is allowed to dissipate, creating a more stable water table level within the well. After about 10-15 minutes, once the water level in the well stabilizes, the depth to groundwater is measured from the top of the casing to the nearest 0.01 foot using an electric sounder.

Prior to sample collection, each well is purged using a battery-operated, 2-inchdiameter pump (Model ES-60 DC). During purging, groundwater is measured for parameters such as dissolved oxygen (DO), pH, temperature, electrical conductivity (EC), and oxygen-reduction potential (ORP) using a Hanna HI-9828 multi-parameter instrument. Turbidity is measured using a Hanna HI-98703 portable turbidimeter. The equipment is calibrated at the Site using standard solutions and procedures provided by the manufacturer.

The pH of groundwater has an effect on the activity of microbial populations in the groundwater. The groundwater temperature affects the metabolic activity of bacteria. The groundwater EC is directly related to the concentration of total dissolved solids (TDS) in solution.

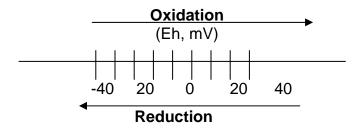
There is a strong correlation between the turbidity level and the biological oxygen demand of natural water bodies. The main purpose for checking the turbidity level is to provide a general overview of the extent of the suspended solids in the groundwater.

ORP is the measure of the potential for an oxidation or reduction process to occur. In the oxidation process, a molecule or ion loses one or several electrons. In the reduction process, a molecule or ion gains one or several electrons. The unit of the redox potential is the volt or millivolt. The most important redox reaction in petroleum-contaminated groundwater is the oxidation of petroleum hydrocarbons in the presence of bacteria and free molecular oxygen. Because the solubility of O_2 in water is low (9 mg/L at 25 °C and 11 mg/L at 5 °C), and because the rate of O_2 replenishment in subsurface environments is limited, DO can be entirely consumed when the oxidation of only a small amount of petroleum hydrocarbons occurs.

Oxidation of petroleum hydrocarbons can still occur when all the dissolved O_2 in the groundwater is consumed; however, the oxidizing agents (i.e., the constituents that undergo reduction) now become NO⁻₃, MnO₂, Fe (OH)₃, SO₄²⁻ and others (Freeze and Cherry, 1979). As these oxidizing agents are consumed, the groundwater environment becomes more and more reduced. If the process advances far enough, the environment may become so strongly reduced that the

Fourth Quarter 2007: Groundwater Monitoring and Remediation System Operation Report

petroleum hydrocarbons undergo anaerobic degradation, resulting in the production of methane and carbon dioxide. The concept of oxidation and reduction in terms of changes in oxidation states is illustrated below.



Purging of wells continues until the parameters for DO, pH, temperature, EC, turbidity, and redox stabilize, or three casing volumes are purged.

Once stabilization occurs, the groundwater samples are also tested on-site for ferrous iron (Fe⁺²), nitrate (NO₃⁻), and sulfate (SO₄⁻²) concentrations.

 Fe^{+2} , NO_3^{-1} , and SO_4^{-2} are measured colorimetrically using the Hach Colorimeter Model 890, a microprocessor-controlled photometer suitable for colorimetric testing in the laboratory or the field. The required reagents for each specific test are provided in AccuVac ampuls.

For sampling purposes, after purging a disposable polyethylene bailer is used to collect sufficient samples from each monitoring well for laboratory analyses. Groundwater samples are transferred into 40-mL VOA vials and preserved with hydrochloric acid. The vials are sealed to prevent development of air bubbles within the headspace. For TPH-d analysis, groundwater samples are collected using 1-L, amber, nonpreserved glass containers. Samples are placed in an ice-filled cooler and maintained at 4°C. A chain of custody form is prepared to be delivered with the samples, which are delivered promptly to a California state-certified analytical laboratory.

Appendix B

Table of Elevations and Coordinates on Monitoring Wells Surveyed by Kier Wright Civil Engineers Surveyors, Inc. and Harrington Surveys, Inc. and Field Measurements of Physical, Chemical, and Biodegradation Parameters of Groundwater

DATE: JOB# 08/27/02 A02576

1

Side Side

1. 1

TABLE OF ELEVATIONS & COORDINATES ON MONITORING WELLS

SOMA ENVIRONMENTAL Oakland-E. 14 the St. "International Blvd"

WELL NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
FD-C	2109299.85	6064039.85	39.35 40.25	Notch on north side of PVC Punch north rim of box
FD-E	2109281.13	6064067.87	40.06 40.55	Notch on north side of PVC Punch north rim of box
FD-W	2109314.99	6064017.59	39.16 39.95	Notch on north side of PVC Punch north rim of box
MW-1	2109338.74	6064025.97	40.11 40.76	Notch on north side of PVC Punch north rim of box
MW-2	2109383.20	6064073.06	40.71 41.61	Notch on north side of PVC Punch north rim of box
MW-3	2109351.11	6064064.63	40.91 41.68	Notch on north side of PVC Punch north rim of box
MW-4	2109278.18	6064076.40	40.01 40.67	Notch on north side of PVC Punch north rim of box
MW-5	2109410.84	6064058.46	41.16 41.60	Notch on south side of PVC Punch south rim of box
MW-6	2109320.46	6064105.06	40.92 41.52	Notch on north side of PVC Punch north rim of box
MW-7	2109368.19	6064025.54	39.94 40.54	Notch on north side of PVC Punch north rim of box
MV¥-8	2109321.68	6064000.46	39.38 39.72	Notch on north side of PVC Punch north rim of box

Kier Wright Civil Engineers Surveyors, Inc. 1233 Quarry Lane, Suite 145, Pleasanton, CA 94566 (925) 249-6555 (925) 249-6563

JOB#

A02576

TABLE OF ELEVATIONS & COORDINATES ON MONITORING WELLS

SOMA ENVIRONMENTAL Oakland-E. 14 the St. "International Blvd"

WELL NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
MW-10	2109193.97	6063957.39	36.71 37.70	Notch on north side of PVC Punch north rim of box
MW-11	2109125.26	6064007.52	XXXX	NO ELEVATION, BOAT ON TOP
MW-12	2109121.85	6063865.00	36.84 36.87	Notch on north side of PVC

Bench mark: NGS Bench mark No.M 554. To reach the station from the intersection of Interstate Highway 880 and Hegenberger Rd in South Oakland go northeast on Hegenberger Rd for 0.5 MI to a side road right Baldwin St. Turn right and go south on Baldwin St for 0.35 MI to a T-intersection, 85th Ave. for 0.1 MI to a side road right, Railroad Ave. Turn right and go south on Railroad Ave. for 0.1 MI to the station on the left, east, side of the road in a large concrete headwall for a culvert.

Elevation = 14.20 NAVD88 Datum

Coordinate values are based on the California Coordinate System, Zone III NAD 83 Datum.

Kier Wright Civil Engineers Surveyors, Inc. 1233 Quarry Lane, Suite 145, Pleasanton, CA 94566 (925) 249-6555 (925) 249-6563

Harrington Surveys Inc.

Land Surveying & Mapping 2278 Larkey Lane, Walnut Creek, Ca. 94597 Phone (925)935-7228 Fax (925)935-5118 CelL (925)788-7359 E-Mail (ben5132@pacbell.net)

SOMA ENVIRONMENTAL ENGINEERING 2680 BISHOP DR. # 203 SAN RAMON, CA. 94583 MAY 20, 2005

ATTN: ELENA

3609 INTERNATIONAL BLVD. OAKLAND CA.

SURVEY REPORT

CONTROLING POINTS FRON SURVEY BY KIER & WRIGHT, DATED 08-27-02:

MW-5 NOTCH, CALIFORNIA COORDINATE SYSTEM, ZONE 3. NAD 83. NORTH 2,109,410.84 - EAST 6,064,058.45, LAT. N37°46'17.42024" W122°13'18.51054". ELEVATION 41.06, NAVD 88,

MW-7 NOTCH, CALIFORNIA COORDINATE SYSTEM, ZONE 3, NORTH 2,109,368.19 - EAST 6,064,025.54. LAT N37°46'30.32592", W122°13'18.88771" ELEVATION 39.94 NAVD 88,

INSTRUMENTATION: TRIMBLE GPS, MODEL 5800 AND LEICA TCA 1800, 1" HORZ. & VERT. OBSERVATION: EPOCH = 180.

FIELD SURVEY: APRIL 20, 2005.

