

RECEIVED

10:31 am, Jan 08, 2009

Alameda County
Environmental Health



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

January 7, 2009

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

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

Dear Mr. Wickham:

SOMA's "Fourth Quarter 2008 Groundwater Monitoring and Remediation System Report With Evaluation of Effectiveness of Monthly MPE" for the subject property has been uploaded to the State's GeoTracker database and Alameda County's FTP site for your review.

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

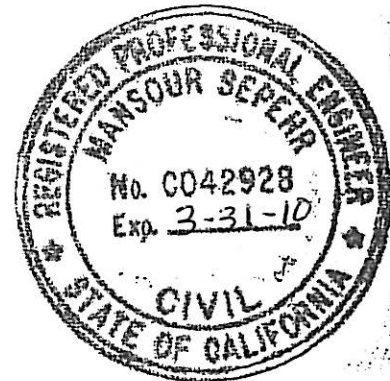
Sincerely,

Mansour Sepéhr, Ph.D., PE
Principal Hydrogeologist

Enclosure

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

Mr. Vince Tong w/report enclosure
Traction International



**Fourth Quarter 2008
Groundwater Monitoring and
Remediation System Report
With Evaluation of Effectiveness
of Monthly MPE**

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

January 7, 2009

Project 2331

**Prepared for
Mr. Abolghassem Razi
3609 International Boulevard
Oakland, California 94601**

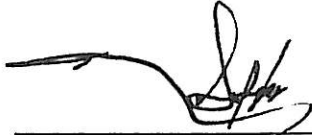


ENVIRONMENTAL ENGINEERING, INC.

6620 Owens Drive Suite A Pleasanton CA 94588 Ph: 925.734.6400 F: 925.734-6401 www.somaenv.com

CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report on behalf of Mr. Abolghassem Razi, property owner of 3609 International Boulevard, Oakland, California, to comply with Alameda County Environmental Health Services requirements for the Fourth Quarter 2008 groundwater monitoring event.



Mansour Sepehr, PhD, PE
Principal Hydrogeologist

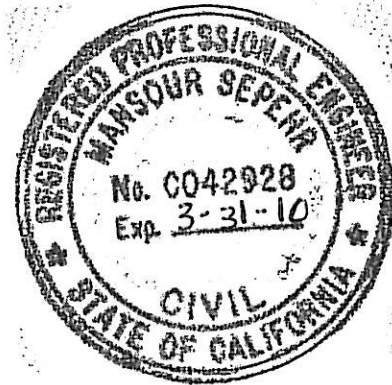


TABLE OF CONTENTS

CERTIFICATION	i
TABLE OF CONTENTS.....	ii
LIST OF TABLES.....	iii
LIST OF FIGURES	iii
LIST OF APPENDICES	iv
1. INTRODUCTION	1
1.1 Summary of Field Activities.....	1
1.2 Summary of Laboratory Analysis	2
2. RESULTS	2
2.1 Field Measurements	2
2.2 Laboratory Analysis	3
3. GROUNDWATER TREATMENT SYSTEM OPERATION	4
4. OPERATION OF AIR SPARGING SYSTEM	5
5. OCTOBER 2008 MULTI-PHASE EXTRACTION EVENT	6
6. CONCLUSIONS AND RECOMMENDATIONS.....	7
6.1 Conclusions	7
6.2 Recommendations	8
7. REPORT LIMITATIONS	8

LIST OF TABLES

Table 1	Historical Groundwater Elevation Data and Analytical Results
Table 2	Total Volume of Water Treated, Historical Operational Data, and Laboratory Analytical Results for PSP#1 (Effluent) and GAC-1 Samples
Table 3	Total Mass of Petroleum Hydrocarbons Removed by the Vapor Extraction System and Historical Operational Data
Table 4	October 2008 MPE Event, Operational Data
Table 5	October 2008 MPE Event, Extraction Data and VOC Mass Removal Rate
Table 6	October 2008 MPE Event, Mass Removal
Table 7	Dissolved-Phase Hydrocarbon Concentrations, Pre- and Post-MPE Event

LIST OF FIGURES

Figure 1	Site Vicinity Map
Figure 2	Site Map Showing Locations of Air Sparging Wells, Groundwater Monitoring Wells, Additional Soil Vapor Wells, GAC System, SVE System, and Extraction Well
Figure 3	Groundwater Elevation Contour Map in Feet, November 4, 2008
Figure 4	Contour Map of TPH-g Concentrations in the Groundwater November 4 and 13, 2008
Figure 5	Contour Map of Benzene Concentrations in the Groundwater November 4 and 13, 2008
Figure 6	Contour Map of MtBE Concentrations in the Groundwater (EPA Method 8260B) November 4 and 13, 2008
Figure 7	Schematic of the Groundwater Remediation System
Figure 8	Cumulative Mass of TPH-g and MtBE Removed from Groundwater Since Installation of the Treatment System
Figure 9	Block Diagram of the SVE System
Figure 10	Block Diagram of the Air Sparge System
Figure 11	Dissolved-Phase Hydrocarbon Concentrations in Groundwater, TPH-g, Pre- and Post-MPE Event in MW-1

- Figure 12 Dissolved-Phase Hydrocarbon Concentrations in Groundwater, Benzene, Pre- and Post-MPE Event in MW-1
- Figure 13 Dissolved-Phase Hydrocarbon Concentrations in Groundwater, MtBE, Pre- and Post-MPE Event in MW-1
- Figure 14 Dissolved-Phase Hydrocarbon Concentrations in Groundwater, TPH-g, Pre- and Post-MPE Event in MW-3
- Figure 15 Dissolved-Phase Hydrocarbon Concentrations in Groundwater, Benzene, Pre- and Post-MPE Event in MW-3
- Figure 16 Dissolved-Phase Hydrocarbon Concentrations in Groundwater, MtBE, Pre- and Post-MPE Event in MW-3
- Figure 17 Cumulative Mass of VOCs Removed
- Figure 18 Mass of VOCs Removed per Event
- Figure 19 Comparison of TPH-g Concentrations in MW-1
- Figure 20 Comparison of Benzene Concentrations in MW-1
- Figure 21 Comparison of MtBE Concentrations in MW-1
- Figure 22 Comparison of TPH-g Concentrations in MW-3
- Figure 23 Comparison of Benzene Concentrations in MW-3
- Figure 24 Comparison of MtBE Concentrations in MW-3

LIST OF APPENDICES

- Appendix A Standard Operating Procedures for Conducting Groundwater Monitoring Activities
- Appendix B Table of Elevations and Coordinates on Monitoring Wells and Field Measurements of Physical, Chemical, and Biodegradation Parameters of Groundwater
- Appendix C Chain of Custody Form and Laboratory Report
- Appendix D Chain of Custody Forms and Laboratory Reports for the Groundwater Extraction Treatment System
- Appendix E: October 2008 MPE Event Field Data Sheets
- Appendix F: October 2008 MPE Event Laboratory Report and Chain of Custody Form

1. INTRODUCTION

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

This report summarizes results of the Fourth Quarter 2008 groundwater monitoring event conducted at the site on November 4 and 13, 2008, and includes laboratory analytical results for the groundwater samples.

This report also describes operation of the groundwater remediation systems composed of groundwater pump-and-treat and groundwater air sparging, and results of October 2008 multi-phase extraction (MPE) conducted at the site. Locations of groundwater remediation systems are shown in Figure 2.

1.1 Summary of Field Activities

On November 4, 2008, eight on-site monitoring wells (MW-1 through MW-3, MW-4R, MW-5 through MW-8), two off-site wells (MW-10, MW-12), three French drain risers (FD Center, FD East, and FD West), and one extraction well (EX-1) were measured for depth to groundwater.

On November 4, 2008, additional field measurements and grab groundwater samples were collected from MW-1, MW-3, MW-6, MW-8, and MW-10. Quarterly sampling of MW-2, MW-4R, MW-5, MW-7, and MW-12 and testing for ferrous iron, nitrate, and sulfate was discontinued per ACEHS directive dated August 26, 2008. On November 13, 2008, MW-1, MW-3, and MW-6 were purged and sampled again for confirmation purposes.

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

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

1.2 Summary of Laboratory Analysis

Curtis & Tompkins, Ltd., a California state-certified laboratory, analyzed groundwater samples for the following:

- Total petroleum hydrocarbons as gasoline (TPH-g)
- Benzene, toluene, ethylbenzene, total xylenes (BTEX)
- Methyl tertiary-butyl ether (MtBE)

Samples were prepared using EPA Method 5030 and analyzed using EPA Method 8260B.

2. RESULTS

Following are results of field measurements and laboratory analyses for the Fourth Quarter 2008 groundwater monitoring event.

2.1 Field Measurements

As shown in Table 1, depths to groundwater for monitoring wells ranged from 11.94 feet in MW-10 to 14.24 feet in MW-6. Corresponding groundwater elevations ranged from 24.06 feet in MW-12 to 27.48 feet in MW-5. Groundwater elevations for FD Center, FD East, FD West and extraction well EX-1 were 23.33 feet, 26.43 feet, 25.22 feet, and 23.76 feet, respectively.

Figure 3 shows the groundwater elevation contour map. Groundwater flows toward extraction well FD Center at an approximate gradient of 0.054 feet/foot. The lowest site-wide groundwater elevation was measured in FD Center. Extraction well EX-1 and FD Center are providing a capture zone within the region of the UST cavity and in general have reduced off-site contaminant migration.

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

The most energetically preferred electron acceptor for redox reactions is dissolved oxygen (DO). Evaluating distribution of electron acceptors can provide evidence of where, and to what extent, hydrocarbon biodegradation is occurring.

Upon equalization of the surrounding aquifer, when the purge cycle was terminated, DO concentrations ranged from 0.49 mg/L in MW-3 to 4.28 mg/L in MW-10. Oxidation-reduction potential (ORP) showed negative redox potentials in MW-1, MW-3, and MW-6. Oxidation of petroleum hydrocarbons could have

occurred in these monitoring wells because negative redox potential indicates that contaminants in groundwater are conducive to anaerobic biodegradation. MW-8 and MW-10 showed positive redox potential. Positive redox potentials are more energetically favorable in utilizing electron acceptors during chemical reactions. This promotes the removal of organic mass from the contaminated groundwater by indigenous bacteria in the subsurface during the release of the transfer of electrons.

Testing for ferrous iron, nitrate, and sulfate was discontinued per ACEHS directive. Due to the extent of biodegradation data generated during quarterly monitoring events, SOMA has adequately characterized site groundwater.

2.2 Laboratory Analysis

Table 1 presents laboratory analysis results for groundwater samples collected during this monitoring event, and Appendix C contains chain of custody documentation and laboratory analytical reports.

TPH-g concentrations ranged from 130 µg/L in MW-10 to 16,000 µg/L in MW-6.

The following concentration trends were observed in tested wells:

- At MW-1 in the vicinity of the UST cavity, TPH-g increased since the previous monitoring event (Third Quarter 2008); however, the current TPH-g concentration is significantly lower than in Fourth Quarter 2006.
- At MW-3 in the vicinity of the UST cavity, TPH-g has increased since the previous monitoring event.
- Since the previous monitoring event, TPH-g has increased at MW-6.
- Since the previous monitoring event, TPH-g has remained constant at MW-8.
- Since the previous monitoring event, TPH-g has decreased in off-site well MW-10.

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

Figure 4 displays the contour map of TPH-g concentrations in groundwater. The highest TPH-g concentrations were detected in the vicinity of the pump islands at MW-6. Capture zones have been established at the French drain and extraction well, which have decreased off-site migration.

The following BTEX concentration trends were observed during this monitoring event:

- In MW-10, toluene and xylenes were below laboratory-reporting limits, and benzene and ethylbenzene were at low levels.
- The highest BTEX concentrations were detected in MW-6 at 1,000 µg/L, 300 µg/L, 950 µg/L, and 1,400 µg/L, respectively.

Figure 5 shows the contour map of benzene concentrations in groundwater. The majority of the benzene plume appears to be in the vicinity of the pump islands at MW-6. Refer to Table 1 for benzene concentration trends.

MtBE was below the laboratory-detection limit in MW-6. Detectable MtBE concentrations ranged from 3.0 µg/L in MW-10 to 10 µg/L in MW-8. Figure 6 shows the contour map of MtBE concentrations in groundwater.

3. GROUNDWATER TREATMENT SYSTEM OPERATION

The treatment system began operating on December 9, 1999. Since startup, 4,013,030 gallons of groundwater have been treated and discharged (as of December 11, 2008), into the East Bay Municipal Utility District (EBMUD) sewer system under the existing discharge permit.

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

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

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

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

As of December 11, 2008, the treatment system has removed approximately 240.96 pounds of hydrocarbons and 87.60 pounds of MtBE from groundwater at the site. Figure 8 shows approximate masses of TPH-g and MtBE removed from impacted groundwater during operation of the treatment system.

4. OPERATION OF AIR SPARGING SYSTEM

From February 22, 2006 to March 6, 2006, SOMA oversaw installation of the air sparging system, which consists of nine vapor extraction wells and three air sparge wells. The air sparge wells were installed in the vicinity of the UST cavity, pump islands, and near MW-6 (Figure 2). Figures 9 and 10 provide block diagrams of the air sparging and vapor extraction units.

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

The air sparging system was initially started on March 15, 2006. However, due to close proximity of the system to a residential area, the system was modified to reduce noise level. Specifically, a timer-controller was installed on the compressor limit operation to daytime hours. To further reduce noise, the existing blower unit, installed in 2000, was rebuilt and foam placed around it as a noise suppressant.

To more effectively increase removal of contaminants from 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, decreasing the actual layer of the unsaturated zone and greatly reducing the actual mass of contaminants in the soil that can be removed by the remedial system. Based on the reduction in the unsaturated region, as well as a reduction in the mass of contaminant vapors removed from the soil, the remedial system was shut down on November 7, 2006.

On May 23, 2007, SOMA restarted the SVE and air sparge systems and resumed recording field readings for these systems. Based on field measurements, it appeared that using both vacuum blowers in series on the

same extraction manifold had little effect on the air flow rate into the system or concentrations of hydrocarbons in the extracted gases. Therefore, the inlet piping from the well field was divided into two manifolds with the intent to use each vacuum pump to extract from a separate set of wells. However, due to alterations in the facility's main electrical supply panel made by non-SOMA personnel without SOMA's knowledge, the operation of both vacuum pumps at the same time was not possible because the resultant electrical load tripped the circuit breaker that includes the SVE system. Subsequent operation of the SVE system was limited to one blower at a time.

As shown in Table 3, approximately 967.2 pounds of hydrocarbons as vapor have been removed from impacted soil, as of September 28, 2007. The air sparging remedial system has been shut down since then. Table 3 also outlines the history of the SVE system.

5. OCTOBER 2008 MULTI-PHASE EXTRACTION EVENT

Based on an ACEHS directive dated August 26, 2008, MPE events were conducted in September and October 2008. The September event is documented in the report filed for Third Quarter 2008. The October event, on October 6-10, utilized wells MW-1, MW-3, and MW-6. MPE operational data is presented in Table 4. Extraction data is presented in Table 5. Field data sheets are presented in Appendix E. A representative sample was analyzed from the stack of the thermal oxidizer to show compliance with the BAAQMD permit. Table 6 lists sample identifiers and analysis results of vapor samples.

MPE was performed at MW-1, MW-3, and MW-6, starting on Monday, October 6, 2008, at 9:00 and ending on October 10, 2008, at 16:00. Total MPE time at MW-1, MW-3, and MW-6 was 5,880 minutes, or 98 hours.

The estimated mass of VOCs removed from the soil vapor extracted from MW-1, MW-3, and MW-6 during the MPE event was 137.61 lbs. The estimated VOC mass removal rate was 33.70 lbs/day.

As of the October 2008 MPE event, the cumulative total mass of VOCs extracted by MPE from extraction wells is 612.64 lbs (Figure 17); this includes 64 lbs extracted during the December 2007 pilot test, 24.3 lbs during the March 2008 event, 43.06 lbs during the April 2008 event, 46.19 lbs during the May 2008 event, 58.0 lbs during the June 2008 event, 239.48 lbs during the September 2008 event and 137.61 lbs during the October 2008 event. Figure 18 illustrates the mass of VOCs removed during each MPE event.

Listed in Table 7 are analysis results for groundwater samples collected from MW-1, MW-3, and MW-6 before and after the October 2008 MPE event. Also

listed in Table 7 are analysis results for groundwater samples collected from MW-1 and MW-3 during previous events. Figures 11 through 16 illustrate groundwater analysis results. Comparison of analysis results before and after the October 2008 MPE event indicates that concentrations of TPH-g and BTEX increased at MW-1 and MW-6 and decreased at MW-3. In the same comparison, concentrations of MtBE decreased at MW-3 and remained below the laboratory-reporting limit in MW-1 and MW-6. Increases in constituent concentrations illustrate that fuel hydrocarbons are still adsorbed to the smear zone while decreases illustrate that fuel hydrocarbons are being stripped and removed from the smear zone.

Figures 19 through 21 illustrate concentrations of TPH-g, benzene, and MtBE in monitoring well MW-1 from the Fourth Quarter 2007 monitoring event to the Fourth Quarter 2008 monitoring event, including six MPE events conducted during 2008. Figures 22 through 24 illustrate concentrations of TPH-g, benzene, and MtBE in monitoring well MW-3 from the Fourth Quarter 2007 monitoring event to the Fourth Quarter 2008 monitoring event, including six MPE events conducted during 2008.

6. CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

Conclusions based on findings of Fourth Quarter 2008 groundwater monitoring are summarized below.

1. In general, based on low groundwater elevations observed at EX-1, a capture zone remains established at this location.
2. The highest TPH-g concentration was detected in MW-6 at 16,000 µg/L. Compared with the previous monitoring event (Third Quarter 2008), TPH-g concentrations have increased in all tested wells, except at MW-10. It appears that MW-1, MW-3, and MW-6 are located within the remaining hotspot of the groundwater chemical plume.
3. It appears that MtBE concentrations in groundwater are diminishing across the site and that current maximum concentrations are below Environmental Screening Levels (ESLs) for industrial land use type where groundwater is not a potential drinking water source.
4. The source area remains in the vicinity of the UST cavity, pump islands, and eastern section of the mechanic shop at MW-1, MW-3, and MW-6. During this monitoring event, the highest BTEX concentrations were detected in MW-6 at 1,000 µg/L, 300 µg/L, 950 µg/L, and 1,400 µg/L, respectively.

5. In general, the GAC and SVE systems have effectively reduced peak contaminant levels beneath the site. Since initial startup, approximately 240.96 pounds of hydrocarbons and 87.60 pounds of MtBE have been removed from groundwater. Approximately 967.2 pounds of petroleum hydrocarbons have been removed from the vadose zone.
6. MPE events at the site have effectively reduced contaminant concentrations. The cumulative total mass of VOCs extracted by MPE during the pilot test and six subsequent MPE events is 612.64 lbs. Comparison of benzene concentrations with pre-MPE events shows a dramatic reduction in contaminant levels in source area wells such as MW-3 and MW-1.

6.2 Recommendations

Based on results of this monitoring event, and in accordance with the ACEHS directive dated August 26, 2008, SOMA will conduct the following action items:

1. Continue operation of the pump-and-treat system to maintain the removal rate of contaminant masses in groundwater.
2. Continue groundwater monitoring of wells MW-1, MW-3, MW-6, MW-8, and MW-10 during quarterly monitoring events.
3. The result of the recent soil gas study showed elevated levels of contaminant concentrations in soil gas next to French drain. SOMA recommends conducting additional MPE events using MW-6, MW-8 and MW-4R to reduce the contaminant levels below ESLs for site closure. Approximately 612.64 lbs of VOCs have been removed during MPE operations at the site.

7. REPORT LIMITATIONS

This report is the summary of work done by SOMA including observations and descriptions of site conditions. It includes analytical results produced by California state-certified laboratories for the current and previous monitoring events and summaries of data produced by environmental consultants for previous monitoring events. Quantities and locations of wells were selected to provide the required information, but may not be completely representative of entire site conditions. All conclusions and recommendations are based on laboratory analysis results. Conclusions beyond those specifically stated in this document should not be inferred from this report.

