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Environmental Health



ENVIRONMENTAL ENGINEERING, INC

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April 16, 2007

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 "First 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.

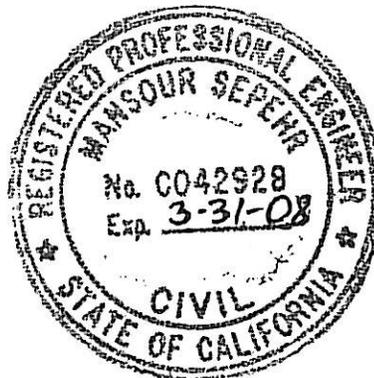
Thank you for your time in reviewing our report. If you have any questions or comments, please call me at (925) 734-6400.

Sincerely

Enclosure

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

Mr. Vince Tong w/report enclosure
Traction International





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First Quarter 2007
Groundwater Monitoring and
Remediation System Operation Report
Tony's Express Auto Service

3609 International Boulevard
Oakland, California

April 16, 2007

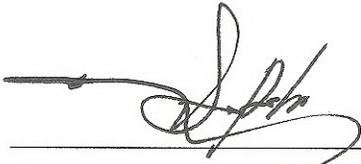
Project 2331

Prepared for
Tony's Express Auto Service
3609 International Boulevard
Oakland, California 94601

Prepared by
SOMA Environmental Engineering, Inc.
6620 Owens Drive, Suite A
Pleasanton, California 94588

Certification

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



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



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1.0 INTRODUCTION

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

This report summarizes the results of the First Quarter 2007 groundwater monitoring event conducted at the Site on February 26 and 27, 2007, and includes the laboratory analytical results for the groundwater samples.

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

The groundwater monitoring activities were performed in accordance with the general guidelines of the Regional Water Quality Control Board and the Alameda County Environmental Health Services. A description of SOMA's groundwater monitoring procedures is included in Appendix A. Figure 2 shows the locations of the wells and risers.

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

1.1 Background

In July 1993, 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 these tanks. Currently, there are one 10,000-gallon double-walled UST and two 6,000-gallon double-walled USTs beneath the Site. The locations of the USTs are shown in Figure 2.

In December 1997, Western Geo-Engineers conducted additional investigations and groundwater monitoring events. The results of the groundwater monitoring events indicated elevated levels of petroleum hydrocarbons and methyl tertiary-butyl ether (MtBE) in the groundwater.

In April 1999, Mr. Razi, the owner, retained SOMA for groundwater monitoring, risk-based corrective action (RBCA), preparation of a corrective action plan (CAP), and soil and groundwater remediation at the Site. The results of the RBCA study indicated that the Site is a high-risk groundwater site; therefore, the soil and groundwater in the on- and off-site areas required remedial action.

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

In late August 1999, SOMA installed a French drain and groundwater treatment system to prevent further migration of the chemically impacted groundwater. In July 2000, SOMA installed a vapor extraction system.

In January 2002, Environmental Fabric removed the former product dispensers and installed new ones.

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

On April 1, 2005, SOMA conducted a pilot test to evaluate the use of ozone sparging to actively remediate the groundwater at the Site. The test revealed that the unsaturated zone was permeable enough to allow for the 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.

From November 17 to 23, 2005, SOMA oversaw the installation of the air sparge wells and vapor extraction wells by Woodward Drilling, of Rio Vista, California. From February 22, 2006 to March 6, 2006, SOMA oversaw the installation of the air sparge system by ACRC, Inc., a construction company in San Ramon, California.

On February 5, 2007, 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. Since April 2007, SOMA has been in the process of installing a downhole pump within EX-1. Once the pump is installed, remedial activities will begin at this well location. Impacted groundwater from the well will be treated and discharged through the granular activated carbon (GAC) system. Increased groundwater contaminant removal within the UST cavity should be achieved on startup of extraction at EX-1. The well location and proposed remedial lines are shown in Figure 2.

2.0 RESULTS

The following sections provide the results of the field measurements and laboratory analyses for the February 26 and 27, 2007 groundwater monitoring event.

2.1 Field Measurements

As shown in Table 1, the depths to groundwater for the monitoring wells ranged from 8.02 feet in well MW-10 to 10.41 feet in well MW-7. The corresponding groundwater elevations ranged from 27.80 feet in well MW-12 to 32.24 feet in well MW-5. The groundwater elevations for the center, east, and west risers were 26.34 feet, 28.86 feet, and 28.95 feet, respectively.

Figure 3 displays the groundwater elevation contour map. The groundwater flows toward the French drain at an approximate gradient of 0.075 feet/foot. 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. Since the previous monitoring event (Fourth Quarter 2006), the groundwater flow direction has remained toward the French drain at a fairly consistent gradient.

The field notes for the 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 the 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 2.01 mg/L in well MW-5 to 4.24 mg/L in well MW-7. Oxidation-reduction potential (ORP) showed negative redox potentials in all wells except for wells MW-4R, MW-5, MW-7, and MW-10. Oxidation of petroleum hydrocarbons could have occurred in these monitoring wells. Negative redox potentials indicate that contaminants in the groundwater are conducive to anaerobic biodegradation.

Ferrous iron concentrations can be used as an indicator of anaerobic biodegradation. Ferrous iron concentrations ranged from 0.20 mg/L in well MW-2 to the equipment maximum allowable tolerance range of 3.30 mg/L in wells MW-1 and MW-3. Ferrous iron was not detected in well MW-7.

Nitrate concentrations were below the equipment minimum allowable level in well MW-3. Detectable nitrate concentrations ranged from 0.2 mg/L in well MW-5 to the maximum allowable tolerance range of 35 mg/L in well MW-4R. 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-1, MW-3, and MW-8. Detectable sulfate concentrations ranged from 5 mg/L in well MW-12 to 62 mg/L in well MW-6.

2.2 Laboratory Analysis

Table 1 presents the results of the laboratory analyses for the groundwater samples collected during this monitoring event.

Total petroleum hydrocarbons as gasoline (TPH-g) was detected throughout the Site. Detectable TPH-g concentrations ranged from 78.2 µg/L in well MW-5 to 17,000 µg/L in well MW-1. In the more impacted wells MW-1 and MW-3, TPH-g has shown continued decreased trends at well MW-1 since January 2006, and at well MW-3 since September 2006. Historically, a capture zone has been established at the French drain; however, during the First Quarter 2007, increased TPH-g concentrations were observed at off-site wells MW-10 and MW-12. 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). TPH-g was detected at a high value east of the station building (at MW-6). TPH-g appears to be migrating off-site.

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

- In well MW-4R, toluene was below the laboratory reporting limit.
- In well MW-5, all BTEX analytes were below the laboratory reporting limit.
- In well MW-7, all BTEX analytes were below the laboratory reporting limit, except for ethylbenzene, which was detected at 6.83 µg/L.
- In well MW-10, the highest ethylbenzene was detected at 1,260 µg/L.
- In well EX-1, the highest toluene and total xylenes were detected at 1,190 µg/L and 2,880 µg/L, respectively.

- Benzene was detected at a high concentration of 1,400 µg/L in wells MW-1, MW-10, and EX-1.

Figure 5 displays the contour map of benzene concentrations in the groundwater. The majority of the benzene plume appears to be located in the vicinity of the USTs, at wells MW-1 and EX-1. A high benzene concentration was also detected off-site at well MW-10. Refer to Table 1 for benzene site concentration trends.

MtBE was below the laboratory reporting limit in wells MW-2, MW-4R, MW-6, and MW-7. Detectable MtBE concentrations ranged from 0.52 µg/L in well MW-5 to 1,150 µg/L in well MW-1. Figure 6 displays the contour map of MtBE concentrations in the groundwater. MtBE has only minimally impacted the Site's groundwater except for well MW-1.

However, MtBE has shown a decreased trend at well MW-1 since July 2005, except for a slight increase in September 2006. Refer to Table 1 for MtBE site concentration trends.

The laboratory report and chain of custody form for this monitoring event are included in Appendix C.

3.0 GROUNDWATER TREATMENT SYSTEM OPERATION

The treatment system began operating on December 9, 1999. Since startup, 3,528,090 gallons of groundwater have been treated and discharged, under the existing discharge permit (as of March 16, 2007), into the East Bay Municipal Utility District (EBMUD) sewer system.

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 downhole 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. The newer vessel was refurbished with new carbon; the 55-gallon carbon drum was also replaced. The former 2,000-pound vessel had become rusted due to 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.

Table 2 presents the total volume of treated groundwater and the groundwater analytical results. The table shows that all the effluent samples have remained

below the discharge limits set forth by EBMUD. The most current laboratory reports for the groundwater treatment system are included in Appendix D.

As of March 16, 2007, the treatment system has removed approximately 213.3 pounds of hydrocarbons and 86.5 pounds of MtBE. Figure 8 shows the approximate masses of TPH-g and MtBE removed from the impacted groundwater during the operation of the treatment system.

4.0 OPERATION OF AIR SPARGING SYSTEM

From February 22, 2006 to March 6, 2006, SOMA oversaw the installation of the air sparge system. The system 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 well MW-6. Figure 2 shows the locations of the air sparge wells. 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 2007 by the Bay Area Air Quality Management District.

Prior to installation of the air sparge system in November 2005, SOMA collected air samples from the previously existing SVE wells. Based on the 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 a greater vacuum at the more impacted SVE wells.

The air sparge system was initially started on March 15, 2006. However, due to the close proximity of the system to a residential area, the system was modified to reduce the noise level. As a result, a timer was installed on the compressor to control operation hours of the air sparge system and limit operation to daytime hours. Currently, the system is operating from 8 a.m. to 7 p.m. To further suppress the noise level, the existing blower unit, installed in 2000, was rebuilt and foam was placed around it to act as a noise suppressant.

To more effectively increase the 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. Since April 2007, SOMA has been in the process of restarting the remedial system.

As shown on Table 3, approximately 947.56 pounds of hydrocarbons as vapor have been removed from the impacted soil, as of November 7, 2006. Table 3 also outlines the history of the SVE system.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The findings of the First 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.
2. However, increased concentrations were observed at off-site well MW-10 during the First Quarter 2007. The increased concentrations at this well contradict the established historical offsite concentration trend. Further monitoring events are required to verify this data.
3. The bioattenuation study confirmed the occurrence of biodegradation beneath the Site. Based on this study, the affected areas appear to be in the vicinity of the USTs, around wells MW-1 and MW-3, as well as the eastern section of the Site, around well MW-6.
4. Based on the high TPH-g levels at these locations, the source area remains in the vicinity of wells MW-1, MW-3, and MW-6. However, decreasing trends in TPH-g, benzene, and MtBE concentrations have been observed at these wells during the last several quarterly groundwater monitoring events, except for a few deviations.
5. To increase the contaminant mass removal rate, SOMA installed an extraction well (EX-1) within the UST cavity in February 2007. Well EX-1 was monitored during this monitoring event. High TPH-g and BTEX concentrations were detected in EX-1. This further indicated a source region is still present at the UST cavity.
6. In general, the GAC and SVE systems have effectively reduced the contaminants beneath the Site. Since initial startup, approximately 213.3 pounds of hydrocarbons and 86.5 pounds of MtBE (as of March 16, 2007) have been removed from the groundwater. Approximately 947.56 pounds of petroleum hydrocarbons have been removed from the vadose zone.
7. Based on the reduction in mass removal of contaminants from the soil due to a decreasing unsaturated layer during rainy periods of the year, the SVE system was shut down in November 2006. Since April 2007, SOMA has been in the process of restarting the SVE system.

Based on the results of this monitoring event, SOMA recommends:

1. Continual operation of the pump-and-treat system to maintain the removal rate of the contaminant masses in the groundwater
2. Continual monitoring of the biodegradation parameters to determine whether the injection of concentrated solutions of terminal electron receptors into the groundwater, in the vicinity of the more contaminated wells, may enhance the biodegradation process
3. Continued quarterly monitoring programs to better understand the seasonal variations in the groundwater quality conditions
4. Restart of the SVE and Air Sparge remedial systems for the mass removal of contaminants in the soil in the unsaturated region
5. Activation of extraction well EX-1 by the installation of piping, electrical lines, and electrical equipment within the well. The discharged impacted groundwater from well EX-1 will be tied into the existing remedial system. The cleanup effort at well EX-1 should greatly reduce the contaminant level within the UST cavity.

6.0 REPORT LIMITATIONS

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

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

TABLES

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

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

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 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	

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

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-2	10/1/1994	98.58	15.36	83.22	NA	NA	NA	NA	NA	NA
	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	8.13	90.45	27,000	0.1	92	44	13	NA
	12/9/1996	98.58	11.67	86.91	6,200	11	7	2	14	ND
	4/10/1997	98.58	11.40	87.18	53,000	150	110	37	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	

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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-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
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

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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	

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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
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	

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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
	MW-5	10/2/1995	99.04	13.57	85.47	1,500	1	1	4	5
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

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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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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
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	

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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	

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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	

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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
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	

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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
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

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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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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	190
	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
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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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

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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	
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

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)
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	
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

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)
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
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

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)
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
EX-1	2/27/2007	40.51	9.05	31.46	15,900	1,400	1,190	725	2,880	185

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

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)
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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.

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes
		Reading (gallons)	(concentrations in ug/L)						
			MtBE ²	TPH-g	Benzene	Toluene			
2007									
March	3/16/2007	3,528,090	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<2.0 <2.0	
February	2/22/2007	3,510,560	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<2.0 <2.0	
	2/19/2007	3,508,300	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel						
January	1/16/2007	3,488,140	<0.5 1.37	<50 <50	<0.5 1.68	<2.0 <2.0	<0.5 1.25	<2.0 <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	
October	10/18/2006	3,447,850	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0	

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter Reading (gallons)	Lab Results For Effluent ¹ and GAC-1 (concentrations in ug/L)					
			MtBE ²	TPH-g	Benzene	Toluene	Ethyl benzene	Total Xylenes
September	9/27/2006	3,441,500	<0.5	<50	<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	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel					
	6/7/2006	3,379,880	<0.5 2.89	<50 <50	<0.5 5.3	<2.0 <2.0	<0.5 1.24	<1.0 4.91
May	5/18/2006	3,350,260	replaced existing 200 gallon holding tank with newer 200 gallon tank					
	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	Carbon Change-out of 2000 lb vessel and 55 gallon polishing 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

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes
		Reading (gallons)	(concentrations in ug/L)						
			MtBE ²	TPH-g	Benzene	Toluene			
2005									
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	Replaced existing 2000 lb carbon vessel with newer 2000 lb vessel, also replaced 55 gallon polishing 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 <0.5	<1.0 <1.0	
2005									
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	
May	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	

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes
		Reading	(concentrations in ug/L)						
		(gallons)	MtBE ²	TPH-g	Benzene	Toluene			
2005									
March	3/21/2005	2,874,170	<0.5 <0.5	<200 <200	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0	
February	2/14/2005	2,828,000	55 Gallon Drum Changed Out						
	2/7/2005	2,819,000	<5.0 <5.0	<50 <50	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	
January	1/19/2005	2,775,000	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel						
	1/3/2005	2,730,480	3.6 3.8	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
2004									
December	12/6/2004	2,667,620	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.0 <1.0	
November	11/8/2004	2,631,600	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
October	10/13/2004	2,606,420	< 2.0 <2.0	< 50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
September	9/13/2004	2,594,390	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<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 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
July	7/13/2004	2,568,830	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
	7/21/2004	2,564,710	55 Gallon Drum Changed Out						

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes
		Reading	(concentrations in ug/L)						
		(gallons)	MtBE ²	TPH-g	Benzene	Toluene			
2004									
June	6/14/2004	2,549,470	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
May	5/26/2004	2,530,000	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel						
	5/10/2004	2,488,760	Semi Annual Treatment System Meeting With Ebmud						
	5/17/2004	2,518,910	Replaced 55-gallon polishing vessel and restarted the system						
	5/5/2004	2,500,650	Carbon Changed Out and 55 Gallon Drum Changed Out						
	5/3/2004	2,497,350	< 2.0 < 2.0	< 50 < 50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	
April	4/15/2004	2,436,190	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
March	3/17/2004	2,376,200	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel						
February	2/24/2004	2,276,770	< 5.0 <5.0	< 5.0 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
January	1/27/2004	2,165,220	< 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	2,116,720	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1				Ethyl benzene	Total Xylenes	
		Reading	(concentrations in ug/L)						
		(gallons)	MtBE ²	TPH-g	Benzene	Toluene			
2003									
December	12/8/2003	2,092,330	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
November	11/17/2003	2,087,670	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	11/3/2003	2,079,460	< 5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
October	10/13/2003	2,073,060	5.3 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	10/1/2003	2,072,610	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel						
September	9/15/2003	2,056,910	<5.0 6	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	9/2/2003	2,040,040	<5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
August	8/19/2003	2,021,040	<5.0 <5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 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	
	7/9/2003	1,990,260	< 5.0 36	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1				Ethyl benzene	Total Xylenes	
		Reading (gallons)	(concentrations in ug/L)						
			MtBE ²	TPH-g	Benzene	Toluene			
2003									
June	6/18/2003	1,978,560	Carbon Change-out of 2000 lb vessel and 55 gallon polishing vessel						
	6/10/2003	1,972,780	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
May	5/21/2003	1,951,830	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	5/1/2003	1,918,270	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
April	4/11/2003	1,882,440	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
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	replaced 55-gallon polishing vessel with new 55 gallon carbon drum						
	2/19/2003	1,791,720	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
January	1/27/2003	1,733,500	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	1/2/2003	1,675,600	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes
		Reading (gallons)	(concentrations in ug/L)						
			MtBE ²	TPH-g	Benzene	Toluene			
2002									
December	12/10/2002	1,672,870	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
November	11/22/2002	1,668,650	< 5.0 < 5.0	< 50 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	
	11/13/2002	1,664,780	replaced gasket on top of 2000 lb GAC vessel, slight leak 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	
September	9/19/2002	1,653,600	< 5 < 5	< 50 < 50	< 5 < 5	< 5 < 5	< 5 < 5	< 5 < 5	
August	8/23/2002	1,641,650	1 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
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 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
May	5/30/2002	1,571,630	< 0.5 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
	5/20/2002	1,548,000	removed newly installed compressor, installed another compressor						
	5/8/2002	1,538,850	installed new compressor						
	5/1/2002	1,529,650	installed new 55 gallon GAC Vessel						
April	4/24/2002	1,528,740	< 0.5 < 0.5	< 50 < 50	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	< 0.5 < 0.5	
	4/1/2002	1,478,500	repaired valve plate assembly on compressor						

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1				Ethyl benzene	Total Xylenes	
		Reading	(concentrations in ug/L)						
		(gallons)	MtBE ²	TPH-g	Benzene	Toluene			
2002									
March	3/25/2002	1,478,420	performed carbon change-out on treatment system						
	3/18/2002	NR	replaced piston on compressor						
	3/14/2002	1,478,330	compressor not building up pressure						
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 NA	
2001									
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	compressor not working, repaired compressor						
			NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter Reading (gallons)	Lab Results For Effluent ¹ and GAC-1 (concentrations in ug/L)				Ethyl benzene	Total Xylenes
			MtBE ²	TPH-g	Benzene	Toluene		
2001								
May	5/30/2001	1,205,198	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	NA	
	5/17/2001	1,182,360	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	
	4/6/2001	1,065,540	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	
2001								
March	3/29/2001	1,036,330	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	
system was re-started								
	3/21/2001	1,036,070	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	
belt replaced on compressor								
	3/17/2001	1,035,100	NA	NA	NA	NA	NA	NA
			NA	NA	NA	NA	NA	

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes
		Reading	(concentrations in ug/L)						
		(gallons)	MtBE ²	TPH-g	Benzene	Toluene			
2001									
March	3/13/2001	1,032,500	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	
	3/2/2001	996,520	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	3/1/2001	NR	system re-started after carbon change-out						
February	2/28/2001	NR	Carbon Change-out was performed on GAC-1, washed algae from holding tank, cleaned 2000 lb GAC, re-started system						
	2/10/2001	975,490	System shut down for maintenance and cleaning.						
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 ND	ND ND	ND ND	
	11/1/2000	842,000	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
2000									
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	totalizer changed at meter reading of 775,000						

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes
		Reading	(concentrations in ug/L)						
		(gallons)	MtBE ²	TPH-g	Benzene	Toluene			
2000									
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	
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	
			compressor stopped, system shut down 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	performed a carbon change-out on GAC-1						
2000									
March	3/31/2000	NR	replaced GAC-2 with a special GAC designed for removal of MtBE						
	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	transfer overheated, repaired pump, restarted system 3/6/00						

Table 2
Total Volume of Water Treated, Historical Operational Data, and Effluent and GAC-1 Analytical Results
3609 International Boulevard, Oakland, California

Month	Date	Meter	Lab Results For Effluent ¹ and GAC-1					Ethyl benzene	Total Xylenes
		Reading (gallons)	(concentrations in ug/L)						
			MtBE ²	TPH-g	Benzene	Toluene			
2000									
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 replaced with 2,000 lb GAC unit second polishing GAC was 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	
Pumping began on December 6, 1999									

Notes:

- 1 Effluent is equivalent to 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