BEN HARRINGTON PLS 5132



SURVEY REPORT 3609 INTERNATIONAL BLVD OAKLAND CA.

HARRINGTON SURVEYS INC. 2278 LARKEY LN. WALNUT CREEK CA. 94597

PT#	NORTH	EAST	ELEV	LATITUDE N.	LONGTIDUDE W.	DESCRIPTION
13			40.34	37"46"30.41532"	122°13'18.24871"	MW-4R_NOTCH TOP 2" PVC MW-4R_PUNCH N. RIM
14	1 2109276.63	6064076.962	40.70			MW-4R PUNCH N. RIM
18	5 2109277.144	6064076.433	40.68			MW-4R PAVINC
				1		
				1		
2						
5	1		1000			
1		6				
	1					
			_			SILLAND STREET
-		-			1.	AND HARD ON
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						1 5132 Jul
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-						Car CAL
	C					
			_			
			_			

05\20\05

TABLE OF ELEVATIONS & COORDINATES

DATE: 8/17/05 Job No. 07-014 DATE OF SURVEY 3/8/07 INSTRUMENTS: Leica SR530 L530, Leica -TCRA 1102 - Total Station, Leica - NA 3003 - Level

3609 International Blvd., Oakland

SOMA ENVIRONMENTAL, PROJECT # 2331

WELL ID #	NORTHING (FT.) / LATITUDE (D.M.S.)	EASTING (FT.) / LONGITUDE (D.M.S.)	ELEVATION (FT.)	DESCRIPTION
EX-1	2109341.80	6064034.13	40.51	Casing
			40.93	Vault
EX-1 DECIMAL DEGREES	37.7752931	-122.2218880		

LOCAL CONTROL

					and the second se
MW-7	2109368.62	6064025.48	39.94	Casing	
	37.7753663	-122.2219197	40.54	Vault	
MW-8	2109321.68	6064000.47	39.38	Casing	
	37.7752361	-122.2220033	39.72	Vault	

NOTE

THE VALUES FOR EX-1 ARE DERIVED FROM LOCAL CONTROL BASED UPON CONTROL VALUES USED FROM THE PREVIOUS SITE SURVEY AS PROVIDED BY KIER AND WRIGHT DATED 08-27-2002

BENCH MARK: NGS Bench mark No.M 554

TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE HIGHWAY 880 AND HEGENBERGER RD IN SOUTH OAKLAND GO NORTHEAST ON HEGENBERGER ROAD FOR 0.5MI TO A SITE ROAD RIGHT BALDWIN ST. TURN RIGHT AND GO SOUTH ON BALDWIN ST. FOR 0.35MI TO A T-INTERSECTION, 85TH AVE. FOR 0.1MI TO A SIDE ROAD RIGHT, RAILROAD AVE. TURN RIGHT AND GO SOUTH ON RAILROAD AVE. FOR 0.1MI TO THE STATION ON THE LEFT, EAST, SIDE OF THE ROAD IN A LARGE CONCRETE HEADWALL FOR A CULVERT.

Coordinate values are based on the California Coordinate System, Zone III NAD 83 Datum. Elevation =14.20 FEET NAVD88 Datum



PRINTED: 3/19/2007 9:24 AM PLS Surveys, Inc. 2220 Livingston Street, Suite 202 Oakland, CA 94606 510.261.0900



Well No.:	m	N-1			Project No.:	2331
Casing Diameter:	2	- inch			Address:	Tony's Express Auto Service
Depth of Well:	30	.00 ft				3609 International Blvd
Top of Casing Elevation:	40.	//ft				Oakland, CA
Depth to Groundwater:	12:	1 <u>3_</u> ft			Date:	November 15-16, 2007
Groundwater Elevation:	27	<u>]8</u> ft			Sampler:	Lizzie Hightower
Water Column Height:	17:	∠'7_ft				Eric Gassner-Wollwage
Purged Volume:		gallons				
Purging Method:	Baile	or □ /			Pump 🔽	
Furging Method:	Dane	" - /			rump 🛥	
Sampling Method:	Baile	er 😾			Pump 🗆	
Color:	No	ॺ /	Yes		Describe	
Sheen:	No	ġ,	Yes		Describe	
Odor:	No		Yes	Å	Describe	slight petro an

Time	Volume	D.O.	pН	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃ -	SO4 ⁻²
	(gallons)	mg/Ц		°C	(μS/cm)	NTU		(mg/L)	(mg/L)	(mg/L)
1424	Star	ACL	purz	in x w	ell					
1426	2	0.26	7.95	20.99	560	49.6	-13.1			
1428	5	0.25	8.11	21.10	551	17.9	- 242.3			
1430	7	0.22	8.07	21.12	549	15.4	-246.8			
1432	9	0.26	8.03	20.97	548	17.8	-257.8			
1435	Sai	mo	led				8	1.04	0	4
		1								



Well No.: Casing Diameter: Depth of Well: Top of Casing Elevation: Depth to Groundwater: Groundwater Elevation: Water Column Height: Purged Volume:	V 31. 40 12.	$\sqrt{-2}$ inch 00ft 7/ft 5° ft 12ft 4/1ft gallons		Project No.: Address: Date: Sampler:	2331 Tony's Express Auto Service 3609 International Blvd Oakland, CA November 16, 2007 Lizzie Hightower Erie Gassner-Wollwage
Purging Method:	Baile	er 🗆 /	20	Pump 🛛	
Sampling Method:	Baile	er 🗹		Pump 🗆	
Color: Sheen:	No No		Yes Yes	Describe S	lightly (lardy
Odor:	No	T	Yes	Describe	

Time	Volume	D.O.	pН	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃ -	SO4 ⁻²
	(gallons)	mg/L		°C	(µS/cm)	NTU		(mg/L)	(mg/L)	(mg/L)
1348	Sta	hr to	ed P	Wgitz	1 We	le				
1351	2	0.27	7.390	19.940	J590	22.0	-86.8			
1354	8	0.23	7.48	20,17	586	23.1	-70.0			
1358	12	0.24	7.63	20.13	586	20.0	-72.9			
1402	16	0.25	7.66	20.14	586	19.5	-70.5			
1405	Sav	nple	d			1		0.2	1.3	19
,		U								



Well No.: Casing Diameter: Depth of Well: Top of Casing Elevation: Depth to Groundwater: Groundwater Elevation: Water Column Height: Purged Volume:	40	inch 50 ft 9/ ft 25 ft 26 ft 25 ft			Project No.: Address: Date: Sampler:	2331 Tony's Express Auto Service 3609 International Blvd Oakland, CA November 5-16, 2007 Lizzie Hightower Eric Gasener-Wollwage
					/	/
Purging Method:	Baile	r 🗆 🌈			Pump	
Sampling Method:	Baile	er 🗹			Pump 🗆	
Color:	No		Yes		Describe	
Sheen:	No		Yes		Describe ⁴	Slight sheen
Odor:	No		Yes	ġ/	Describe 🖓	the abov

ENVIRONMENTAL ENGINEERING, INC

Field Measurements:

Time	Volume	D.O.	pН	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃ -	SO4 ⁻²
	(gallons)	mg/L		°C	(μS/cm)	NTU		(mg/L)	(mg/L)	(mg/L)
1305	Star	A	pura	ing w	ell					
1308	3	0.23	1.05	20102	721	16.9	-192.8			
1311	6	0.22	7.31	20.28	734	13.4	-207.7			
1314	10	0.20	7.34	20.30	730	14.0	-202.2			
1317	14	0.22	7.50	20.44	723	11.8	-192.4			
1320	18	0.21	7.48	20.52	724	20.2	-174.2	1		
1323	22	6.24	1.51	20.47	724	15.2	-167.8			
Notes: 1326	Isar	mpl	ed					11.63	D	6



Well No.:	MW-4R		Project No.:	2331
Casing Diameter:	2inch		Address:	Tony's Express Auto Service
Depth of Well:	26.00 ft			3609 International Blvd
Top of Casing Elevation:	40.34 ft			Oakland, CA
Depth to Groundwater:	13.01_ft		Date:	November 15-76, 2007
Groundwater Elevation:	27.33 ft		Sampler:	Lizzie Hightower
Water Column Height:	1299 ft			Eric Gassner-Wollwage
Purged Volume:	9 gallons	6		
			/	/
Purging Method:	Bailer 🗆 /		Pump 🗹	
Sampling Method:	Bailer 🛛		Pump 🗆	
Color:	No 🗆	Yes	⊠_ <u>Describe</u>	Slightly Cloudy
Sheen:	No R	Yes	Describe	
Odor:	No by	Yes	Describe	