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

TABLES

Fourth Quarter 2008: Groundwater Monitoring and Remediation System Report
With Evaluation of Effectiveness of Monthly MPE

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
	5/24/2007	40.11	11.58	28.53	8,630	575	121	306	687	235
	8/21/2007	40.11	13.34	26.77	7,480	544	87	356	537	172
	11/15/2007	40.11	12.73	27.38	18,500	413	93.1	523	627	86.6
	2/22/2008	40.11	9.82	30.29	3,450	20.7	3.73	60.2	78.0	8.11
	5/7/2008	40.11	12.09	28.02	4,470	26.1	14.8	57.6	464.6	10.6
8/6/2008	40.11	13.43	26.68	3,400	17	7.8	73	309	3.7	
11/4/2008	40.11	13.69	26.42	7,500	40	49	190	810	8.7	
11/13/2008	40.11	NM	NM	7,700	43	30	180	740	8.8	

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	

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 cont.	1/3/2003	40.71	8.66	32.05	510	5	30.0	24.0	92	<2.0
	5/3/2003	40.71	9.17	31.54	1,300	14	88.0	78.0	271	<2.0
	7/24/2003	40.71	12.23	28.48	220	3.9	4.3	7	14.5	<2.0
	10/22/2003	40.71	13.65	27.06	170 H	1.9	<0.5	2.2	2.2	<2.0
	1/22/2004	40.71	9.54	31.17	860	7.2	37	50	151	<2.0
	4/1/2004	40.71	10.80	29.91	730	6.6	19	38	87	<2.0
	8/20/2004	40.71	13.54	27.17	220	2.2	1.9	7	11.7	<0.5
	12/8/2004	40.71	10.52	30.19	99	1.7	3.3	8.3	25.1	<0.5
	3/15/2005	40.71	8.06	32.65	5,690	18.7	120	315	876	<1.0
	5/17/2005	40.71	9.10	31.61	6,320	12.5	75	429	557	<2.15
	7/14/2005	40.71	11.10	29.61	7,680	14.1	46.3	522	471	<2.15
	10/13/2005	40.71	13.25	27.46	562	4.25	3.28	15	8.29	<0.50
	1/3/2006	40.71	6.72	33.99	340	2.5	4.4	22	50.2	<0.5
	4/7/2006	40.71	5.75	34.96	6,160	24	84.8	385	474	<2.15
	9/7/2006	40.71	12.58	28.13	114	2.45	<2.0	8.62	6.85	<0.5
	11/29/2006	40.71	12.26	28.45	293	5.02	3.25	24	15.15	<0.5
	2/27/2007	40.71	8.78	31.93	3,190	18.30	49.20	396	466	<1.0
	5/23/2007	40.71	11.09	29.62	<50.0	<0.500	<2.00	6.22	4.68	<0.500
	8/21/2007	40.71	13.31	27.40	241	3.12	<2.00	17.6	7.59	<0.500
	11/16/2007	40.71	12.59	28.12	61.1	5.09	<2.00	1.67	<2.00	<0.5
2/21/2008	40.71	8.56	32.15	<50	<0.5	<2.00	1.41	<2.00	<0.5	
5/7/2008	40.71	11.81	28.90	1,510	3.80	5.55	135	92.18	<0.5	
8/6/2008	40.71	13.39	27.32	1,900	4.6	6.7	98	114.7	<0.5	
11/4/2008	40.71	13.49	27.22	NA	NA	NA	NA	NA	NA	NA
MW-3	10/5/1994	97.78	15.79	81.99	3,000,000	190,000	740,000	310,000	130,000	NA
	12/2/1994	97.78	9.79	87.99	250,000	19,000	22,000	4,400	28,000	NA
	3/6/1995	97.78	8.69	89.09	350,000	20,000	42,000	5,800	36,000	NA
	6/5/1995	97.78	10.25	87.53	350,000	20,000	42,000	5,800	36,000	NA
	10/2/1995	97.78	12.91	84.87	150,000	510	410	210	65	NA
	1/3/1996	97.78	10.55	87.23	150,000	510	410	210	650	NA
	4/3/1996	97.78	8.76	89.02	NA	NA	NA	NA	NA	NA
	12/3/1996	97.78	12.02	85.76	NA	NA	NA	NA	NA	NA

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

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

Table 1
Historical Groundwater Elevation Data & Analytical Results
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-3 cont.	1/3/2006	40.91	7.50	33.41	8,700	650	98	330	860	280
	4/7/2006	40.91	6.74	34.17	16,800	677	239	802	1,018	564
	9/8/2006	40.91	12.95	27.96	26,400	1,660	381	933	1,545	332
	11/29/2006	40.91	12.78	28.13	15,100	2,080	381	1,290	1,624	247
	2/27/2007	40.91	9.43	31.48	5,950	1,100	116	531	500	170
	5/24/2007	40.91	11.63	29.28	8,240	1,360	116	540	696	37
	8/21/2007	40.91	13.75	27.16	13,200	2,240	119	868	983	36.4
	11/16/2007	40.91	13.25	27.66	5,490	2,360	52	523	213.9	43
	2/22/2008	40.91	10.07	30.84	7,840	402	64.5	496	430	<1
	5/7/2008	40.91	12.69	28.22	8,180	232	66.7	208	942	5.11
	8/6/2008	40.91	14.09	26.82	3,000	140	21	97	233	1.7
	11/4/2008	40.91	14.16	26.75	9,000	510	250	380	1,460	9.4
	11/13/2008	40.91	NM	NM	7,100	420	70	300	830	7.0
	MW-4	1/3/1996	97.85	10.11	87.74	9,300	230	110	10	29
4/3/1996		97.85	8.35	89.50	1,900	12	8	5	14	NA
12/9/1996		97.85	11.58	86.27	4,000	14	6	4	12	ND
4/10/1997		97.85	11.23	86.62	ND	ND	ND	ND	ND	ND
12/30/1997		97.85	9.43	88.42	2,300	410	270	100	1,500	NA
6/30/1998		97.85	NM	NM	1,700	780	160	54	200	NA
9/29/1998		97.85	13.64	84.21	6,200	910	77	68	200	18
12/16/1998		97.85	11.13	86.72	1,400	590	33	28	94	24
3/16/1999		97.85	8.46	89.39	600	200	35	19	56	11
6/10/1999		97.85	11.30	86.55	1,000	298	44	19	64	13
8/23/1999		97.85	13.20	84.65	660	497	41	54	145	6
11/9/1999		97.85	14.10	83.75	<50	<5	<5	<5	<5	<5
2/7/2000		97.85	11.25	86.60	7,800	1,200	61	<5	781	<5
5/31/2000		97.85	11.46	86.39	552	42	19	16	67	<5
8/9/2000		97.85	13.35	84.50	370	5.08	<5	<5	<5	<5
11/2/2000		97.85	13.05	84.80	ND	5.30	ND	ND	8	ND
3/13/2001		97.85	9.24	88.61	62	ND	ND	3.2	8.7	ND
5/22/2001		97.85	11.50	86.35	80	12	1.9	4.1	9.8	ND
8/8/2001		97.85	13.80	84.05	133	12	2.2	3.9	9	ND
11/19/2001		97.85	13.68	84.17	670	180	5	17	53	ND

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

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-4 cont.	2/21/2002	97.85	9.97	87.88	450	63	4.1	22	28.7	<2
	5/7/2002	97.85	10.81	87.04	570	72	29	27	74	<2
	7/30/2002	40.01	12.62	27.39	450	20	24	19	74	<2.0
	10/2/2002	40.01	14.34	25.67	320	69	0.99	9	5.49	<2.0
	1/3/2003	40.01	9.79	30.22	310	49	2.5	13	26.7	<2.0
	7/24/2003	40.01	12.44	27.57	<50	1	<0.5	<0.5	<0.5	<0.5
	10/22/2003	40.01	13.72	26.29	70	12	<0.5	4.7	3.0	<2.0
	1/22/2004	40.01	10.55	29.46	230	18	2.1	8.1	17.1	<2.0
	4/1/2004	40.01	11.39	28.62	<50	3.8	<0.5	1.6	1.9	<2.0
	8/20/2004	40.01	13.68	26.33	<50	1.6	<0.5	0.66	0.53	<2.0
	12/7/2004	40.01	10.95	29.06	<50	1.3	<0.5	2.80	<1.0	<0.5
	3/15/2005	40.01	8.61	31.40	661	72	4.13	39.7	48.42	<0.5
MW-4R	5/17/2005	40.34	9.88	30.46	7,780	170	11.1	192	121.2	<0.5
	7/14/2005	40.34	11.61	28.73	847	25.3	<2.0	28.2	10.9	<0.5
	10/13/2005	40.34	13.73	26.61	785	35.5	<2.0	48.2	8.35	<0.50
	1/3/2006	40.34	9.18	31.16	2,500	65	3.8	70	62	<0.5
	4/6/2006	40.34	7.70	32.64	852	42.4	2.25	28.4	17.13	<0.5
	9/7/2006	40.34	12.96	27.38	97.7	9.29	<2.0	4.05	1.03	<0.5
	11/28/2006	40.34	12.70	27.64	914	87	<2.0	15.10	10.40	<0.5
	2/26/2007	40.34	9.78	30.56	561	38.4	<2.0	41.30	9.67	<0.5
	5/23/2007	40.34	11.36	28.98	351	35.8	<2.0	23.20	4.82	<0.5
	8/20/2007	40.34	13.45	26.89	223	24.7	<2.0	9.15	2.54	<0.5
	11/15/2007	40.34	13.01	27.33	1,740	94.5	<2.0	41	15.52	<0.5
	2/22/2008	40.34	9.68	30.66	122	8.12	<2.0	3.14	<2.0	<0.5
	5/6/2008	40.34	12.17	28.17	68.9	3.12	<2.0	0.65	<2.0	<0.5
	8/5/2008	40.34	13.58	26.76	630	33	0.59	13	2	<0.5
11/4/2008	40.34	13.81	26.53	NA	NA	NA	NA	NA	NA	
MW-5	10/2/1995	99.04	13.57	85.47	1,500	1	1	4	5	NA
	1/3/1996	99.04	10.03	89.01	1,500	1	1	4	5	NA
	4/3/1996	99.04	8.24	90.80	780	1	1	5	4	NA
	12/9/1996	99.04	11.48	87.56	NA	NA	NA	NA	NA	NA
	4/10/1997	99.04	11.35	87.69	NA	NA	NA	NA	NA	NA

Table 1
Historical Groundwater Elevation Data & Analytical Results
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-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	

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-5 cont.	3/15/2005	41.16	8.18	32.98	496	<0.5	<0.5	<0.5	<1.0	1.91
	5/17/2005	41.16	9.22	31.94	360	<0.5	<0.5	<0.5	<1.0	1.72
	7/14/2005	41.16	11.30	29.86	267	<0.5	<2.0	<0.5	<1.0	1.74
	10/13/2005	41.16	13.57	27.59	404	<0.50	<2.0	<0.50	<1.0	0.93
	1/3/2006	41.16	6.81	34.35	170	2.2	<0.5	1.8	3.1	1.1
	4/7/2006	41.16	5.81	35.35	449	<0.5	<2.0	0.53	<1.0	1.16
	9/7/2006	41.16	12.78	28.38	185	<0.5	<2.0	2.02	<1.0	<0.5
	11/28/2006	41.16	12.62	28.54	158	0.64	<2.0	<0.5	<2.0	<0.5
	2/26/2007	41.16	8.92	32.24	78.2	<0.5	<2.0	<0.5	<2.0	0.52
	5/23/2007	41.16	11.36	29.80	58.4	<0.5	<2.0	4.36	<2.0	<0.5
	8/20/2007	41.16	13.52	27.64	82.4	0.52	<2.0	4.49	2.3	<0.5
	11/16/2007	41.16	12.74	28.42	<50	3.45	<2.00	<0.5	<2.0	0.58
	2/21/2008	41.16	8.67	32.49	131	<0.5	<2.0	<0.5	<2.0	<0.5
	5/6/2008	41.16	12.06	29.10	300	<0.5	<2.0	<0.5	<2.0	0.52
	8/5/2008	41.16	13.64	27.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/4/2008	41.16	13.68	27.48	NA	NA	NA	NA	NA	NA	
MW-6	10/1/1995	98.77	13.94	84.83	NA	NA	NA	NA	NA	NA
	1/1/1996	98.77	10.55	88.22	120,000	350	310	200	610	NA
	4/1/1996	98.77	8.76	90.01	NA	NA	NA	NA	NA	NA
	12/1/1996	98.77	12.04	86.73	NA	NA	NA	NA	NA	NA
	4/1/1997	98.77	11.76	87.01	NA	NA	NA	NA	NA	NA
	12/1/1997	98.77	9.30	89.47	NA	NA	NA	NA	NA	NA
	9/1/1998	98.77	14.10	84.67	NA	NA	NA	NA	NA	NA
	12/1/1998	98.77	11.60	87.17	NA	NA	NA	NA	NA	NA
	3/16/1999	98.77	8.40	90.37	37,000	3,900	4,300	1,600	7,000	180
	6/10/1999	98.77	11.90	86.87	18,500	2,060	1,650	735	3,170	ND
	8/23/1999	98.77	13.90	84.87	42,000	3,806	3,649	1,554	7,996	10
	11/9/1999	98.77	14.75	84.02	40,000	1,084	130	<5	10,940	<5
	2/7/2000	98.77	10.95	87.82	17,000	1,360	521	<5	4,150	6
	8/9/2000	98.77	13.78	84.99	24,000	1,306	870	<5	5,162	<5
11/2/2000	98.77	13.40	85.37	19,000	1,387	618	ND	5,250	ND	

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

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-6 cont.	3/13/2001	98.77	9.49	89.28	15,637	713	459	238	2,363	ND
	5/22/2001	98.77	11.82	86.95	27,000	760	450	1,600	4,270	ND
	8/8/2001	98.77	NM	NM	NA	NA	NA	NA	NA	NA
	11/19/2001	98.77	NM	NM	NA	NA	NA	NA	NA	NA
	2/21/2002	98.77	9.92	88.85	14,000	440	180	750	1,020	<10
	5/7/2002	98.77	11.33	87.44	10,000	400	160	470	970	<2
	7/30/2002	40.92	13.28	27.64	24,000	1,000	410	1,400	3,770	<20
	10/20/2002	40.92	14.93	25.99	22,000	1,200	620	1,300	2,800	<20
	1/3/2003	40.92	9.78	31.14	12,000	730	230	740	1,690	<20
	5/3/2003	40.92	9.92	31.00	150,000 H	1,400	780	2,500	8,700	<40
	7/24/2003	40.92	12.98	27.94	29,000	1,600	520	1,500	4,400	<200
	10/22/2003	40.92	14.35	26.57	36,000	1,300	430	1,600	4,570	<40
	1/22/2004	40.92	10.60	30.32	30,000	1,300	320	1,500	3,040	<50
	4/1/2004	40.92	11.80	29.12	99,000	1,700	580 C	2,200	5,200	<50
	8/20/2004	40.92	14.36	26.56	12,000	580	130	520	1,020	<10
	12/8/2004	40.92	11.22	29.70	12,631	649	134	1,009	2,037	<2.15
	3/16/2005	40.92	8.94	31.98	18,300	546	126	705	1,069	<2.15
	5/17/2005	40.92	10.02	30.90	38,500	1,290	395	1,550	1,652	<5.50
	7/15/2005	40.92	11.78	29.14	50,100	1,510	409	1,900	1,920	<5.50
	10/13/2005	40.92	14.04	26.88	9,620	513	97.4	523	422.3	<2.15
	1/3/2006	40.92	7.86	33.06	13,000	260	79.0	680	750	<4.2
	4/7/2006	40.92	6.93	33.99	18,200	650	151	918	715	<5.5
	9/8/2006	40.92	13.12	27.80	18,600	604	98.80	639	659	<2.15
11/28/2006	40.92	12.95	27.97	20,300	656	96.30	1,060	760	7.86	
2/27/2007	40.92	9.68	31.24	8,440	249	36.30	697	316.8	<2.15	
5/24/2007	40.92	11.59	29.33	11,400	292	34.8	493	278.5	<2.15	
8/21/2007	40.92	13.88	27.04	9,480	727	87.6	761	590	<2.15	
11/16/2007	40.92	13.29	27.63	5,430	436	29.8	439	147.8	<2.15	
2/22/2008	40.92	9.41	31.51	4,870	100	9.56	331	76.9	<1.0	
5/7/2008	40.92	12.47	28.45	8,700	125	10.3	365	209.3	<1.0	
8/6/2008	40.92	13.98	26.94	7,900	82	6.9	300	126.3	<2.0	
11/4/2008	40.92	14.24	26.68	11,000	880	260	770	1,240	<6.3	
11/13/2008	40.92	NM	NM	16,000	1,000	300	950	1,400	<2.0	

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

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

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-7 cont.	1/22/2004	39.94	9.23	30.71	380	<0.5	1.4 C	<0.5	<0.5	<5.0
	4/1/2004	39.94	10.40	29.54	480	<0.5	2.5 C	<0.5	0.90	0.62
	8/20/2004	39.94	12.92	27.02	410	<0.5	.81 C	<0.5	<0.5	1.70
	12/7/2004	39.94	10.28	29.66	96	<0.5	<0.5	<0.5	<1.0	<0.5
	3/16/2005	39.94	7.44	32.50	209	<0.5	<0.5	<0.5	<1.0	1.74
	5/16/2005	39.94	8.53	31.41	262	4.85	2.19	2.36	4.24	0.73
	7/14/2005	39.94	10.61	29.33	753	20.6	11.9	16.8	33.23	2.36
	10/13/2005	39.94	12.80	27.14	1,690	5.3	2.71	12.6	54	1.93
	1/3/2006	39.94	6.39	33.55	250 Y	0.80	<0.5	0.61	<0.5	1.1
	4/7/2006	39.94	8.10	31.84	3,440	0.64	<2.0	17	<1.0	<0.5
	9/7/2006	39.94	14.52	25.42	320	2.87	<2.0	4.76	1.34	<0.5
	11/28/2006	39.94	12.17	27.77	774	1.81	<2.0	6.76	3.03	<0.5
	2/26/2007	39.94	10.41	29.53	1,240	<0.5	<2.0	6.83	<2.0	<0.5
	5/23/2007	39.94	10.16	29.78	265	<0.5	<2.0	5.38	<2.0	<0.5
	8/20/2007	39.94	12.98	26.96	<50.0	0.78	<2.0	4.87	2.36	<0.5
	11/15/2007	39.94	12.45	27.49	135	<0.5	<2.00	0.54	<2.0	<0.5
	2/21/2008	39.94	8.79	31.15	<50	3.18	<2.0	1.69	<2.0	<0.5
5/6/2008	39.94	11.31	28.63	<50	<0.5	<2.0	<0.5	<2.0	<0.5	
8/5/2008	39.94	13.03	26.91	<50	<0.5	<0.5	<0.5	0.91	<0.5	
11/4/2008	39.94	13.19	26.75	NA	NA	NA	NA	NA	NA	
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	

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-8 cont.	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
	3/13/2001	97.25	8.75	88.50	2,360	81	16	71	270	221
	8/8/2001	97.25	12.97	84.28	5,620	153	46	373	345	174
	11/19/2001	97.25	13.19	84.06	13,000	600	270	750	1,200	400
	2/21/2002	97.25	9.88	87.37	240,000	1,400	<25	4,200	6,560	<100
	5/7/2002	97.25	10.32	86.93	9,000	360	56	560	622	2,100
	7/30/2002	39.38	11.79	27.59	8,400	340	78	530	517	1,200
	10/20/2002	39.38	13.80	25.58	18,000	950	75	1,400	1,269	700
	1/3/2003	39.38	9.48	29.90	8,100	300	29	370	302	1,100
	5/3/2003	39.38	9.48	29.90	18,000	380	33 C	1,000	516	540
	7/24/2003	39.38	11.92	27.46	12,000	460	54 C	910	435	890
	10/22/2003	39.38	13.09	26.29	16,000	830	87	2,000	675	280
	1/22/2004	39.38	10.32	29.06	18,000	330	37 C	860	239	500
	4/1/2004	39.38	11.23	28.15	12,000	240	26 C	650	128.8 C	<4
	8/20/2004	39.38	13.02	26.36	6,000	310	27	660	56.8 C	<4
	12/8/2004	39.38	10.79	28.59	6,650	171	15	360	35	166
	3/15/2005	39.38	7.62	31.76	11,400	125	21	418	55.3	865
	5/16/2005	39.38	9.15	30.23	10,100	122	13.2	440	34.73	406
	7/14/2005	39.38	10.81	28.57	11,600	213	27.8	854	71.51	184
	10/13/2005	39.38	12.81	26.57	6,590	256	27.7	655	48.50	375
	1/3/2006	39.38	7.40	31.98	4,800	53	5.2	130	21	210
	4/6/2006	39.38	6.04	33.34	8,240	82.5	14.6	364	28.06	771
	9/7/2006	39.38	12.15	27.23	4,130	86.80	7.32	173	19.73	48.60
	11/28/2006	39.38	11.92	27.46	3,680	198	15.10	313	23.82	149
	2/27/2007	39.38	8.52	30.86	5,690	122	15.10	455	33.62	203
	5/24/2007	39.38	10.79	28.59	3,400	32.60	4.35	177	14.65	69.5
	8/20/2007	39.38	12.71	26.67	1,310	58.60	4.22	106	7.20	26.8
	11/15/2007	39.38	12.13	27.25	10,300	169	11.1	281	12.0	60.4
	2/22/2008	39.38	8.51	30.87	5,130	33.3	4.12	218	5.87	<0.5
5/6/2008	39.38	11.41	27.97	3,490	20.3	2.38	90.3	0.77	21.8	
8/5/2008	39.38	12.82	26.56	2,900	97	11	170	17	13	
11/4/2008	39.38	13.11	26.27	2,900	110	15	420	25	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-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
	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
	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	

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-10 cont.	1/3/2006	36.71	6.81	29.90	2,000	350	6.0	210	16	88	
	4/6/2006	36.71	6.03	30.68	600	86.5	<2.0	59.1	2.36	30.4	
	9/7/2006	36.71	10.90	25.81	6,960	360	<8.60	253	11.30	103	
	11/28/2006	36.71	10.92	25.79	2,800	305	<8.6	228	<8.6	72.8	
	2/26/2007	36.71	8.02	28.69	9,470	1,400	29.3	1,260	32.60	263.0	
	5/23/2007	36.71	9.54	27.17	860	138	2.45	69.2	4.65	30.9	
	8/20/2007	36.71	11.47	25.24	86.6	2.88	<2.00	5.98	2.30	2.68	
	11/15/2007	36.71	11.12	25.59	492	104	<2.00	41.2	<2.0	18.7	
	2/21/2008	36.71	7.85	28.86	2,040	228	4.44	193	2.68	11	
	5/6/2008	36.71	10.19	26.52	2,510	161	3.36	130	<2.0	23	
	8/5/2008	36.71	11.50	25.21	200	3.2	<0.5	3.7	<0.5	2.9	
	11/4/2008	36.71	11.94	24.77	130	3.8	<0.5	4.3	<0.5	3.0	
	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		