Table 3
Total Mass of Petroleum Hydrocarbons Removed
by the Vapor Extraction System & Historical Operational Data
3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)
		Influent	Effluent					
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

Table 3
Total Mass of Petroleum Hydrocarbons Removed
by the Vapor Extraction System & Historical Operational Data
3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)
		Influent	Effluent					
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

Table 3
Total Mass of Petroleum Hydrocarbons Removed
by the Vapor Extraction System & Historical Operational Data
3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)
		Influent	Effluent					
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

Table 3
Total Mass of Petroleum Hydrocarbons Removed
by the Vapor Extraction System & Historical Operational Data
3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)
		Influent	Effluent					
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 malfunction		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 malfunction		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 to rainy season and low influent 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 drums changed-out						
9/22/2003	1:30 PM	7	0.2	88	334.25	49,944,972	1,764,840	3.19

Table 3
Total Mass of Petroleum Hydrocarbons Removed
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3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)
		Influent	Effluent					
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 shut-down due to rainy season and low influent 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 changed-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

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3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)
		Influent	Effluent					
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 shut-down due to rainy season and low influent readings							
2005								
4/11/2005	system re-started, all four vapor phase carbon drums replaced with new carbon							
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

Table 3
Total Mass of Petroleum Hydrocarbons Removed
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3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)	
		Influent	Effluent						
2005									
10/6/2005	3:00 PM	all 4 vapor phase carbon drums replaced with new carbon drums							
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	all 4 vapor phase carbon drums replaced with new carbon drums							
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 wells installed onsite							
2006									
1/6/2006	10:00 AM	System shut-down due to rainy conditions							
2/22/2006-3/6/2006		Air Sparge and Additional SVE system installed							
4/8/2006		Existing vacuum eductor, which was built and installed in 2000, was rebuilt. To reduce the noise level, foam was placed around the vacuum eductor to act as a noise suppressant							
4/14/2006	2:00 PM	system re-started, all 4 vapor phase carbon drums replaced with new carbon 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	Additional vacuum eductor installed in series with the existing blower							
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	

Table 3
Total Mass of Petroleum Hydrocarbons Removed
by the Vapor Extraction System & Historical Operational Data
3609 International Boulevard, Oakland, California

Date	Time	PID (ppmv)		Flow Rate (ft ³ /min)	Time Elapsed (Hours)	Air Flow (Liters)	Air Flow (ft ³)	Mass Removed ¹ (Pounds)	
		Influent	Effluent						
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	System shut-down due to rainy conditions							
Total Mass of Petroleum Hydrocarbons Removed =								947.56	
Average Daily Removal Rate (pounds / day)=								0.41	

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 startup.
 - 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 replacement
 - ⁷ system down for electrical repair
 - ⁸ Carbon change-out of three drums, moved new effluent drum on 10/25/01 to GAC-
 - ⁹ system shut-down due to high 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 taken
- Data for October 28, 2005 based on lab data

NC: Not Calculated

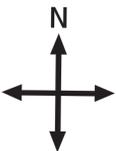
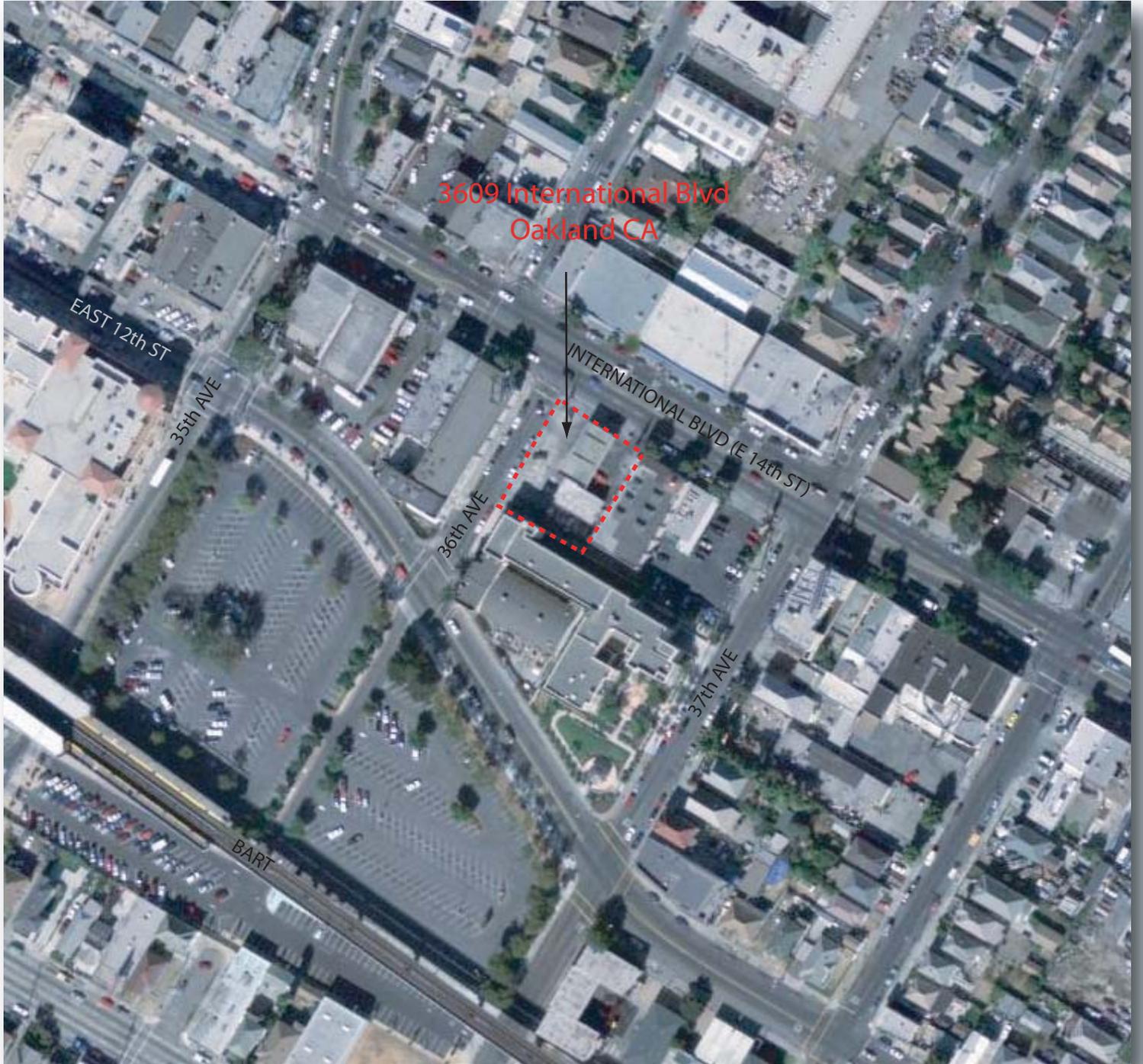
Calculations

Airflow: Flowrate (ft³/min) * 60 min * Time Elapsed (hrs) * 28.3 liters/ft³

Mass Removed: Time Elapsed (hrs) * 60 min * Flowrate (ft³/min) * (28.3 m³/ft³) *

((PID reading * (102 grams TPH-g /mole) * (1 mole / 24.4 L))*(1/1000 m³)) * (1 lb/454 grams)

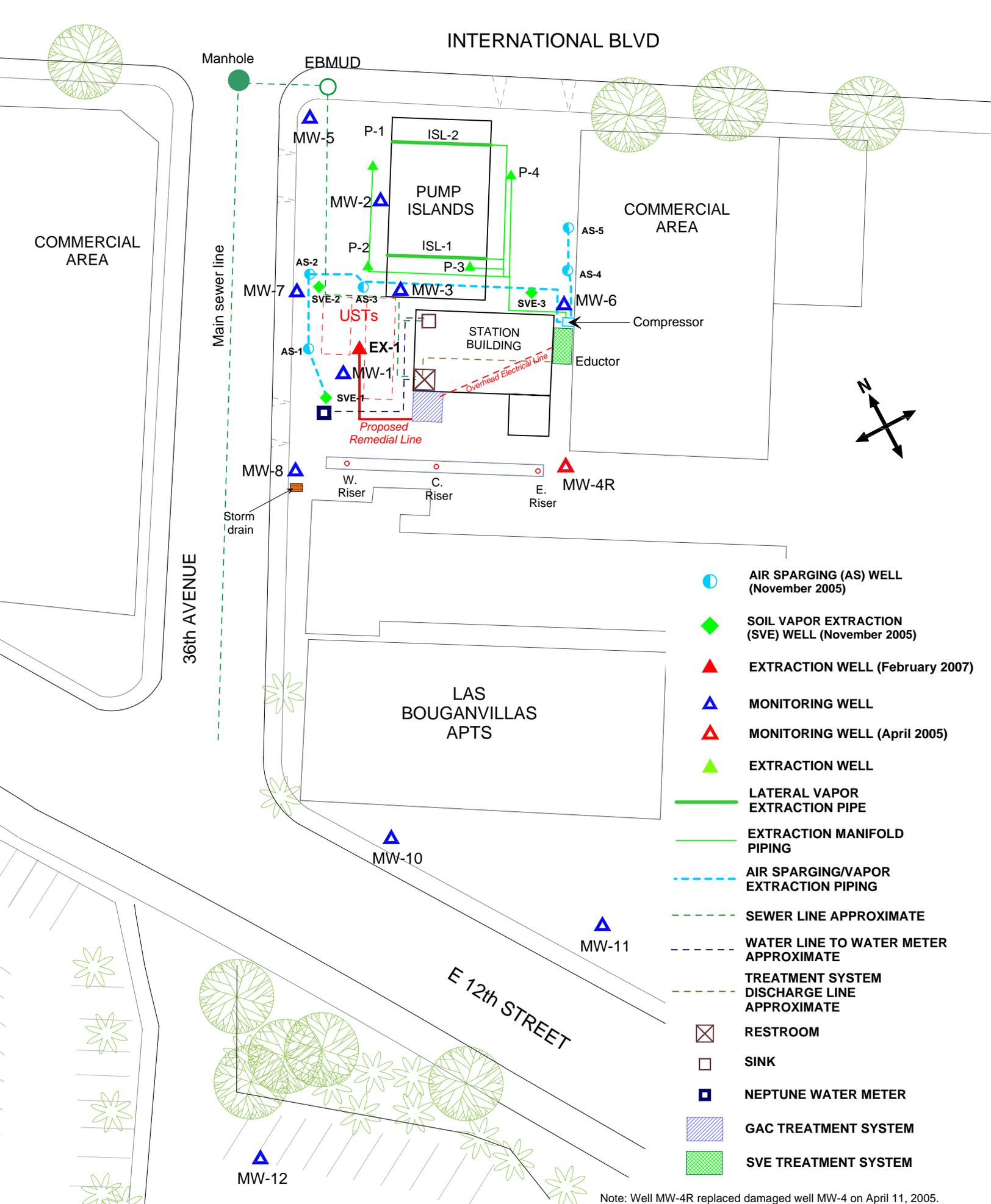
FIGURES



approximate scale in feet



Figure 1: Site vicinity map.



Note: Well MW-4R replaced damaged well MW-4 on April 11, 2005.

approximate scale in feet



Figure 2: Site map showing locations of air sparging wells, groundwater monitoring wells, additional soil vapor wells, GAC system, & SVE system.

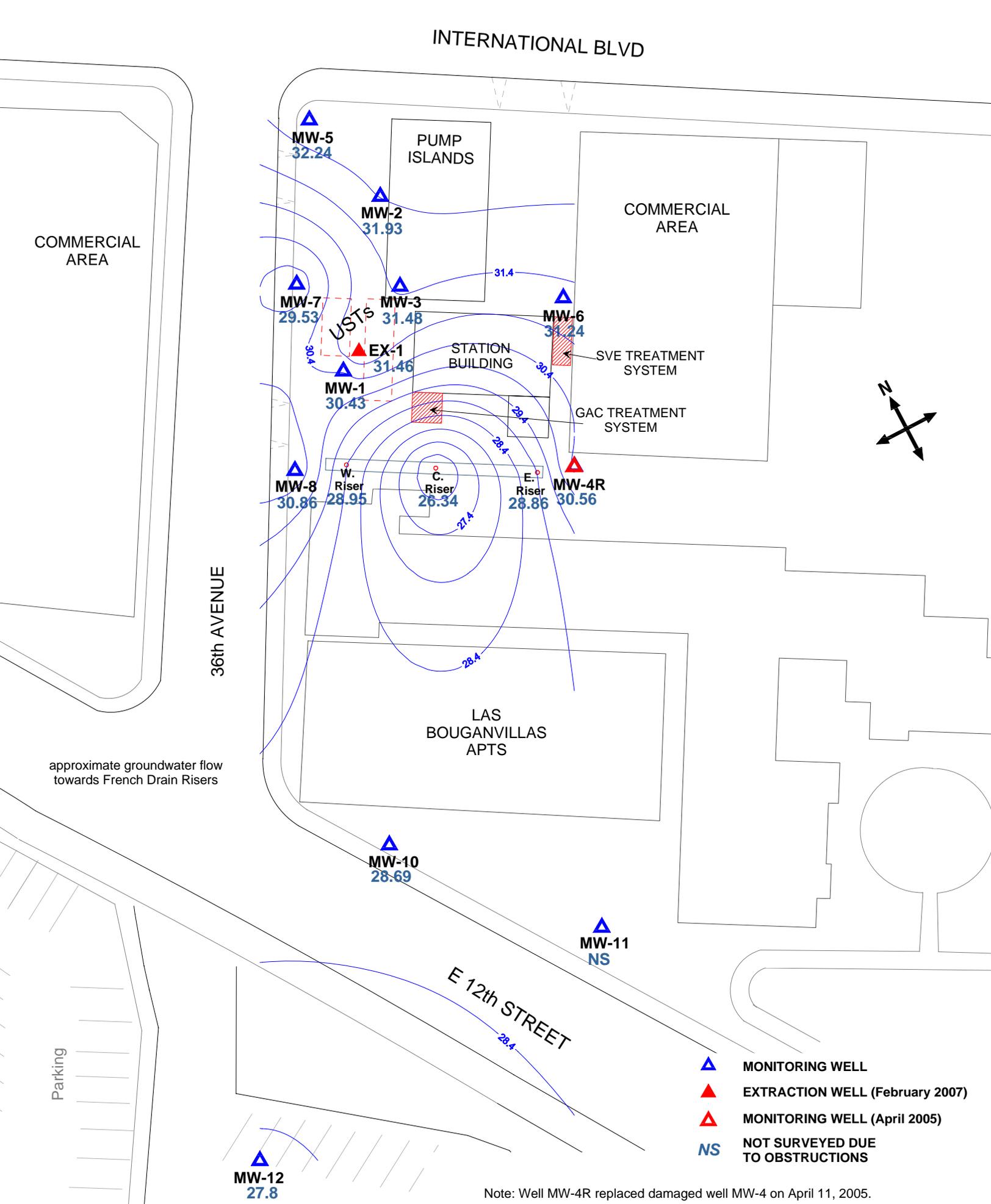
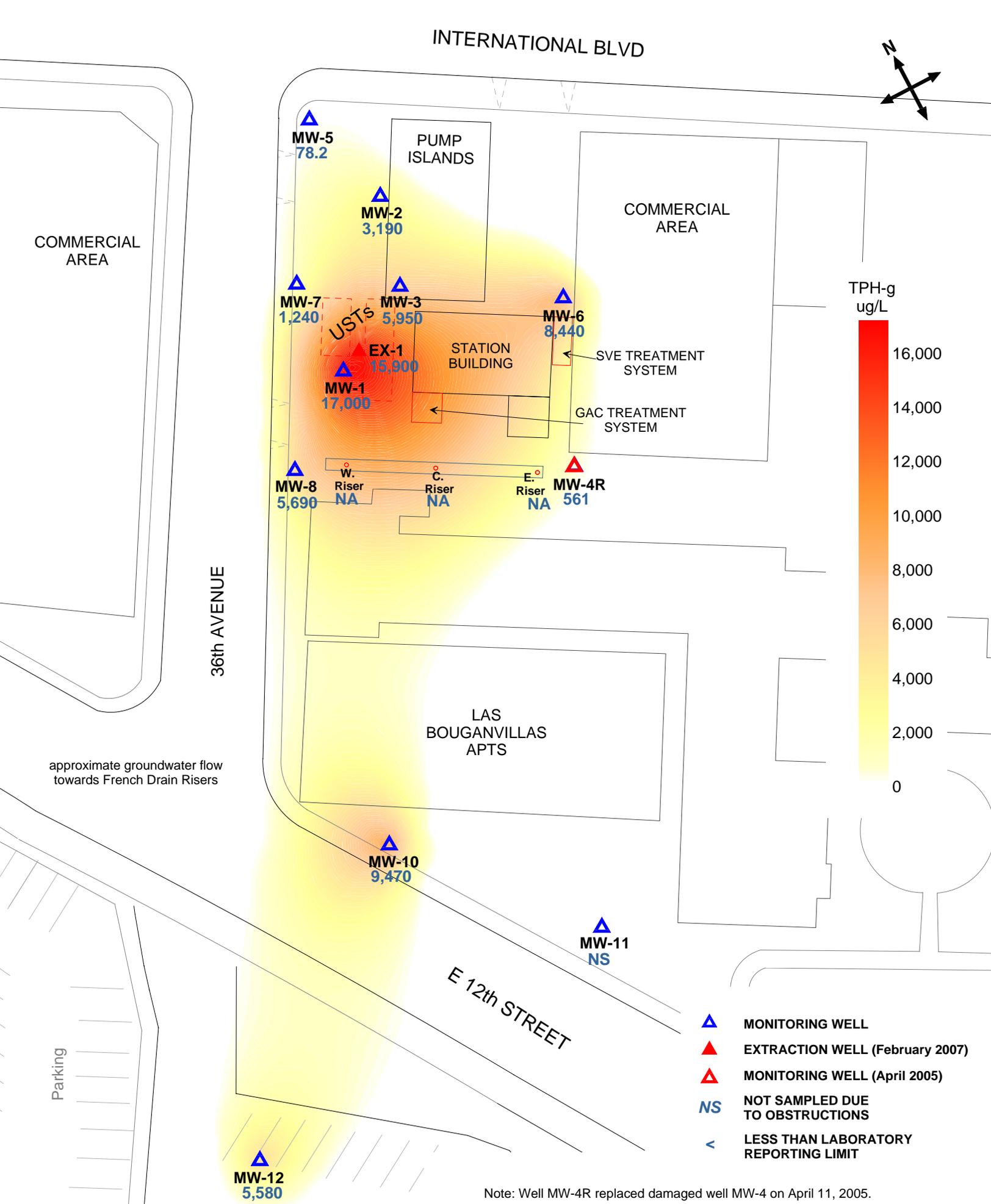


Figure 3: Groundwater elevation contour map in feet. February 26, 2007.



approximate scale in feet
 0 20 40

Figure 4: Contour map of TPH-g concentrations in the groundwater. February 26 and 27, 2007.