Time	Volume	D.O.	pН	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃ -	SO4 ⁻²
	(gallons)	mg/L	2	°C	(µS/cm)	NTU		(mg/L)	(mg/L)	(mg/L)
1450	Sta	rted	pur	ning 1	Nell					
1452	2	0.26	1.14	18.92	589	193	-89.9			
1454	5	0.25	7.52	19.01	574	84.4	-101.7			
1456	7	0.22	7.55	18.90	588.	34.8	-96.4			
1458	9	0.21	7.51	18.96	562	19.5	-73.6			
1501	SGA	ple	P					1.54	D	0
		1								



Well No.:	m	N-5			Project No.:	2331
Casing Diameter:	2	inch			Address:	Tony's Express Auto Service
Depth of Well:	26.	210 ft				3609 International Blvd
Top of Casing Elevation:	41.	16 ft				Oakland, CA
Depth to Groundwater:	12.	14 ft			Date:	November 16, 2007
Groundwater Elevation:	28	42.ft			Sampler:	Lizzie Hightower
Water Column Height:	13.4	<u>16</u> ft				Eric-Gassner-Wellwage
Purged Volume:) gallons				
		1			/	
Purging Method:	Baile	r 🗆 /			Pump 🔯	
	-	_/				
Sampling Method:	Baile	r ₽⁄			Pump 🗆	
				/		
Color:	No	Π,	Yes	Þ	Describe (Tourang
		tz /	V	-	Describe	0
Sheen:	No	^w /	Yes		Describe	
Odor:	No	R	Yes		Describe	

Time	Volume	D.O.	pН	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃ -	SO4-2
	(gallons)	mg/L		°C	(μS/cm)	NTU		(mg/L)	(mg/L)	(mg/L)
1424	sto	Med	, pur	ging 1	well	-				
1426	2	0.26	7.57	21.01	643	109	-109.9			
1428	S	0.23	7.76	21.29	636	50.2	-97.4			
1430	7	0.22	-7.71	21.26	637	30.8	-72.1			
1433	Sa	mole	X					0.13	1.4	42
		1								
						22				



ENVIRONMENTAL ENGINEERING, INC

Well No.: Casing Diameter: Depth of Well: Top of Casing Elevation: Depth to Groundwater:	MW 25.0 90.7 13.2	$\frac{2}{9}$ ft			Project No.: Address: Date: Sampler:	2331 Tony's Express Auto Service 3609 International Blvd Oakland, CA November 15-16, 2007 Lizzie Hightower
Groundwater Elevation: Water Column Height:	27.6.	<u>}</u> ft Ìft			Sampler.	E ric Gassner-Wollwa ge
Purged Volume:	8	gallons				
Purging Method:	Bailer	□ /			Pump 🛛	
Sampling Method:	Bailer	to/			Pump 🗆	
Color:	No		Yes	D		Davik Gray
Sheen:	No		Yes		Describe	T 1
Odor:	No		Yes		Describe	etro odar

Field Measurements:

Time	Volume	D.O.	pН	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃ -	SO4 ⁻²
	(gallons)	mg/L		°C	(μS/cm)	NTU		(mg/L)	(mg/L)	(mg/L)
1450	Sta	rted	pur	aing n	ell		0 (0			
1452	2	0.24	7.93	49:53	843	98.9	-242.7			
1454	Ч	0.23	7,74	19.74	705	72.5	-203.2	-		
1456	6	0.20	-7.44	19.57	666	47.8	-184-8			
1453	8	0.23	7.60	19.59	640	29.4	-163.8			
1502	SAN	mple	2	•				1.77	0.5	80
		1								



Well No.:	mw-7		Project No.:	2331
Casing Diameter:	2 inch		Address:	Tony's Express Auto Service
Depth of Well:	26.00 ft			3609 International Blvd
Top of Casing Elevation:	<u>39.94</u> ft			Oakland, CA
Depth to Groundwater:	12.45 ft		Date:	November 15-)6, 2007
Groundwater Elevation:	27.19 ft		Sampler:	Lizzie Hightower
Water Column Height:	13.55 ft			Eric Gassner-Wollwage
Purged Volume:		IS		
				а.
			/	/
Purging Method:	Bailer 🗆 🦯		Pump 🗗	
Sampling Method:	Bailer 🗹		Pump 🗆	
			•	
Color:	No 🗆	Yes 🖻	Describe	cloudy
Sheen:	No by	Yes 🗆	Describe	
Odor:	No 🗆	Yes 뉯	Describe S	petro
			2	(

Time	Volume	D.O.	pН	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃ -	SO4-2
	(gallons)	mg/L		°C	(µS/cm)	NTU		(mg/L)	(mg/L)	(mg/L)
1337	Sta	rtea	1 pv	rgiva	Nel	e				
1339	2	0.28	7.86	13.010	632	93.2	-57.5			
1341	I	0,24	7.86	2213	598	43.2	-62.7			
1344	Sal	mol	ed					0.11	0	17



Well No.:MWCasing Diameter:2Depth of Well:26.5Top of Casing Elevation:37.3Depth to Groundwater:12.15Groundwater Elevation:27.2Water Column Height:14.3Purged Volume:7

1W - 5	3
2	inch
6.50	ft
19.38	ft
1.13	ft
7.25	ft
4.37	ft
7	gallons

Project No.:	2331
Address:	Tony's Express Auto Service
	3609 International Blvd
	Oakland, CA
Date:	November 15-36, 2007
Sampler:	Lizzie Hightower
	Eric Gassner-Wollwage

Purging Method:	Bailer	Pump
Sampling Method:	Bailer 🗹	Pump 🗆
		dark
Color:	No 🗆	Yes Describe gray
Sheen:	No 🤤	Yes Describe Rainbow Sheen
Odor:	No 🗆	Yes & Describe petro

Field Measurements:

Time	Volume	D.O.	рН	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃ -	SO4 ⁻²
	(gallons)	mg/L		°C	(µS/cm)	NTU		(mg/L)	(mg/L)	(mg/L)
1403	Stal	Acd	pun	in and	ell					
1405	3	0.26	8.24	20,42	596	80.6	-237.9			
1407	5	0.25	8.09	20,15	586	86.3	-236,2			
1409	7	0.22	8.05	20.55	610	71.3	-216.5			
1412	San	2060	1					1.24	0	\bigcirc
		1	~							



Well No.:	m	1-1D		Project No.:	2331
Casing Diameter:	6	- inch		Address:	Tony's Express Auto Service
Depth of Well:	23	<u>HO</u> ft			3609 International Blvd
Top of Casing Elevation:	36.	<u>7/</u> ft			Oakland, CA
Depth to Groundwater:	11.	2_ft		Date:	November 15-)¢, 2007
Groundwater Elevation:	25	. 59ft		Sampler:	Lizzie Hightower
Water Column Height:	12:	<u>13 ft</u>			Eric Gassner-Wollwage
Purged Volume:	8	gallons			
Purging Method:	Baile	r [□] /		Pump	
Sampling Method:	Baile	rÌd		Pump 🗆	
Color:	No		Yes	Describe S	lightly (landry
Sheen:	No	ď /	Yes	Describe	
Odor:	No	5	Yes	Describe	

Time	Volume	D.O.	pН	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃ -	SO4 ⁻²
	(gallons)	mg/L		°C	(μS/cm)	NTU		(mg/L)	(mg/L)	(mg/L)
1232	Sta	rted	pure	tives we	ll					
1233		0,24	7.66	28.14	700	544	-28.7			
1237	3	0.22	7.67	19.89	633	15.2	-38.3			
1240	6	0.21	7.49	19.96	599	9.09	-24,4			
12.42	8	0.19	7.54	20.02	594	8.50	-38.7			
1245	SAW	pled						\overline{O}	0	12
		0								



Well No.:	<u>mw-12</u>
Casing Diameter:	<u> </u>
Depth of Well:	<u>30.00</u> ft
Top of Casing Elevation:	<u>26-89</u> ft
Depth to Groundwater:	11.84 ft
Groundwater Elevation:	25.00 ft
Water Column Height:	18.16 ft
Purged Volume:	2 (gallons