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-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
	5/6/2008	NS	NM	NC	NA	NA	NA	NA	NA	NA
	8/5/2008	NS	NM	NC	NA	NA	NA	NA	NA	NA
11/4/2008	NS	NM	NC	NA	NA	NA	NA	NA	NA	NA
MW-12	11/9/1999	94.84	13.20	81.64	80	<5	<5	<5	<5	229
	2/7/2000	94.84	10.20	84.64	4,000	351	37	<5	24	513
	5/31/2000	94.84	10.48	84.36	3,930	230	10	34	12	200
	8/9/2000	94.84	12.07	82.77	1,730	15.4	12.4	<5	<5	185
	11/2/2000	94.84	12.05	82.79	1,010	9.3	19.0	ND	7.40	215
	3/13/2001	94.84	9.04	85.80	1,517	13	5.6	5.5	11	214
	5/22/2001	94.84	10.52	84.32	31,000	1,200	ND	95	165	1,900
	8/8/2001	94.84	12.24	82.60	2,090	71	1.8	3	4	142
	11/19/2001	94.84	12.76	82.08	3,000	81	69	13	73	120
	2/21/2002	94.84	8.78	86.06	2,500	77	<0.5	5.7	7.4	95
	5/7/2002	94.84	10.26	84.58	2,700	74	<0.5	20	5.1	94
	7/30/2002	36.84	10.93	25.91	2,200	57	<0.5	11	2.6	100
	10/20/2002	36.84	13.13	23.71	2,600	71	<0.5	<0.5	10.3	84

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

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-12 cont.	1/3/2003	36.84	9.23	27.61	2,300	65	<0.5	1	4.00	86
	5/3/2003	36.84	9.24	27.60	2,200	58	<0.5	4.2 C	4.1 C	96
	7/24/2003	36.84	11.44	25.40	2,200	32 C	16 C	<0.5	9.20	66
	10/22/2003	36.84	12.50	24.34	2200 H	31 C	<0.5	<0.5	3.5 C	49
	1/22/2004	36.84	9.56	27.28	1,700	24 C	14 C	3	5.00	72
	4/1/2004	36.84	10.21	26.63	2,000	11 C	<0.5	<0.5	5 C	36
	8/20/2004	36.84	12.00	24.84	1,900	8.9 C	<0.5	<0.5	1.1 C	26
	12/7/2004	36.84	10.03	26.81	1,018	2	<0.5	<0.5	<1.0	26
	3/15/2005	36.84	8.49	28.35	1,890	4.25	<0.5	6.38	<1.0	30.6
	5/16/2005	36.84	9.07	27.77	1,080	<0.5	<0.5	<0.5	<1.0	20.6
	7/14/2005	36.84	10.43	26.41	1,580	2.71	<2.0	3.33	<1.0	29.3
	10/13/2005	36.84	12.08	24.76	1,560	0.74	<2.0	<0.50	<1.0	28.1
	1/3/2006	36.84	7.89	28.95	480 Y	13	<0.5	<0.5	<0.5	30
	4/6/2006	36.84	7.92	28.92	1,310	<0.5	<2.0	<0.5	<1.0	31.1
	9/7/2006	36.84	11.44	25.40	1,220	0.61	<2.0	2.69	<1.0	23.7
	11/28/2006	36.84	11.61	25.23	543	2.15	<2.0	1.72	<2.0	27.6
	2/26/2007	36.84	9.04	27.80	5,580	9.81	11	8.52	31.3	14.2
	5/23/2007	36.84	10.37	26.47	350	<0.5	<2.0	4.74	2.32	18.9
	8/20/2007	36.84	12.03	24.81	556	0.68	<2.0	4.81	2.41	20.3
	11/15/2007	36.84	11.84	25.00	678	0.79	<2.0	0.51	<2.0	20.4
2/21/2008	36.84	8.86	27.98	375	0.59	<2.0	1.06	<2.0	2.52	
5/6/2008	36.84	10.85	25.99	742	<0.5	<2.0	0.70	<2.0	8.92	
8/5/2008	36.84	12.15	24.69	550	0.56	<0.5	<0.5	<0.5	13	
11/4/2008	36.84	12.78	24.06	NA	NA	NA	NA	NA	NA	
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
	5/23/2007	39.35	14.23	25.12	NA	NA	NA	NA	NA	NA
8/20/2007	39.35	15.92	23.43	NA	NA	NA	NA	NA	NA	
11/15/2007	39.35	15.98	23.37	NA	NA	NA	NA	NA	NA	
2/21/2008	39.35	10.22	29.13	NA	NA	NA	NA	NA	NA	
5/6/2008	39.35	14.95	24.40	NA	NA	NA	NA	NA	NA	
8/5/2008	39.35	16.05	23.30	NA	NA	NA	NA	NA	NA	
11/4/2008	39.35	16.02	23.33	23.33	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
	5/23/2007	40.06	12.72	27.34	NA	NA	NA	NA	NA	NA
	8/20/2007	40.06	13.49	26.57	NA	NA	NA	NA	NA	NA
11/15/2007	40.06	13.28	26.78	NA	NA	NA	NA	NA	NA	
2/21/2008	40.06	9.86	30.20	NA	NA	NA	NA	NA	NA	
5/6/2008	40.06	12.42	27.64	NA	NA	NA	NA	NA	NA	
8/5/2008	40.06	13.54	26.52	NA	NA	NA	NA	NA	NA	
11/4/2008	40.06	13.63	26.43	26.43	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	
5/23/2007	39.16	12.44	26.72	NA	NA	NA	NA	NA	NA	
8/20/2007	39.16	15.08	24.08	NA	NA	NA	NA	NA	NA	
11/15/2007	39.16	15.12	24.04	NA	NA	NA	NA	NA	NA	
2/21/2008	39.16	8.93	30.23	NA	NA	NA	NA	NA	NA	
5/6/2008	39.16	12.01	27.15	NA	NA	NA	NA	NA	NA	
8/5/2008	39.16	14.15	25.01	NA	NA	NA	NA	NA	NA	
11/4/2008	39.16	13.94	25.22	NA	NA	NA	NA	NA	NA	NA
EX-1	2/27/2007	40.51	9.05	31.46	15,900	1,400	1,190	725	2,880	185
	5/23/2007	40.51	15.37	25.14	NA	NA	NA	NA	NA	NA
	8/20/2007	40.51	17.42	23.09	NA	NA	NA	NA	NA	NA
	11/15/2007	40.51	13.28	27.23	NA	NA	NA	NA	NA	NA
	2/21/2008	40.51	16.91	23.60	NA	NA	NA	NA	NA	NA
	5/6/2008	40.51	17.38	23.13	NA	NA	NA	NA	NA	NA
	8/5/2008	40.51	17.38	23.13	NA	NA	NA	NA	NA	NA
11/4/2008	40.51	16.75	23.76	NA	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)
-----------------	------	---	-----------------------------	------------------------------	--------------	----------------	----------------	----------------------	----------------------	------------------------------------

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 Laboratory Analytical Results for PSP #1 (Effluent) and GAC-1 Samples
3609 International Boulevard, Oakland, California

Month	Date	Effluent	Lab Results For PSP #1 ¹ and GAC-1 Samples					
		Totalizer Reading (gallons)	MtBE ² (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
2008								
December	12/11/2008	4,013,030	<0.5	<50	<0.5	<0.5	<0.5	<0.5
			<0.5	<50	<0.5	<0.5	<0.5	<0.5
September	9/8/2008	3,973,338	<0.5	<50	<0.5	<0.5	<0.5	<0.5
			<0.5	<50	<0.5	<0.5	<0.5	<0.5
June	6/9/2008	3,927,778	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
May	5/21/2008	Polishing drum changed						
March	3/4/2008	3,839,508	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
2007								
October	10/31/2007	3,673,410	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
July	7/27/2007	3,643,880	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
May	5/17/2007	3,590,070	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
April	4/27/2007	3,561,230	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
	4/20/2007	3,546,800	Startup of groundwater extraction from the new extraction well EX-1. As of this date, groundwater is being extracted from three wells at the site (EX-1, West Riser, and Center Riser).					
March	3/16/2007	3,528,090	<0.5	<50	<0.5	<2.0	<0.5	<2.0
			<0.5	<50	<0.5	<2.0	<0.5	<2.0
February	2/22/2007	3,510,560	<0.5	<50	<0.5	<2.0	<0.5	<2.0
	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	<50	<0.5	<2.0	<0.5	<2.0
			1.37	<50	1.68	<2.0	1.25	<2.0

Table 2
Total Volume of Water Treated, Historical Operational Data,
and Laboratory Analytical Results for PSP #1 (Effluent) and GAC-1 Samples
3609 International Boulevard, Oakland, California

Month	Date	Effluent Totalizer Reading (gallons)	Lab Results For PSP #1 ¹ and GAC-1 Samples					
			MtBE ² (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
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
September	9/27/2006	3,441,500	<0.5 <0.5	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
August	8/14/2006	3,425,340	<0.5 <0.5	<50 <50	<0.5 <0.5	<2.0 <2.0	<0.5 <0.5	<1.0 <1.0
July	7/24/2006	3,414,800	<0.5 <0.5	<50 <50	<0.5 0.94	<2.0 <2.0	<0.5 <0.5	<1.0 <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					
May	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					

Table 2
Total Volume of Water Treated, Historical Operational Data,
and Laboratory Analytical Results for PSP #1 (Effluent) and GAC-1 Samples
3609 International Boulevard, Oakland, California

Month	Date	Effluent Totalizer Reading (gallons)	Lab Results For PSP #1 ¹ and GAC-1 Samples					
			MtBE ² (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
2006								
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
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
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 Laboratory Analytical Results for PSP #1 (Effluent) and GAC-1 Samples
3609 International Boulevard, Oakland, California

Month	Date	Effluent Totalizer Reading (gallons)	Lab Results For PSP #1 ¹ and GAC-1 Samples					
			MtBE ² (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
2005								
March	3/21/2005	2,874,170	<0.5 <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					
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 Semi Annual Treatment System Meeting With Ebmud Replaced 55-gallon polishing vessel and restarted the system Carbon Changed Out and 55 Gallon Drum Changed Out					
	5/10/2004	2,488,760						
	5/17/2004	2,518,910						
	5/5/2004	2,500,650						
	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

Table 2
Total Volume of Water Treated, Historical Operational Data,
and Laboratory Analytical Results for PSP #1 (Effluent) and GAC-1 Samples
3609 International Boulevard, Oakland, California

Month	Date	Effluent Totalizer Reading (gallons)	Lab Results For PSP #1 ¹ and GAC-1 Samples					
			MtBE ² (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)
2004								
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	< 5.0 < 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	< 5.0 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
2003								
December	12/8/2003	2,092,330	< 5.0 <5.0	< 5.0 < 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	< 5.0 < 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	< 5.0 < 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	< 5.0 < 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	< 5.0 < 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	< 5.0 < 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	< 5.0 < 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	< 5.0 < 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	< 5.0 < 50	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0	< 5.0 < 5.0
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	< 5.0 < 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	< 5.0 < 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	< 5.0 < 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	< 5.0 < 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 Laboratory Analytical Results for PSP #1 (Effluent) and GAC-1 Samples
3609 International Boulevard, Oakland, California

Month	Date	Effluent Totalizer Reading (gallons)	Lab Results For PSP #1 ¹ and GAC-1 Samples						
			MtBE ² (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)	
2003									
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 2/19/2003	1,804,960 1,791,720	replaced 55-gallon polishing vessel with new 55 gallon carbon drum						< 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	
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 Laboratory Analytical Results for PSP #1 (Effluent) and GAC-1 Samples
3609 International Boulevard, Oakland, California

Month	Date	Effluent	Lab Results For PSP #1 ¹ and GAC-1 Samples					
		Totalizer Reading (gallons)	MtBE ² (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)
2002								
March	3/25/2002 3/18/2002 3/14/2002	1,478,420 NR 1,478,330	performed carbon change-out on treatment system replaced piston on compressor 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 7/11/2001	1,227,270 1,226,730	ND ND NA NA	ND ND NA NA	ND ND NA NA	ND ND NA NA	ND ND NA NA	ND ND NA NA
June	6/29/2001 6/26/2001 6/16/2001 6/7/2001	1,224,600 NR 1,216,580 1,216,580	NA ND NA NA	NA ND NA NA	NA ND NA NA	NA ND NA NA	NA ND NA NA	NA ND NA NA
installed new compressor compressor not working, repaired compressor								
May	5/30/2001 5/23/2001 5/17/2001 5/10/2001 5/5/2001	1,205,198 1,194,390 1,182,360 1,166,850 1,151,600	NA NA NA ND ND NA NA	NA NA NA ND ND NA NA	NA NA NA ND ND NA NA	NA NA NA ND ND NA NA	NA NA NA ND ND NA NA	NA NA NA ND ND NA NA
April	4/28/2001 4/21/2001 4/11/2001 4/6/2001	1,135,690 1,113,570 1,082,700 1,065,540	NA NA NA ND NA NA	NA NA NA ND NA NA	NA NA NA ND NA NA	NA NA NA ND NA NA	NA NA NA ND NA NA	NA NA NA ND NA NA

Table 2
Total Volume of Water Treated, Historical Operational Data,
and Laboratory Analytical Results for PSP #1 (Effluent) and GAC-1 Samples
3609 International Boulevard, Oakland, California

		Effluent	Lab Results For PSP #1 ¹ and GAC-1 Samples						
		Totalizer Reading	MtBE ² (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Total Xylenes (ug/L)	
Month	Date	(gallons)							
2001									
March	3/29/2001	1,036,330	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	3/21/2001	1,036,070	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	system was re-started								
	3/17/2001	1,035,100	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
	belt replaced on compressor								
	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 System shut down for maintenance and cleaning.						
	2/10/2001	975,490							
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	
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
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	

Table 2
Total Volume of Water Treated, Historical Operational Data,
and Laboratory Analytical Results for PSP #1 (Effluent) and GAC-1 Samples
3609 International Boulevard, Oakland, California

		Effluent	Lab Results For PSP #1 ¹ and GAC-1 Samples						
Month	Date	Totalizer Reading (gallons)	MtBE ² (ug/L)	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	
2000									
June	6/29/2000	700,000	ND	ND	ND	ND	ND	ND	
	6/21/2000	682,220	ND	ND	ND	ND	ND	ND	
May	6/16/2000	669,720	ND	ND	ND	ND	ND	ND	
	6/10/2000	651,200	ND	ND	ND	ND	ND	ND	
	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	
April	5/10/2000	530,400	ND	ND	ND	ND	ND	ND	
	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						
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						
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						
	1/14/2000	83,500	second polishing GAC was replaced with 55 gallon GAC unit						
			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	
	12/9/1999	9,000	230	ND	ND	ND	ND	ND	
Pumping began on December 6, 1999									

Notes:

- The designator "Effluent" used on sampling and laboratory documents refers to samples collected from PSP #1.
 - MTBE was analyzed using EPA Method 8260B, prior to the September 2003. After September 2003, MtBE was only analyzed by EPA Method 8021B.
 - 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
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					
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

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					
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
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						
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							
2007									
5/23/2007	System Re-started								
5/23/2007	10:45 AM	31.3	0	85	1	144,330	5,100	0.04	
5/29/2007	11:00 AM	11.2	1.7	80	144.25	19,594,920	692,400	2.00	
6/11/2007	12:00 PM	8.1	1.1	80	313	42,517,920	1,502,400	3.14	
6/20/2007	3:00 PM	1.4	0.5	75	219	27,889,650	985,500	0.36	
7/3/2007	12:00 PM	1.5	0.4	75	1	127,350	4,500	0.00	
7/12/2007	12:00 PM	8	0.3	80	144.25	19,594,920	692,400	1.43	
7/27/2007	9:30 AM	8.5	0.4	85	313	45,175,290	1,596,300	3.50	
8/7/2007	3:30 PM	14	0.9	105	219	39,045,510	1,379,700	4.98	
8/21/2007	2:00 PM	16.5	0	110	1	186,780	6,600	0.03	
9/7/2007	12:30 PM	12.2	0.1	105	144.25	25,718,333	908,775	2.86	
9/21/2007	10:00 AM	1.9	0.3	84	313	44,643,816	1,577,520	0.77	
9/28/2007	11:00 AM	1.9	0.3	85	219	31,608,270	1,116,900	0.55	
Total Mass of Petroleum Hydrocarbons Removed =								967.20	
Average Daily Removal Rate (pounds / day)=								0.37	

Notes:

- ¹ The representative molecular weight of hydrocarbons was assumed to be 150 gram/mole and use the measured temperature of Vapor (25°C) in converting ppm-v to ppm on mass basis.
- ² System accidentally shut down from main box, readings taken 30 minutes after 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)

Table 4

**October 2008 MPE Event
Operational Data**

3609 International Boulevard
Oakland, California

DATE	TIME	PID (ppmv)	WELL MANIFOLD VACUUM (In. of Hg)	OXIDIZER TEMPERATURE (°F)	WELL FIELD VAPOR FLOW RATE (scfm)	TOTAL SYSTEM VAPOR FLOW RATE (scfm)	DILUTION AIR FLOW RATE (scfm)	SYSTEM (BLOWER) VACUUM (In. of Hg)	SYSTEM TOTALIZER READING (gallons)	COMMENTS
10/6/2008	900									begin at MW-1, MW-3, MW-6; groundwater samples collected
	930	5,710	25	1,587	41	41	0	26.8	110	
	1130	3,200	21.6	1,549	82	82	0	24.2	310	
	1230	2,430	21.2	1,528	85	85	0	24	395	
	1330	2,210	20.8	1,505	90	90	0	23.7	472	
	1430	2,030	20.9	1,498	90	90	0	23.7	560	
	1500	2,090	20.9	1,497	89	89	0	23.8	596	
	730	2,070	20.8	1,535	79	79	0	24.4	1,903	
	1230	2,200	20	1,450	89	89	0	23.8	1,903	
	1330	2,100	20	1,458	89	89	0	23.8	1,977	
10/7/2008	1530	1,643	20	1,459	89	89	0	23.8	2,176	In = 2,090; Eff = 12 Transfer pump leaking, repaired seal, ordered part, restart @ 1130
	1630	1,625	20	1,458	89	89	0	23.8	2,258	
	800	811	20	1,481	89	89	0	23.8	3,538	
	900	770	19.4	1,467	95	95	0	23.4	3,627	
10/8/2008	1030	786	19.4	1,456	95	95	0	23.4	3,839	replaced pump seal 11-12, restart @ 1200
	1200	888	19	1,449	98	98	0	23.2	3,913	
	1300	1,006	19	1,455	98	98	0	23.2	3,963	
	1400	914	19	1,457	100	100	0	23.1	4,078	
	1500	873	19	1,466	101	101	0	23	4,156	
	1600	874	18.9	1,453	101	101	0	23	4,273	
	1630	870	18.8	1,464	101	101	0	23	4,311	
	800	720	18.5	1,477	104	104	0	22.8	5,692	

Table 4
October 2008 MPE Event
Operational Data

3609 International Boulevard
Oakland, California

DATE	TIME	PID (ppmv)	WELL MANIFOLD VACUUM (In of Hg)	OXIDIZER TEMPERATURE (°F)	WELL FIELD VAPOR FLOW RATE (scfm)	TOTAL SYSTEM VAPOR FLOW RATE (scfm)	DILUTION AIR FLOW RATE (scfm)	SYSTEM (BLOWER) VACUUM (In of Hg)	SYSTEM TOTALIZER READING (gallons)	COMMENTS
10/10/2008	900	725	18.4	1,465	108	108	0	22.6	5,768	
	1030	708	18.4	1,446	106	106	0	22.7	5,883	
	1130	728	18.4	1,475	108	108	0	22.6	5,949	
	1230	846	18.4	1,461	106	106	0	22.7	6,035	
	1330	723	18.3	1,442	109	109	0	22.5	6,122	
	1530	677	18.3	1,440	109	109	0	22.5	6,291	
	1630	691	18.2	1,460	109	109	0	22.5	6,292	
	1030	646	18.3	1,437	109	109	0	22.5	7,789	
	1130	664	18.2	1,455	111	111	0	22.4	7,866	
	1230	664	18.1	1,407	111	111	0	22.4	7,927	
	1330	624	17.9	1,315	111	111	0	22.4	8,022	
	1430	641	18.2	1,464	111	111	0	22.4	8,097	
	1530	662	18.2	1,459	111	111	0	22.4	8,174	
	1600	661	18.3	1,456	109	109	0	22.5	8,202	

Totalizer readings = 8,202 gallons
Total time of test = 5,880 minutes = 98 hours

Notes

- ppmv parts per million vapor
- In of Hg inches of mercury
- In of H₂O inches of water
- °F degrees Fahrenheit
- scfm standard cubic feet per minute