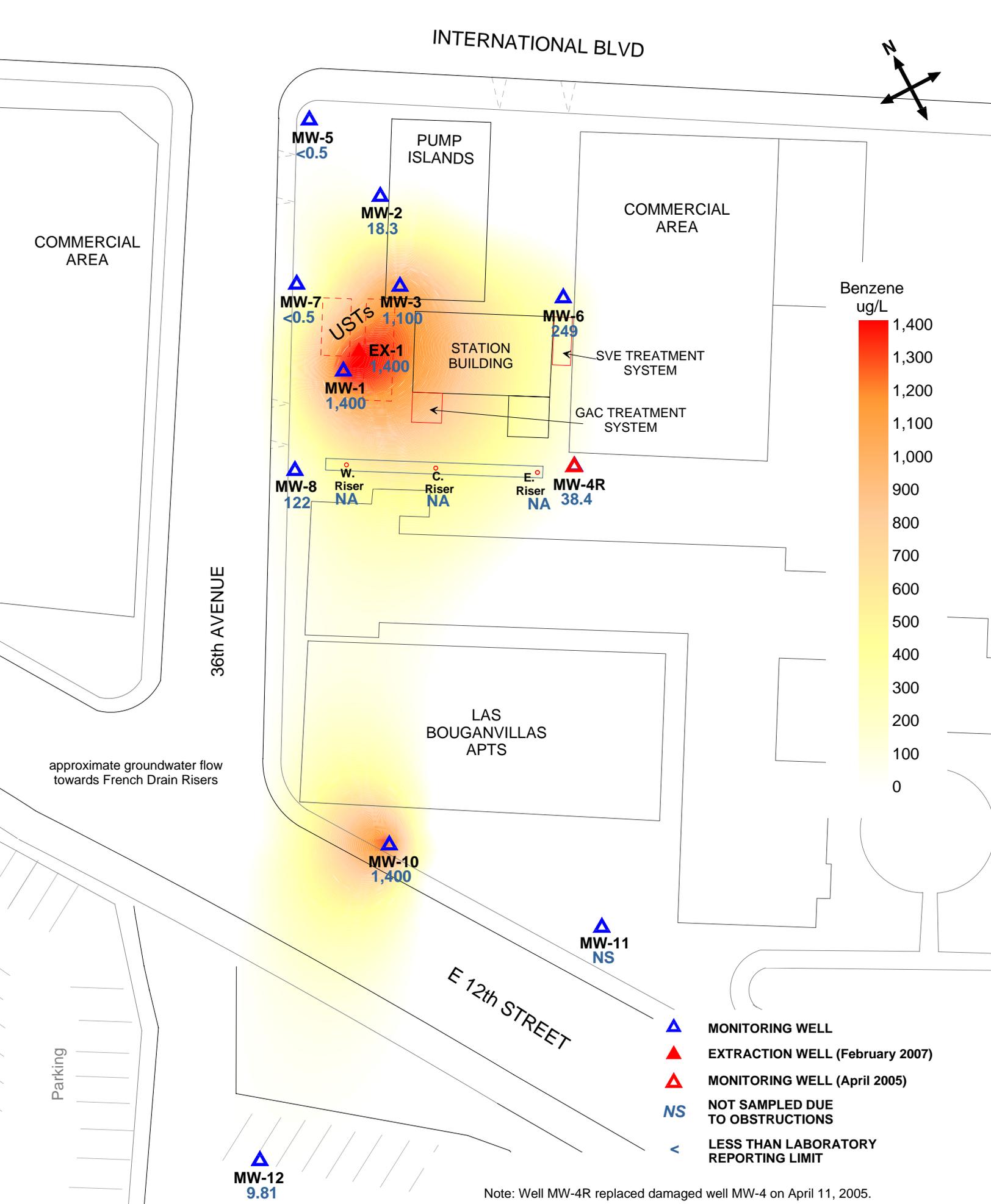
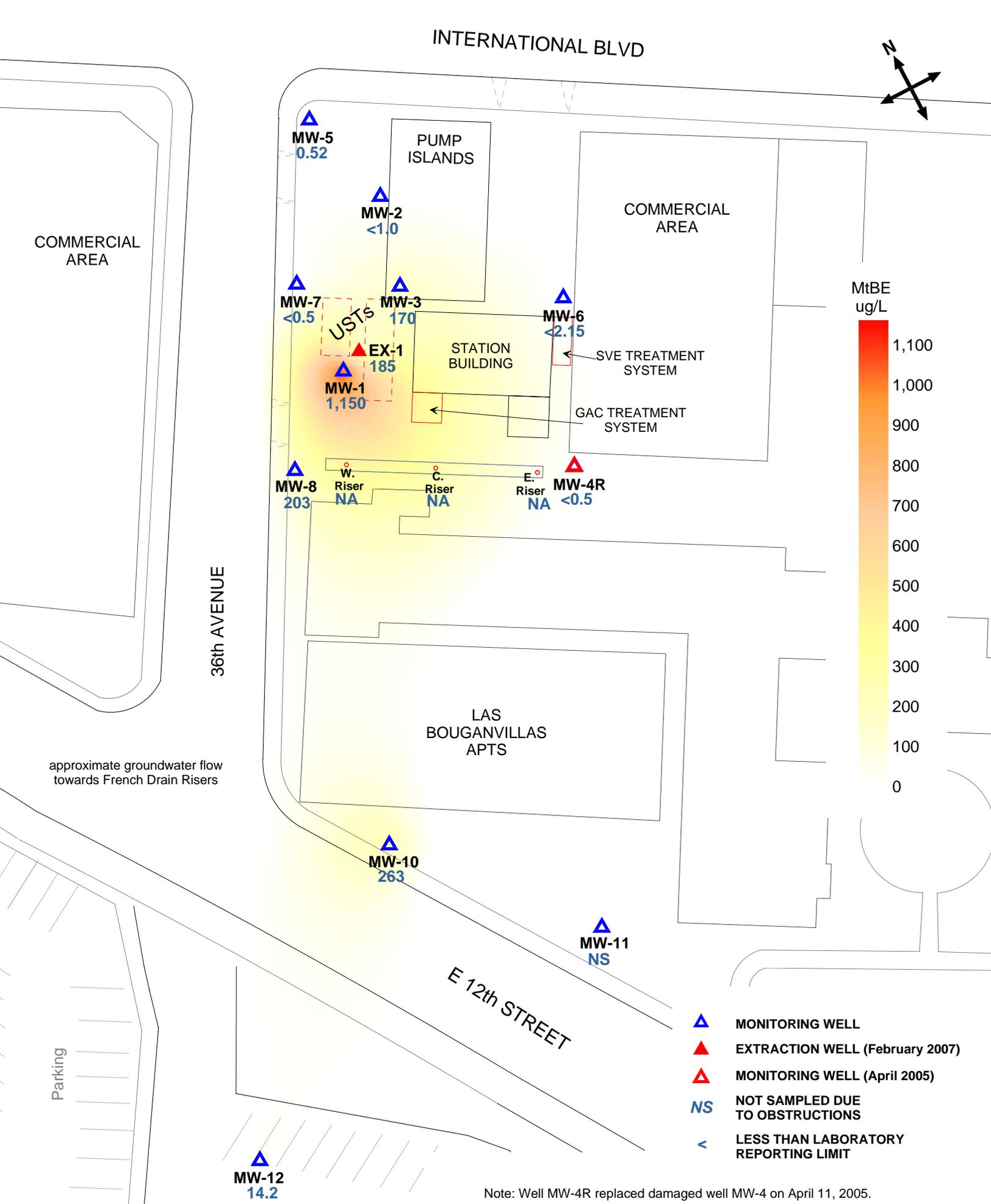


Figure 5: Contour map of benzene concentrations in the groundwater. February 26 and 27, 2007.



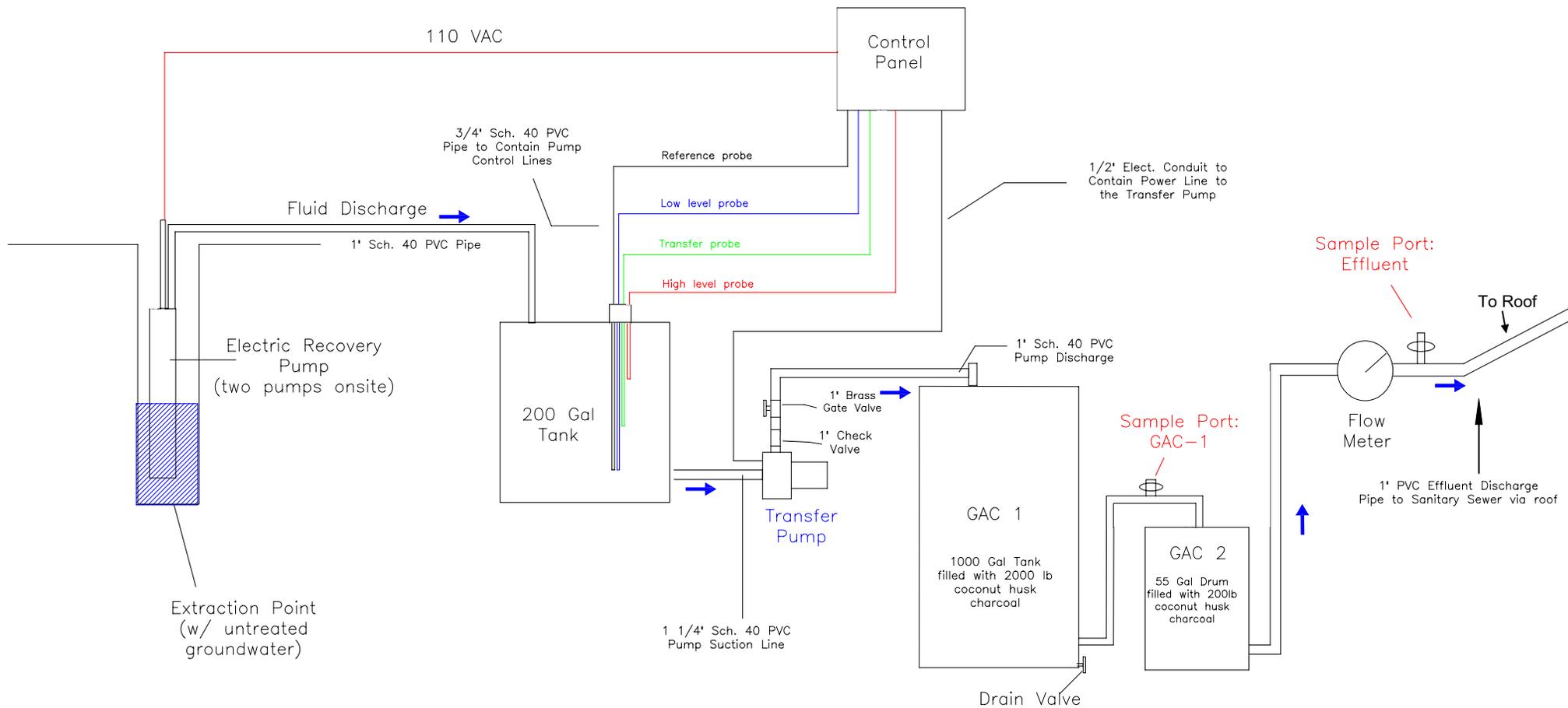


approximate scale in feet
0 20 40

Figure 6: Contour map of MtBE concentrations in the groundwater (EPA Method 8260B). February 26 and 27, 2007.



Note: Well MW-4R replaced damaged well MW-4 on April 11, 2005.



(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



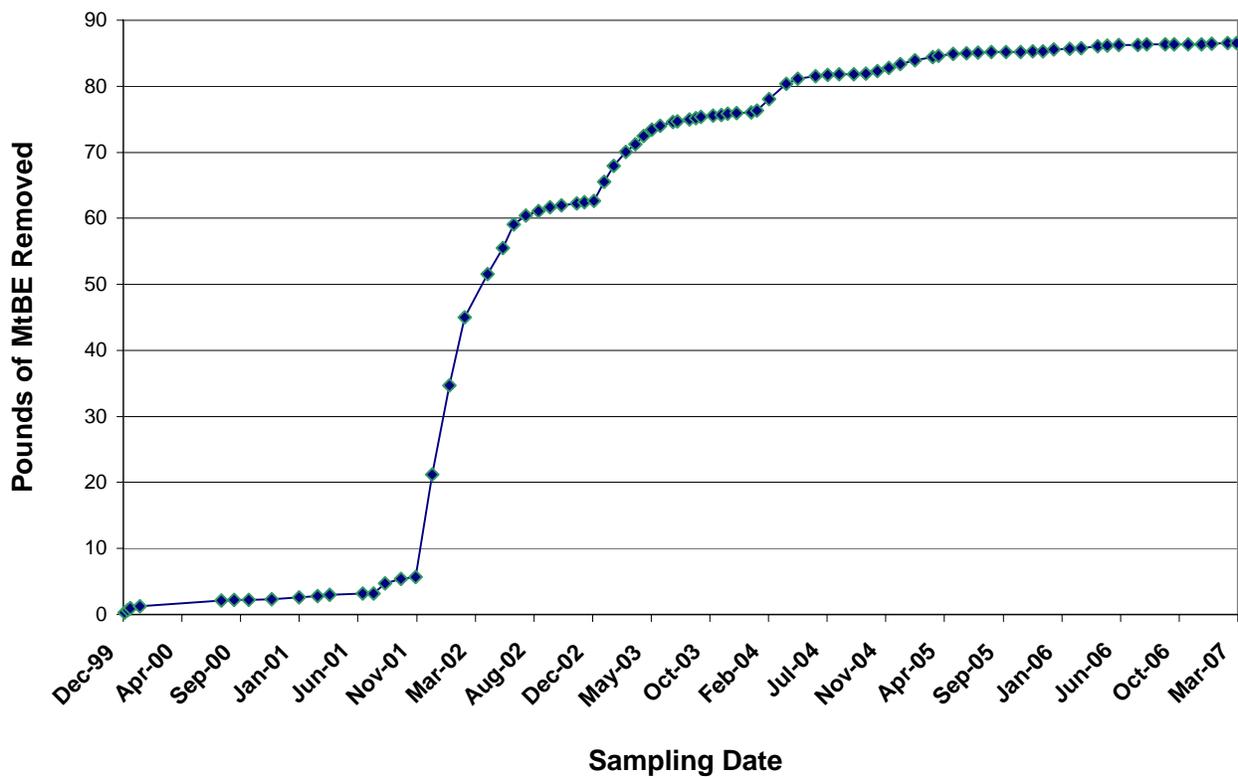
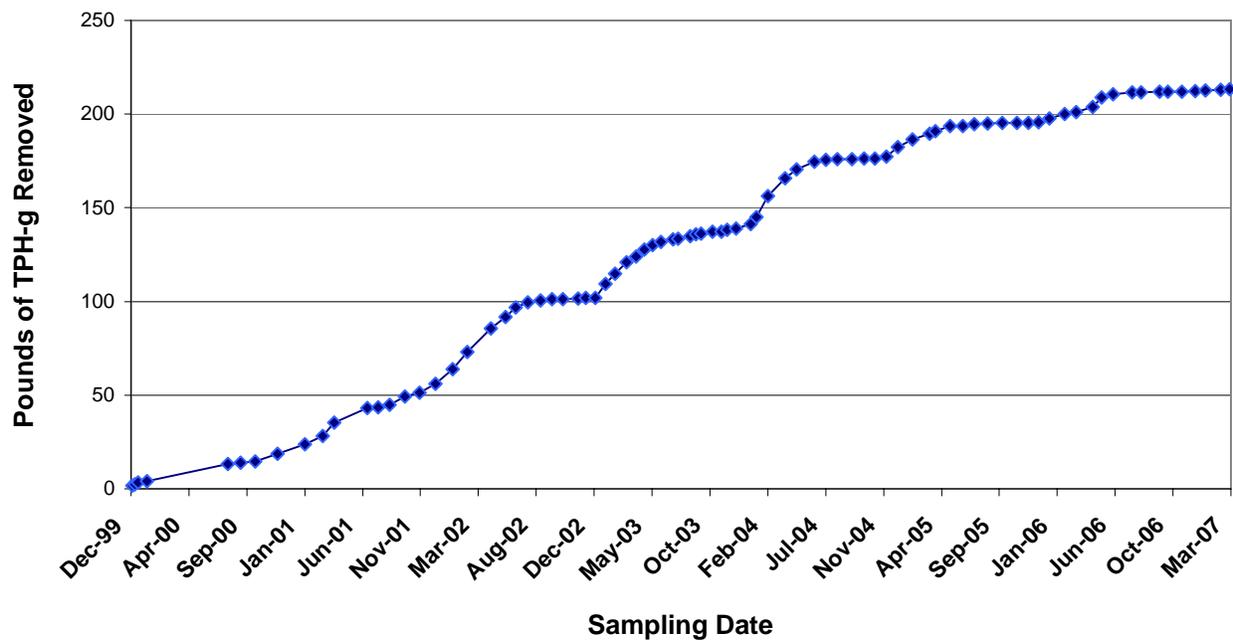


Figure 8. Cumulative mass of TPH-g and MtBE removed from groundwater since the installation of the treatment system.

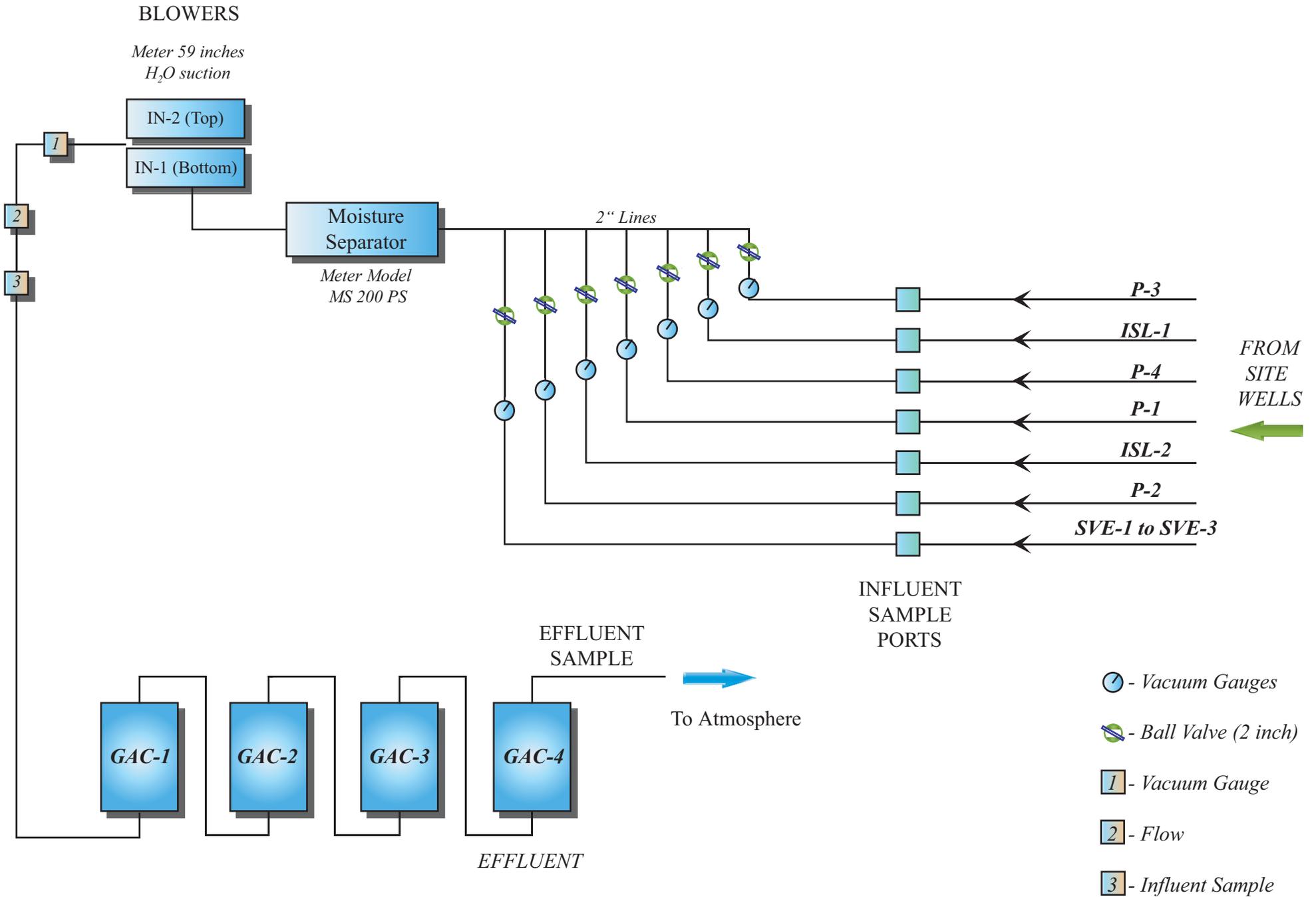


Figure 9: Block Diagram of SVE System

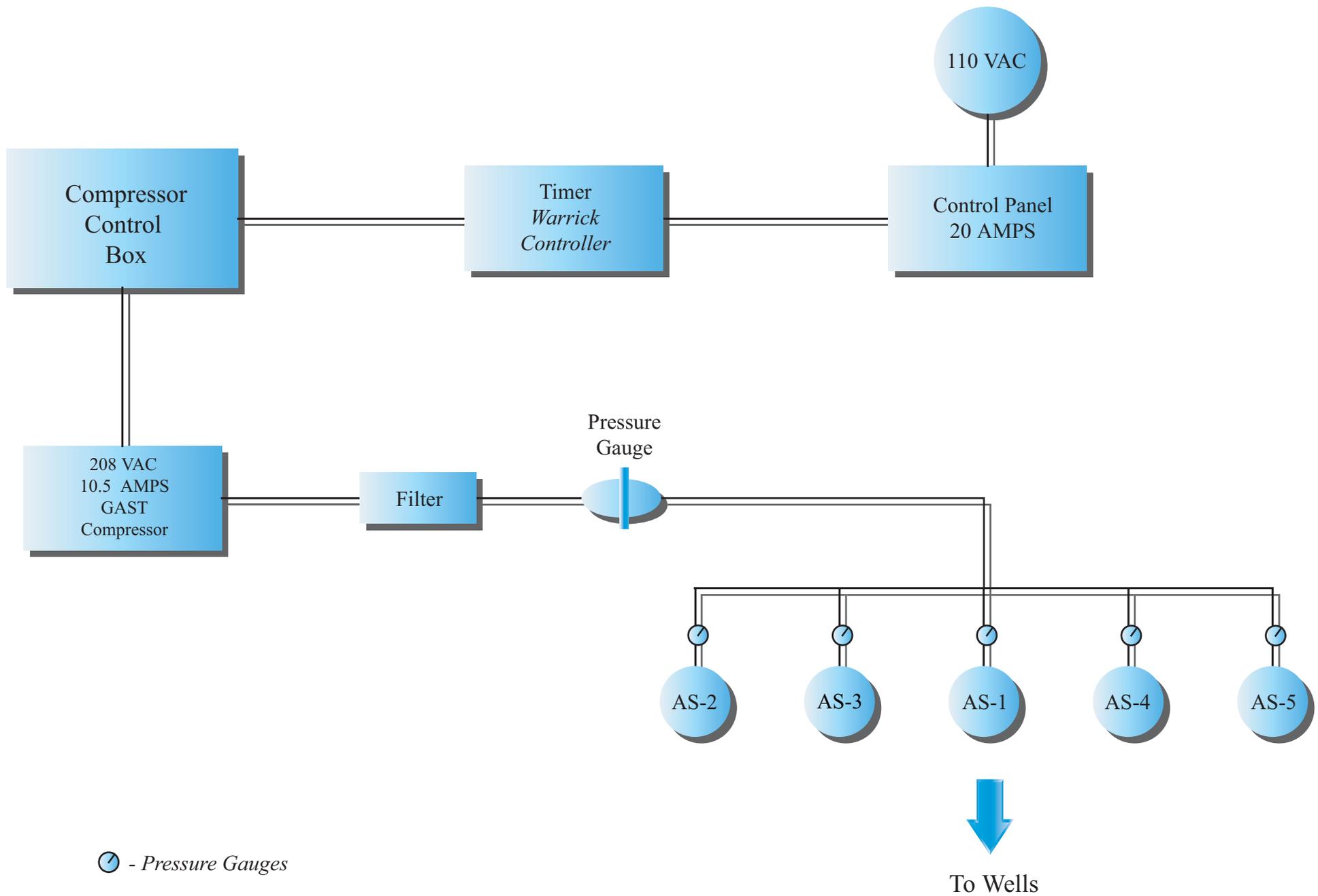


Figure 10: Block diagram of the Air Sparge System

APPENDIX A

SOMA's Groundwater Monitoring Procedures

Field Activities

On February 26, 2007, eight on-site monitoring wells (MW-1 to MW-8), two off-site monitoring wells (MW-10 and MW-12), three on-site French drain risers, and extraction well EX-1 were measured for depth to groundwater. On February 26 and 27, 2007, additional field measurements and grab groundwater samples were collected from all the monitoring wells. A grab groundwater sample was collected from well EX-1; however, no field measurements other than water depths were recorded at this well.