Project No.:2331Address:Tony's Express Auto Service
3609 International Blvd
Oakland, CADate:November 15-1%, 2007Sampler:Lizzie Hightower
Eric Gassner-Wollwage

مله بالمريد ال

Purging Method:	Bailer □	Pump 🗟
Sampling Method:	Bailer 🖳	Pump 🗆
Color: Sheen:	(.	Yes Describe
Odor:	4	Yes Describe Slight perform

Field Measurements:

Time	Volume	D.O.	pН	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃ -	SO4-2
	(gallons)	mg/L	52 22	°C	(µS/cm)	NTU		(mg/L)	(mg/L)	(mg/L)
1150	Sta	rtee	R p.	n-grly	2 ~	e [1				
1153	4	0.20	7.73	19.36	879	40.8	-79.1			
1156	7	0.19	7.84	19.63	671	33.2	-78.8			
1159	11	0.20	7.94	19.64	630	25.6	-80.8			
1202	15	0.19	7.80	19.71	607	22.7	-57.1			
1205	18	0.17	7.76	19.73	605	24	-60.9			
1208	21	0.16	7.72	19.71	687	21.4	-84.9			1
1211	Sam		l					11.38	0	D
Notes:		5					•			100



Well No .: French Drain	<u>F.</u> [D. Cent	er		Project No.:	2331
Casing Diameter:		inch			Address:	Tony's Express Auto Service
Depth of Well:		ft				3609 International Blvd
Top of Casing Elevation:	-	35ft				Oakland, CA
Depth to Groundwater:		<u>98</u> ft			Date:	November 15-76, 2007
Groundwater Elevation:	23	<u>. 37</u> ft			Sampler:	Lizzie Hightower
Water Column Height:		ft				Eric Gassner-Wollwage
Purged Volume:		gallons	6			
	No	gallons	croje	d		
Purging Method:	Baile	er 🗆			Pump 🗆	
Sampling Method:	Baile	er 🗆			Pump 🗆	Not sampled
Color:	No		Yes		Describe	
Sheen:	No		Yes		Describe	
Odor:	No		Yes		Describe	

Time	Volume	D.O.	рН	Temp	E.C.	Turb.	ORP	Fe ⁺²	NO ₃ -	SO4 ⁻²
	(gallons)	mg/L		°C	(µS/cm)	NTU		(mg/L)	(mg/L)	(mg/L)

Notes:

French Drain center riser is part of remedial system-only water measurement taken.



ENVIRONMENTAL ENGINEERING, INC

E	101000	2.00					
Well No .: French	F.D.	East		Project No.:	2331		
Casing Diameter:	4	inch		Address:	Tony's E	Express Auto Servie	ce
Depth of Well:		ft			3609 Int	ternational Blvd	
Top of Casing Elevation:	40.	Obft			Oakland	i, CA	
Depth to Groundwater:	13.2	2 -8 ft		Date:	Novemb	per 15-76 2007	
Groundwater Elevation:	26:	78 ft		Sampler:	Lizzie H	lightower	
Water Column Height:		ft			Eric Ga	ssner-Wollwage	
Purged Volume:		gallons					
	No-	gallons F purg	ed				
		. 0					
Purging Method:	Baile	r 🗆		Pump 🗆			
Sampling Method:	Baile	r 🗆		Pump 🗆	Vot	sampled	
Color:	No		Yes	Describe			
Sheen:	No		Yes	Describe			
Odor:	No		Yes	Describe			

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	рН	Temp ℃	E.C. (μS/cm)	Turb. NTU	ORP	Fe ⁺² (mg/L)	NO ₃ - (mg/L)	SO ₄ ⁻² (mg/L)
				1						
							•			

Notes: French Drain eastern riser part of	
French Drain, however, no active pum is win riser - only water measuremen taken	ρ
is whin riser - only water measuremen	大
taken.	



ENVIRONMENTAL ENGINEERING, INC

Well No .: French	F.D.	West			Project No.:	2331
Casing Diameter:	4	inch			Address:	Tony's Express Auto Service
Depth of Well:		ft				3609 International Blvd
Top of Casing Elevation:	39	ft ط۱۰				Oakland, CA
Depth to Groundwater:	15.	12 ft			Date:	November 15-26, 2007
Groundwater Elevation:	24.	04 ft			Sampler:	Lizzie Hightower
Water Column Height:		ft				Eric Gassner-Wollwage
Purged Volume:		gallon	S			
	5	10+	puro	jed	l	
Purging Method:	Baile	r 🗆			Pump 🗆	
Sampling Method:	Baile	r 🗆			Pump 🗆	Not sampled
Color:	No		Yes		Describe	
Sheen:	No		Yes		Describe	
Odor:	No		Yes		Describe	

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	рН	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² (mg/L)	NO ₃ - (mg/L)	SO ₄ ⁻² (mg/L)
	_									
	-									
	_									

Notes:	French	Drain	western	riser	part	οf
Ŷ	emedial	systen	n - only	water	mensu	rement
+	aken.					

Appendix C

Chain of Custody Form and Laboratory Report

for the

Fourth Quarter 2007 Monitoring Event

Fourth Quarter 2007: Groundwater Monitoring and Remediation System Operation Report

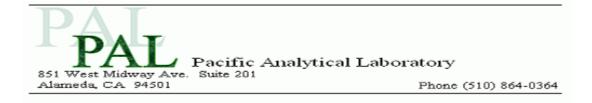
CHAIN OF CUSTODY FORM

Page ____ of____

PAL Pacific Analytical Laboratory 851 West Midway Ave., Suite 201B Alameda, CA 94501 510-864-0364 Telephone 510-864-0365 Fax

PAL Login# 7/10607

Proje	ct No: 2331			Sampler: Lizzie Hightower / Eric Gassner-Wollwage								· ·	Analys	es/M	ethod			
Proje	ct Name: 3609 In Oaklan		vd	Re	port	То:	Joyce Bob	oek						MtBE				
				Co	mpa	any:	SOMA En	viror	mer	ntal	Engi	ineering, Inc.		اھ × ا				
Turn	around Time: St	andard		Tel Faz			-734-6400 -734-6401							TPH-g, BTEX, I 8260B				
		Sampling	Date/Time	M	latrix	ĸ	# of Containers)	Prese	rvati	ves			HHT	1			
Lab No.	Sample ID	Date	Time	Soil	Water	Waste		HCL	H ₂ So4	HNO ₃	ICE	Fi	eld Notes					
	MW-1	11/15 07	1435		Х		3 VOAS	X		-	X	Grab Sample		×	+		-	++
	MW-2	11/10/07	1405		Х		3 VOAS	X		-	X	1		×	-		-	
	MW-3	11/16/07	and the second sec		Х		3 VOAS	X			X			X				
	MW-4R	11 15 07	1501		Х		3 VOAS	X			Х			X	-			
	MW-5	11/16/07			Х		3 VOAS	X			Х			×				
	MW-6	11/16/07	1502		Х		3 VOAS	X			Х			X				
	MW-7	11/15/07	1344		Х		3 VOAS	X			Х			×				
	MW-8	11/15/07	1412		Х		3 VOAS	X			Х	1		X		1		
	MW-10	1111507	1245		X		3 VOAS	X			X	V		*				
	MW-11 MW-12	11/15/07	1211	-	×		3 VOAS 3 VOAS	X			××	C L C	un al a	X				
Sam	pler Remarks:	1112101	1211		^		Relinquis		av.			e/Time:	Received by:		D	ate/T	ima:	
	REQUIRED						EHzlut				11)	6/07 F:09 MM	Received by: MUAR		_			7
															-			



20 November 2007

Mansour Sepehr SOMA Environmental Engineering Inc. 6620 Owens Drive, Suite A Pleasanton, CA 94588

RE: 3609 International Blvd, Oakland

Work Order Number: 7110007

This Laboratory report has been reviewed for technical correctness and completeness. This entire report was reviewed and approved by the Laboratory Director or the Director's designee, as verified by the following signature.