Table 5
October 2008 MPE Event
Extraction Data and VOC Mass Removal Rate

3609 International Boulevard
Oakland, California

WELL	COMMENT	DATE	CLOCK TIME	INCREMENTAL TIME	ELAPSED TIME	Q			PID		MASS REMOVAL					
						minutes	minutes	SCFM	ft ³ of extracted air	Moles of extracted air	ppmv as hexane	VOC mole %	lb VOC mass removal as hexane	lbs/min	lbs/day	
MW-1/3/6	START	10/6/2008	900	0												
			930	30	30	41	1,228	3.2404	5,710	0.0057	1.5950	0.0532	77			
			1130	120	150	82	9,863	26.0246	3,200	0.0032	7.1786	0.0598	86			
			1230	60	210	85	5,122	13.5147	2,430	0.0024	2.8309	0.0472	68			
			1330	60	270	90	5,408	14.2683	2,210	0.0022	2.7181	0.0453	65			
			1430	60	330	90	5,408	14.2683	2,030	0.0020	2.4968	0.0416	60			
		10/7/2008	1500	30	360	89	2,656	7.0086	2,090	0.0021	1.2626	0.0421	61			
			730	990	1,350	79	78,231	206.4132	2,070	0.0021	36.8311	0.0372	54			
			1230	60	1,410	89	5,312	14.0171	2,200	0.0022	2.6582	0.0443	64			
			1330	60	1,470	89	5,312	14.0171	2,100	0.0021	2.5374	0.0423	61			
			1530	120	1,590	89	10,625	28.0343	1,643	0.0016	3.9704	0.0331	48			
			1630	60	1,650	89	5,312	14.0171	1,625	0.0016	1.9635	0.0327	47			
		10/8/2008	800	930	2,580	89	82,344	217.2657	811	0.0008	15.1887	0.0163	24			
			900	60	2,640	95	5,693	15.0220	770	0.0008	0.9971	0.0166	24			
			1030	90	2,730	95	8,540	22.5330	786	0.0008	1.5267	0.0170	24			
			1200	30	2,760	98	2,942	7.7622	888	0.0009	0.5942	0.0198	29			
			1300	60	2,820	98	5,884	15.5244	1,006	0.0010	1.3462	0.0224	32			
			1400	60	2,880	100	5,979	15.7756	914	0.0009	1.2429	0.0207	30			
			1500	60	2,940	101	6,074	16.0268	873	0.0009	1.2061	0.0201	29			
			1600	60	3,000	101	6,074	16.0268	874	0.0009	1.2074	0.0201	29			
			1630	30	3,030	101	3,037	8.0134	870	0.0009	0.6010	0.0200	29			
			10/9/2008	800	930	3,960	104	97,101	256.2030	720	0.0007	15.9010	0.0171	25		
				900	60	4,020	108	6,455	17.0316	725	0.0007	1.0644	0.0177	26		
				1030	90	4,110	106	9,540	25.1706	708	0.0007	1.5362	0.0171	25		
		1130		60	4,170	108	6,455	17.0316	728	0.0007	1.0688	0.0178	26			
		1230		60	4,230	106	6,360	16.7804	846	0.0008	1.2237	0.0204	29			
		1330		60	4,290	109	6,550	17.2828	723	0.0007	1.0771	0.0180	26			
		10/10/2008	1530	120	4,410	109	13,100	34.5657	677	0.0007	2.0172	0.0168	24			
			1630	60	4,470	109	6,550	17.2828	691	0.0007	1.0294	0.0172	25			
			1030	1080	5,550	109	117,904	311.0913	646	0.0006	17.3232	0.0160	23			
			1130	60	5,610	111	6,645	17.5341	664	0.0007	1.0036	0.0167	24			
			1230	60	5,670	111	6,645	17.5341	664	0.0007	1.0036	0.0167	24			
			1330	60	5,730	111	6,645	17.5341	624	0.0006	0.9431	0.0157	23			
			1430	60	5,790	111	6,645	17.5341	641	0.0006	0.9688	0.0161	23			
			1530	60	5,850	111	6,645	17.5341	662	0.0007	1.0006	0.0167	24			
			1600	30	5,880	109	3,275	8.6414	661	0.0007	0.4924	0.0164	24			
			TOTAL													
			MEDIAN						101	567,562	1498	846	0.0008	137.61	0.0234	33.70

Notes

- Q volumetric flow rate
- SCFM standard cubic feet per minute
- ft³ cubic feet per minute
- VOC volatile organic compounds
- PID photo-ionization detector
- ppmv parts per million vapor

DERIVATION OF MASS REMOVAL RATE

$$\text{ppmv as hexane} / 1,000,000 = \text{VOC mole \%}$$

$$\text{ft}^3 \text{ of extracted air} / (379 \text{ ft}^3 \text{ air/lb-mole air}) = \text{moles of extracted air}$$

$$(\text{moles of extracted air})(\text{VOC mole \%})(86.2 \text{ lb/lb-mole hexane}) = \text{lbs of VOC removed as hexane}$$

$$(\text{lbs of VOC mass removed as hexane})(\text{elapsed time}) = \text{lbs/min of VOC removed as hexane}$$

$$(\text{lbs/min of VOC removed as hexane})(60 \text{ min/1 hour})(24 \text{ hours/1 day}) = \text{lbs/day of VOC removed as hexane}$$

Table 6

**October 2008 MPE Event
Mass Removal**

3609 International Boulevard
Oakland, California

Extraction Well	Vapor Sample ID	Collection Date/Time	PID	Q (CFM)	Mass Removal Rate (lbs/day) (VOCs)	Total Test time (minutes/days)	Total Mass Removed (lbs) (VOCs)
			ppmv (hexane)				
MW-1/3/6	Influent	10/6/2008 @ 1500	2,090(a)	101	33.70	5,880/4.08	137.61 (b)
MW-1/3/6	Stack	10/6/2008 @ 1450	12(a)	101	N/A	N/A	N/A
REMOVAL EFFICIENCIES			99.4258%				

Notes

- CFM cubic feet per minute
- lbs/day pounds per day
- (a) dilution factor 1
- (b) average value

**DERIVATION OF MASS REMOVAL RATE
DERIVATION OF TOTAL MASS REMOVED**
Table 2

DERIVATION OF REMOVAL EFFICIENCIES
INFLUENT sample concentration / STACK concentration

Table 7**Dissolved-Phase Hydrocarbon Concentrations
Pre- and Post-MPE Event**3609 International Boulevard
Oakland, California

Monitoring Well	Date	MPE Event	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)
MW-1	12/3/2007	Pilot Test	839	9	<2	1	<2.5	4
	12/7/2007	Pilot Test	2,270	20	6	34	50	11
	3/24/2008	March 2008	<50	<0.5	<2.0	<0.5	<2.5	<0.5
	3/28/2008	March 2008	705	10	4	8	40	5
	4/14/2008	April 2008	<50	<0.5	<2.0	<0.5	<2.5	<0.5
	4/18/2008	April 2008	3,710	27	21	47	303	11
	5/12/2008	May 2008	<50	<0.5	<2.0	<0.5	<2.0	1
	5/16/2008	May 2008	2,780	28	3	2	82	25
	6/9/2008	June 2008	<50	<0.5	<2.0	<0.5	<2.0	1
	6/13/2008	June 2008	1,730	11	8	53	92	9
	9/8/2008	September 2008	170 ^Y	0.68	<0.5	<0.5	<0.5	<0.5
	9/16/2008	September 2008	420 ^Y	1.20	1	1	16	<0.5
	10/6/2008	October 2008	130	0.78	<0.5	<0.5	1	<0.5
	10/14/2008	October 2008	160	1.30	1	1	9	<0.5

Table 7**Dissolved-Phase Hydrocarbon Concentrations
Pre- and Post-MPE Event**3609 International Boulevard
Oakland, California

Monitoring Well	Date	MPE Event	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)
MW-3	12/3/2007	Pilot Test	2,040	2,200	<22	115	33	25
	12/7/2007	Pilot Test	4,610	785	57	275	262	6
	3/24/2008	March 2008	4,720	251	8	384	270	3
	3/28/2008	March 2008	13,700	653	395	514	1,153	<2.15
	4/14/2008	April 2008	6,350	124	19	231	464	<0.5
	4/18/2008	April 2008	4,630	191	101	74	692	<2.15
	5/12/2008	May 2008	3,460	111	8	99	222	<0.5
	5/16/2008	May 2008	16,600	795	371	427	3,807	10
	6/9/2008	June 2008	3,770	177	8	161	209	1
	6/13/2008	June 2008	6,910	534	283	233	1,241	<5.5
	9/8/2008	September 2008	2200 ^Y	64	14	73	103	2
	9/16/2008	September 2008	320 ^Y	9	1	<0.5	22	5
	10/6/2008	October 2008	2,400	250	59	99	320	6
	10/14/2008	October 2008	270	16	2	1	24	5
MW-6	9/8/2008	September 2008	4600 ^Y	340	15	120	118	<2.5
	9/12/2008	September 2008	5,800 ^Y	300	66	110	518	<2
	10/6/2008	October 2008	5,400	890	110	53	588	<5
	10/14/2008	October 2008	10,000	900	280	540	1,550	<6.3

Notes:

TPHg = Total petroleum hydrocarbons as gasoline

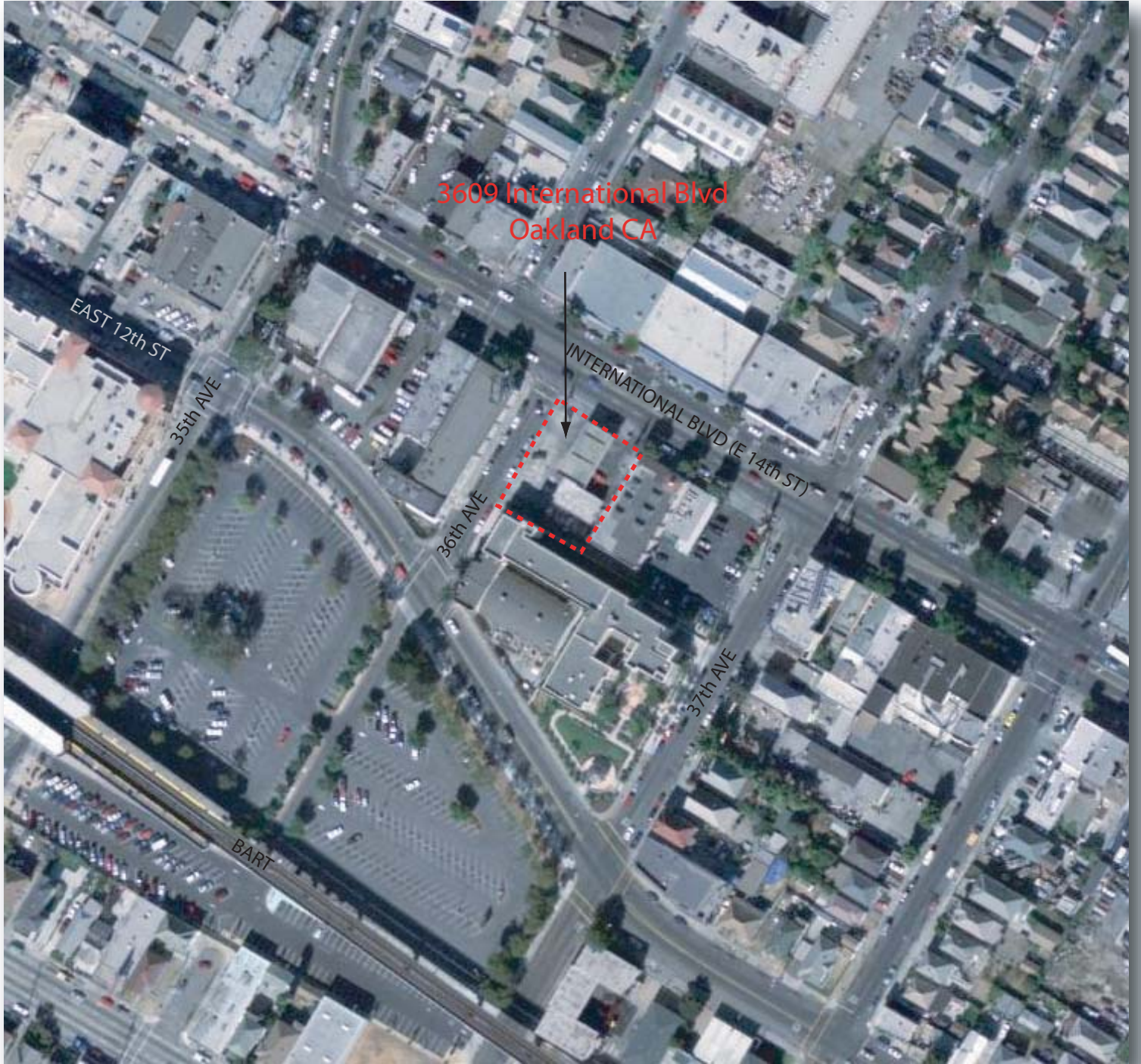
TPHd = Total petroleum hydrocarbons as diesel

MTBE = methyl-tertiary-butyl ether

ug/l - Micrograms per liter

FIGURES

Fourth Quarter 2008: Groundwater Monitoring and Remediation System Report
With Evaluation of Effectiveness of Monthly MPE



3609 International Blvd
Oakland CA

EAST 12th ST

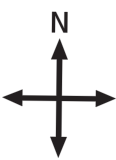
35th AVE

36th AVE

37th AVE

INTERNATIONAL BLVD (E 14th ST)

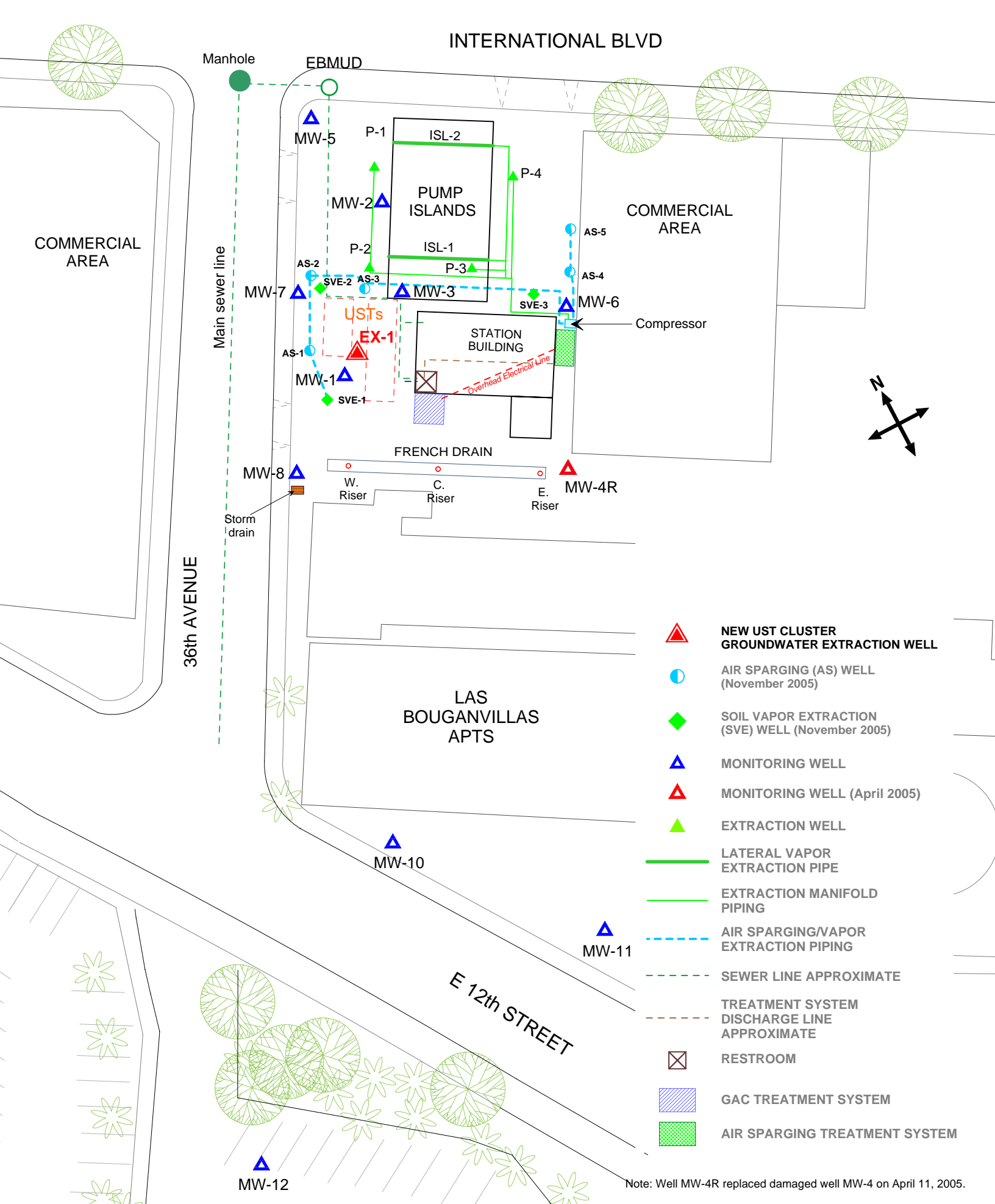
BART



approximate scale in feet



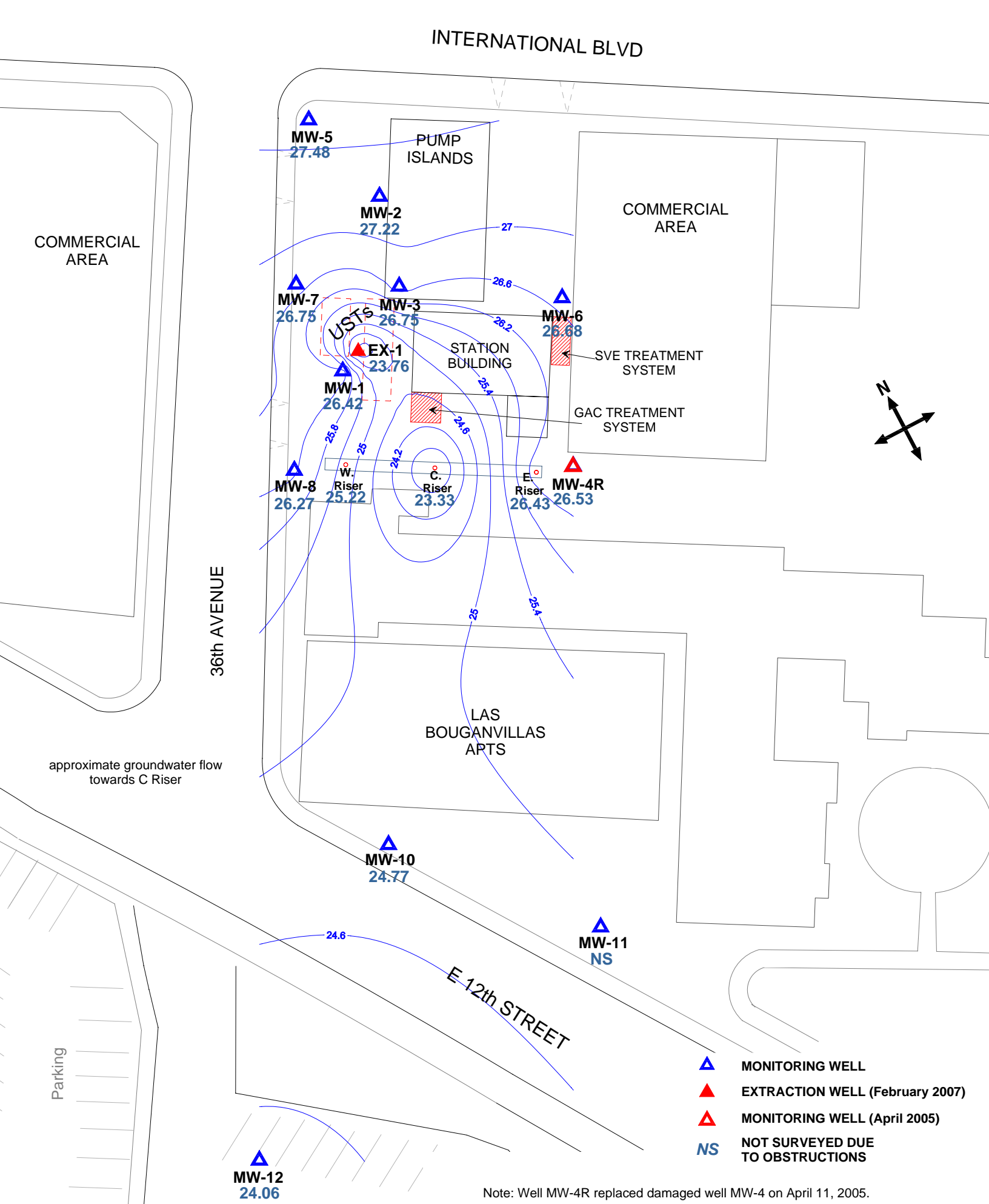
Figure 1: Site vicinity map.



approximate scale in feet
 0 20 40

Figure 2: Site map showing the locations of air sparging wells, groundwater monitoring wells, additional vapor wells, GAC System, SVE system, & extraction well





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

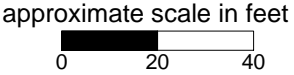
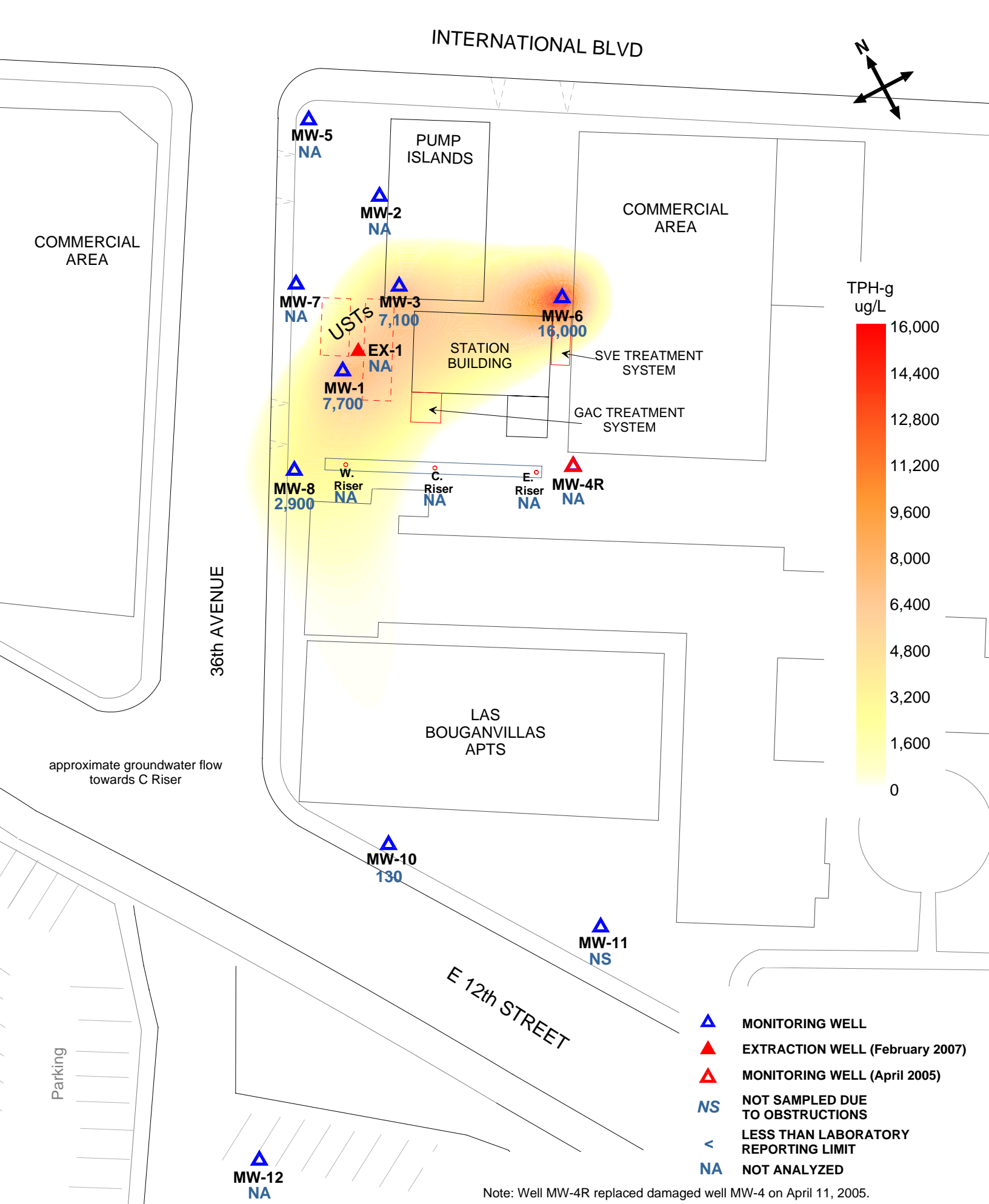