This monitoring event was conducted in accordance with the procedures and guidelines of the Regional Water Quality Control Board, San Francisco Bay Region.

Prior to measuring groundwater depth at each well, equalization with the surrounding aquifer was achieved. At each well, the well cap was removed and the pressure was then allowed to dissipate. This allowed for a more stable water table level within the well. After a few minutes, once the water level in the well stabilized, the depth to groundwater in each monitoring well was measured from the top of the casing to the nearest 0.01 foot using an electric sounder. Since the French drain is part of the remedial system, the risers were measured with the system still operating.

The top of the casing elevation data and the depth to groundwater in each monitoring well and riser were used to calculate the groundwater elevation. Kier and Wright Civil Engineers Surveyors, Inc. surveyed the wells and risers on August 9, 2002. At the time of the survey, monitoring well MW-11 could not be accessed due to obstacles preventing the proper use of surveying equipment; therefore, this well was not surveyed. The top of casing elevations were based on the survey data measured at this time. The elevation data was based on a datum of 14.20 NAVD88. The new survey was conducted to comply with an Electronically Deliverable Format request made by the State Water Resources Control Board Database.

Harrington Surveys, Inc. surveyed well MW-4R on April 20, 2005. The elevation data for well MW-4R was referenced from wells MW-5 and MW-7. PLS Surveys, Inc. surveyed well EX-1 on March 19, 2007. The elevation data for well EX-1 was referenced from wells MW-7 and MW-8. All survey data is presented in Appendix B.

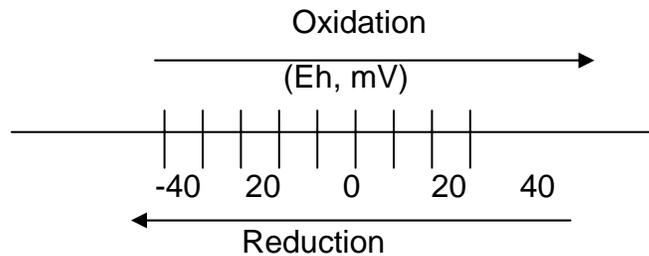
Prior to collecting samples, each well was purged using a battery-operated, 2-inch-diameter pump (Model ES-60 DC). During purging, the groundwater was measured for parameters such as dissolved oxygen (DO), pH, temperature, electrical conductivity (EC), and oxygen-reduction potential (ORP) using a Hanna HI-9828 multi-parameter instrument. Turbidity was measured using a Hanna HI-98703 portable turbidimeter. The equipment was 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 ions 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 m-volt. 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^- , MnO_2 , $Fe(OH)_3$, SO_4^{2-} 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 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.



The purging of the wells continued until the parameters for DO, pH, temperature, EC, turbidity, and redox stabilized, or three casing volumes were purged.

Once stabilization occurred, the groundwater samples were also tested on-site for ferrous iron (Fe^{+2}), nitrate (NO_3^-), and sulfate (SO_4^{-2}) concentrations.

Fe^{+2} , NO_3^- , and SO_4^{-2} were measured colorimetrically using the Hach Colorimeter Model 890. The Hach Model 890 Colorimeter is 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.

Detailed field measurements are shown in Appendix B.

For sampling purposes, after purging a disposable polyethylene bailer was used to collect sufficient samples from each monitoring well for laboratory analyses. The groundwater sample was transferred into three 40-mL VOA vials and preserved with hydrochloric acid. The vials were then sealed to prevent development of air bubbles within the headspace. After the groundwater samples were collected, they were placed on ice and maintained at 4°C in a cooler. A chain of custody form was written and placed with the samples. On February 27, 2007, SOMA's field crew delivered the groundwater sample package to Pacific Analytical Laboratory in Alameda, California.

Laboratory Analysis

Pacific Analytical Laboratory, a California state-certified laboratory, analyzed the groundwater samples for TPH-g, BTEX and MtBE, which were prepared using EPA Method 5030B and measured using EPA Method 8260B.

Appendix B

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

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

TABLE OF ELEVATIONS & COORDINATES

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

MW-7	2109368.62	6064025.48	39.94	Casing
			40.54	Vault
MW-8	2109321.68	6064000.47	39.38	Casing
			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



PLS Surveys, Inc.
2220 Livingston Street, Suite 202
Oakland, CA 94606
510.261.0900

PRINTED: 3/19/2007
9:24 AM

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

CONTROLLING POINTS FROM 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



**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
MW-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

**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.



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-1
 Casing Diameter: 2 inch
 Depth of Well: 30.00 ft
 Top of Casing Elevation: 40.11 ft
 Depth to Groundwater: 9.68 ft
 Groundwater Elevation: 30.43 ft
 Water Column Height: 20.32 ft
 Purged Volume: 9 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: February 26-27, 2007
 Sampler: Tony Perini
 Brian Tims

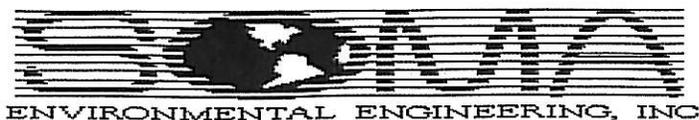
Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: No Yes Describe cloudy
 Sheen: No Yes Describe slight rainbow sheen
 Odor: No Yes Describe petro odor

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
1226 PM	started pumping well									
1229 PM	3	3.52	6.50	14.79	965	40.9	-94.3			
1232 PM	6	3.54	6.82	16.88	913	21.9	-91.3			
1235 PM	9	2.66	6.27	17.17	984	43.5	-83.7			
1238 PM	samples							3.30	19.8	0

Notes:



Well No.: MW-2
 Casing Diameter: 4 inch
 Depth of Well: 31.00 ft
 Top of Casing Elevation: 40.71 ft
 Depth to Groundwater: 8.78 ft
 Groundwater Elevation: 31.93 ft
 Water Column Height: 22.22 ft
 Purged Volume: 23 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: February ~~26~~-27, 2007
 Sampler: Tony Perini
 Brian Tims

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: No Yes Describe muddy

Sheen: No Yes Describe _____

Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
730 AM	started									
932 AM	2	4.98	6.68	16.54	736	675	+24.7			
937 AM	7	4.15	6.58	15.22	746	56.5	+43.5			
942 AM	13	3.56	6.42	15.43	411	40.3	+52			
947 AM	18	2.99	6.45	18.12	695	26	+3.7			
951 AM	23	3.29	6.42	17.51	703	32	-19.3			
954 AM	sampled							0.20	7.1	15

Notes:



Well No.: MW-3
 Casing Diameter: 4 inch
 Depth of Well: 31.50 ft
 Top of Casing Elevation: 40.91 ft
 Depth to Groundwater: 9.43 ft
 Groundwater Elevation: 31.48 ft
 Water Column Height: 22.07 ft
 Purged Volume: 18 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: February 26-27, 2007
 Sampler: Tony Perini
 Brian Tims

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: No Yes Describe _____

Sheen: No Yes Describe light rainbow sheen

Odor: No Yes Describe slight petro odor

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
1145 AM	started									
1149 AM	4	3.44	6.50	17.50	971	12.5	-97			
1153 AM	9	2.38	6.24	18.11	1022	11.9	-99			
1158 AM	14	2.94	6.26	18.12	1046	12.5	-97			
1202 PM	18	2.86	6.26	18.28	1040	10.3	-97			
1205 PM	sampled							3.30	0	

Notes:



Well No.: MW-4R
 Casing Diameter: 2 inch
 Depth of Well: 76 ft
 Top of Casing Elevation: 40.34 ft
 Depth to Groundwater: 9.78 ft
 Groundwater Elevation: 30.56 ft
 Water Column Height: 16.22 ft
 Purged Volume: 11 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: February 26-27, 2007
 Sampler: Tony Perini
 Brian Tims

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: No Yes Describe _____

Sheen: No Yes Describe _____

Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
2:23 P.M.			Start Purging							
2:25 P.M.	2	2.61	6.78	16.90	620	46.69	+50			
2:30 P.M.	8	2.24	6.60	17.62	620	52	+43			
2:35 P.M.	11	2.73	6.60	17.41	647	24.64	+42			
2:38				SAMPLED				0.7%	35	24

Notes:



Well No.: MW-5
 Casing Diameter: 2 inch
 Depth of Well: 26.25 ft
 Top of Casing Elevation: 41.16 ft
 Depth to Groundwater: 8.92 ft
 Groundwater Elevation: 32.24 ft
 Water Column Height: 17.33 ft
 Purged Volume: 10 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: February 26-27, 2007
 Sampler: Tony Perini
 Brian Tims

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: No Yes Describe _____

Sheen: No Yes Describe _____

Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
253 P.M.										
257 P.M.	4	2.79	6.60	17.64	804	35.51	76.7			
3:00 P.M.	7	2.44	6.56	18.44	768	10.38	736.7			
3:03 P.M.	10	2.01	6.42	18.56	793	6.57	78.9	0.39	0.2	37
3:05 P.M.										

Notes:



Well No.: MW-6
 Casing Diameter: 2 inch
 Depth of Well: 25.00 ft
 Top of Casing Elevation: 40.92 ft
 Depth to Groundwater: 9.68 ft
 Groundwater Elevation: 31.24 ft
 Water Column Height: 15.32 ft
 Purged Volume: 10 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: February ~~28~~-27, 2007
 Sampler: Tony Perini
 Brian Tims

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: No Yes Describe cloudy
 Sheen: No Yes Describe _____
 Odor: No Yes Describe slight petrol

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
<u>1045 AM</u>										
<u>10 49</u>	<u>4</u>	<u>2.97</u>	<u>6.50</u>	<u>16.80</u>	<u>736</u>	<u>23.4</u>	<u>-140</u>			
<u>10 52</u>	<u>7</u>	<u>2.98</u>	<u>6.35</u>	<u>17.88</u>	<u>723</u>	<u>32.2</u>	<u>-109</u>			
<u>10 55</u>	<u>10</u>	<u>3.07</u>	<u>6.28</u>	<u>18.21</u>	<u>725</u>	<u>24.9</u>	<u>-100</u>			
<u>10 58</u>			<u>SAMPLED</u>					<u>2.29</u>	<u>7.4</u>	<u>62</u>

Notes:



Well No.: MW-7
 Casing Diameter: 2 inch
 Depth of Well: 26.00 ft
 Top of Casing Elevation: 39.94 ft
 Depth to Groundwater: 10.41 ft
 Groundwater Elevation: 29.53 ft
 Water Column Height: 15.59 ft
 Purged Volume: 10 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: February 26-~~27~~, 2007
 Sampler: Tony Perini
 Brian Tims

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: No Yes Describe _____

Sheen: No Yes Describe _____

Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
129 PM	1 bucket									
131 PM	2	2.23	6.63	18.17	678	21.36	+8.4			
138 PM	8	4.05	6.66	16.78	689	87	-2.7			
141 PM	10	4.24	6.64	17.79	697	34.77	+3.5			
143			SAMPLED					19	50	

Notes:



Well No.: MW-8
 Casing Diameter: 2 inch
 Depth of Well: 26.50 ft
 Top of Casing Elevation: 39.38 ft
 Depth to Groundwater: 8.52 ft
 Groundwater Elevation: 30.86 ft
 Water Column Height: 17.98 ft
 Purged Volume: 10 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: February 26-27, 2007
 Sampler: Tony Perini
 Brian Tims

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: No Yes Describe cloudy
 Sheen: No Yes Describe _____
 Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
1014 AM	started									
1017 AM	3	3.59	6.76	13.80	684	68.4	-59.6			
1020 AM	7	3.31	6.42	14.13	749	19	-95.9			
1023 AM	10	2.38	6.33	16.04	780	11.3	-102			
1025 AM			SAMPLED					3.02	7.8	0

Notes:



Well No.: MW-10
 Casing Diameter: 2 inch
 Depth of Well: 23.70 ft
 Top of Casing Elevation: 36.71 ft
 Depth to Groundwater: 8.02 ft
 Groundwater Elevation: 28.69 ft
 Water Column Height: 15.38 ft
 Purged Volume: 8 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: February 26-27, 2007
 Sampler: Tony Perini
 Brian Tims

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: No Yes Describe clay
 Sheen: No Yes Describe slight petro
 Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ²⁺ mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
100 PM	<u>2</u>									
102 PM	<u>2</u>	<u>5.25</u>	<u>6.81</u>	<u>13.30</u>	<u>495</u>	<u>5.57</u>	<u>+23</u>			
108 PM	<u>8</u>	<u>3.91</u>	<u>6.53</u>	<u>14.07</u>	<u>680</u>	<u>10.1</u>	<u>+18.2</u>			
1:10 PM			<u>SAMPLED</u>					<u>0.29</u>	<u>29.7</u>	<u>46</u>

Notes:



Well No.: MW-12
 Casing Diameter: 4 inch
 Depth of Well: 30.00 ft
 Top of Casing Elevation: 36.84 ft
 Depth to Groundwater: 9.04 ft
 Groundwater Elevation: 27.80 ft
 Water Column Height: 20.96 ft
 Purged Volume: 20 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: February 26-27, 2007
 Sampler: Tony Perini
 Brian Tims

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: No Yes Describe _____

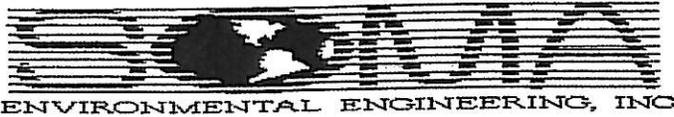
Sheen: No Yes Describe _____

Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	Fe ⁺² mg/L	NO ₃ ⁻ mg/L	SO ₄ ⁻² mg/L
1220 PM		started purging well								
1222 PM	2	3.24	8.12	14.72	1229	18.60	-125			
1225 PM	5	3.70	7.04	14.64	848	9.77	-87			
1230 PM	10	3.68	6.87	16.06	782	13.7	-72			
1235 P.M	15	3.46	6.98	13.82	781	7.07	-73			
1240 PM	20	2.47	6.98	17.09	730	5.57	-59.7			
12:43			SAMPLED					2.3	6.9	5

Notes:



Well No.: *riser F.D. center*
 Casing Diameter: 4 inch
 Depth of Well: _____ ft
 Top of Casing Elevation: 39.35 ft
 Depth to Groundwater: 13.01 ft
 Groundwater Elevation: 26.34 ft
 Water Column Height: _____ ft
 Purged Volume: _____ gallons
not purged

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: *FEBRUARY 26, 2007*
 Sampler: Tony Perini
BTJ/TMS

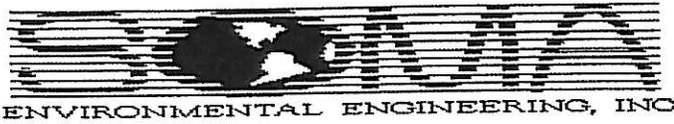
Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe _____
 Sheen: No Yes Describe _____
 Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	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 center riser part of remedial system
 only water measurement taken*



Well No.: *rise F.O. East*
 Casing Diameter: 4 inch
 Depth of Well: _____ ft
 Top of Casing Elevation: 40.06 ft
 Depth to Groundwater: 11.20 ft
 Groundwater Elevation: 28.86 ft
 Water Column Height: _____ ft
 Purged Volume: _____ gallons
not purged

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: *FEBRUARY 26, 2007*
 Sampler: Tony Perini
Brian HMS

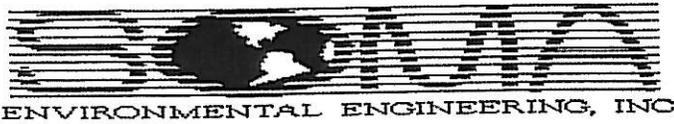
Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe _____
 Sheen: No Yes Describe _____
 Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	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 eastern riser part of French drain. however no active pump is within riser, only water measurements taken



Well No.: *riSER F.O. west*
 Casing Diameter: 4 inch
 Depth of Well: _____ ft
 Top of Casing Elevation: 39.16 ft
 Depth to Groundwater: 10.21 ft
 Groundwater Elevation: 28.95 ft
 Water Column Height: _____ ft
 Purged Volume: _____ gallons
not purged

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd, Oakland, CA
 Date: *FEBRUARY 26, 2007*
 Sampler: Tony Perini
Brian Timis

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump *not sampled*

Color: No Yes Describe _____
 Sheen: No Yes Describe _____
 Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	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 river part of remedial system only water measurement taken

Appendix C

Chain of Custody Form and Laboratory Report
for the
First Quarter 2007 Monitoring Event

CHAIN OF CUSTODY FORM

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

PAL
 Login# 7020014

Project No: 2331				Sampler: John Lehman / Mehran Nowroozi <i>Tony Perini / Brian Torres</i>								Analyses/Method								
Project Name: 3609 International Blvd Oakland				Report To: Tony Perini								TPHg, BTEX, MIBE 8260B								
				Company: SOMA Environmental Engineering, Inc.																
Turnaround Time: Standard				Tel: 925-734-6400 Fax: 925-734-6401																
		Sampling Date/Time		Matrix			# of Containers	Preservatives				Field Notes								
Lab No.	Sample ID	Date	Time	Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE									
	MW-1	2/27/07	1238 PM	X			3 VOAS	X			X	Grab Sample	X							
	MW-2	2/27/07	954 AM	X			3 VOAS	X			X	↓	X							
	MW-3	2/27/07	1205 PM	X			3 VOAS	X			X		X							
	MW-4R	2/26/07	238 PM	X			3 VOAS	X			X		X							
	MW-5	2/26/07	305 PM	X			3 VOAS	X			X		X							
	MW-6	2/27/07	1058 AM	X			3 VOAS	X			X		X							
	MW-7	2/26/07	193 PM	X			3 VOAS	X			X		X							
	MW-8	2/27/07	1025 AM	X			3 VOAS	X			X		X							
	MW-10	2/26/07	110 AM	X			3 VOAS	X			X		X							
	MW-11 Ex-1	2/27/07	1155 AM	X			3 VOAS	X			X		X							
	MW-12	2/26/07	1243 PM	X			3 VOAS	X			X		X							
Sampler Remarks:				Relinquished by:				Date/Time:		Received by:				Date/Time:						
EDF REQUIRED				<i>Tony Perini</i>				2/27/07 1:55 PM		<i>James Zingis</i>				2/27/07 1:55 PM						

05 March 2007

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

RE: 3609 International Blvd, Oakland

Work Order Number: 7020014

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,



Maiid Akhavan
Laboratory Director



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

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

Reported:
05-Mar-07 11:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	7020014-01	Water	27-Feb-07 12:38	27-Feb-07 15:05
MW-2	7020014-02	Water	27-Feb-07 09:54	27-Feb-07 15:05
MW-3	7020014-03	Water	27-Feb-07 12:05	27-Feb-07 15:05
MW-4R	7020014-04	Water	26-Feb-07 14:38	27-Feb-07 15:05
MW-5	7020014-05	Water	26-Feb-07 15:05	27-Feb-07 15:05
MW-6	7020014-06	Water	27-Feb-07 10:58	27-Feb-07 15:05
MW-7	7020014-07	Water	26-Feb-07 13:43	27-Feb-07 15:05
MW-8	7020014-08	Water	27-Feb-07 10:25	27-Feb-07 15:05
MW-10	7020014-09	Water	26-Feb-07 13:10	27-Feb-07 15:05
EX-1	7020014-10	Water	27-Feb-07 11:55	27-Feb-07 15:05
MW-12	7020014-11	Water	26-Feb-07 12:43	27-Feb-07 15:05