Sincerely,

Mapd Ach

Maiid Akhavan Laboratorv Director



Project: 3609 International Blvd, Oakland Project Number: 2331 Project Manager: Mansour Sepehr

Reported: 20-Nov-07 18:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	7110007-01	Water	15-Nov-07 14:35	16-Nov-07 16:30
MW-2	7110007-02	Water	16-Nov-07 14:05	16-Nov-07 16:30
MW-3	7110007-03	Water	16-Nov-07 13:26	16-Nov-07 16:30
MW-4R	7110007-04	Water	15-Nov-07 15:01	16-Nov-07 16:30
MW-5	7110007-05	Water	16-Nov-07 14:33	16-Nov-07 16:30
MW-6	7110007-06	Water	16-Nov-07 15:02	16-Nov-07 16:30
MW-7	7110007-07	Water	15-Nov-07 13:44	16-Nov-07 16:30
MW-8	7110007-08	Water	15-Nov-07 14:12	16-Nov-07 16:30
MW-10	7110007-09	Water	15-Nov-07 12:45	16-Nov-07 16:30
MW-12	7110007-10	Water	15-Nov-07 12:11	16-Nov-07 16:30



Project: 3609 International Blvd, Oakland Project Number: 2331 Project Manager: Mansour Sepehr

Reported: 20-Nov-07 18:30

Volatile Organic Compounds by EPA Method 8260B Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-1 (7110007-01) Water Sampled: 15-	Nov-07 14:35 Rece	ived: 16-Nov-(07 16:30						
Gasoline (C6-C12)	18500	100	ug/l	2	BK71901	16-Nov-07	17-Nov-07	EPA 8260B	
Benzene	413	1.00	"	"		"		"	
Ethylbenzene	523	1.00	"	"		"		"	
m&p-Xylene	425	4.00	"	"	"	"		"	
o-xylene	202	1.00	"	"	"	"		"	
Toluene	93.1	4.00	"	"	"	"	"	"	
MTBE	86.6	1.00	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	70	130	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	70	130	"	"	"	"	
Surrogate: Perdeuterotoluene		106 %	70	130	"	"	"	"	
MW-2 (7110007-02) Water Sampled: 16-	Nov-07 14:05 Rece	ived: 16-Nov-()7 16:30						
Gasoline (C6-C12)	61.1	50.0	ug/l	1	BK71901	16-Nov-07	17-Nov-07	EPA 8260B	
Benzene	5.09	0.500	"	"	"	"	"	"	
Ethylbenzene	1.67	0.500	"	"	"	"		"	
m&p-Xylene	ND	2.00	"	"	"	"		"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.6 %	70	130	"	"	"	"	
Surrogate: Dibromofluoromethane		109 %	70	130	"	"	"	"	
Surrogate: Perdeuterotoluene		100 %	70	130	"	"	"	"	
MW-3 (7110007-03) Water Sampled: 16-	Nov-07 13:26 Rece	ived: 16-Nov-(07 16:30						
Gasoline (C6-C12)	5490	550	ug/l	11	BK71901	16-Nov-07	17-Nov-07	EPA 8260B	
Benzene	2360	5.50	"	"	"	"	"	"	
Ethylbenzene	523	5.50	"	"		"	"	"	
m&p-Xylene	171	22.0	"	"	"	"	"	"	
o-xylene	42.9	5.50	"	"	"	"	"	"	
Toluene	52.0	22.0	"	"		"	"	"	
МТВЕ	43.0	5.50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.6 %	70	130	"	"	"	"	
Surrogate: Dibromofluoromethane		108 %	70	130	"	"	"	"	
Surrogate: Perdeuterotoluene		102 %	70	130	"	"	"	"	

Pacific Analytical Laboratory



Project Number: 2331 Project Manager: Mansour Sepehr **Reported:** 20-Nov-07 18:30

Volatile Organic Compounds by EPA Method 8260B

Project: 3609 International Blvd, Oakland

Pacific Analytical Laboratory

			•		•				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4R (7110007-04) Water Sampled: 1	5-Nov-07 15:01 Rec	eived: 16-Nov	-07 16:30						
Gasoline (C6-C12)	1740	50.0	ug/l	1	BK71901	16-Nov-07	18-Nov-07	EPA 8260B	
Benzene	94.5	0.500	"	"	"	"	"	"	
Ethylbenzene	41.0	0.500	"	"	"	"		"	
m&p-Xylene	13.6	2.00	"	"	"	"		"	
o-xylene	1.92	0.500	"	"	"	"		"	
Toluene	ND	2.00	"	"	"	"		"	
MTBE	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	70-13	0	"	"	"	"	
Surrogate: Dibromofluoromethane		105 %	70-13	0	"	"	"	"	
Surrogate: Perdeuterotoluene		103 %	70-13	0	"	"	"	"	

MW-5 (7110007-05) Water Sampled: 16-Nov-07 14:33 Received: 16-Nov-07 16:30

Gasoline (C6-C12)	ND	50.0	ug/l	1	BK71901	16-Nov-07	18-Nov-07	EPA 8260B	
Benzene	3.45	0.500	"		"	"		"	
Ethylbenzene	ND	0.500	"		"	"		"	
m&p-Xylene	ND	2.00	"		"	"		"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	0.580	0.500	"		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.0 %	70-1	30	"	"	"	"	
Surrogate: Dibromofluoromethane		114 %	70-1	30	"	"	"	"	
Surrogate: Perdeuterotoluene		99.2 %	70-1	30	"	"	"	"	

MW-6 (7110007-06) Water Sampled: 16-Nov-07 15:02 Received: 16-Nov-07 16:30

Gasoline (C6-C12)	5430	215	ug/l	4.3	BK71901	16-Nov-07	18-Nov-07	EPA 8260B	
Benzene	436	2.15	"	"	"	"		"	
Ethylbenzene	439	2.15	"	"	"	"	"	"	
m&p-Xylene	124	8.60	"	"	"	"		"	
o-xylene	23.8	2.15	"	"	"	"		"	
Toluene	29.8	8.60	"	"	"	"		"	
MTBE	ND	2.15			"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	70-1	30	"	"	"	"	
Surrogate: Dibromofluoromethane		110 %	70-1	30	"	"	"	"	
Surrogate: Perdeuterotoluene		105 %	70-1	30	"	"	"	"	



Project Number: 2331 Project Manager: Mansour Sepehr

Project: 3609 International Blvd, Oakland

Reported: 20-Nov-07 18:30

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (7110007-07) Water Sample	d: 15-Nov-07 13:44 Receiv	ved: 16-Nov-(07 16:30						
Gasoline (C6-C12)	135	50.0	ug/l	1	BK71901	16-Nov-07	18-Nov-07	EPA 8260B	
Benzene	ND	0.500	"	"	"	"		"	
Ethylbenzene	0.540	0.500	"	"	"	"		"	
m&p-Xylene	ND	2.00	"	"	"	"		"	
o-xylene	ND	0.500	"	"	"	"		"	
Toluene	ND	2.00	"	"	"	"		"	
MTBE	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.6 %	70-13	30	"	"	"	"	
Surrogate: Dibromofluoromethane		114 %	70-13	30	"	"	"	"	
Surrogate: Perdeuterotoluene		102 %	70-13	30	"	"	"	"	

MW-8 (7110007-08RE1) Water Sampled: 15-Nov-07 14:12 Received: 16-Nov-07 16:30

Gasoline (C6-C12)	10300	100	ug/l	2	BK71901	16-Nov-07	19-Nov-07	EPA 8260B	
Benzene	169	1.00	"	"	"	"		"	
Ethylbenzene	281	1.00	"	"	"	"		"	
m&p-Xylene	10.5	4.00	"	"	"	"	"	"	
o-xylene	1.50	1.00	"	"	"	"		"	
Toluene	11.1	4.00	"	"	"	"		"	
MTBE	60.4	1.00	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	70-1	30	"	"	"	"	
Surrogate: Dibromofluoromethane		104 %	70-1	30	"	"	"	"	
Surrogate: Perdeuterotoluene		105 %	70-1	30	"	"	"	"	

MW-10 (7110007-09) Water Sampled: 15-Nov-07 12:45 Received: 16-Nov-07 16:30

Gasoline (C6-C12)	492	50.0	ug/l	1	BK71901	16-Nov-07	18-Nov-07	EPA 8260B
Benzene	104	0.500	"	"	"	"	"	"
Ethylbenzene	41.2	0.500	"	"	"	"	"	"
m&p-Xylene	ND	2.00	"	"	"	"	"	"
o-xylene	ND	0.500		"	"	"	"	"
Toluene	ND	2.00	"	"	"	"	"	"
MTBE	18.7	0.500	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		93.0 %	70-13)	"	"	"	"
Surrogate: Dibromofluoromethane		110 %	70-13)	"	"	"	"
Surrogate: Perdeuterotoluene		102 %	70-13)	"	"	"	"