Figure 3: Groundwater elevation contour map in feet, November 4, 2008





approximate scale in feet



Figure 4: Contour map of TPH-g concentrations in the groundwater. November 4 and 13, 2008



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

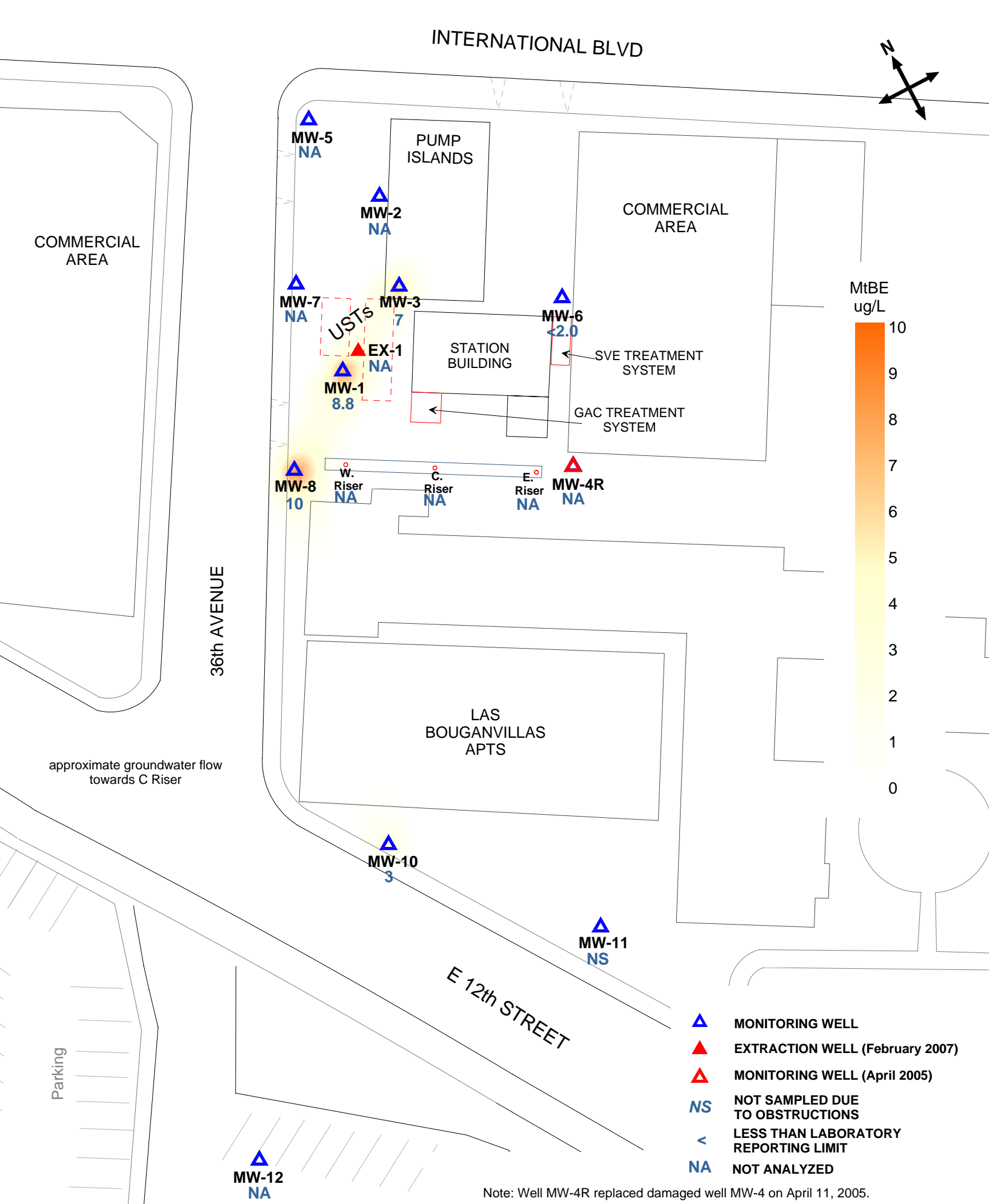
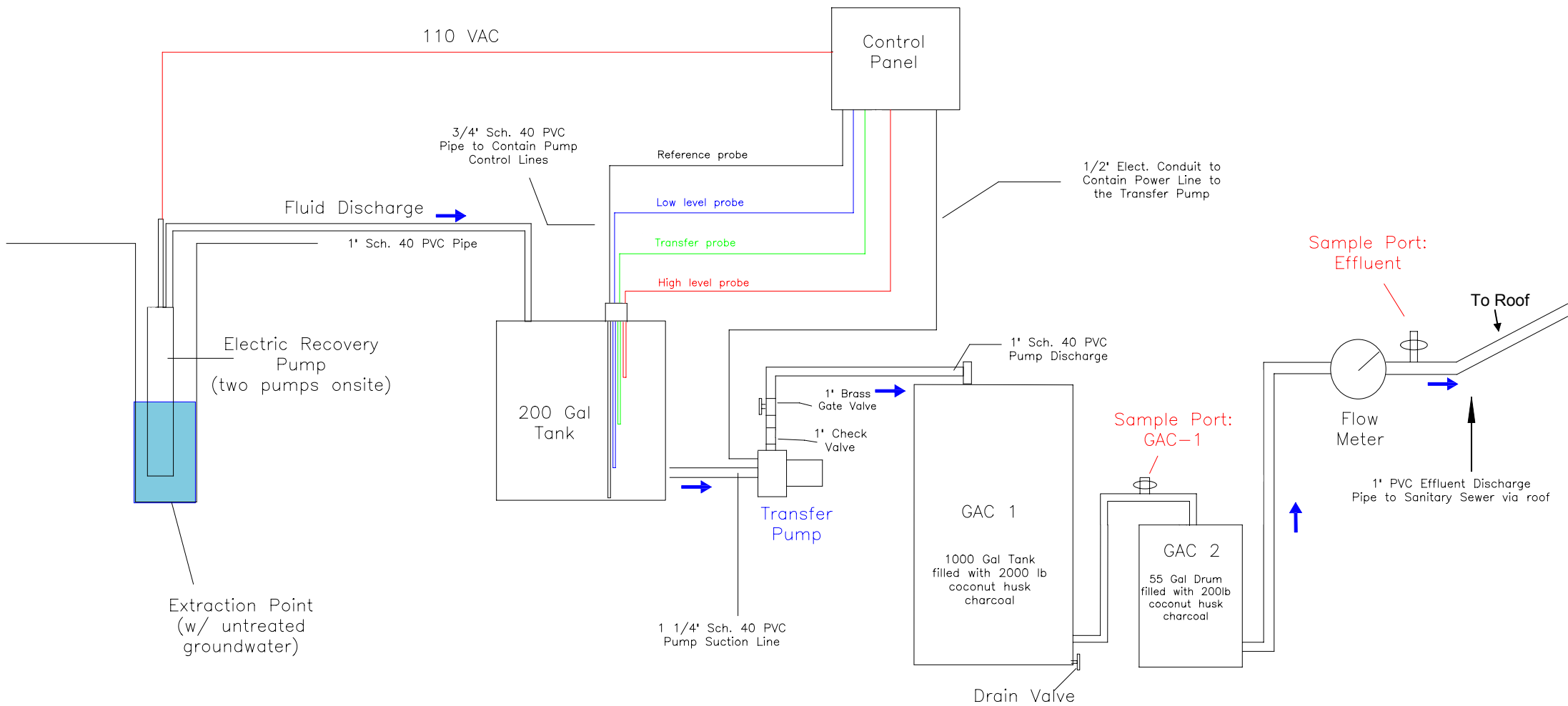


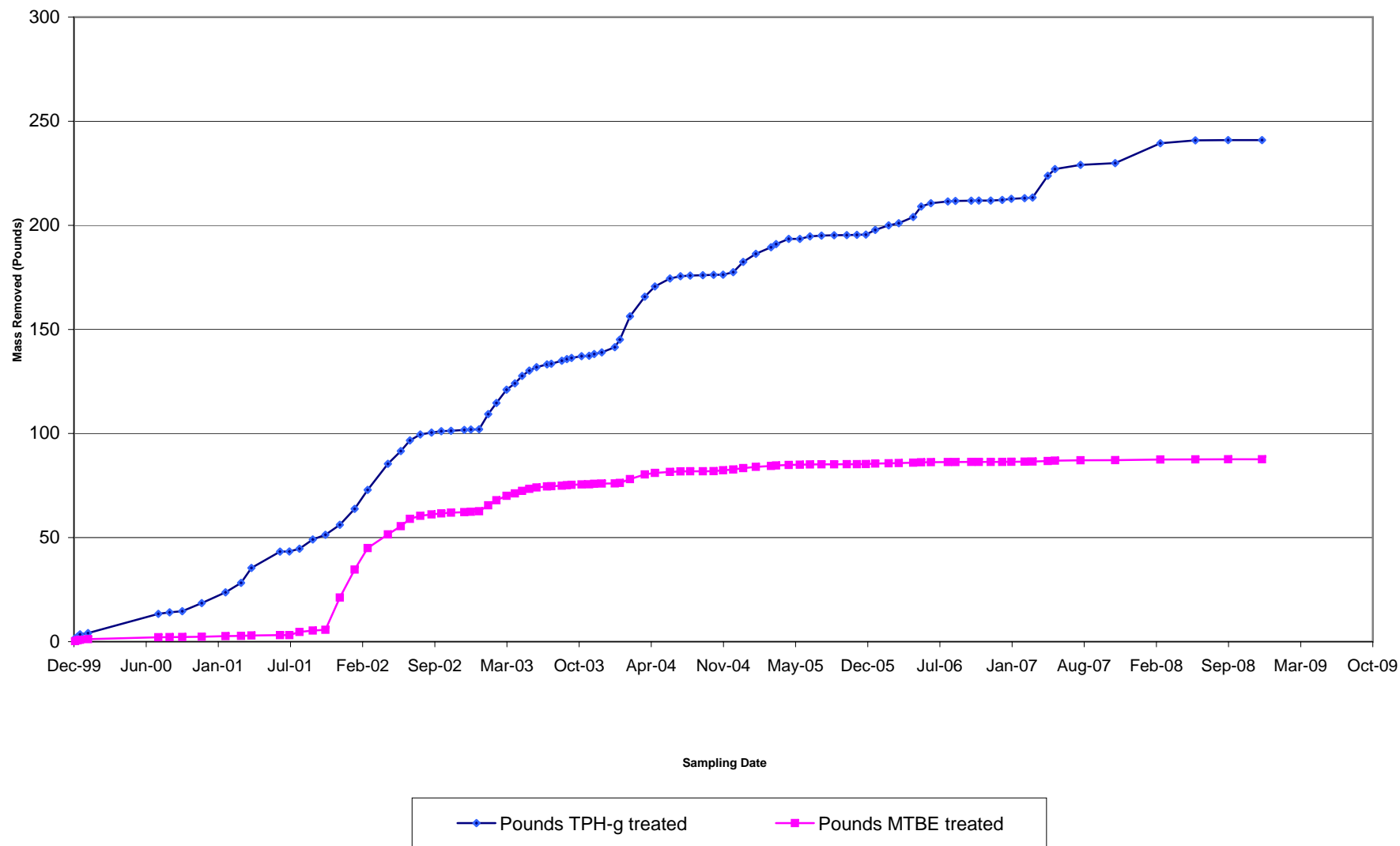
Figure 6: Contour map of MtBE concentrations in the groundwater (EPA Method 8260B). November 4 and 13, 2008



(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



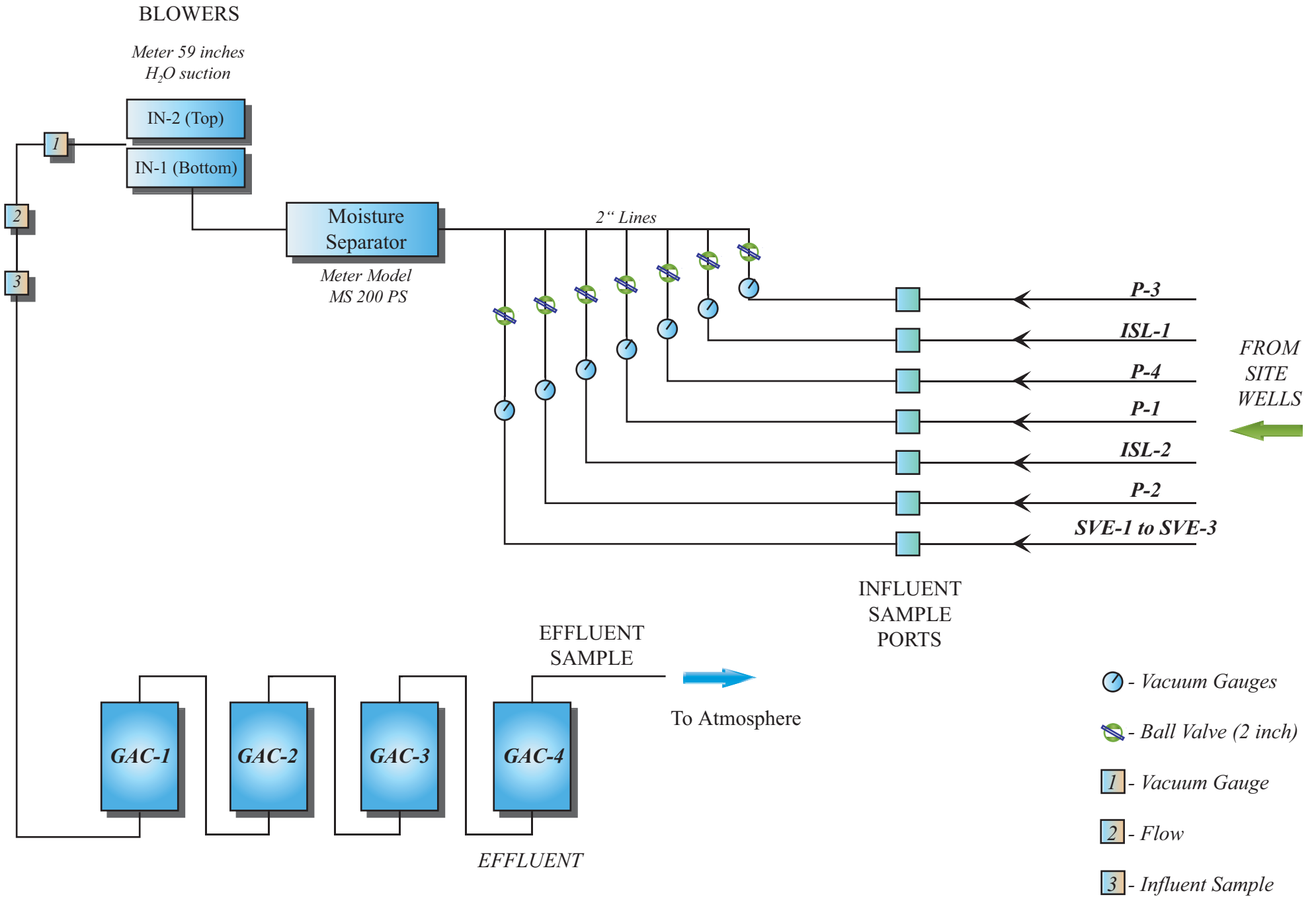


Figure 9: Block Diagram of SVE System

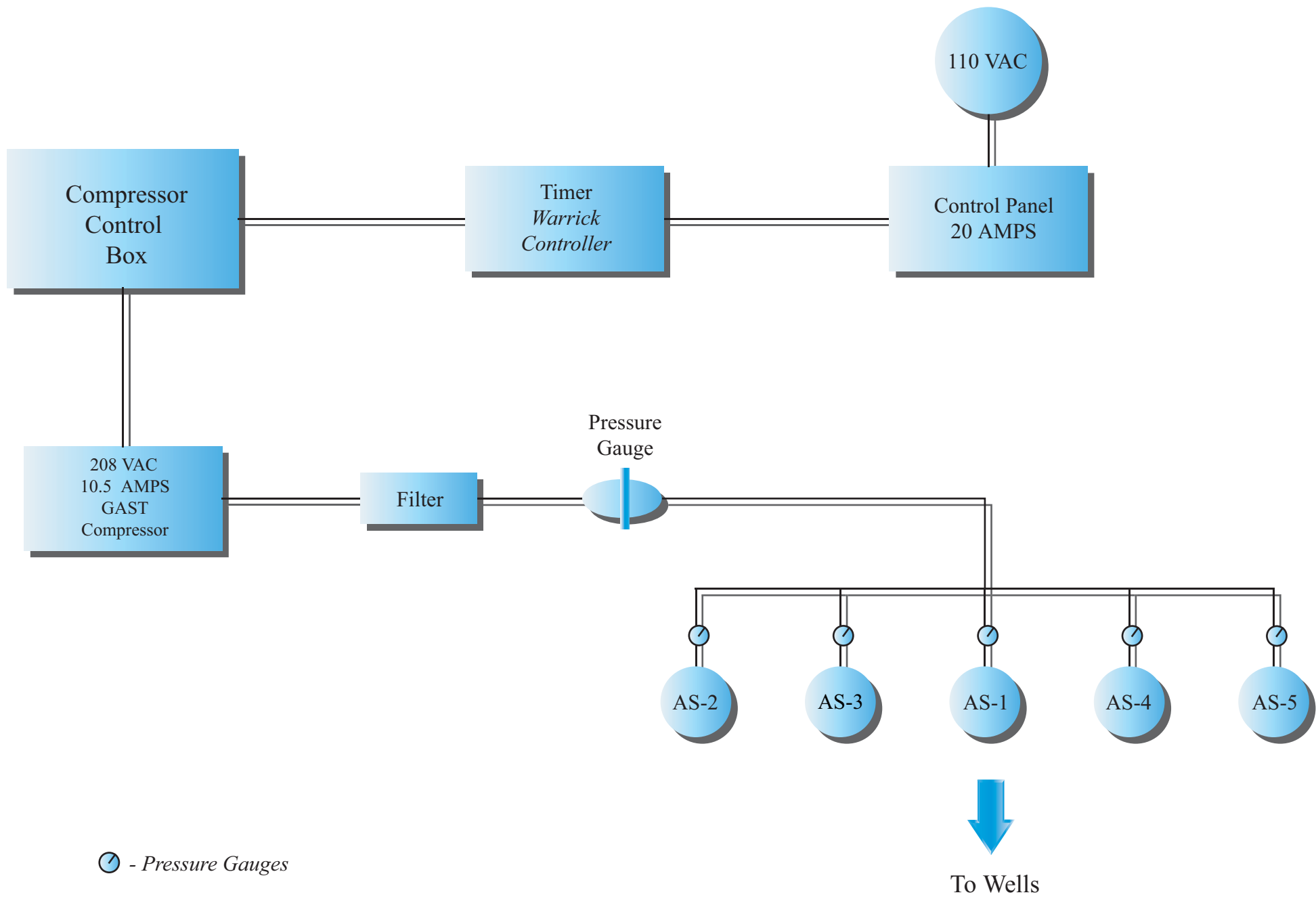


Figure 10: Block diagram of the Air Sparge System

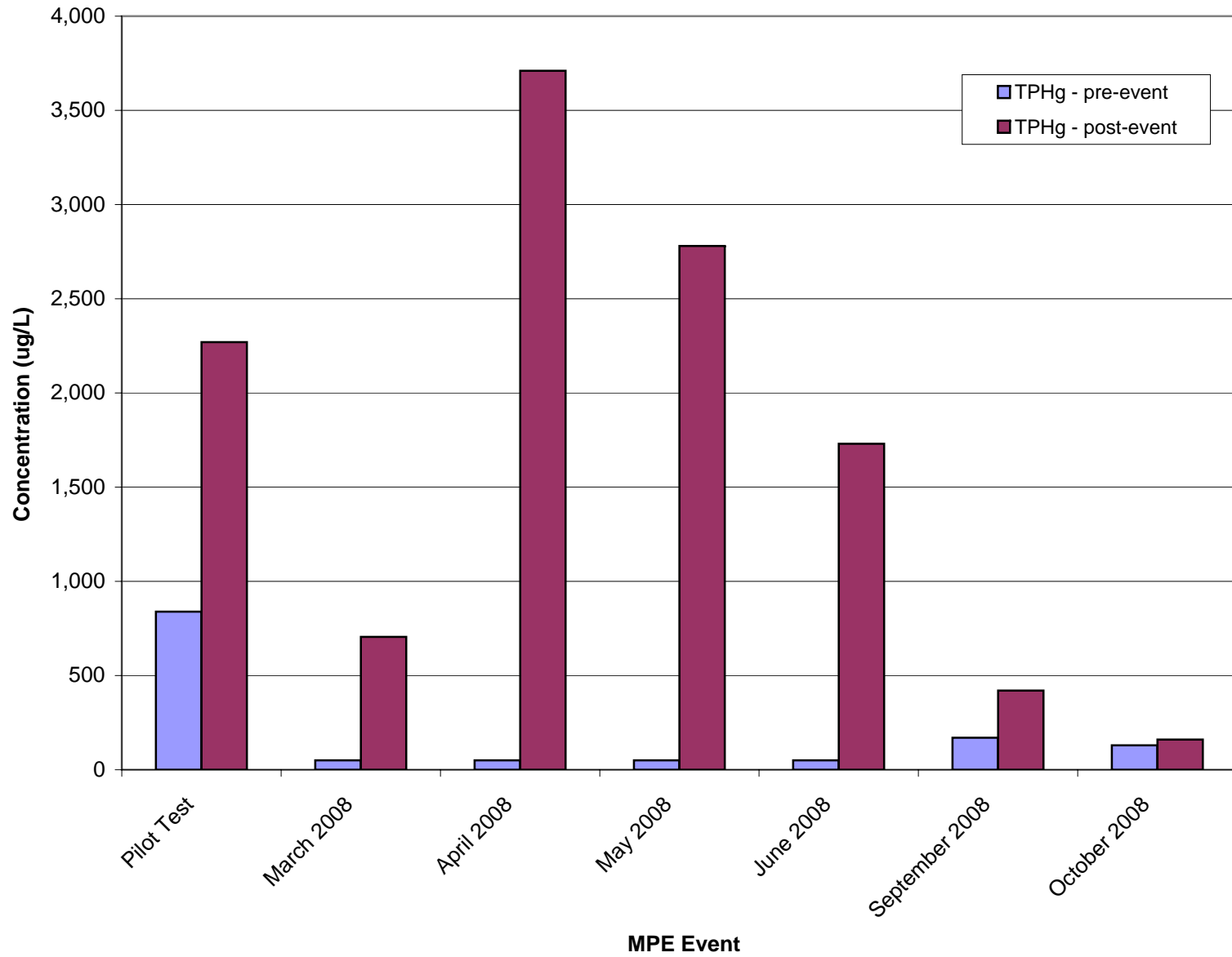


Figure 11: Dissolved-Phase Hydrocarbon Concentrations in Groundwater, TPH-g, Pre- and Post-MPE Event, MW-1