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

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

Reported:
05-Mar-07 11:24

Volatile Organic Compounds by EPA Method 8260B
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (7020014-01RE1) Water Sampled: 27-Feb-07 12:38 Received: 27-Feb-07 15:05									
Gasoline (C6-C12)	17000	550	ug/l	11	BB72801	27-Feb-07	28-Feb-07	EPA 8260B	
Benzene	1400	5.50	"	"	"	"	"	"	
Ethylbenzene	989	5.50	"	"	"	"	"	"	
m&p-Xylene	1120	22.0	"	"	"	"	"	"	
o-xylene	463	5.50	"	"	"	"	"	"	
Toluene	452	22.0	"	"	"	"	"	"	
MTBE	1150	5.50	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		92.4 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		106 %		70-130	"	"	"	"	
MW-2 (7020014-02RE1) Water Sampled: 27-Feb-07 09:54 Received: 27-Feb-07 15:05									
Gasoline (C6-C12)	3190	100	ug/l	2	BB72801	27-Feb-07	28-Feb-07	EPA 8260B	
Benzene	18.3	1.00	"	"	"	"	"	"	
Ethylbenzene	396	1.00	"	"	"	"	"	"	
m&p-Xylene	352	4.00	"	"	"	"	"	"	
o-xylene	114	1.00	"	"	"	"	"	"	
Toluene	49.2	4.00	"	"	"	"	"	"	
MTBE	ND	1.00	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		92.2 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		103 %		70-130	"	"	"	"	
MW-3 (7020014-03) Water Sampled: 27-Feb-07 12:05 Received: 27-Feb-07 15:05									
Gasoline (C6-C12)	5950	550	ug/l	11	BB72801	27-Feb-07	27-Feb-07	EPA 8260B	
Benzene	1100	5.50	"	"	"	"	"	"	
Ethylbenzene	531	5.50	"	"	"	"	"	"	
m&p-Xylene	365	22.0	"	"	"	"	"	"	
o-xylene	135	5.50	"	"	"	"	"	"	
Toluene	116	22.0	"	"	"	"	"	"	
MTBE	170	5.50	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		95.0 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		99.2 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		96.4 %		70-130	"	"	"	"	

Pacific Analytical Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

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

Reported:
05-Mar-07 11:24

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4R (7020014-04) Water Sampled: 26-Feb-07 14:38 Received: 27-Feb-07 15:05									
Gasoline (C6-C12)	561	50.0	ug/l	1	BB72801	27-Feb-07	27-Feb-07	EPA 8260B	
Benzene	38.4	0.500	"	"	"	"	"	"	
Ethylbenzene	41.3	0.500	"	"	"	"	"	"	
m&p-Xylene	8.53	2.00	"	"	"	"	"	"	
o-xylene	1.14	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.2 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		95.8 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		95.8 %		70-130	"	"	"	"	
MW-5 (7020014-05) Water Sampled: 26-Feb-07 15:05 Received: 27-Feb-07 15:05									
Gasoline (C6-C12)	78.2	50.0	ug/l	1	BB72801	27-Feb-07	27-Feb-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	0.520	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		91.2 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		95.8 %		70-130	"	"	"	"	
MW-6 (7020014-06RE1) Water Sampled: 27-Feb-07 10:58 Received: 27-Feb-07 15:05									
Gasoline (C6-C12)	8440	215	ug/l	4.3	BB72801	27-Feb-07	28-Feb-07	EPA 8260B	
Benzene	249	2.15	"	"	"	"	"	"	
Ethylbenzene	697	2.15	"	"	"	"	"	"	
m&p-Xylene	250	8.60	"	"	"	"	"	"	
o-xylene	66.8	2.15	"	"	"	"	"	"	
Toluene	36.3	8.60	"	"	"	"	"	"	
MTBE	ND	2.15	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		90.6 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		103 %		70-130	"	"	"	"	

Pacific Analytical Laboratory

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

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

Reported:
05-Mar-07 11:24

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (7020014-07) Water Sampled: 26-Feb-07 13:43 Received: 27-Feb-07 15:05									
Gasoline (C6-C12)	1240	50.0	ug/l	1	BB72801	27-Feb-07	27-Feb-07	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	6.83	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	2.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		95.6 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		102 %		70-130	"	"	"	"	
MW-8 (7020014-08RE1) Water Sampled: 27-Feb-07 10:25 Received: 27-Feb-07 15:05									
Gasoline (C6-C12)	5690	100	ug/l	2	BB72801	27-Feb-07	28-Feb-07	EPA 8260B	
Benzene	122	1.00	"	"	"	"	"	"	
Ethylbenzene	455	1.00	"	"	"	"	"	"	
m&p-Xylene	29.3	4.00	"	"	"	"	"	"	
o-xylene	4.32	1.00	"	"	"	"	"	"	
Toluene	15.1	4.00	"	"	"	"	"	"	
MTBE	203	1.00	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		120 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		86.4 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		113 %		70-130	"	"	"	"	
MW-10 (7020014-09) Water Sampled: 26-Feb-07 13:10 Received: 27-Feb-07 15:05									
Gasoline (C6-C12)	9470	550	ug/l	11	BB72801	27-Feb-07	27-Feb-07	EPA 8260B	
Benzene	1400	5.50	"	"	"	"	"	"	
Ethylbenzene	1260	5.50	"	"	"	"	"	"	
m&p-Xylene	32.6	22.0	"	"	"	"	"	"	
o-xylene	ND	5.50	"	"	"	"	"	"	
Toluene	29.3	22.0	"	"	"	"	"	"	
MTBE	263	5.50	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		111 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		85.8 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		110 %		70-130	"	"	"	"	



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

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

Reported:
 05-Mar-07 11:24

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EX-1 (7020014-10RE1) Water Sampled: 27-Feb-07 11:55 Received: 27-Feb-07 15:05									
Gasoline (C6-C12)	15900	550	ug/l	11	BB72801	27-Feb-07	01-Mar-07	EPA 8260B	
Benzene	1400	5.50	"	"	"	"	"	"	
Ethylbenzene	725	5.50	"	"	"	"	"	"	
m&p-Xylene	1590	22.0	"	"	"	"	"	"	
o-xylene	1290	5.50	"	"	"	"	"	"	
Toluene	1190	22.0	"	"	"	"	"	"	
MTBE	185	5.50	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		88.0 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		102 %		70-130	"	"	"	"	
MW-12 (7020014-11) Water Sampled: 26-Feb-07 12:43 Received: 27-Feb-07 15:05									
Gasoline (C6-C12)	5580	50.0	ug/l	1	BB72801	27-Feb-07	27-Feb-07	EPA 8260B	
Benzene	9.81	0.500	"	"	"	"	"	"	
Ethylbenzene	8.52	0.500	"	"	"	"	"	"	
m&p-Xylene	17.8	2.00	"	"	"	"	"	"	
o-xylene	13.5	0.500	"	"	"	"	"	"	
Toluene	11.0	2.00	"	"	"	"	"	"	
MTBE	14.2	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.6 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		88.2 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		105 %		70-130	"	"	"	"	



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

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

Reported:
05-Mar-07 11:24

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 BB72801 - EPA 5030 Water MS

Blank (BB72801-BLK1)

Prepared & Analyzed: 28-Feb-07

Surrogate: 4-Bromofluorobenzene	42.6		ug/l	50.0		85.2	70-130			
Surrogate: Dibromofluoromethane	54.5		"	50.0		109	70-130			
Surrogate: Perdeuterotoluene	47.2		"	50.0		94.4	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	"							
Toluene	ND	2.00	"							
MTBE	ND	0.500	"							

LCS (BB72801-BS1)

Prepared & Analyzed: 28-Feb-07

Surrogate: 4-Bromofluorobenzene	53.1		ug/l	50.0		106	70-130			
Surrogate: Dibromofluoromethane	53.1		"	50.0		106	70-130			
Surrogate: Perdeuterotoluene	55.0		"	50.0		110	70-130			
Gasoline (C6-C12)	1920	50.0	"	2000		96.0	70-130			
Benzene	77.5	0.500	"	100		77.5	70-130			
Toluene	105	2.00	"	100		105	70-130			
MTBE	98.6	0.500	"	100		98.6	70-130			

LCS Dup (BB72801-BSD1)

Prepared & Analyzed: 28-Feb-07

Surrogate: 4-Bromofluorobenzene	48.9		ug/l	50.0		97.8	70-130			
Surrogate: Dibromofluoromethane	50.4		"	50.0		101	70-130			
Surrogate: Perdeuterotoluene	49.6		"	50.0		99.2	70-130			
Gasoline (C6-C12)	1820	50.0	"	2000		91.0	70-130	5.35	20	
Benzene	96.8	0.500	"	100		96.8	70-130	22.1	20	QR-02
Toluene	97.8	2.00	"	100		97.8	70-130	7.10	20	
MTBE	110	0.500	"	100		110	70-130	10.9	20	



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

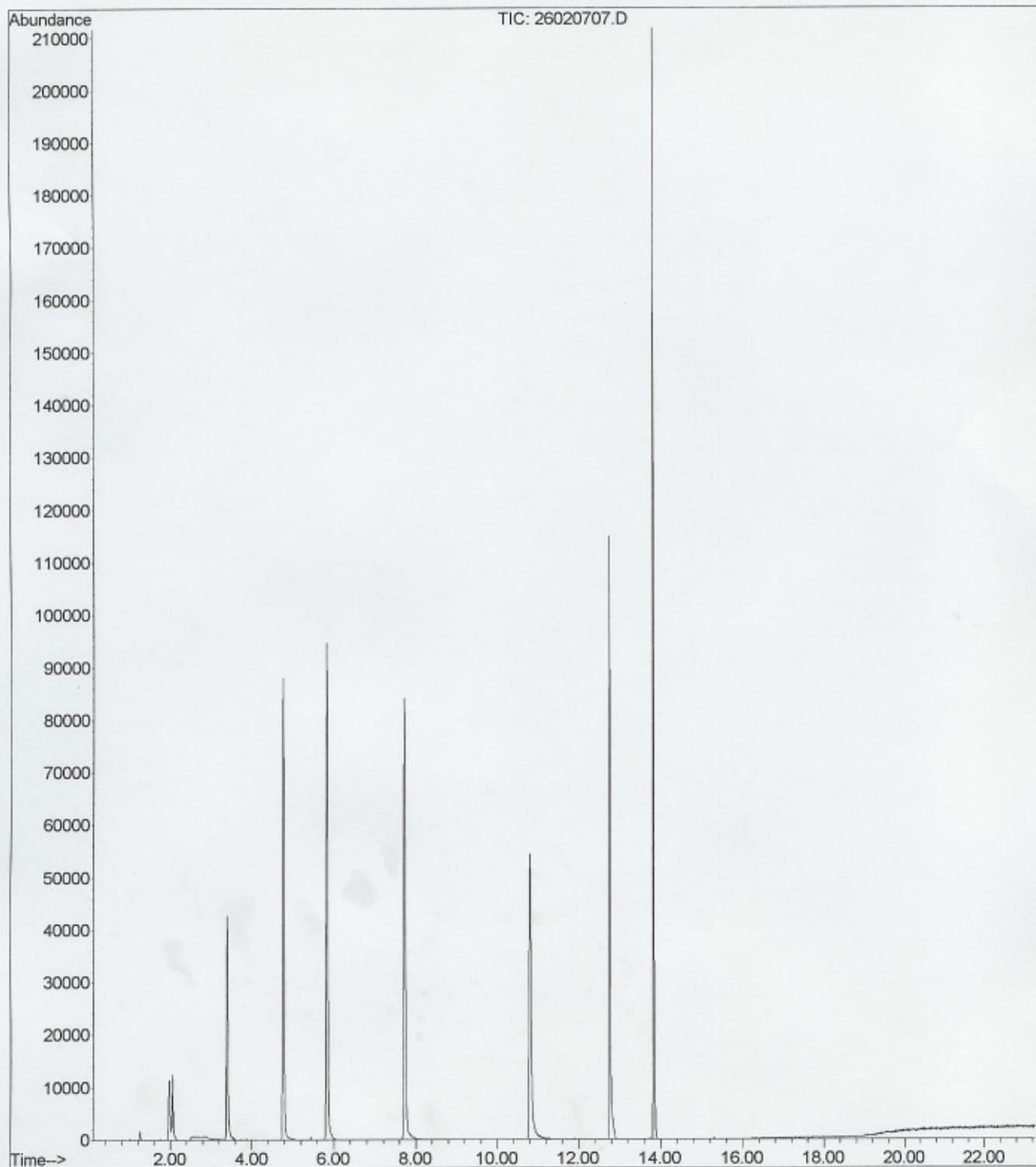
Project: 3609 International Blvd, Oakland
Project Number: 2331
Project Manager: Mansour Sepehr

Reported:
05-Mar-07 11:24

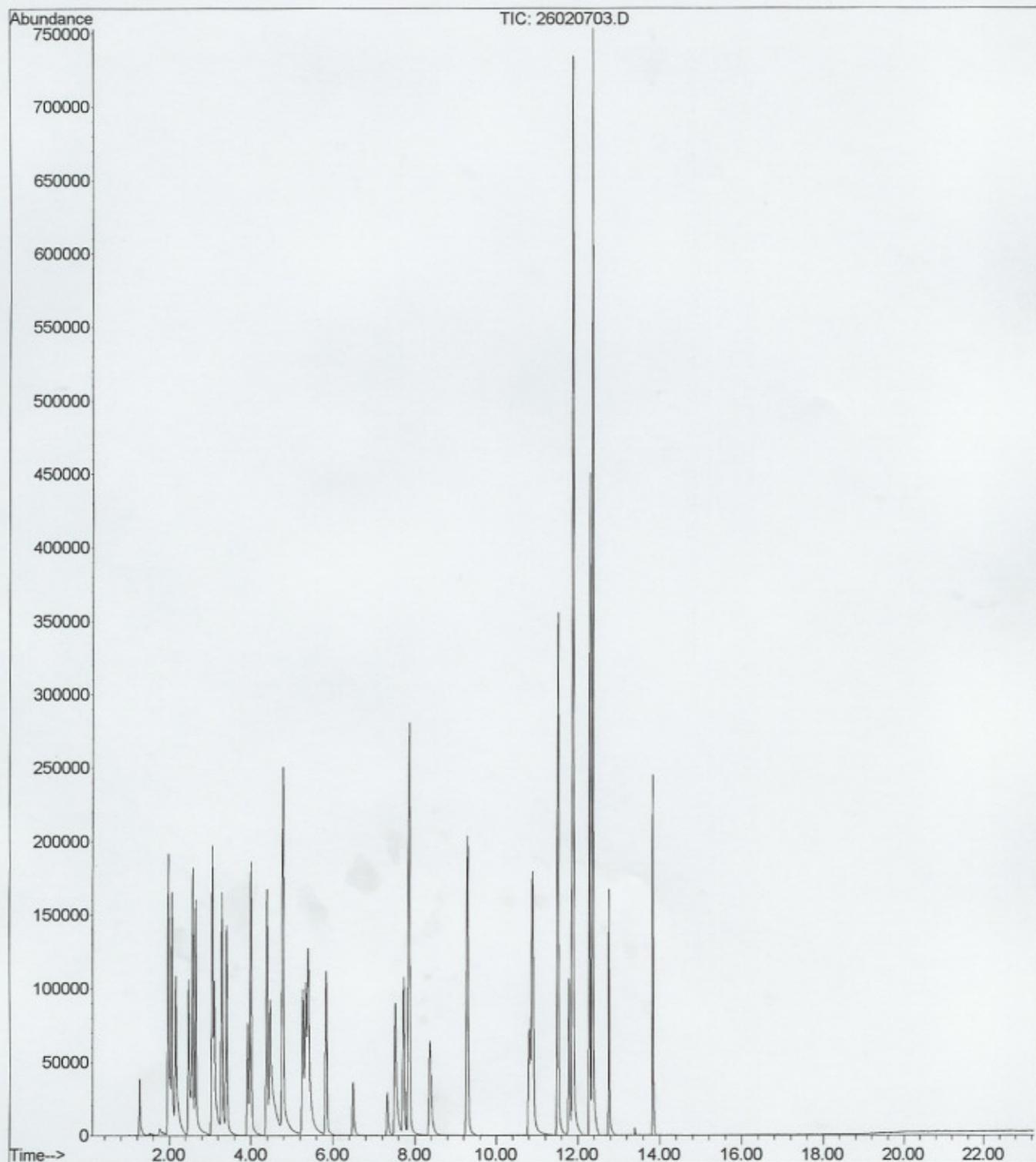
Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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

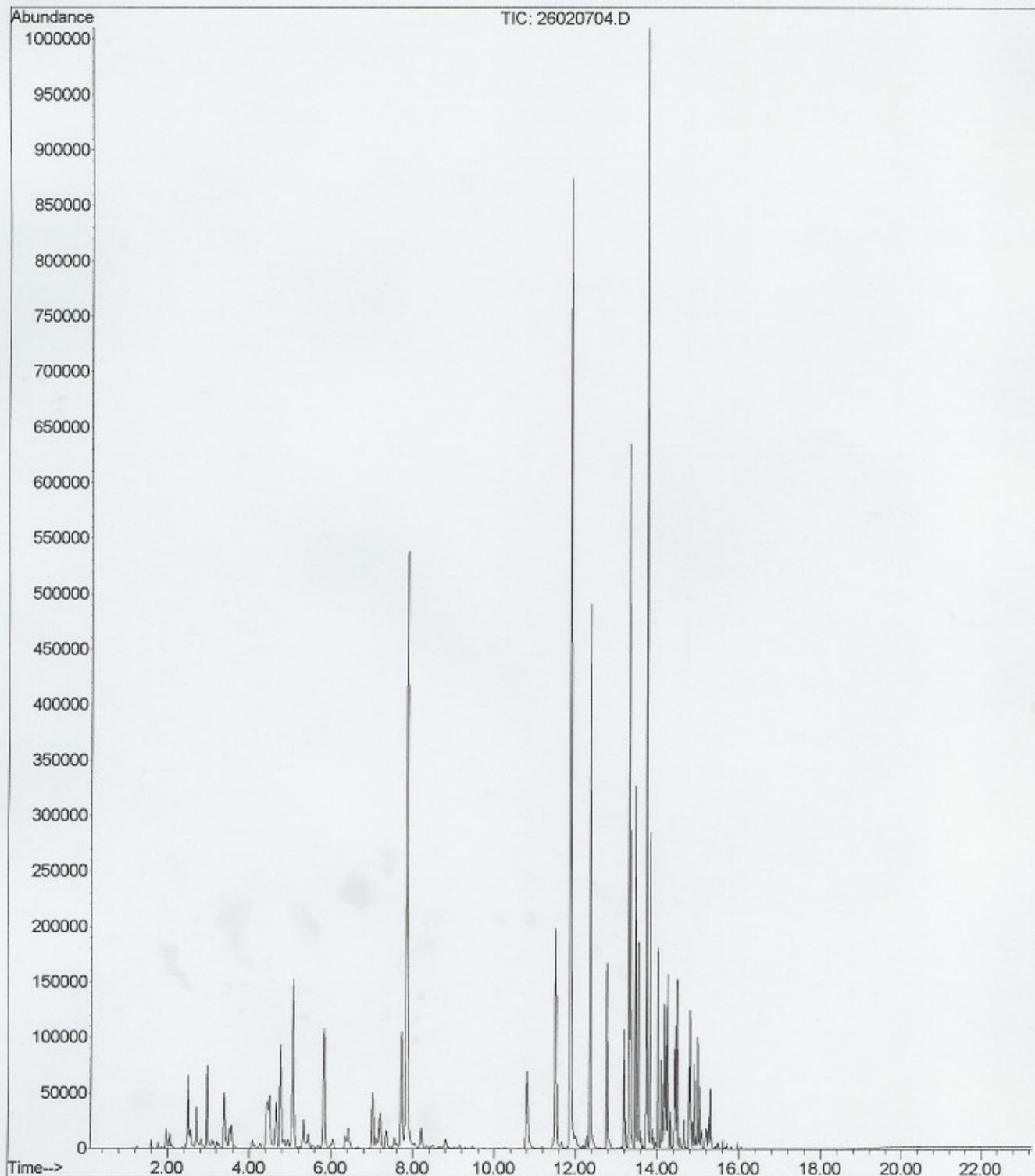
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Operator :
Acquired : 26 Feb 2007 1:20 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BB72801-BLK1
Misc Info :
Vial Number: 7



File :C:\MSDCHEM\1\DATA\2007-Feb-26-0936.b\26020703.D
Operator :
Acquired : 26 Feb 2007 10:55 am using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BB72801-BS1@voc
Misc Info :
Vial Number: 3



File :C:\MSDCHEM\1\DATA\2007-Feb-26-0936.b\26020704.D
Operator :
Acquired : 26 Feb 2007 11:28 am using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BB72801-BS1@gas
Misc Info :
Vial Number: 4