Project Number: 2331 Project Manager: Mansour Sepehr **Reported:** 20-Nov-07 18:30

Volatile Organic Compounds by EPA Method 8260B

Project: 3609 International Blvd, Oakland

Pacific Analytical Laboratory

Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ed: 15-Nov-07 12:11 Recei	ived: 16-Nov	-07 16:30						
678	50.0	ug/l	1	BK71901	16-Nov-07	18-Nov-07	EPA 8260B	
0.790	0.500	"	"	"	"		"	
0.510	0.500	"	"	"	"		"	
ND	2.00	"	"	"	"		"	
ND	0.500	"	"	"	"		"	
ND	2.00	"	"	"	"		"	
20.4	0.500	"	"	"	"	"	"	
	100 %	70-13	30	"	"	"	"	
	110 %	70-13	30	"	"	"	"	
	105 %	70-13	30	"	"	"	"	
	ed: 15-Nov-07 12:11 Rece 678 0.790 0.510 ND ND ND	Result Limit cd: 15-Nov-07 12:11 Received: 16-Nov-07 678 50.0 0.790 0.500 0.510 0.500 ND 2.00 ND 2.00 ND 2.00 ND 2.00 100 % 110 %	Result Limit Units cd: 15-Nov-07 12:11 Received: 16-Nov-07 16:30 0.00000000000000000000000000000000000	Result Limit Units Dilution cd: 15-Nov-07 12:11 Received: 16-Nov-07 16:30 1 678 50.0 ug/l 1 0.790 0.500 " " 0.510 0.500 " " ND 2.00 " " ND 2.00 " " ND 0.500 " " 100 0.500 " " 100 0.500 " " 100 0.500 " " 100 % 70-130 110 %	Result Limit Units Dilution Batch bd: 15-Nov-07 12:11 Received: 16-Nov-07 16:30	Result Limit Units Dilution Batch Prepared dd: 15-Nov-07 12:11 Received: 16-Nov-07 16:30 6678 50.0 ug/l 1 BK71901 16-Nov-07 0.790 0.500 " " " " 0.510 0.500 " " " " ND 2.00 " " " " ND 0.500 " " " " ND 2.00 " " " " 100 0.500 " " " " 100 % 70-130 " " " "	Result Limit Units Dilution Batch Prepared Analyzed cd: 15-Nov-07 12:11 Received: 16-Nov-07 16:30 678 50.0 ug/l 1 BK71901 16-Nov-07 18-Nov-07 0.790 0.500 " " " " " " 0.510 0.500 " " " " " " ND 2.00 " " " " " " ND 0.500 " " " " " " ND 2.00 " " " " " " ND 0.500 " " " " " " ND 2.00 " " " " " " 100 % 70-130 " " " " " "	Result Limit Units Dilution Batch Prepared Analyzed Method d: 15-Nov-07 12:11 Received: 16-Nov-07 16:30



SOMA Environmental Engineering Inc.	Project:	3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number:	2331	Reported:
Pleasanton CA, 94588	Project Manager:	Mansour Sepehr	20-Nov-07 18:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Anaryte	Kesuit	Liinit	Units	Level	Kesuit	70KEC	Lillins	KPD	Linit	Notes
Batch BK71901 - EPA 5030 Water MS										
Blank (BK71901-BLK1)				Prepared &	Analyzed:	19-Nov-07				
Surrogate: 4-Bromofluorobenzene	42.8		ug/l	50.0		85.6	70-130			
Surrogate: Dibromofluoromethane	54.4		"	50.0		109	70-130			
Surrogate: Perdeuterotoluene	49.1		"	50.0		98.2	70-130			
Gasoline (C6-C12)	ND	50.0	"							
Benzene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
m&p-Xylene	ND	2.00	"							
o-xylene	ND	0.500	"							
Foluene	ND	2.00	"							
MTBE	ND	0.500	"							
LCS (BK71901-BS1)				Prepared &	Analyzed:	19-Nov-07	,			
Surrogate: 4-Bromofluorobenzene	42.8		ug/l	50.0		85.6	70-130			
Surrogate: Dibromofluoromethane	39.2		"	50.0		78.4	70-130			
Surrogate: Perdeuterotoluene	50.4		"	50.0		101	70-130			
Gasoline (C6-C12)	2180	50.0	"	2000		109	70-130			
Benzene	106	0.500	"	100		106	70-130			
Toluene	92.6	2.00	"	100		92.6	70-130			
MTBE	108	0.500	"	100		108	70-130			
LCS Dup (BK71901-BSD1)				Prepared &	Analyzed:	19-Nov-07	,			
Surrogate: 4-Bromofluorobenzene	41.2		ug/l	50.0		82.4	70-130			
Surrogate: Dibromofluoromethane	40.7		"	50.0		81.4	70-130			
Surrogate: Perdeuterotoluene	49.5		"	50.0		99.0	70-130			
Gasoline (C6-C12)	1980	50.0	"	2000		99.0	70-130	9.62	20	
Benzene	113	0.500	"	100		113	70-130	6.39	20	
Toluene	99.5	2.00	"	100		99.5	70-130	7.18	20	
MTBE	106	0.500	"	100		106	70-130	1.87	20	



Project: 3609 International Blvd, Oakland Project Number: 2331 Project Manager: Mansour Sepehr