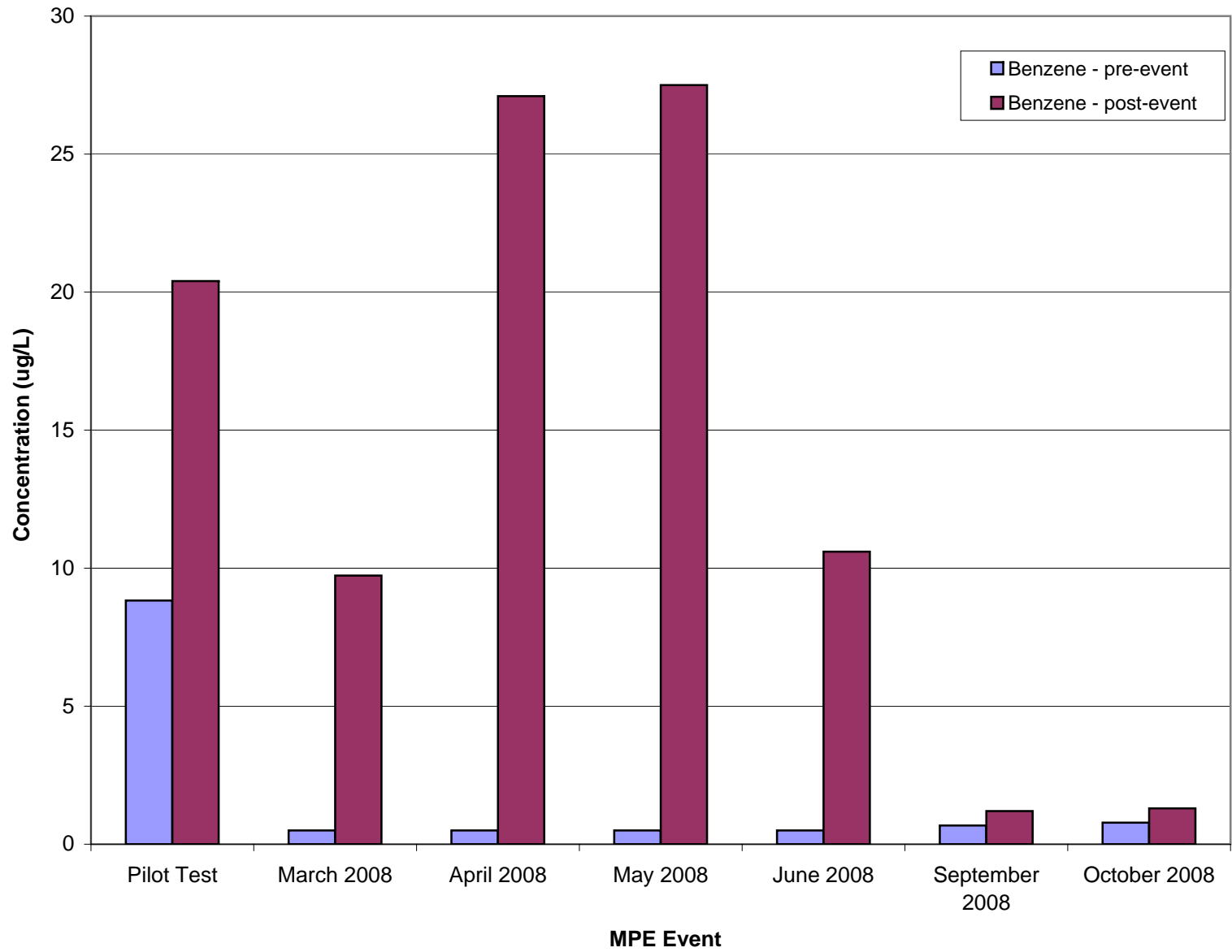


Figure 12: Dissolved-Phase Hydrocarbon Concentrations in Groundwater, Benzene, Pre- and Post-MPE Event, MW-1

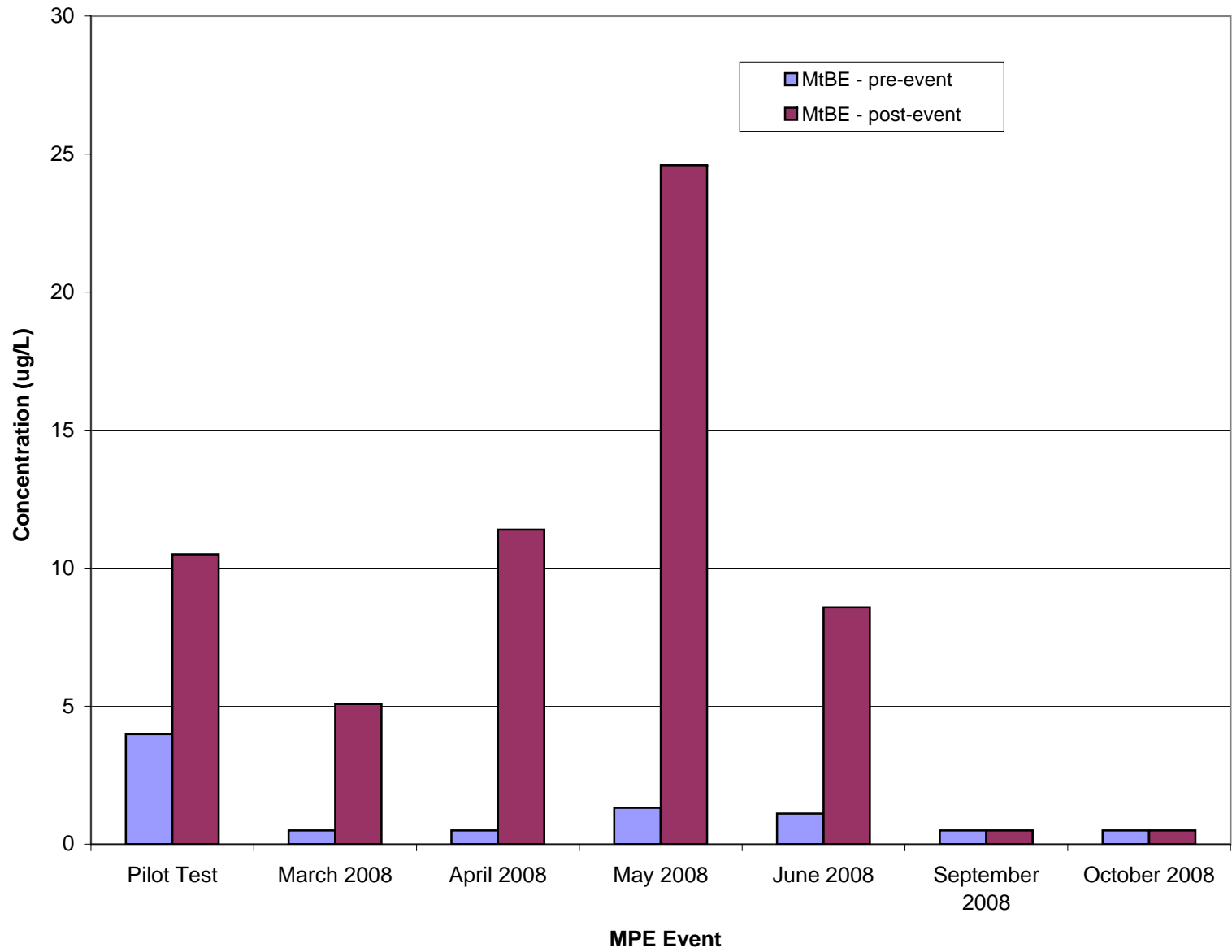


Figure 13: Dissolved-Phase Hydrocarbon Concentrations in Groundwater, MtBE, Pre- and Post-MPE Event, MW-1

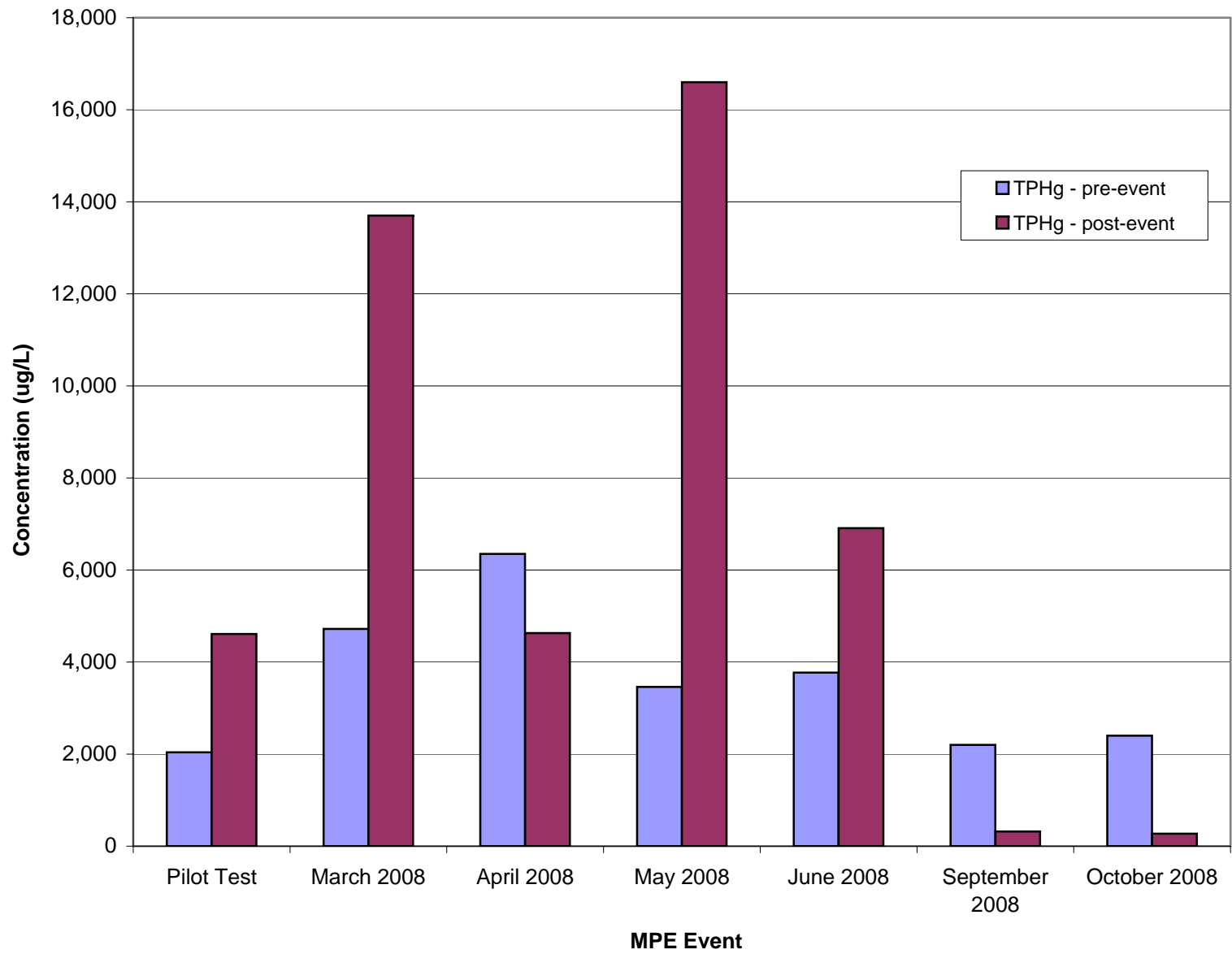


Figure 14: Dissolved-Phase Hydrocarbon Concentrations in Groundwater, TPH-g, Pre- and Post-MPE Event, MW-3

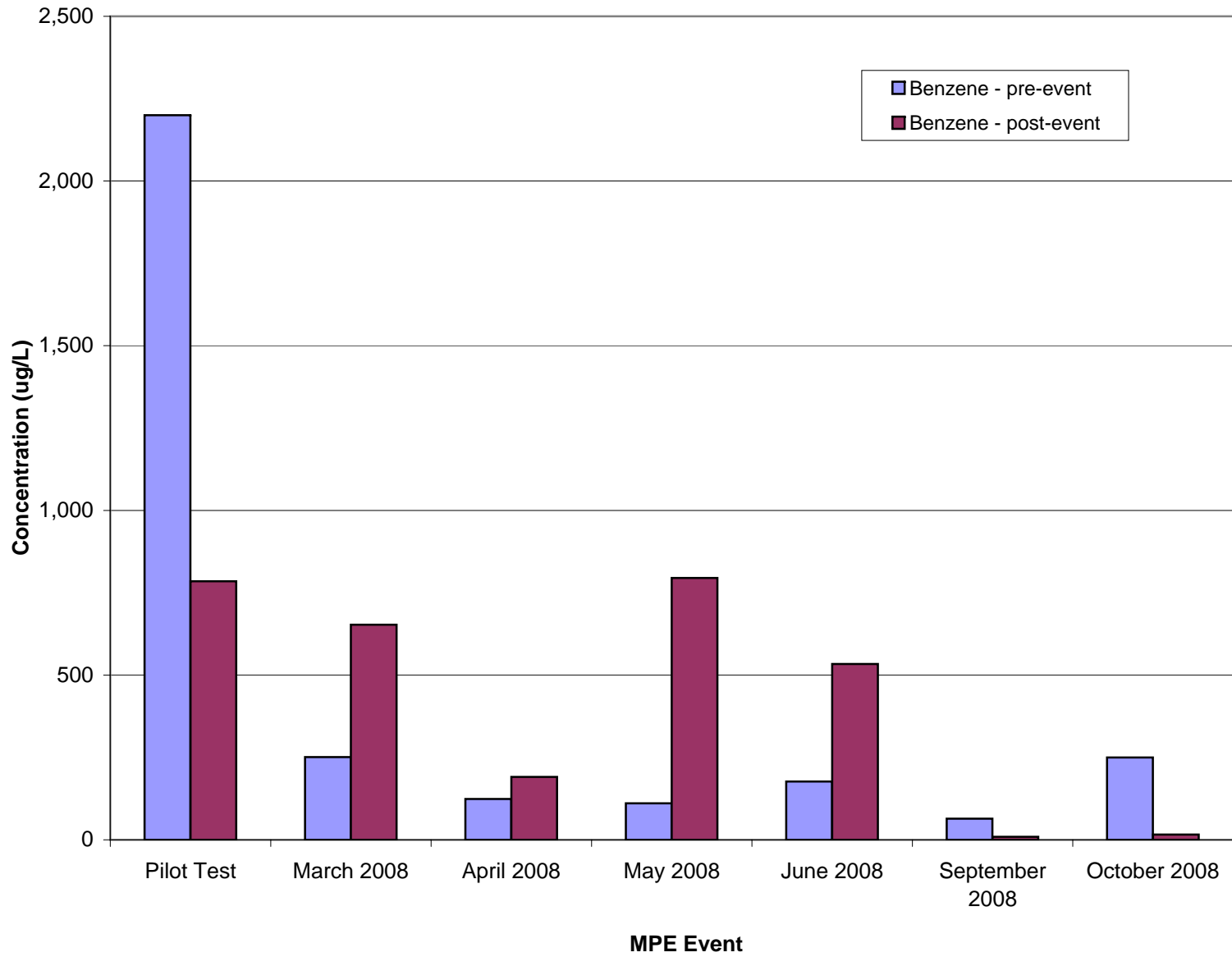


Figure 15: Dissolved-Phase Hydrocarbon Concentrations in Groundwater, Benzene, Pre- and Post-MPE Event, MW-3

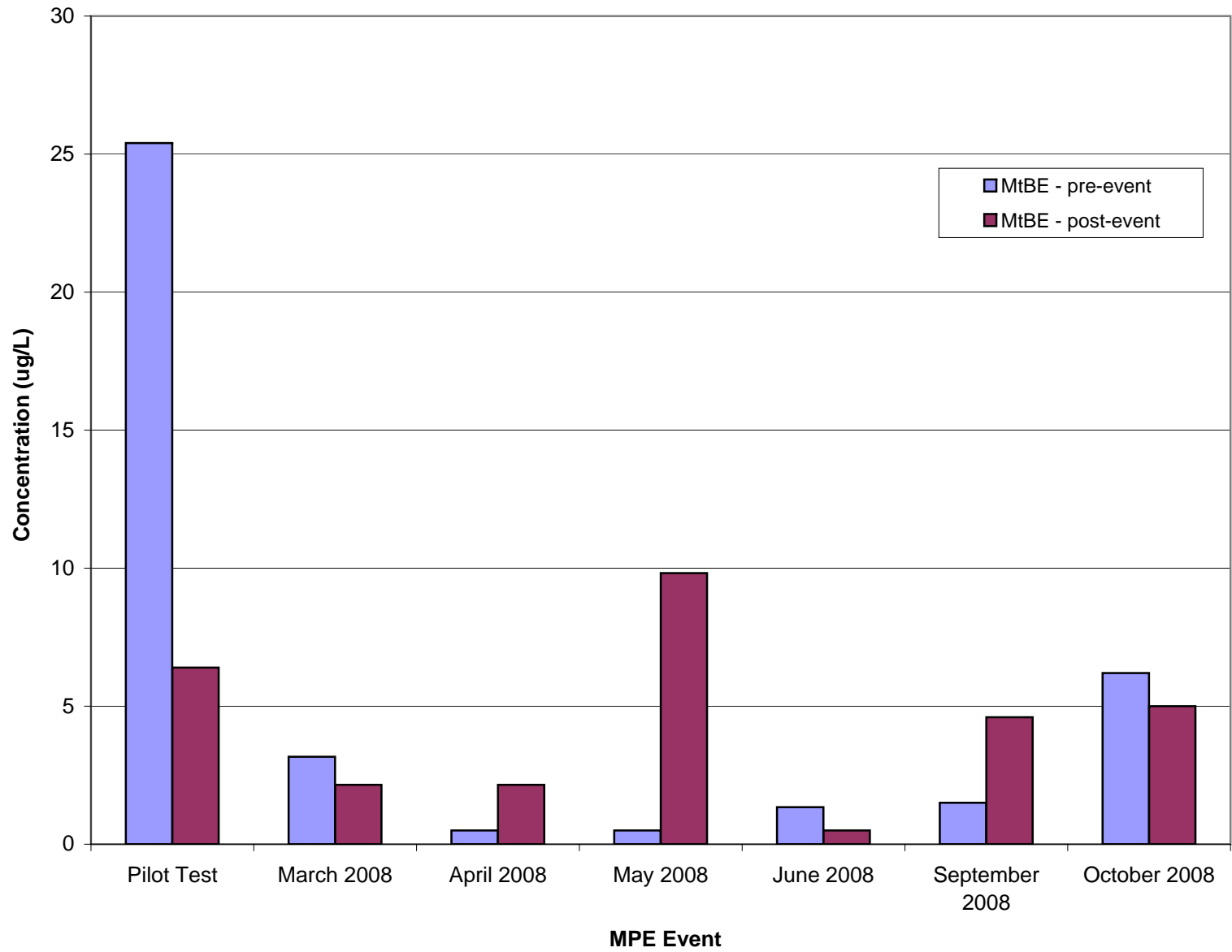


Figure 16: Dissolved-Phase Hydrocarbon Concentrations in Groundwater, MtBE, Pre- and Post-MPE Event, MW-3