Appendix D

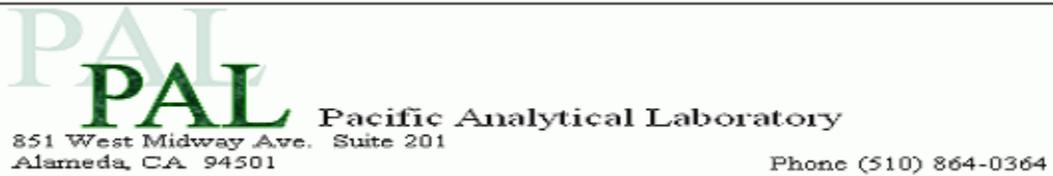
Chain of Custody Forms and Laboratory Reports
for the
Groundwater Extraction Treatment System

CHAIN OF CUSTODY FORM

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

PAL
 Login# 7030009

Project No: 2333				Sampler: <i>Bill Bassett</i>						Analyses/Method												
Project Name: 3609 International Blvd. Oakland				Report To: Bill Bassett						TPHg, BTEX, MIBE 8260B												
				Company: SOMA Environmental Engineering, Inc.																		
Turnaround Time: Standard				Tel: 925-734-6400 Fax: 925-734-6401																		
		Sampling Date/Time		Matrix			# of Containers	Preservatives														
Lab No.	Sample ID	Date	Time	Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE	Field Notes										
	Influent	3-16-07	0700	*			3-VOAs	*			*	Grab Sample					*					
	GAC-1	3-16-07	0650	*			3-VOAs	*			*	Grab Sample					*					
	PSP-1	3-16-07	0645	*			3-VOAs	*			*	Grab Sample					*					
Sampler Remarks: EDF Output Required				Relinquished by: <i>Bill Bassett</i>				Date/Time: 3-16-07 1930				Received by: <i>James Zuning</i>				Date/Time: 3/16/07 1530						



03 April 2007

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

RE: 3609 International Blvd, Oakland

Work Order Number: 7030009

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,

Maiid Akhavan
Laboratory Director



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

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

Reported:
03-Apr-07 18:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Influent	7030009-01	Water	16-Mar-07 07:00	16-Mar-07 15:30
GAC-1	7030009-02	Water	16-Mar-07 06:50	16-Mar-07 15:30
PSP-1	7030009-03	Water	16-Mar-07 06:45	16-Mar-07 15:30



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

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

Reported:
03-Apr-07 18:59

Volatile Organic Compounds by EPA Method 8260B
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Influent (7030009-01) Water Sampled: 16-Mar-07 07:00 Received: 16-Mar-07 15:30									
Gasoline (C6-C12)	2050	100	ug/l	2	BC72601	19-Mar-07	26-Mar-07	EPA 8260B	
Benzene	443	1.00	"	"	"	"	"	"	"
Ethylbenzene	74.9	1.00	"	"	"	"	"	"	"
m&p-Xylene	198	4.00	"	"	"	"	"	"	"
o-xylene	97.6	1.00	"	"	"	"	"	"	"
Toluene	26.7	4.00	"	"	"	"	"	"	"
MTBE	404	1.00	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		104 %	70-130		"	"	"	"	"
Surrogate: Dibromofluoromethane		89.4 %	70-130		"	"	"	"	"
Surrogate: Perdeuterotoluene		98.2 %	70-130		"	"	"	"	"
GAC-1 (7030009-02RE1) Water Sampled: 16-Mar-07 06:50 Received: 16-Mar-07 15:30									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BC72601	19-Mar-07	27-Mar-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		83.4 %	70-130		"	"	"	"	"
Surrogate: Dibromofluoromethane		103 %	70-130		"	"	"	"	"
Surrogate: Perdeuterotoluene		94.4 %	70-130		"	"	"	"	"
PSP-1 (7030009-03RE1) Water Sampled: 16-Mar-07 06:45 Received: 16-Mar-07 15:30									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BC72601	19-Mar-07	27-Mar-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		81.6 %	70-130		"	"	"	"	"
Surrogate: Dibromofluoromethane		103 %	70-130		"	"	"	"	"
Surrogate: Perdeuterotoluene		93.4 %	70-130		"	"	"	"	"

Pacific Analytical Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

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

Reported:
03-Apr-07 18:59

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								



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

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

Reported:
03-Apr-07 18:59

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
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Batch BC72601 - EPA 5030 Water MS

Blank (BC72601-BLK1)

Prepared & Analyzed: 26-Mar-07

Surrogate: 4-Bromofluorobenzene	41.5		ug/l	50.0		83.0	70-130			
Surrogate: Dibromofluoromethane	50.4		"	50.0		101	70-130			
Surrogate: Perdeuterotoluene	46.3		"	50.0		92.6	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	"							
Toluene	ND	2.00	"							
MTBE	ND	0.500	"							

LCS (BC72601-BS1)

Prepared & Analyzed: 26-Mar-07

Surrogate: 4-Bromofluorobenzene	44.6		ug/l	50.0		89.2	70-130			
Surrogate: Dibromofluoromethane	50.4		"	50.0		101	70-130			
Surrogate: Perdeuterotoluene	47.9		"	50.0		95.8	70-130			
Gasoline (C6-C12)	1670	50.0	"	2000		83.5	70-130			
Benzene	93.0	0.500	"	100		93.0	70-130			
Toluene	90.4	2.00	"	100		90.4	70-130			
MTBE	98.6	0.500	"	100		98.6	70-130			

LCS Dup (BC72601-BSD1)

Prepared & Analyzed: 26-Mar-07

Surrogate: 4-Bromofluorobenzene	48.9		ug/l	50.0		97.8	70-130			
Surrogate: Dibromofluoromethane	49.8		"	50.0		99.6	70-130			
Surrogate: Perdeuterotoluene	50.9		"	50.0		102	70-130			
Gasoline (C6-C12)	1680	50.0	"	2000		84.0	70-130	0.597	20	
Benzene	97.4	0.500	"	100		97.4	70-130	4.62	20	
Toluene	105	2.00	"	100		105	70-130	14.9	20	
MTBE	103	0.500	"	100		103	70-130	4.37	20	



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

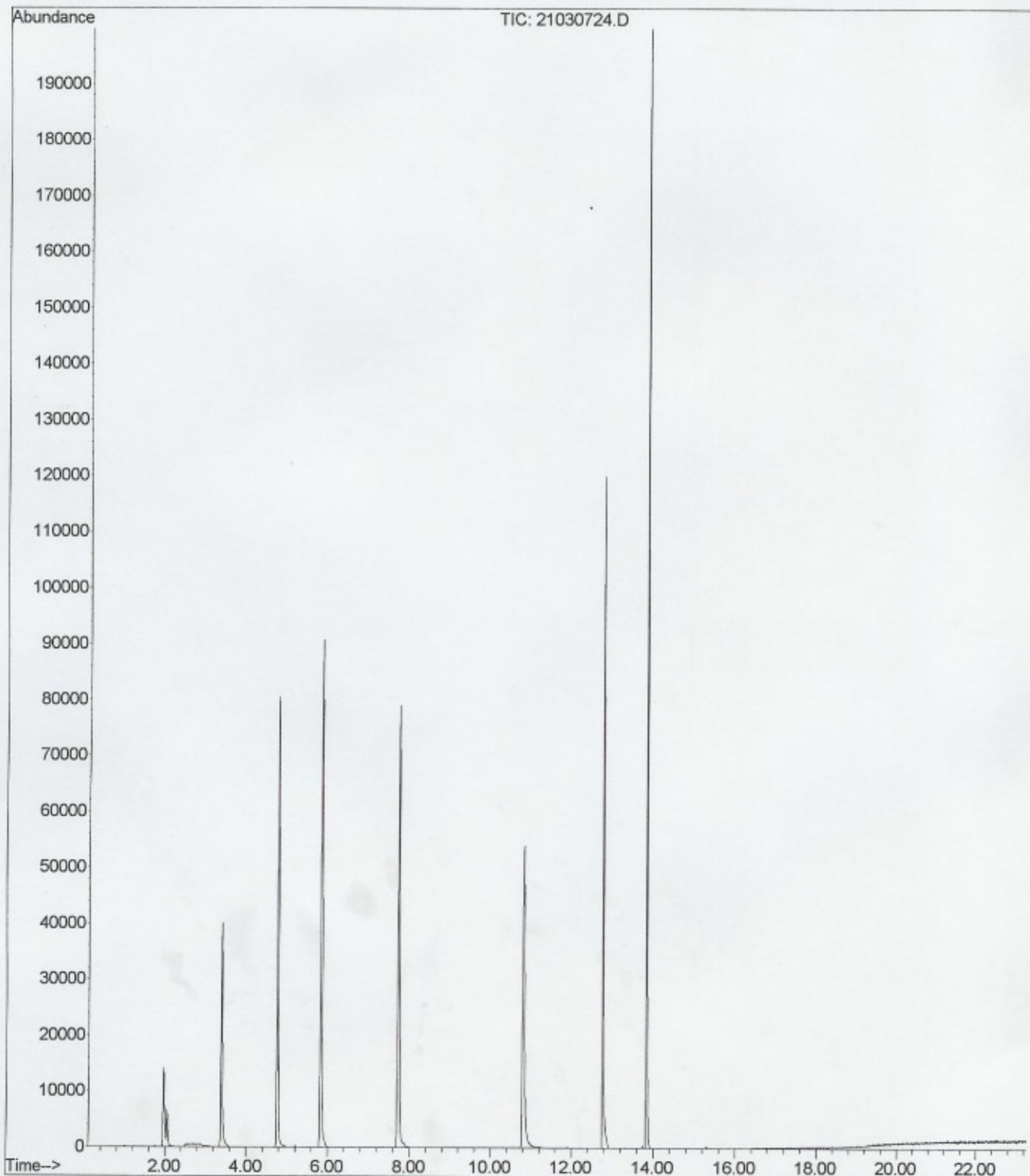
Project: 3609 International Blvd, Oakland
Project Number: 2333
Project Manager: Mansour Sepehr

Reported:
03-Apr-07 18:59

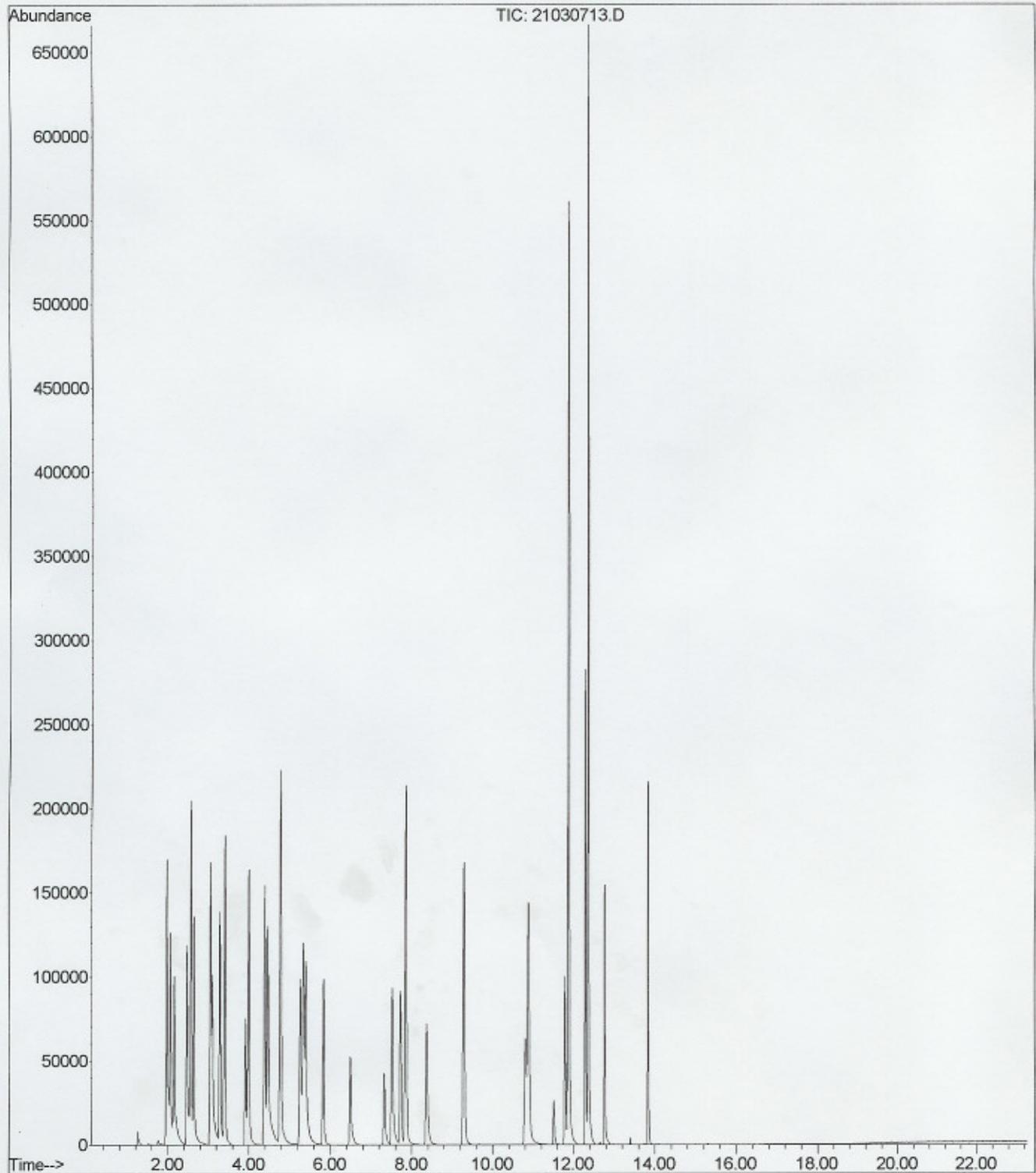
Notes and Definitions

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

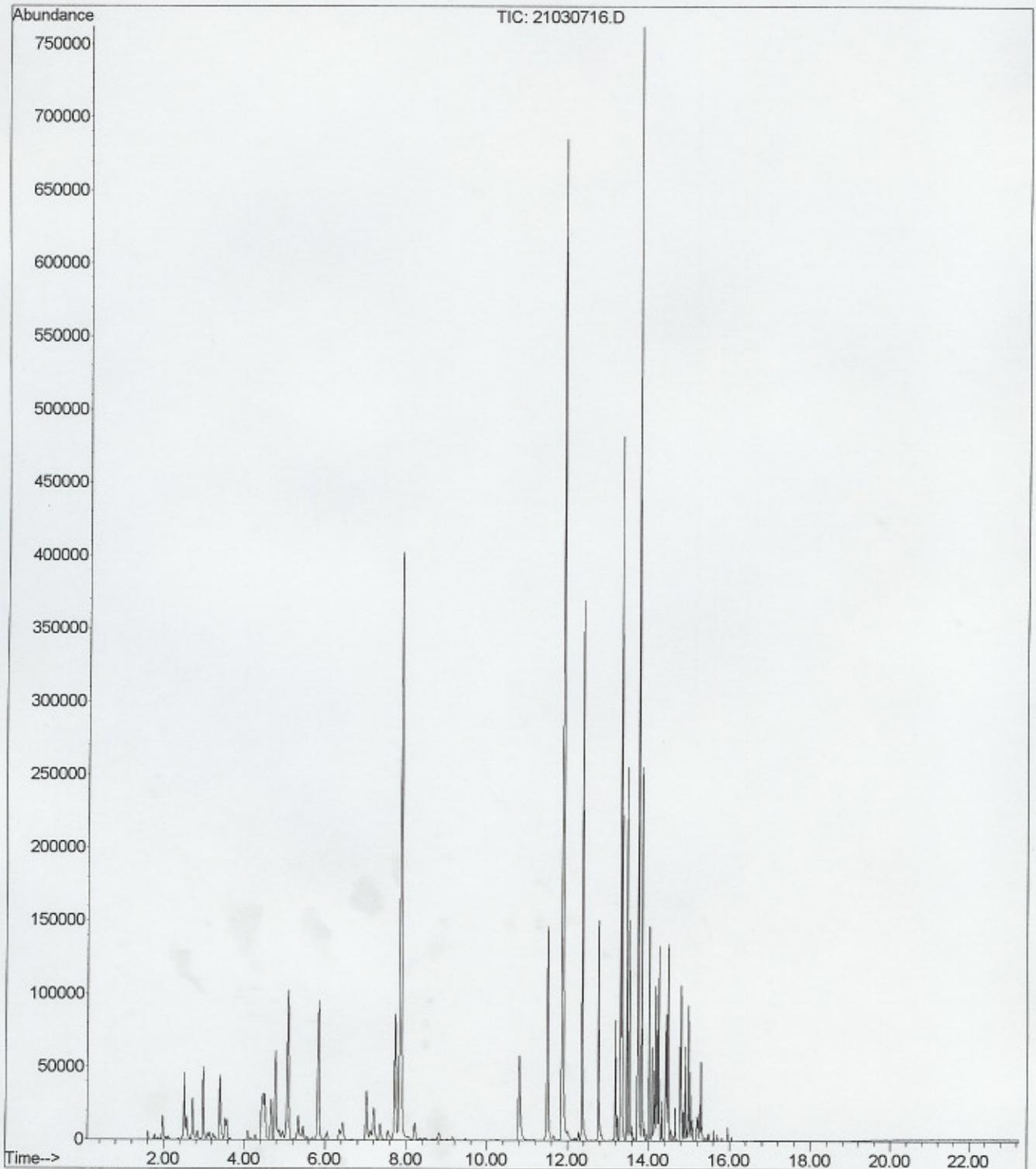
File :C:\MSDCHEM\1\DATA\2007-Mar-21-0934.b\21030724.D
Operator : MA
Acquired : 23 Mar 2007 12:02 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BC72601-BLK1
Misc Info :
Vial Number: 25



File :C:\MSDCHEM\1\DATA\2007-Mar-21-0934.b\21030713.D
Operator : MA
Acquired : 22 Mar 2007 9:31 am using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BC72601-BS1@voc
Misc Info :
Vial Number: 13



File :C:\MSDCHEM\1\DATA\2007-Mar-21-0934.b\21030716.D
Operator : MA
Acquired : 22 Mar 2007 11:14 am using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BC72601-BS1@gas
Misc Info :
Vial Number: 16



CHAIN OF CUSTODY FORM

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

PAL
 Login# 7020012

Project No: 2333				Sampler: <i>Brian Tims</i>								Analyses/Method										
Project Name: 3609 International Blvd. Oakland				Report To: Tony Perini								TPHg, BTEX, MIBE 8260B										
				Company: SOMA Environmental Engineering, Inc.																		
Turnaround Time: Standard				Tel: 925-734-6400 Fax: 925-734-6401																		
		Sampling Date/Time		Matrix			# of Containers	Preservatives				Field Notes										
Lab No.	Sample ID	Date	Time	Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE											
	Influent	<i>2/22/07</i>	<i>10:40</i>		*		3-VOAs	*			*	Grab Sample	*									
	GAC-1	<i>2/22/07</i>	<i>10:30</i>		*		3-VOAs	*			*	Grab Sample	*									
	PSP-1	<i>2/22/07</i>	<i>10:20</i>		*		3-VOAs	*			*	Grab Sample	*									
Sampler Remarks: EDF Output Required				Relinquished by: <i>Brian Tims</i>				Date/Time: <i>2/22/07</i> <i>2:40 P.M.</i>		Received by: <i>James Zingiz</i>				Date/Time: <i>2/22/07</i> <i>2:40 PM</i>								

05 March 2007

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

RE: 3609 International Blvd, Oakland

Work Order Number: 7020012

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,



Maiid Akhavan
Laboratory Director



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

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

Reported:
05-Mar-07 11:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Influent	7020012-01	Water	22-Feb-07 10:40	22-Feb-07 14:40
GAC-1	7020012-02	Water	22-Feb-07 10:30	22-Feb-07 14:40
PSP-1	7020012-03	Water	22-Feb-07 10:20	22-Feb-07 14:40



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

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

Reported:
05-Mar-07 11:08

Volatile Organic Compounds by EPA Method 8260B
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Influent (7020012-01RE1) Water Sampled: 22-Feb-07 10:40 Received: 22-Feb-07 14:40									
Gasoline (C6-C12)	1660	100	ug/l	2	BB72801	23-Feb-07	26-Feb-07	EPA 8260B	
Benzene	375	1.00	"	"	"	"	"	"	"
Ethylbenzene	50.4	1.00	"	"	"	"	"	"	"
m&p-Xylene	160	4.00	"	"	"	"	"	"	"
o-xylene	72.2	1.00	"	"	"	"	"	"	"
Toluene	18.1	4.00	"	"	"	"	"	"	"
MTBE	329	1.00	"	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		90.6 %		70-130	"	"	"	"	"
Surrogate: Dibromofluoromethane		99.0 %		70-130	"	"	"	"	"
Surrogate: Perdeuterotoluene		93.8 %		70-130	"	"	"	"	"
GAC-1 (7020012-02RE1) Water Sampled: 22-Feb-07 10:30 Received: 22-Feb-07 14:40									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BB72801	23-Feb-07	26-Feb-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		85.8 %		70-130	"	"	"	"	"
Surrogate: Dibromofluoromethane		105 %		70-130	"	"	"	"	"
Surrogate: Perdeuterotoluene		95.2 %		70-130	"	"	"	"	"
PSP-1 (7020012-03RE1) Water Sampled: 22-Feb-07 10:20 Received: 22-Feb-07 14:40									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BB72801	23-Feb-07	26-Feb-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		82.6 %		70-130	"	"	"	"	"
Surrogate: Dibromofluoromethane		106 %		70-130	"	"	"	"	"
Surrogate: Perdeuterotoluene		92.6 %		70-130	"	"	"	"	"