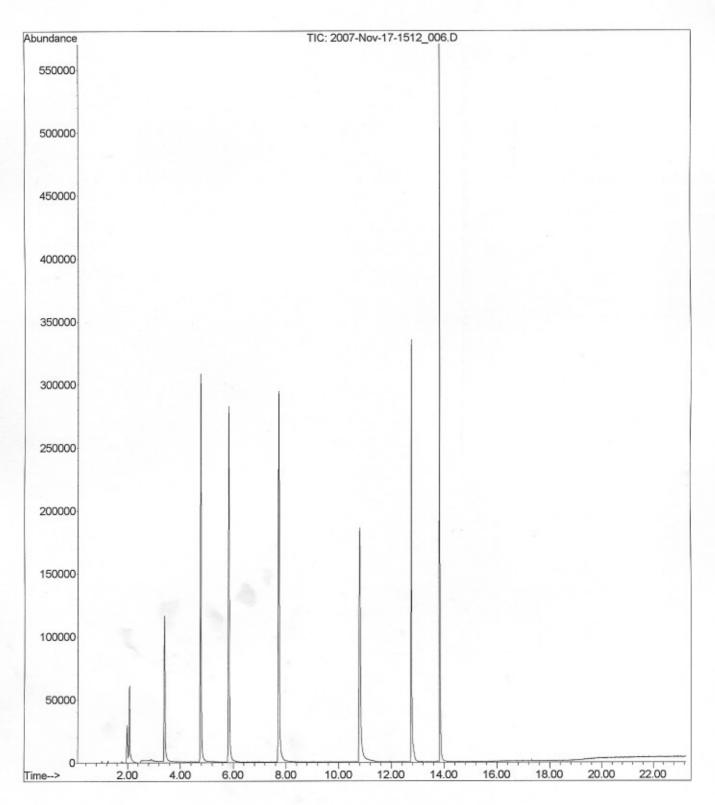
Reported: 20-Nov-07 18:30

Notes and Definitions

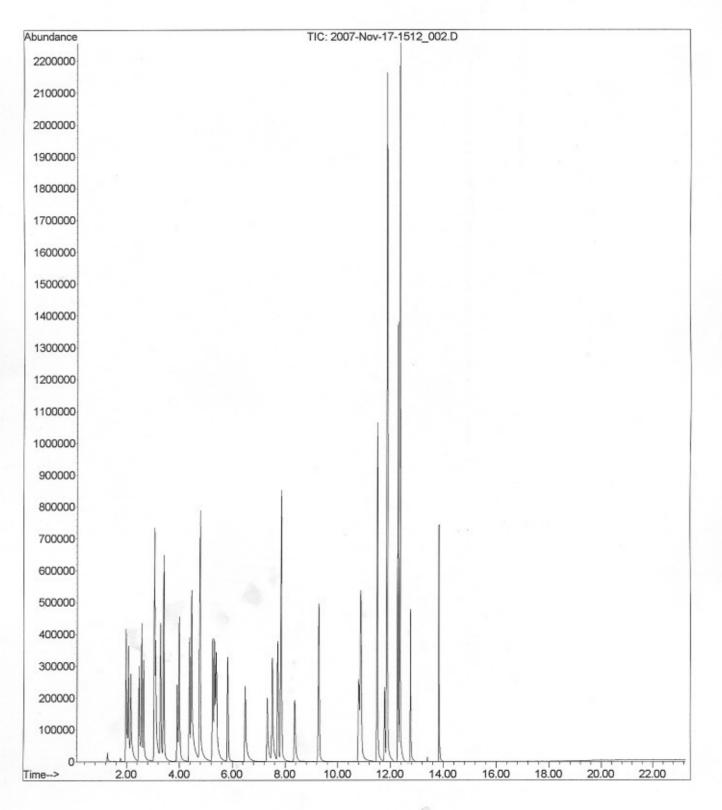
DET Analyte DETECTED

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

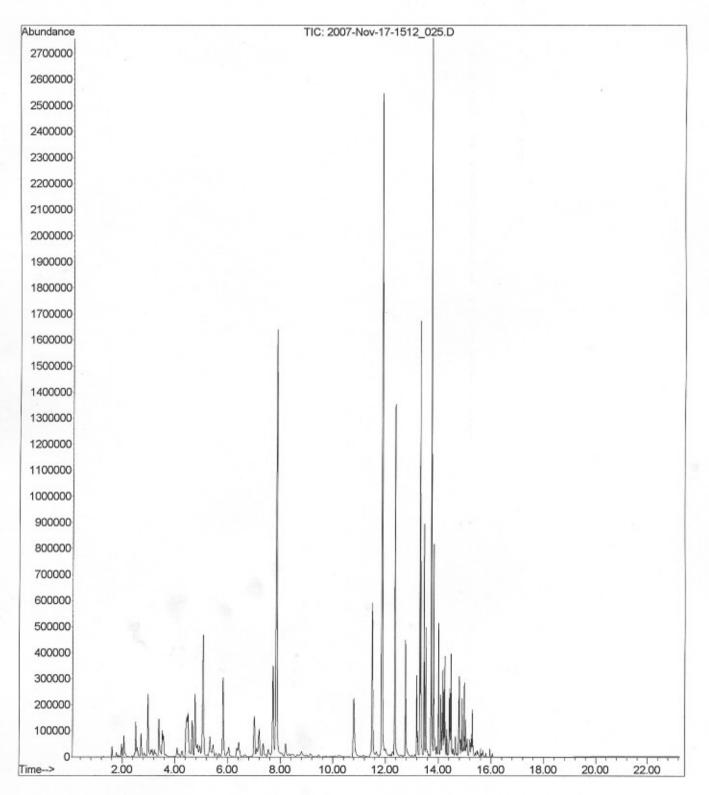
File	:C:\MSDChem\1\DATA\2007-Nov-17-1512.b\2007-Nov-17-1512_006.D
Operator	: dh
Acquired	: 17 Nov 2007 6:33 pm using AcqMethod OXY21506.M
Instrument	: PAL GCMS
Sample Name	: BK71901-BLK1
Misc Info	
Vial Number	: 7



File	:C:\MSDChem\1\DATA\2007-Nov-17-1512.b\2007-Nov-17-1512_002.D
	: dh
	: 17 Nov 2007 4:28 pm using AcqMethod OXY21506.M
	: PAL GCMS
Sample Name	: BK71901-BS1@voc
Misc Info	
Vial Number	:: 3



```
File :C:\MSDChem\1\DATA\2007-Nov-17-1512.b\2007-Nov-17-1512_025.D
Operator : dh
Acquired : 18 Nov 2007 4:26 am using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BK71901-BS1@gas
Misc Info :
Vial Number: 26
```



-

Appendix D

Chain of Custody Forms and Laboratory Reports

for the

Groundwater Extraction Treatment System

Fourth Quarter 2007: Groundwater Monitoring and Remediation System Operation Report

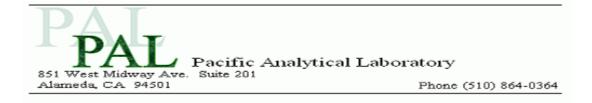
CHAIN OF CUSTODY FORM

of Page _

PAL Pacific Analytical Laboratory 851 West Midway Ave., Suite 201B Alameda, CA 94501 510-864-0364 Telephone 510-864-0365 Fax

PAL Login# 7100013

Project No: 2333				sampler: Bill Bassal								A	nalyse	s/Meth	od			
Proje	ct Name: 3609 Int Oakl		Blvd.	Report To: Bill Bassett								MtBE						
				Company: SOMA Environmental Engineering, Inc.								×						
Turna	around Time: S	tandard		Tel Faz			734-6400							BTEX,				
		Samplin	g Date/Time	М	latrix	c	# of Containers	P	rese	rvati	ves			TPHg, 8260B				
Lab No.	Sample ID	Date	Time	Soil	Water	Waste		HCL	H ₂ So4	HNO ₃	ICE	Fie	eld Notes					
	Influent	tetaki	0930		*		3-VOAs	•			*	Grab Sample	1	*				+
	GAC-1	19/2/07	10925		*		3-VOAs	*			*	Grab Sample		*				
	PSP-1 🔆	u	0920		*		3-VOAs	*			•	Grab Sample		*				
KN	on the votis	belled as	Alumt	5														_
	on the vorts	nease	H.B.		-					-					-		-	+
	4 or 1 us	sumple .	the contraction of the contracti															
	oler Remarks:						Relinguist	hed	oy:			e/Time:	Received by:			ate/Ti	me:	
EDF	Output Requir	red					hat	A	5	_	19	31/07 4:49	on man	9nl	- 10	7.31	0	42
							V											



14 November 2007

Mansour Sepehr SOMA Environmental Engineering Inc. 6620 Owens Drive, Suite A Pleasanton, CA 94588

RE: 3609 International Blvd, Oakland

Work Order Number: 7100013

This Laboratory report has been reviewed for technical correctness and completeness. This entire report was reviewed and approved by the Laboratory Director or the Director's designee, as verified by the following signature.

Sincerely,

Mapd Ach

Maiid Akhavan Laboratorv Director



SOMA Environmental Engineering Inc.	Project:	3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number:	2333	Reported:
Pleasanton CA, 94588	Project Manager:	Mansour Sepehr	14-Nov-07 19:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Influent	7100013-01	Water	31-Oct-07 09:30	31-Oct-07 16:40
GAC-1	7100013-02	Water	31-Oct-07 09:25	31-Oct-07 16:40
PSP-1	7100013-03	Water	31-Oct-07 09:20	31-Oct-07 16:40



Project: 3609 International Blvd, Oakland Project Number: 2333 Project Manager: Mansour Sepehr

Reported: 14-Nov-07 19:14

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Influent (7100013-01RE1) Water Sample	d: 31-Oct-07 09:30	Received: 31-	Oct-07 16:4	0					
Gasoline (C6-C12)	3430	50.0	ug/l	1	BK70701	31-Oct-07	08-Nov-07	EPA 8260B	
Benzene	84.9	0.500	"	"	"	"	"	"	
Ethylbenzene	10.1	0.500	"	"	"	"	"	"	
m&p-Xylene	164	2.00	"	"	"	"	"	"	
o-xylene	150	0.500	"	"	"	"	"	"	
Toluene	22.7	2.00	"	"	"	"	"	"	
MTBE	268	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	70-13	0	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	70-13	0	"	"	"	"	
Surrogate: Perdeuterotoluene		99.4 %	70-13	0	"	"	"	"	
GAC-1 (7100013-02) Water Sampled: 31-	-Oct-07 09:25 Rece	eived: 31-Oct-0	7 16:40						
Gasoline (C6-C12)	ND	50.0	ug/l	1	BK70701	31-Oct-07	06-Nov-07	EPA 8260B	
Benzene	ND	0.500	"	"	"	"			
Ethylbenzene	ND	0.500	"	"	"	"			
m&p-Xylene	ND	2.00	"	"	"	"		"	
o-xylene	ND	0.500	"	"	"	"		"	
Toluene	ND	2.00	"	"	"	"		"	
MTBE	ND	0.500	"	"	"	"	"		
Surrogate: 4-Bromofluorobenzene		83.0 %	70-13	0	"	"	"	"	
Surrogate: Dibromofluoromethane		114 %	70-13	0	"	"	"	"	
Surrogate: Perdeuterotoluene		92.6 %	70-13	0	"	"	"	"	
PSP-1 (7100013-03) Water Sampled: 31-0	Oct-07 09:20 Recei	ved: 31-Oct-07	7 16:40						
Gasoline (C6-C12)	ND	50.0	ug/l	1	BK70701	31-Oct-07	06-Nov-07	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"		
Ethylbenzene	ND	0.500	"	"	"	"	"		
m&p-Xylene	ND	2.00		"	"	"	"	"	
o-xylene	ND	0.500		"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"		
MTBE	ND	0.500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		78.2 %	70-13	0	"	"	"	"	
Surrogate: Dibromofluoromethane		114 %	70-13	0	"	"	"	"	
Surrogate: Perdeuterotoluene		88.0 %	70-13		"	"	"	"	