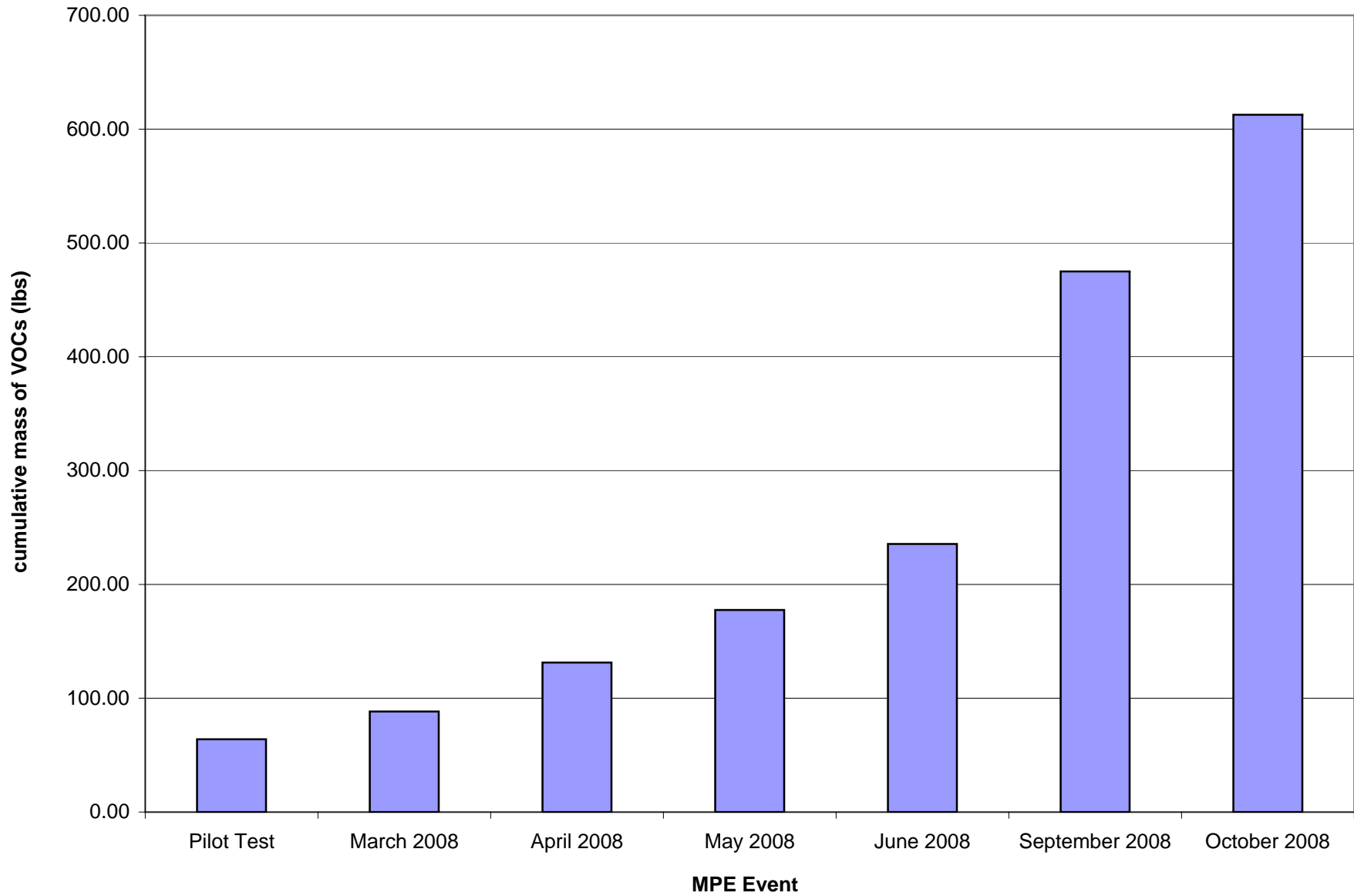


Figure 17: Cumulative Mass of VOCs Removed

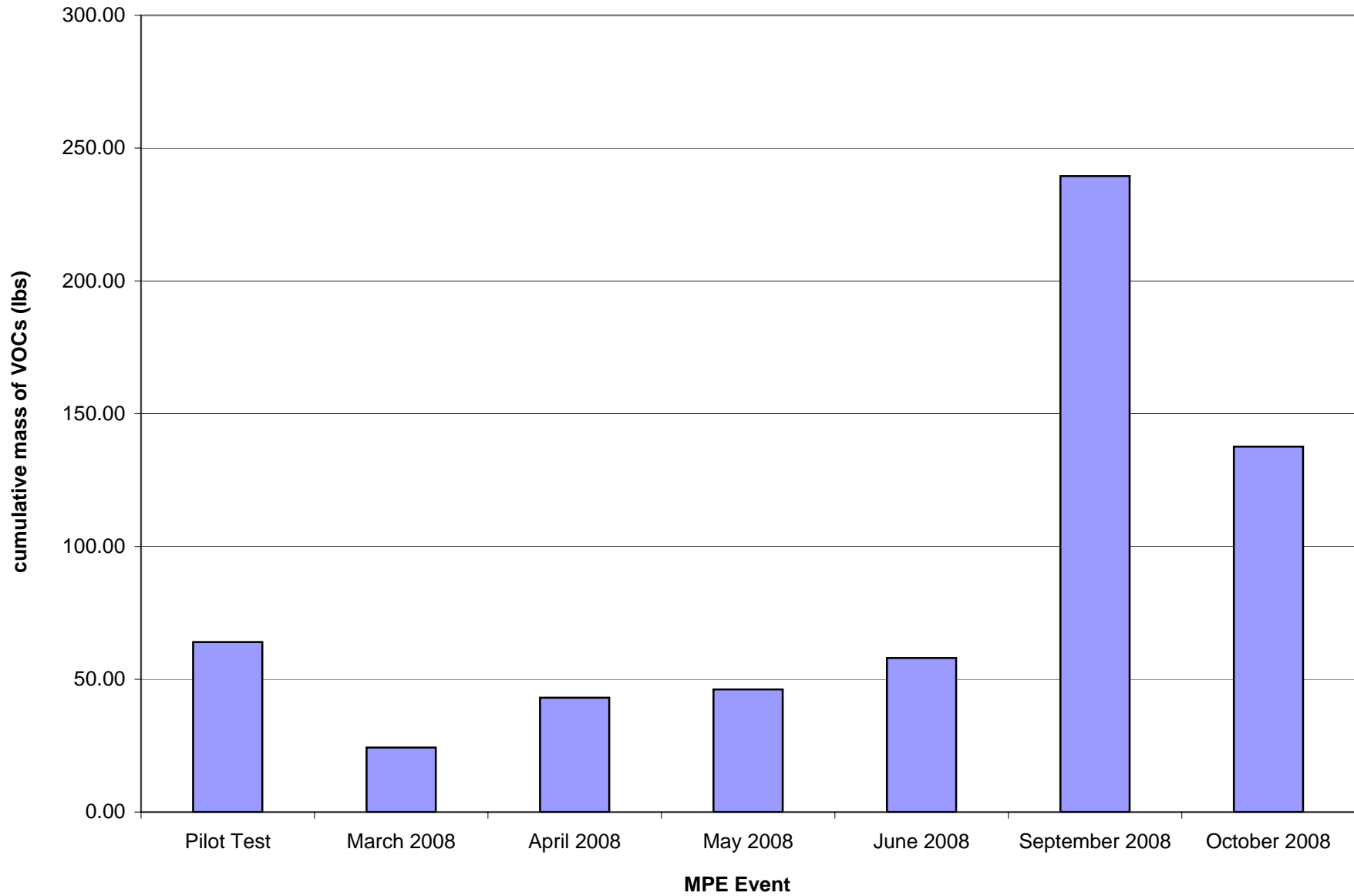


Figure 18: Mass of VOCs Removed Per Event

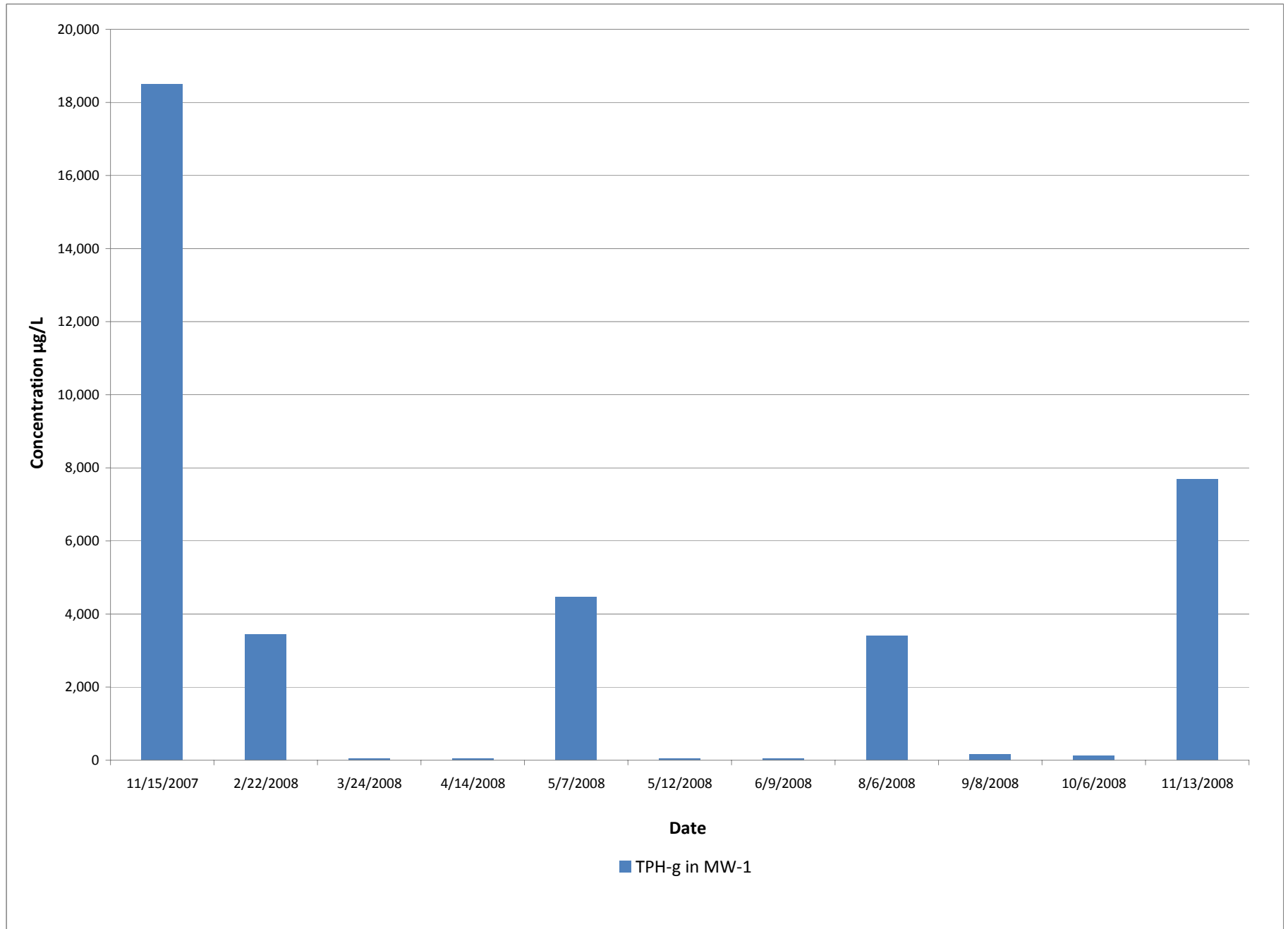


Figure 19: Comparison of TPH-g Concentrations in MW-1

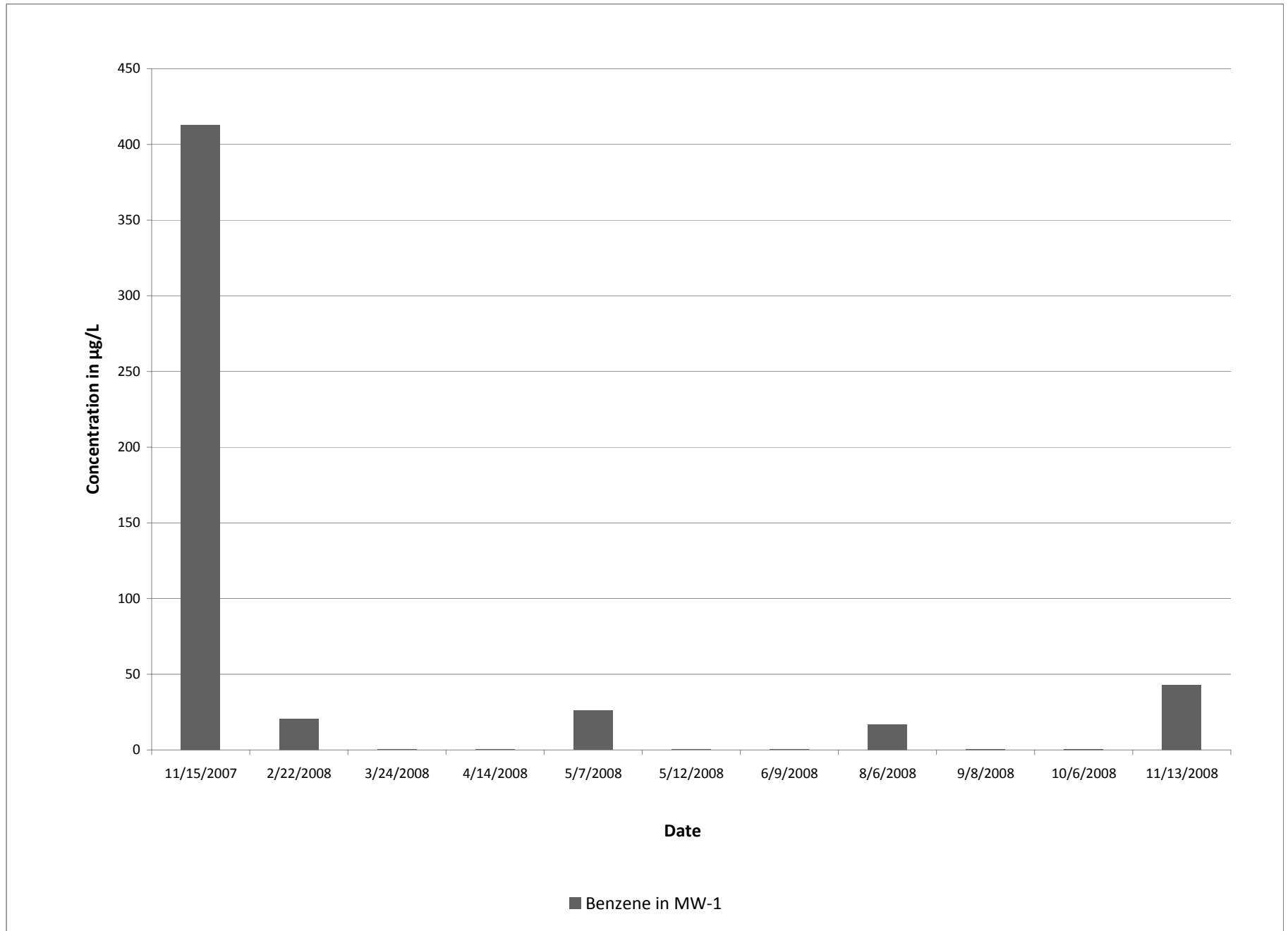


Figure 20: Comparison of Benzene Concentrations in MW-1

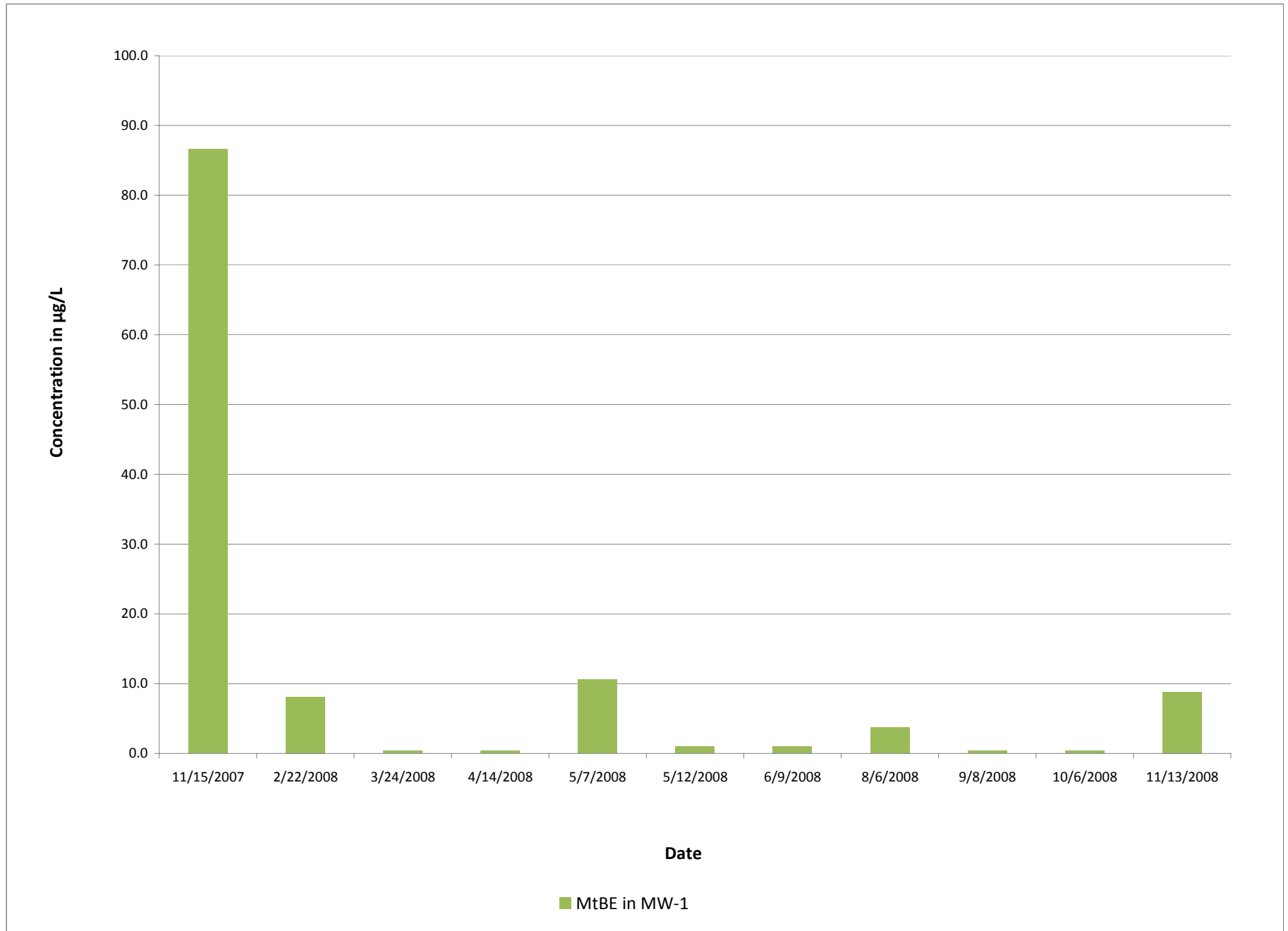


Figure 21: Comparison of MtBE Concentrations in MW-1

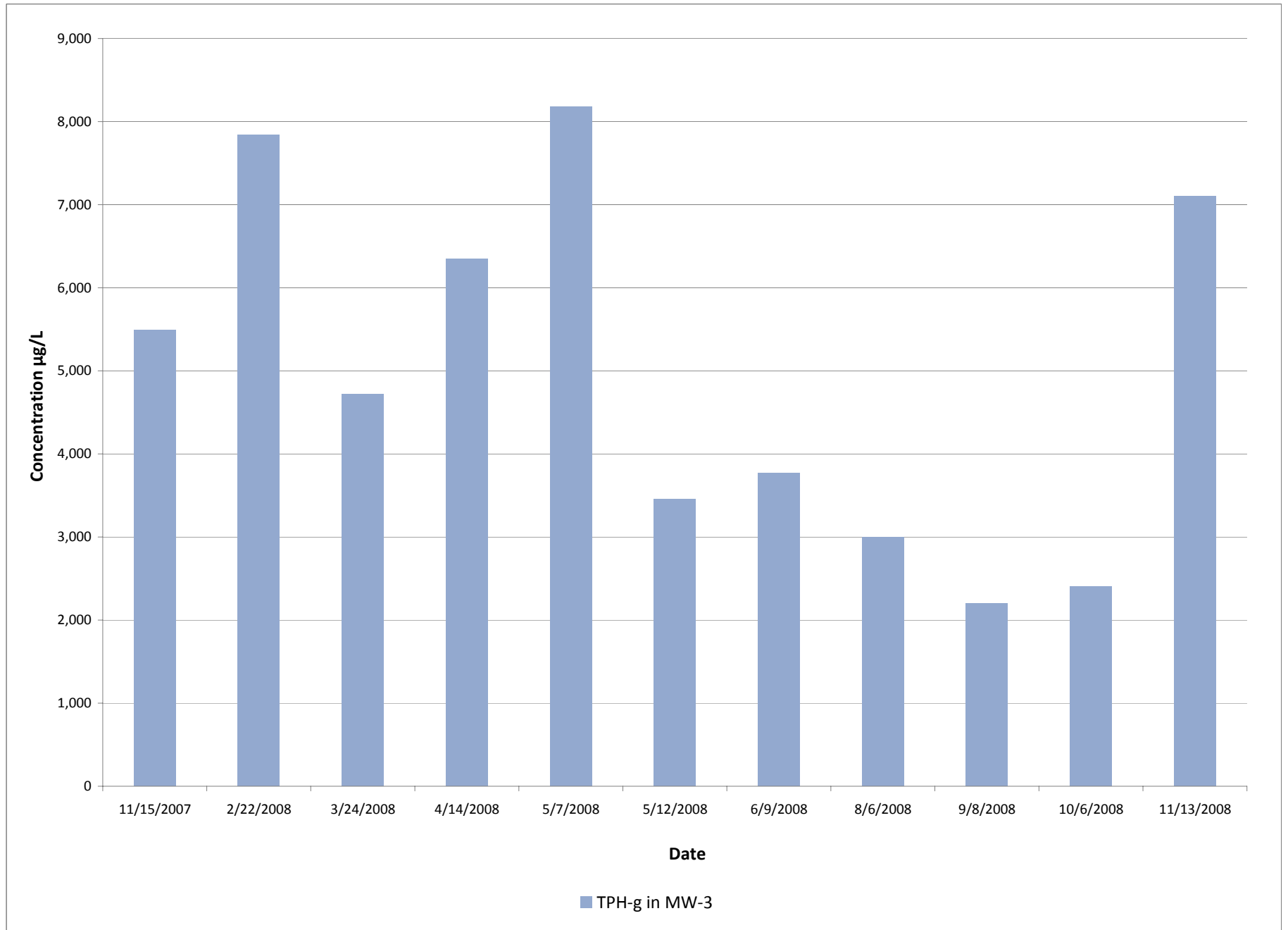


Figure 22: Comparison of TPH-g Concentrations in MW-3

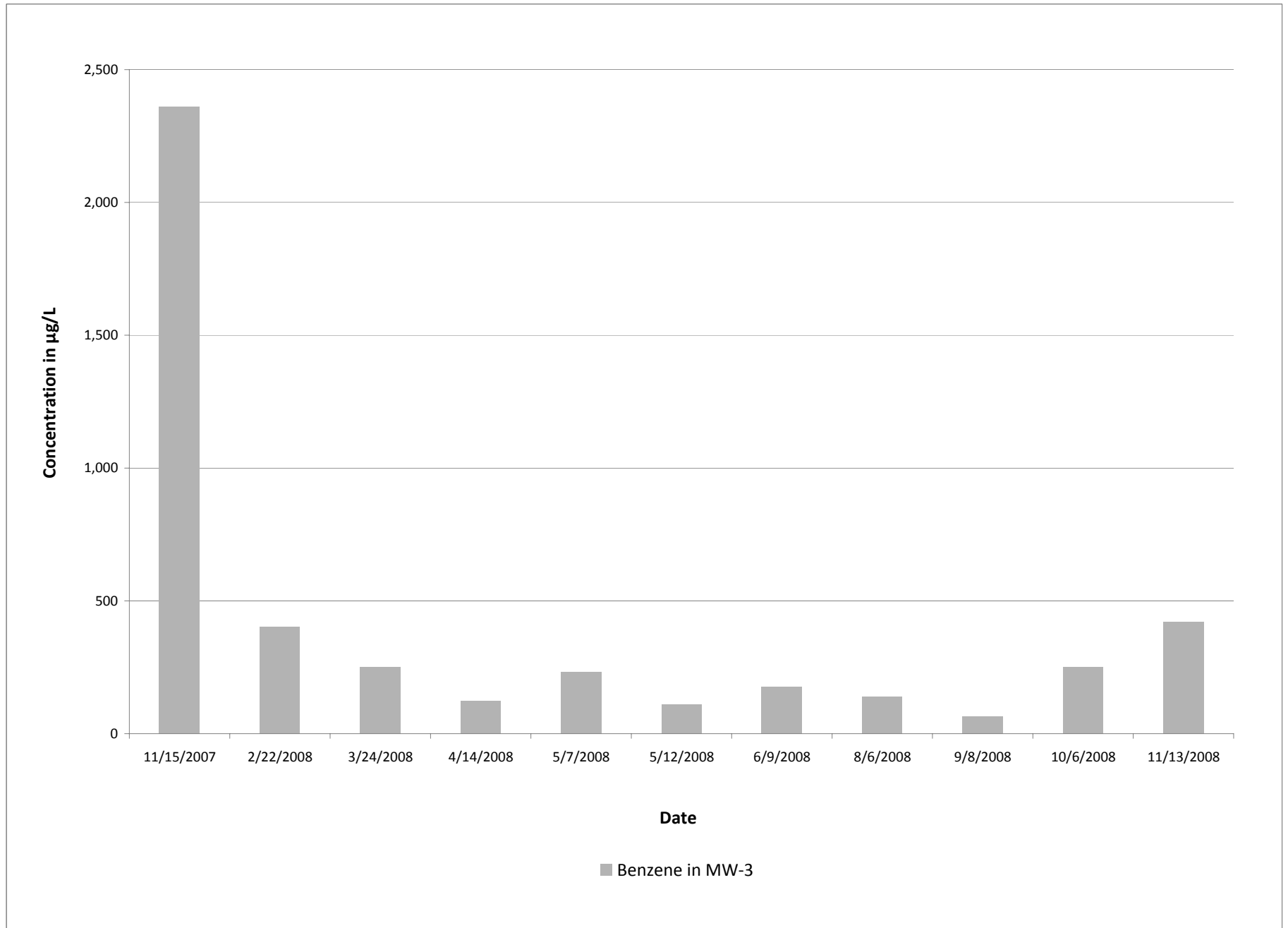


Figure 23: Comparison of Benzene Concentrations in MW-3

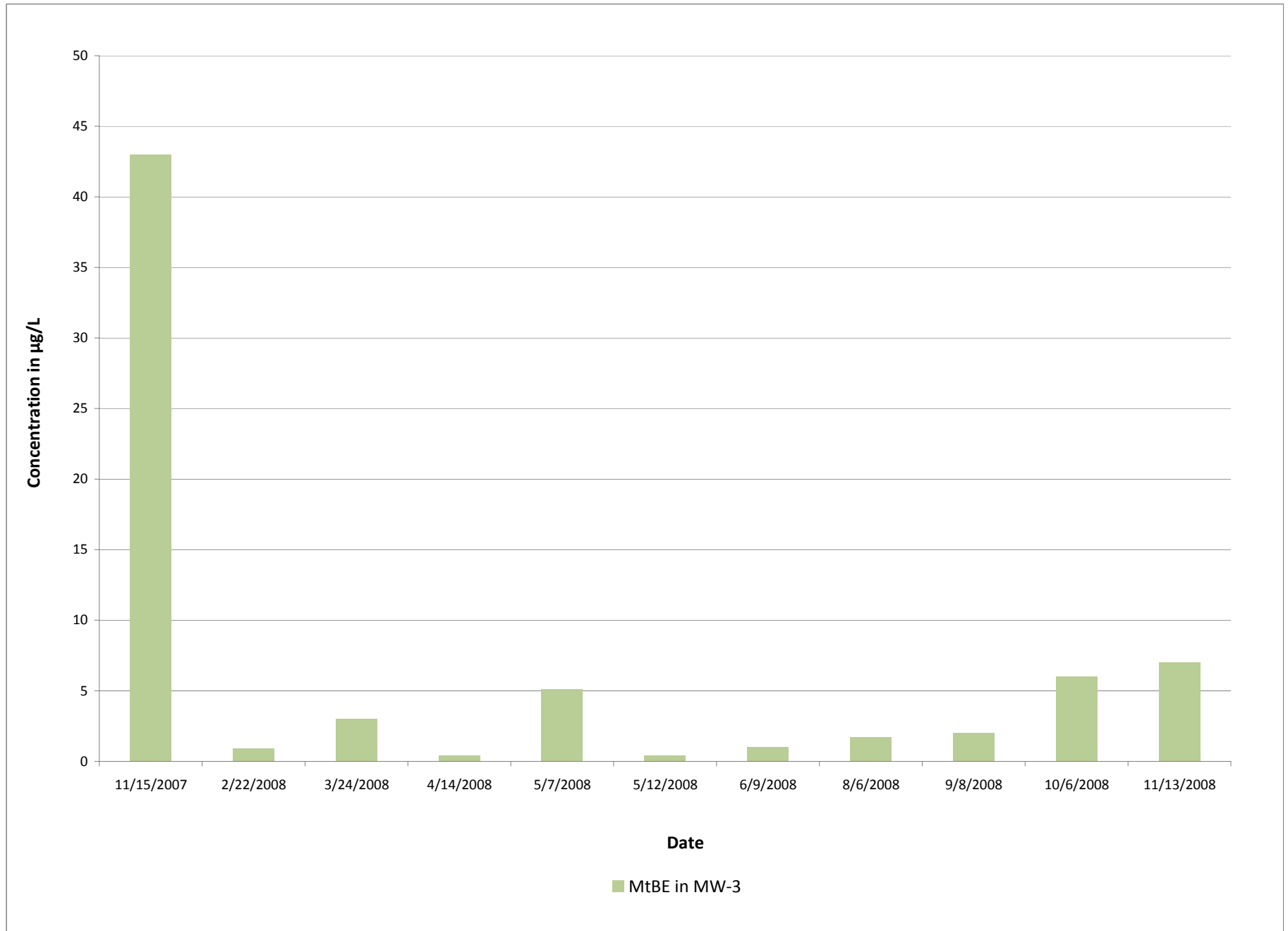


Figure 24: Comparison of MtBE Concentrations in MW-3

APPENDIX A

Standard Operating Procedures for Conducting Groundwater Monitoring Activities

Fourth Quarter 2008: Groundwater Monitoring and Remediation System Report
With Evaluation of Effectiveness of Monthly MPE

Standard Operating Procedures for Conducting Groundwater Monitoring Activities

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

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

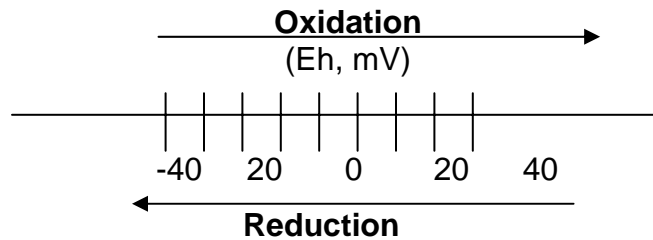
The pH of groundwater has an effect on the activity of microbial populations in the groundwater. The groundwater temperature affects the metabolic activity of bacteria. The groundwater EC is directly related to the concentration of total dissolved solids (TDS) in solution.

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

ORP is the measure of the potential for an oxidation or reduction process to occur. In the oxidation process, a molecule or ion loses one or several electrons. In the reduction process, a molecule or ion gains one or several electrons. The unit of the redox potential is the volt or millivolt. The most important redox reaction in petroleum-contaminated groundwater is the oxidation of petroleum hydrocarbons in the presence of bacteria and free molecular oxygen. Because the solubility of O₂ in water is low (9 mg/L at 25 °C and 11 mg/L at 5 °C), and because the rate of O₂ 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 O₂ in the groundwater is consumed; however, the oxidizing agents (i.e., the constituents that undergo reduction) now become NO₃⁻, MnO₂, Fe (OH)₃, SO₄²⁻ and others (Freeze and Cherry, 1979). As these oxidizing agents are consumed, the groundwater environment becomes more and more reduced. If the process advances far enough, the environment may become so strongly reduced that the

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



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

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

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

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

Appendix B

Table of Elevations and Coordinates of Monitoring Wells
and Field Measurements of Physical, Chemical, and
Biodegradation Parameters of Groundwater

**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.

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



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
	37.7753663	-122.2219197	40.54	Vault
MW-8	2109321.68	6064000.47	39.38	Casing
	37.7752361	-122.2220033	39.72	Vault

NOTE

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

BENCH MARK: NGS Bench mark No.M 554

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

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



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

PRINTED: 3/19/2007
9:24 AM



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: 13.69 ft
 Groundwater Elevation: 26.42 ft
 Water Column Height: 16.31 ft
 Purged Volume: 8 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd
 Oakland, CA
 Date: November 4, 2008
 Sampler: Lizzie Hightower

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
12:28	Started		Purging	well			
12:29	2	3.84	7.01	20.31	667	181	+14.8
12:30	4	2.46	6.91	20.71	676	163	+14.6
12:31	6	2.05	6.90	20.69	652	230	+5.6
12:32	8	1.90	6.91	20.62	651	162	-2.4
12:37	Sampled						

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: 13.49 ft
 Groundwater Elevation: 27.22 ft
 Water Column Height: 17.51 ft
 Purged Volume: — gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd
 Oakland, CA
 Date: November 4, 2008
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump Not Purged
 Sampling Method: Bailer Pump Not Sampled
 Color: No Yes Describe Unknown
 Sheen: No Yes Describe Unknown
 Odor: No Yes Describe Unknown

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: Quarterly Sampling of the well discontinued starting 4th Qtr 2008 per ACHES directive dated Aug 26, 2008



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-3
 Casing Diameter: 4 inch
 Depth of Well: 31.50 ft
 Top of Casing Elevation: 40.91 ft
 Depth to Groundwater: 14.16 ft
 Groundwater Elevation: 26.75 ft
 Water Column Height: 17.44 ft
 Purged Volume: 24 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd
 Oakland, CA
 Date: November 4, 2008
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: No Yes Describe _____

Sheen: No Yes Describe _____

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
13:37	Started purging well						
13:38	2	5.04	6.87	20.20	694	22.1	-33.6
13:41	8	2.00	6.83	20.35	681	13.8	-48.0
13:44	14	1.09	6.81	20.42	677	11.1	-57.4
13:47	20	0.61	6.81	20.46	681	12.7	-63.6
13:50	24	0.49	6.81	20.45	674	16.5	-67.7
13:55	Sampled						

Notes:



Well No.: MW-4R
 Casing Diameter: 2 inch
 Depth of Well: 26.00 ft
 Top of Casing Elevation: 40.34 ft
 Depth to Groundwater: 13.81 ft
 Groundwater Elevation: 26.53 ft
 Water Column Height: 12.19 ft
 Purged Volume: - gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd
 Oakland, CA
 Date: November 4, 2008
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump Not Purged
 Sampling Method: Bailer Pump Not Sampled
 Color: No Yes Describe Unknown
 Sheen: No Yes Describe Unknown
 Odor: No Yes Describe Unknown

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: Quarterly sampling of the well discontinued starting 4th Apr 2008, per ACHS directive dated Aug 26, 2008



Well No.: MIN-5
 Casing Diameter: 2 inch
 Depth of Well: 26.20 ft
 Top of Casing Elevation: 41.16 ft
 Depth to Groundwater: 13.68 ft
 Groundwater Elevation: 27.48 ft
 Water Column Height: 12.52 ft
 Purged Volume: - gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd
 Oakland, CA
 Date: November 4, 2008
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump Not Purged
 Sampling Method: Bailer Pump Not Sampled

Color: No Yes Describe Unknown
 Sheen: No Yes Describe Unknown
 Odor: No Yes Describe Unknown

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: Quarterly sampling of the well discontinued starting 4th Qtr 2008, per ACHS directive dated Aug 26 '08.