Pacific Analytical Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: 3609 International Blvd, Oakland

Project Number: 2333

Project Manager: Mansour Sepehr

Reported:
05-Mar-07 11:08

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								



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

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

Reported:
05-Mar-07 11:08

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
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Batch BB72801 - EPA 5030 Water MS

Blank (BB72801-BLK1)

Prepared & Analyzed: 28-Feb-07

Surrogate: 4-Bromofluorobenzene	42.6		ug/l	50.0		85.2	70-130			
Surrogate: Dibromofluoromethane	54.5		"	50.0		109	70-130			
Surrogate: Perdeuterotoluene	47.2		"	50.0		94.4	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	"							
Toluene	ND	2.00	"							
MTBE	ND	0.500	"							

LCS (BB72801-BS1)

Prepared & Analyzed: 28-Feb-07

Surrogate: 4-Bromofluorobenzene	53.1		ug/l	50.0		106	70-130			
Surrogate: Dibromofluoromethane	53.1		"	50.0		106	70-130			
Surrogate: Perdeuterotoluene	55.0		"	50.0		110	70-130			
Gasoline (C6-C12)	1920	50.0	"	2000		96.0	70-130			
Benzene	77.5	0.500	"	100		77.5	70-130			
Toluene	105	2.00	"	100		105	70-130			
MTBE	98.6	0.500	"	100		98.6	70-130			

LCS Dup (BB72801-BSD1)

Prepared & Analyzed: 28-Feb-07

Surrogate: 4-Bromofluorobenzene	48.9		ug/l	50.0		97.8	70-130			
Surrogate: Dibromofluoromethane	50.4		"	50.0		101	70-130			
Surrogate: Perdeuterotoluene	49.6		"	50.0		99.2	70-130			
Gasoline (C6-C12)	1820	50.0	"	2000		91.0	70-130	5.35	20	
Benzene	96.8	0.500	"	100		96.8	70-130	22.1	20	QR-02
Toluene	97.8	2.00	"	100		97.8	70-130	7.10	20	
MTBE	110	0.500	"	100		110	70-130	10.9	20	



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

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

Reported:
05-Mar-07 11:08

Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

DET Analyte DETECTED

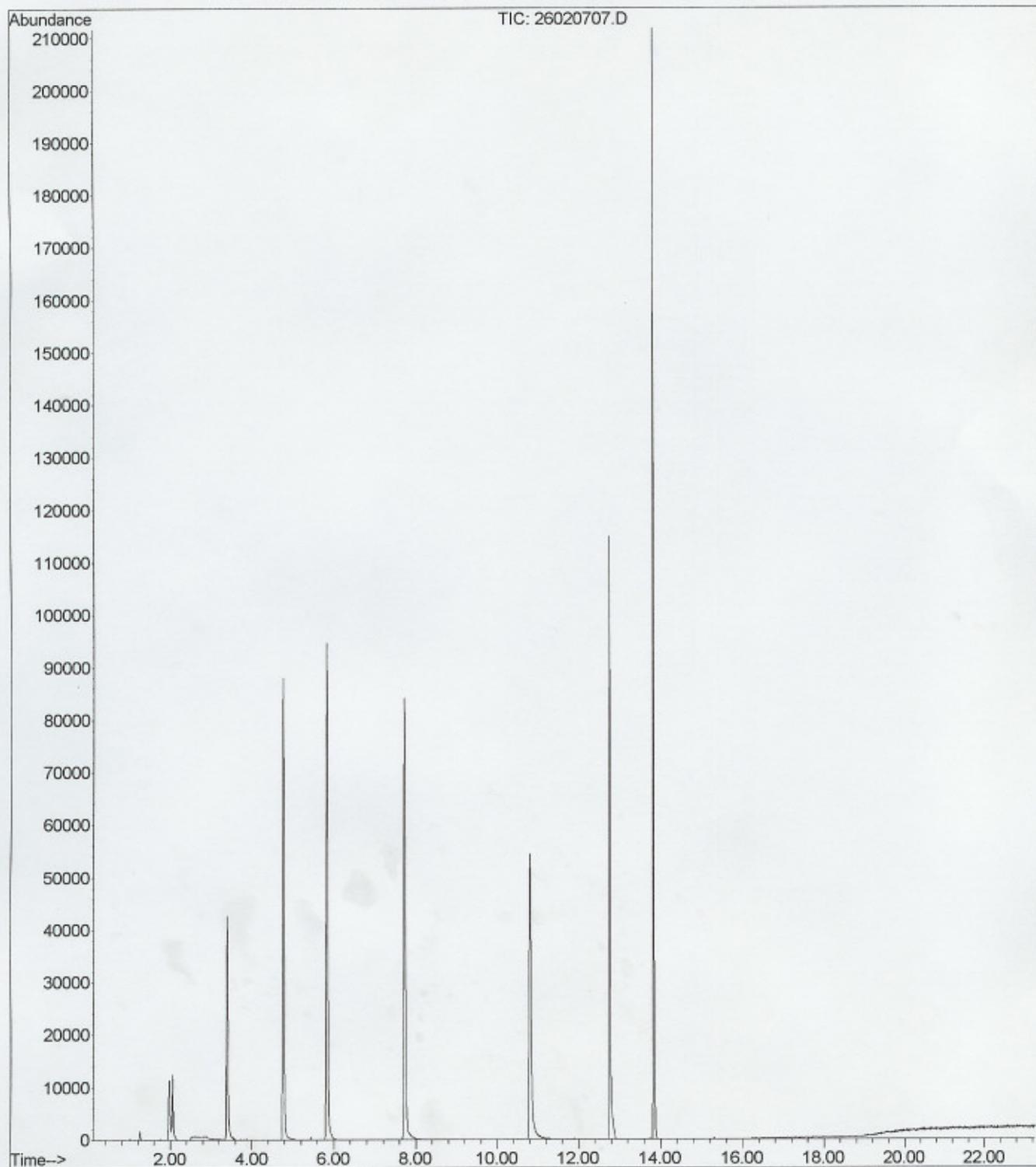
ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

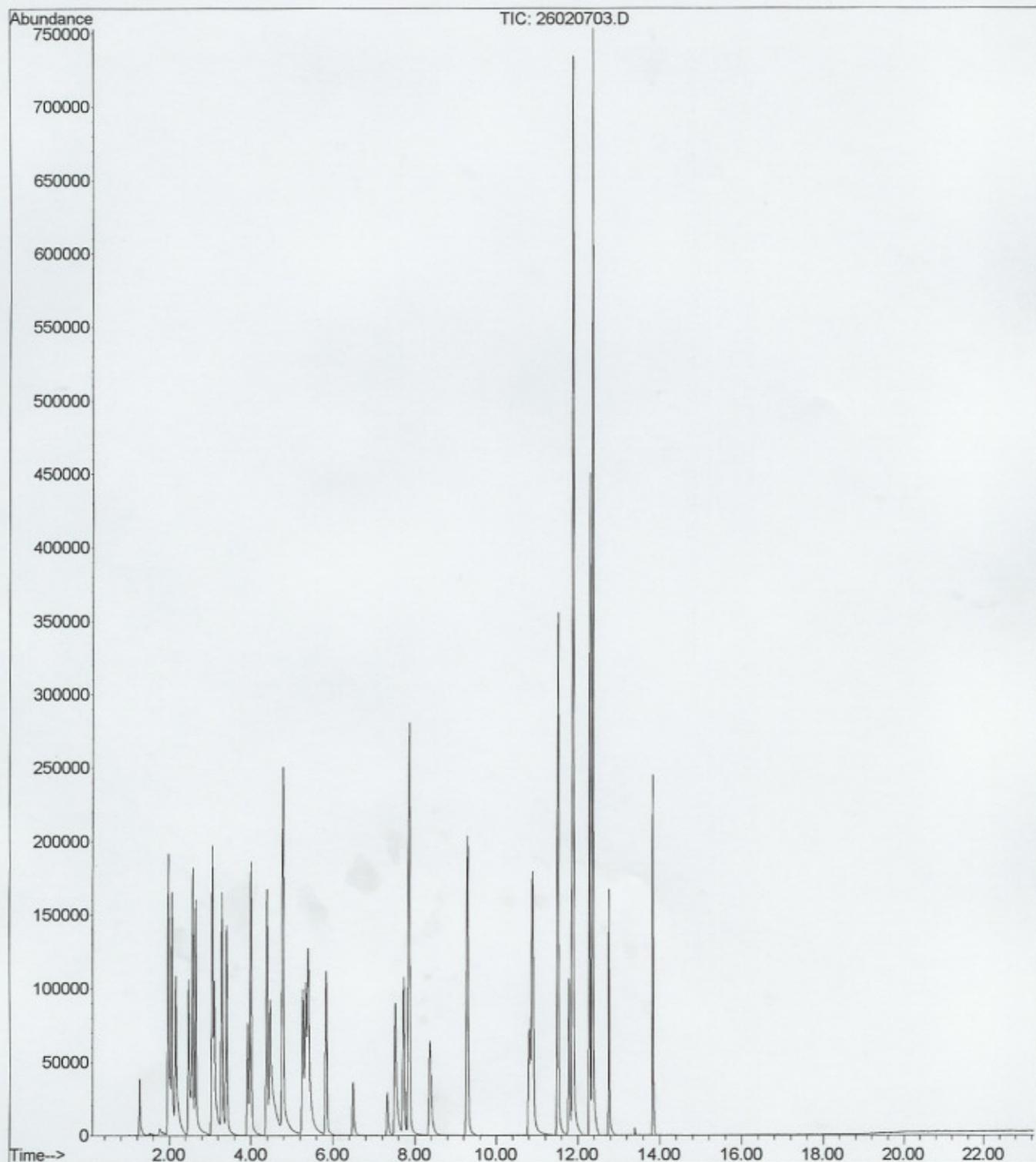
dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

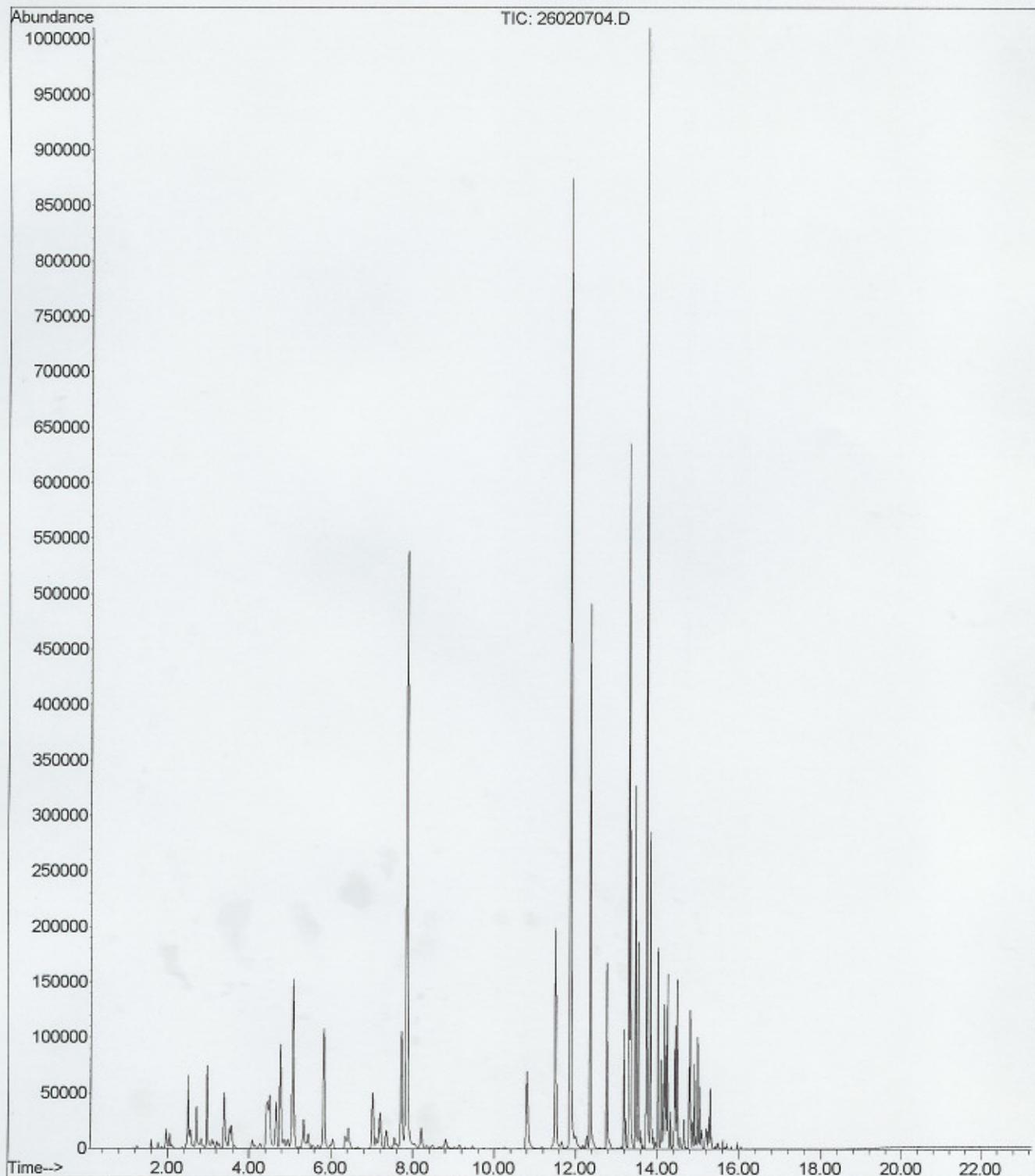
File :C:\MSDChem\1\DATA\2007-Feb-26-0936.b\26020707.D
Operator :
Acquired : 26 Feb 2007 1:20 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BB72801-BLK1
Misc Info :
Vial Number: 7



File :C:\MSDCHEM\1\DATA\2007-Feb-26-0936.b\26020703.D
Operator :
Acquired : 26 Feb 2007 10:55 am using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BB72801-BS1@voc
Misc Info :
Vial Number: 3



File :C:\MSDCHEM\1\DATA\2007-Feb-26-0936.b\26020704.D
Operator :
Acquired : 26 Feb 2007 11:28 am using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BB72801-BS1@gas
Misc Info :
Vial Number: 4



CHAIN OF CUSTODY FORM

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

PAL
 Login# 7010007

Project No: 2333				Sampler: <i>Bill Bassett</i>								Analyses/Method										
Project Name: 3609 International Blvd. Oakland				Report To: Tony Perini <i>Bill Bassett</i>								TPH, BTEX, MIBE 8260B										
				Company: SOMA Environmental Engineering, Inc.																		
Turnaround Time: Standard				Tel: 925-734-6400 Fax: 925-734-6401																		
		Sampling Date/Time		Matrix			# of Containers	Preservatives				Field Notes										
Lab No.	Sample ID	Date	Time	Soil	Water	Waste		HCL	H ₂ So ₄	HNO ₃	ICE											
	Influent	1-16-07	1050	*			3-VOAs	*			*	Grab Sample										
	GAC-1	1-16-07	1040	*			3-VOAs	*			*	Grab Sample										
	PSP-1	1-16-07	1030	*			3-VOAs	*			*	Grab Sample										
Sampler Remarks: EDF Output Required				Relinquished by: <i>Bill Bassett</i>				Date/Time: 1/16/07 1630				Received by: <i>James Zingis</i>				Date/Time: 1/16/07 4:30 PM						

26 January 2007

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

RE: 3609 International Blvd, Oakland

Work Order Number: 7010007

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,



Maiid Akhavan
Laboratory Director



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

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

Reported:
26-Jan-07 16:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Influent	7010007-01	Water	16-Jan-07 10:50	16-Jan-07 16:36
GAC-1	7010007-02	Water	16-Jan-07 10:40	16-Jan-07 16:36
PSP-1	7010007-03	Water	16-Jan-07 10:30	16-Jan-07 16:36



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

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

Reported:
26-Jan-07 16:06

Volatile Organic Compounds by EPA Method 8260B
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Influent (7010007-01RE1) Water Sampled: 16-Jan-07 10:50 Received: 16-Jan-07 16:36									
Gasoline (C6-C12)	3440	50.0	ug/l	1	BA71901	16-Jan-07	17-Jan-07	EPA 8260B	
Benzene	295	1.00	"	2	"	"	"	"	
Ethylbenzene	169	1.00	"	"	"	"	"	"	
m&p-Xylene	345	4.00	"	"	"	"	"	"	
o-xylene	236	1.00	"	"	"	"	"	"	
Toluene	53.0	4.00	"	"	"	"	"	"	
MTBE	342	1.00	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		101 %		70-130	"	"	"	"	
GAC-1 (7010007-02) Water Sampled: 16-Jan-07 10:40 Received: 16-Jan-07 16:36									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BA71901	16-Jan-07	17-Jan-07	EPA 8260B	
Benzene	1.68	0.500	"	"	"	"	"	"	
Ethylbenzene	1.25	0.500	"	"	"	"	"	"	
m&p-Xylene	ND	2.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	1.37	0.500	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.2 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		98.4 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		99.8 %		70-130	"	"	"	"	
PSP-1 (7010007-03) Water Sampled: 16-Jan-07 10:30 Received: 16-Jan-07 16:36									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BA71901	16-Jan-07	17-Jan-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	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.6 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		98.2 %		70-130	"	"	"	"	

Pacific Analytical Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

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

Reported:
26-Jan-07 16:06

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								



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

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

Reported:
26-Jan-07 16:06

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
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Batch BA71901 - EPA 5030 Water MS

Blank (BA71901-BLK1)

Prepared & Analyzed: 19-Jan-07

Surrogate: 4-Bromofluorobenzene	44.9		ug/l	50.0		89.8	70-130			
Surrogate: Dibromofluoromethane	56.0		"	50.0		112	70-130			
Surrogate: Perdeuterotoluene	48.3		"	50.0		96.6	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	"							
Toluene	ND	2.00	"							
MTBE	ND	0.500	"							

LCS (BA71901-BS1)

Prepared & Analyzed: 19-Jan-07

Surrogate: 4-Bromofluorobenzene	50.1		ug/l	50.0		100	70-130			
Surrogate: Dibromofluoromethane	49.6		"	50.0		99.2	70-130			
Surrogate: Perdeuterotoluene	51.1		"	50.0		102	70-130			
Gasoline (C6-C12)	1710	50.0	"	2000		85.5	70-130			
Benzene	85.5	0.500	"	100		85.5	70-130			
Toluene	90.4	2.00	"	100		90.4	70-130			
MTBE	94.2	0.500	"	100		94.2	70-130			

LCS Dup (BA71901-BSD1)

Prepared & Analyzed: 19-Jan-07

Surrogate: 4-Bromofluorobenzene	47.3		ug/l	50.0		94.6	70-130			
Surrogate: Dibromofluoromethane	48.8		"	50.0		97.6	70-130			
Surrogate: Perdeuterotoluene	50.4		"	50.0		101	70-130			
Gasoline (C6-C12)	1970	50.0	"	2000		98.5	70-130	14.1	20	
Benzene	87.8	0.500	"	100		87.8	70-130	2.65	20	
Toluene	90.5	2.00	"	100		90.5	70-130	0.111	20	
MTBE	80.2	0.500	"	100		80.2	70-130	16.1	20	