Pacific Analytical Laboratory



	Pacific Analytica	al Laboratory			
Ve	olatile Organic Compounds	ls by EPA Method 8260B	Reported: 14-Nov-07 19:14		
Pleasanton CA, 94588	Project Manager: Man	unsour Sepehr	14-Nov-07 19:14		
6620 Owens Drive, Suite A	Project Number: 233	33	Reported:		
SOMA Environmental Engineering Inc.	Project: 360	09 International Blvd, Oakland			

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Pacific Analytical Laboratory



SOMA Environmental Engineering Inc.	Project:	3609 International Blvd, Oakland	
6620 Owens Drive, Suite A	Project Number:	2333	Reported:
Pleasanton CA, 94588	Project Manager:	Mansour Sepehr	14-Nov-07 19:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BK70701 - EPA 5030 Water MS	icesuit	Emitt	Onto	Level	result	Juice	Linito	iu D	Linit	110103
Bank (BK70701-BLK1)				Prenared &	Analyzed	07-Nov-07				
· · · ·	Prepared & Analyzed: 07-Nov-07 40.5 ug/l 50.0 81.0 70-130									
Surrogate: 4-Bromofluorobenzene	40.5 57.8		ug/l "	50.0 50.0		81.0 116	70-130 70-130			
Surrogate: Dibromofluoromethane Surrogate: Perdeuterotoluene	37.8 43.4		"	50.0 50.0		86.8	70-130 70-130			
Gasoline (C6-C12)	43.4 ND	50.0		50.0		00.0	/0-150			
Benzene	ND	0.500								
Ethylbenzene	ND	0.500								
m&p-Xylene	ND	2.00								
o-xylene	ND	0.500								
Toluene	ND	2.00								
MTBE	ND	0.500	"							
LCS (BK70701-BS1)	Prepared & Analyzed: 07-Nov-07									
Surrogate: 4-Bromofluorobenzene	51.1		ug/l	50.0		102	70-130			
Surrogate: Dibromofluoromethane	48.6		"	50.0		97.2	70-130			
Surrogate: Perdeuterotoluene	51.5		"	50.0		103	70-130			
Gasoline (C6-C12)	1950	50.0		2000		97.5	70-130			
Benzene	106	0.500		100		106	70-130			
Toluene	106	2.00		100		106	70-130			
MTBE	85.8	0.500	"	100		85.8	70-130			
LCS Dup (BK70701-BSD1)	Prepared & Analyzed: 07-Nov-07									
Surrogate: 4-Bromofluorobenzene	50.9		ug/l	50.0		102	70-130			
Surrogate: Dibromofluoromethane	51.8		"	50.0		104	70-130			
Surrogate: Perdeuterotoluene	50.5		"	50.0		101	70-130			
Gasoline (C6-C12)	1940	50.0		2000		97.0	70-130	0.514	20	
Benzene	107	0.500	"	100		107	70-130	0.939	20	
Toluene	107	2.00	"	100		107	70-130	0.939	20	
MTBE	94.9	0.500		100		94.9	70-130	10.1	20	



Project: 3609 International Blvd, Oakland Project Number: 2333 Project Manager: Mansour Sepehr

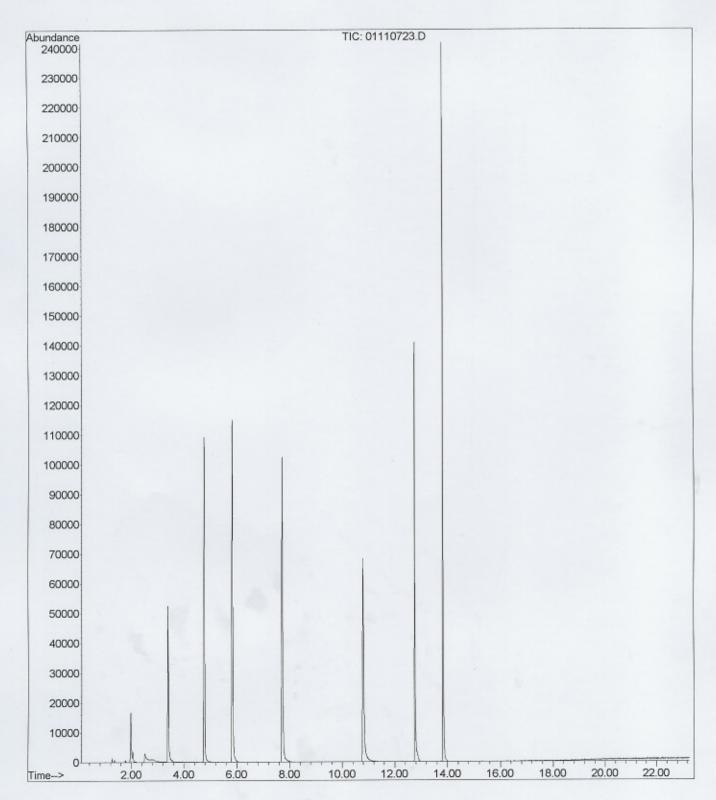
Reported: 14-Nov-07 19:14

Notes and Definitions

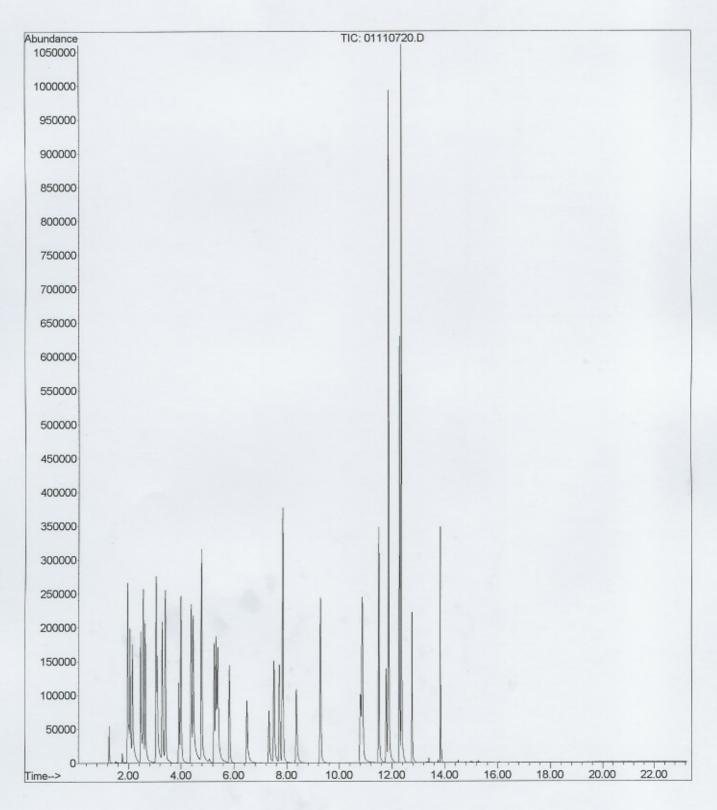
DET Analyte DETECTED

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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File :C:\MSDChem\1\DATA\2007-Nov-01-1613.b\01110723.D
Operator : dh
Acquired : 2 Nov 2007 5:33 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BK70701-BLK1
Misc Info :
Vial Number: 23
```



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File :C:\MSDChem\1\DATA\2007-Nov-01-1613.b\01110720.D
Operator : dh
Acquired : 2 Nov 2007 3:56 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BK70701-BS1@voc
Misc Info :
Vial Number: 20
```



```
File :C:\MSDChem\1\DATA\2007-Nov-01-1613.b\01110721.D
Operator : dh
Acquired : 2 Nov 2007 4:28 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BK70701-BS1@gas
Misc Info :
Vial Number: 21
```