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

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

Reported:
26-Jan-07 16:06

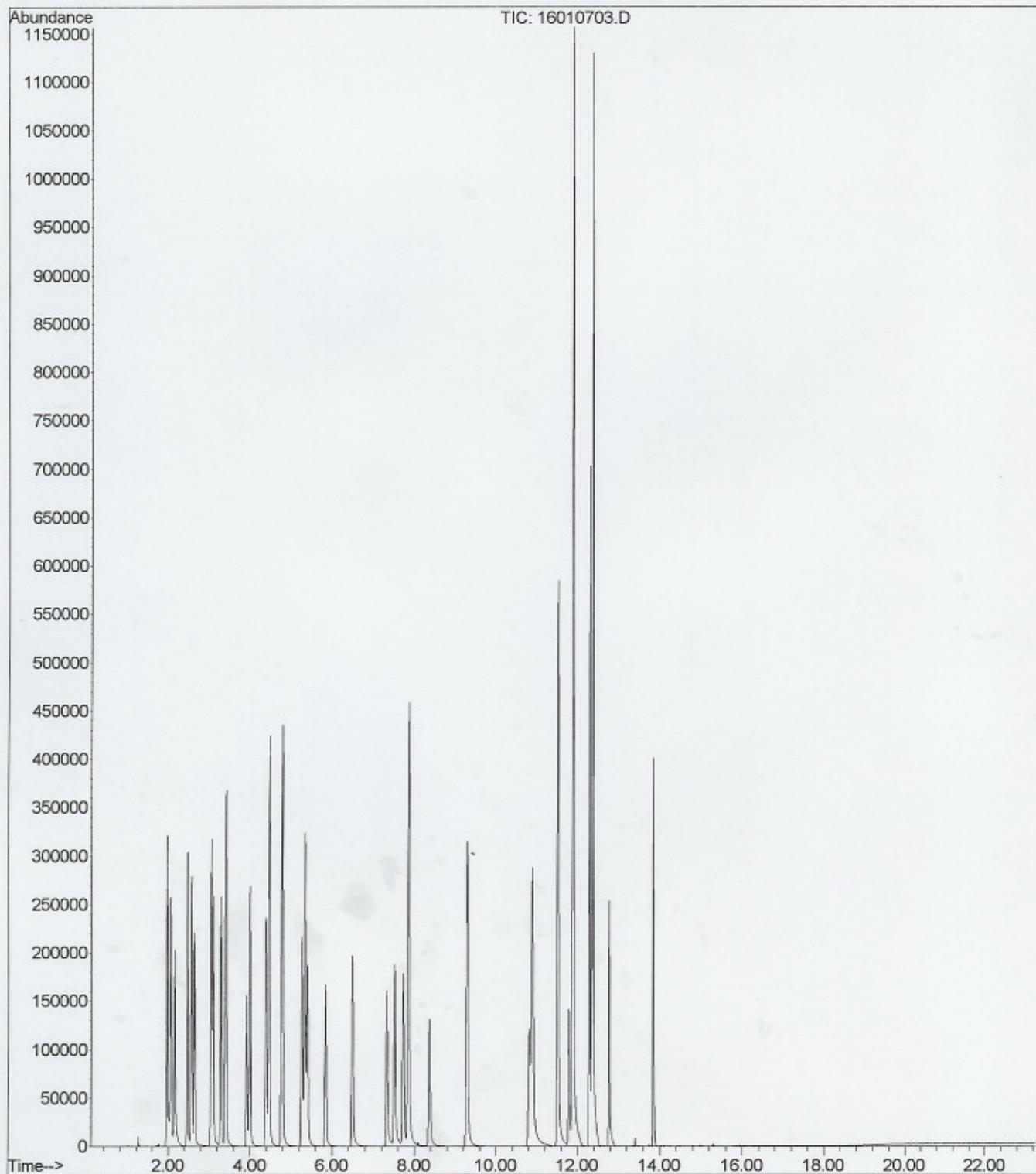
Notes and Definitions

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

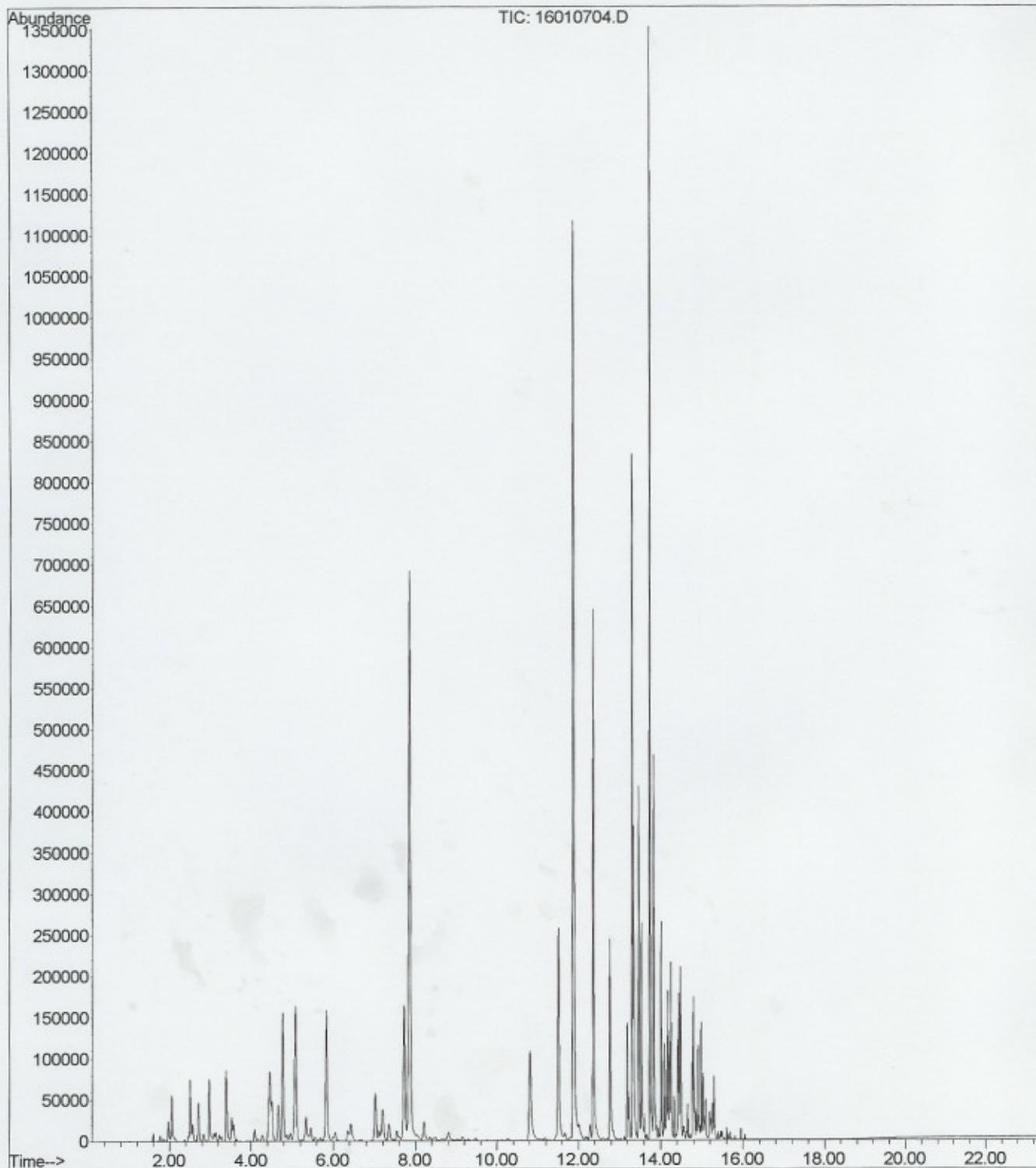
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Operator :
Acquired : 16 Jan 2007 1:16 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BA71901-BLK1
Misc Info :
Vial Number: 7

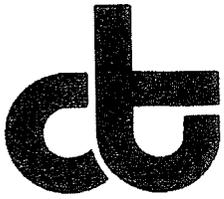


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Operator :
Acquired : 16 Jan 2007 11:12 am using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BA71901-BS1@voc
Misc Info :
Vial Number: 3



File :C:\MSDCHEM\1\DATA\2007-Jan-16-0936.b\16010704.D
Operator :
Acquired : 16 Jan 2007 11:43 am using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BA71901-BS1@gas
Misc Info :
Vial Number: 4





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710. Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

SOMA Environmental Engineering Inc.
5620 Owens Dr.
Suite A
Pleasanton, CA 94588

Date: 11-JAN-07
Lab Job Number: 191745
Project ID: 2333
Location: 3609 International Blvd

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

Reviewed by: 
Project Manager

Reviewed by: 
Operations Manager

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CASE NARRATIVE

Laboratory number: 191745
Client: SOMA Environmental Engineering Inc.
Project: 2333
Location: 3609 International Blvd
Request Date: 12/27/06
Samples Received: 12/27/06

This hardcopy data package contains sample and QC results for three water samples, requested for the above referenced project on 12/27/06. The samples were received cold and intact.

Volatiles Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Gasoline by GC/MS

Lab #:	191745	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	12/22/06
Units:	ug/L	Received:	12/27/06

Field ID:	INFLUENT	Diln Fac:	4.000
Type:	SAMPLE	Batch#:	120837
Lab ID:	191745-001	Analyzed:	01/02/07

Analyte	Result	RL
Gasoline C7-C12	2,500	200
MTBE	290	2.0
Benzene	360	2.0
Toluene	27	2.0
Ethylbenzene	65	2.0
m,p-Xylenes	330	2.0
o-Xylene	97	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	98	80-130
Toluene-d8	96	80-120
Bromofluorobenzene	96	80-122

Field ID:	GAC-1	Lab ID:	191745-002
Type:	SAMPLE	Diln Fac:	1.000

Analyte	Result	RL	Batch#	Analyzed
Gasoline C7-C12	ND	50	120795	12/29/06
MTBE	ND	0.50	120837	01/02/07
Benzene	ND	0.50	120837	01/02/07
Toluene	ND	0.50	120837	01/02/07
Ethylbenzene	ND	0.50	120837	01/02/07
m,p-Xylenes	ND	0.50	120837	01/02/07
o-Xylene	ND	0.50	120837	01/02/07

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	99	80-120	120837	01/02/07
1,2-Dichloroethane-d4	107	80-130	120837	01/02/07
Toluene-d8	102	80-120	120837	01/02/07
Bromofluorobenzene	97	80-122	120837	01/02/07

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	191745	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	12/22/06
Units:	ug/L	Received:	12/27/06

Field ID: PSP#1 Diln Fac: 1.000
 Type: SAMPLE Batch#: 120795
 Lab ID: 191745-003 Analyzed: 12/29/06

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-120
1,2-Dichloroethane-d4	101	80-130
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-122

Type: BLANK Batch#: 120795
 Lab ID: QC370024 Analyzed: 12/29/06
 Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-120
1,2-Dichloroethane-d4	105	80-130
Toluene-d8	97	80-120
Bromofluorobenzene	94	80-122

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS

Lab #:	191745	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	12/22/06
Units:	ug/L	Received:	12/27/06

Type:	BLANK	Batch#:	120837
Lab ID:	QC370195	Analyzed:	01/02/07
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
MTBE	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	101	80-130
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-122

ND= Not Detected
 RL= Reporting Limit

Date : 02-JAN-2007 17:21

Client ID: DYNA P&T

Sample Info: S,191745-001

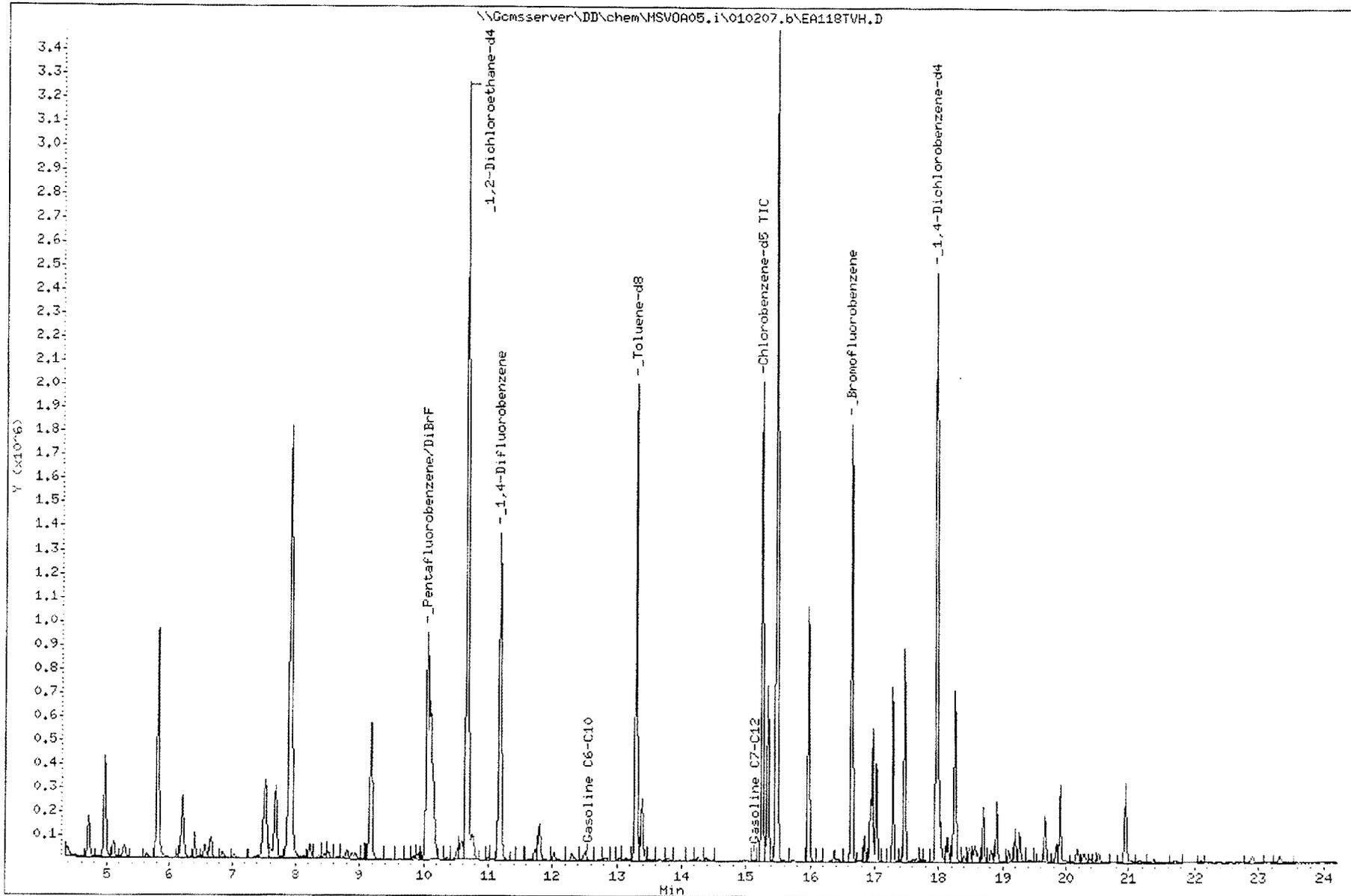
Influent

Instrument: MSV0A05.i

Operator: VOC

Column diameter: 2.00

Column phase:



Date : 29-DEC-2006 10:26

Client ID: DYNA P&T

Sample Info: CCV,54989,0,01/100

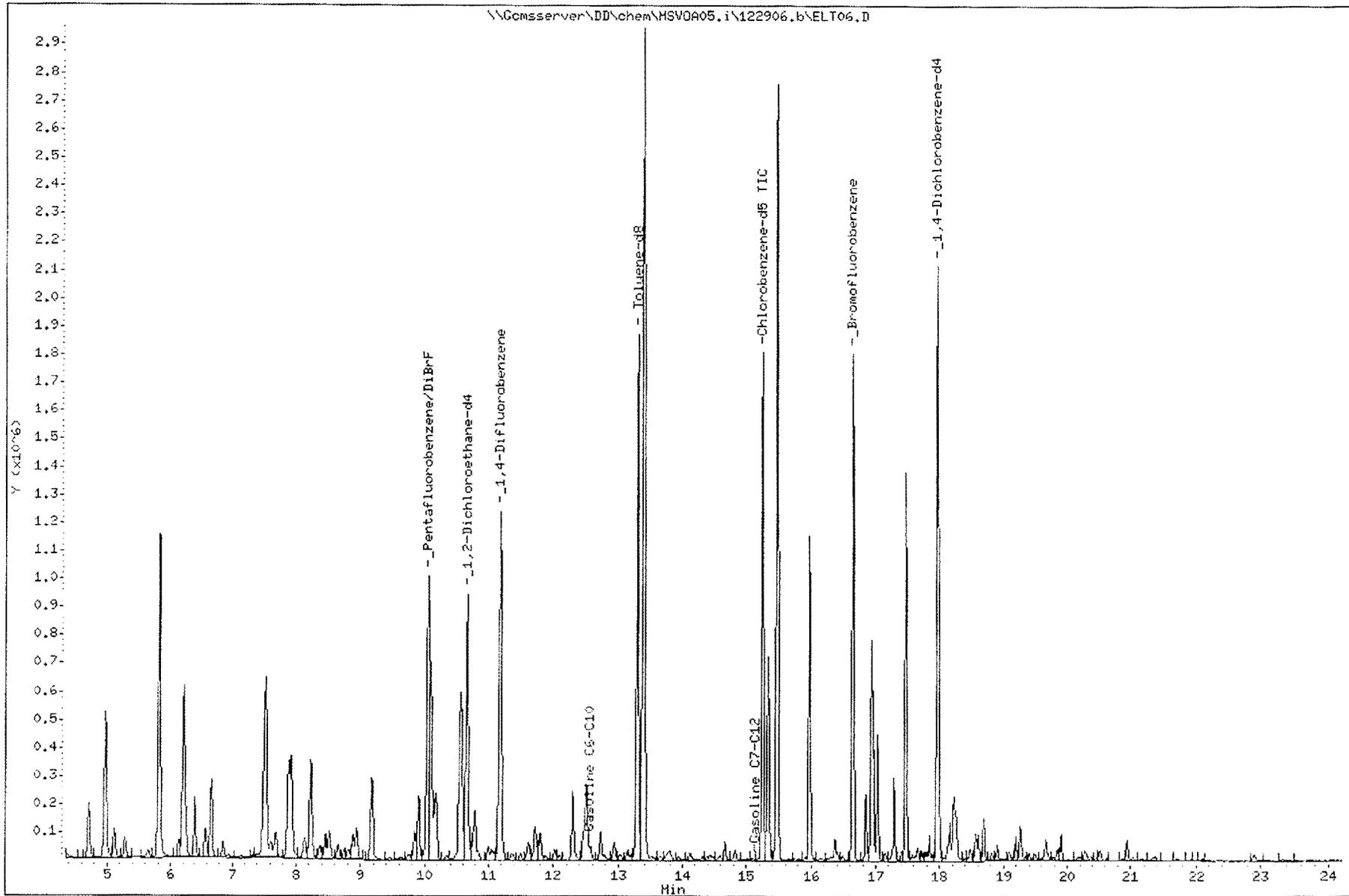
Gasoline/BTXE

Instrument: MSV0A05.1

Operator: VOC

Column diameter: 2.00

Column phase:



Batch QC Report

Gasoline by GC/MS

Lab #:	191745	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	120795
Units:	ug/L	Analyzed:	12/29/06
Diln Fac:	1.000		

Type: BS Lab ID: QC370020

Analyte	Spiked	Result	%REC	Limits
MTBE	25.00	20.98	84	72-120
Benzene	25.00	24.97	100	80-120
Toluene	25.00	26.10	104	80-120
Ethylbenzene	25.00	27.08	108	80-120
m,p-Xylenes	50.00	54.79	110	80-121
o-Xylene	25.00	28.12	112	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	110	80-130
Toluene-d8	98	80-120
Bromofluorobenzene	95	80-122

Type: BSD Lab ID: QC370021

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	25.00	21.85	87	72-120	4	20
Benzene	25.00	24.86	99	80-120	0	20
Toluene	25.00	27.15	109	80-120	4	20
Ethylbenzene	25.00	26.33	105	80-120	3	20
m,p-Xylenes	50.00	53.74	107	80-121	2	20
o-Xylene	25.00	27.22	109	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	111	80-130
Toluene-d8	98	80-120
Bromofluorobenzene	95	80-122

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS

Lab #:	191745	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	120795
Units:	ug/L	Analyzed:	12/29/06
Diln Fac:	1.000		

Type: BS Lab ID: QC370022

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,147	115	70-130

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-120
1,2-Dichloroethane-d4	107	80-130
Toluene-d8	98	80-120
Bromofluorobenzene	92	80-122

Type: BSD Lab ID: QC370023

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	1,106	111	70-130	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-120
1,2-Dichloroethane-d4	105	80-130
Toluene-d8	97	80-120
Bromofluorobenzene	93	80-122

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS

Lab #:	191745	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	120837
Units:	ug/L	Analyzed:	01/02/07
Diln Fac:	1.000		

Type: BS Lab ID: QC370191

Analyte	Spiked	Result	%REC	Limits
MTBE	25.00	22.37	89	72-120
Benzene	25.00	26.74	107	80-120
Toluene	25.00	27.57	110	80-120
Ethylbenzene	25.00	27.54	110	80-120
m,p-Xylenes	50.00	53.51	107	80-121
o-Xylene	25.00	27.65	111	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	104	80-130
Toluene-d8	99	80-120
Bromofluorobenzene	95	80-122

Type: BSD Lab ID: QC370192

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	25.00	22.79	91	72-120	2	20
Benzene	25.00	26.69	107	80-120	0	20
Toluene	25.00	28.34	113	80-120	3	20
Ethylbenzene	25.00	28.01	112	80-120	2	20
m,p-Xylenes	50.00	56.02	112	80-121	5	20
o-Xylene	25.00	29.02	116	80-120	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	103	80-130
Toluene-d8	101	80-120
Bromofluorobenzene	94	80-122

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS

Lab #:	191745	Location:	3609 International Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	120837
Units:	ug/L	Analyzed:	01/02/07
Diln Fac:	1.000		

Type: BS Lab ID: QC370193

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,150	115	70-130

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	99	80-130
Toluene-d8	101	80-120
Bromofluorobenzene	96	80-122

Type: BSD Lab ID: QC370194

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	1,155	116	70-130	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	102	80-130
Toluene-d8	103	80-120
Bromofluorobenzene	95	80-122

RPD= Relative Percent Difference