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-6
 Casing Diameter: 2 inch
 Depth of Well: 25.00 ft
 Top of Casing Elevation: 40.92 ft
 Depth to Groundwater: 14.24 ft
 Groundwater Elevation: 26.68 ft
 Water Column Height: 10.76 ft
 Purged Volume: 6 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd
 Oakland, CA
 Date: November 4, 2008
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: No Yes Describe Gray/Cloudy
 Sheen: No Yes Describe 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
13:09	Started						
13:10	2	5.30	6.79	19.65	799	999	-5.2
13:11	4	4.64	6.74	19.66	761	250	-8.7
13:12	6	3.69	6.70	19.70	770	114	-12.2
13:15	Sampled						

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: 13.19 ft
 Groundwater Elevation: 26.75 ft
 Water Column Height: 12.81 ft
 Purged Volume: - gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd
 Oakland, CA
 Date: November 4, 2008
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump Not Purged
 Sampling Method: Bailer Pump Not Sampled
 Color: No Yes Describe Unknown
 Sheen: No Yes Describe Unknown
 Odor: No Yes Describe Unknown

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: Quarterly Sampling of the well discontinued starting 4th Qtr 2008, per ACHCS directive dated Aug 26 '08



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-8
 Casing Diameter: 2 inch
 Depth of Well: 26.50 ft
 Top of Casing Elevation: 39.38 ft
 Depth to Groundwater: 13.11 ft
 Groundwater Elevation: 26.27 ft
 Water Column Height: 13.39 ft
 Purged Volume: 6 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd
 Oakland, CA
 Date: November 4, 2008
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: No Yes Describe Grayish
 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
11:58	Started Purging well						
11:59	2	4.52	6.62	20.14	290	73.4	+37.1
12:00	4	4.14	6.63	20.26	393	94.4	+53.5
12:01	6	3.79	6.66	20.18	563	134	+69.9
12:06	Sampled						

Notes:



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-10
 Casing Diameter: 2 inch
 Depth of Well: 23.40 ft
 Top of Casing Elevation: 36.71 ft
 Depth to Groundwater: 11.94 ft
 Groundwater Elevation: 24.77 ft
 Water Column Height: 11.46 ft
 Purged Volume: 6 gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd
 Oakland, CA
 Date: November 4, 2008
 Sampler: Lizzie Hightower

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
11:26	Started		Purging well				
11:27	2	5.75	6.71	19.33	706	29.5	+84.4
11:28	4	4.63	6.73	19.40	706	6.23	+85.3
11:29	6	4.28	6.74	19.43	705	7.13	+85.3
11:34	Sampled						

Notes:



Well No.: MW-11
 Casing Diameter: - inch
 Depth of Well: - ft
 Top of Casing Elevation: - ft
 Depth to Groundwater: - ft
 Groundwater Elevation: - ft
 Water Column Height: - ft
 Purged Volume: - gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd
 Oakland, CA
 Date: November 4, 2008
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump Not Purged
 Sampling Method: Bailer Pump Not Sampled

Color: No Yes Describe Unknown
 Sheen: No Yes Describe Unknown
 Odor: No Yes Describe Unknown

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: Gate with access to the well was locked. Unable to get to the well. No field measurements or samples taken.



Well No.: MW-12
 Casing Diameter: 4 inch
 Depth of Well: 30.00 ft
 Top of Casing Elevation: 36.84 ft
 Depth to Groundwater: 12.78 ft
 Groundwater Elevation: 24.06 ft
 Water Column Height: 17.22 ft
 Purged Volume: — gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd
 Oakland, CA
 Date: November 4, 2008
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump Not Purged
 Sampling Method: Bailer Pump Not sampled
 Color: No Yes Describe Unknown
 Sheen: No Yes Describe Unknown
 Odor: No Yes Describe Unknown

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: Quarterly Sampling of the well discontinued starting 4th Oct 2008, per ACHCS directive dated Aug 26'08



Well No.: F.D. Center
 Casing Diameter: 4 inch
 Depth of Well: NM ft
 Top of Casing Elevation: 39.35 ft
 Depth to Groundwater: 16.02 ft
 Groundwater Elevation: 23.33 ft
 Water Column Height: NM ft
 Purged Volume: - gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd
 Oakland, CA
 Date: November 4, 2008
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump Not Purged
 Sampling Method: Bailer Pump Not Sampled
 Color: No Yes Describe Unknown
 Sheen: No Yes Describe Unknown
 Odor: No Yes Describe Unknown

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 riser is part of remedial system,
 Only depth to groundwater measurement taken.



Well No.: F.D. East
 Casing Diameter: 4 inch
 Depth of Well: NM ft
 Top of Casing Elevation: 40.06 ft
 Depth to Groundwater: 13.63 ft
 Groundwater Elevation: 26.43 ft
 Water Column Height: NM ft
 Purged Volume: - gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd
 Oakland, CA
 Date: November 4, 2008
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump Not Purged
 Sampling Method: Bailer Pump Not Sampled
 Color: No Yes Describe Unknown
 Sheen: No Yes Describe Unknown
 Odor: No Yes Describe Unknown

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 riser is part of the FD remedial system. However, no active pump is within the riser. Only ground water measurements taken.



Well No.: E.D. West
 Casing Diameter: 4 inch
 Depth of Well: NM ft
 Top of Casing Elevation: 39.16 ft
 Depth to Groundwater: 13.94 ft
 Groundwater Elevation: 25.22 ft
 Water Column Height: NM ft
 Purged Volume: - gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd
 Oakland, CA
 Date: November 4, 2008
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump Not Purged
 Sampling Method: Bailer Pump Not Sampled
 Color: No Yes Describe Unknown
 Sheen: No Yes Describe Unknown
 Odor: No Yes Describe Unknown

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: FD West riser is part of the remedial system, only depth to groundwater measurements taken.



Well No.: EX-1
 Casing Diameter: 4 inch
 Depth of Well: NM ft
 Top of Casing Elevation: 40.51 ft
 Depth to Groundwater: 16.75 ft
 Groundwater Elevation: 23.76 ft
 Water Column Height: NM ft
 Purged Volume: - gallons

Project No.: 2331
 Address: Tony's Express Auto Service
 3609 International Blvd
 Oakland, CA
 Date: November 4, 2008
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump Not Purged
 Sampling Method: Bailer Pump Not Sampled

Color: No Yes Describe Unknown
 Sheen: No Yes Describe Unknown
 Odor: No Yes Describe Unknown

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)

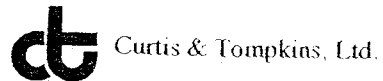
Notes: Extraction well EX-1 is part of the remedial system, only depth to groundwater measurements taken.

Appendix C

Chain of Custody Form and Laboratory Report

Fourth Quarter 2008: Groundwater Monitoring and Remediation System Report
With Evaluation of Effectiveness of Monthly MPE

COOLER RECEIPT CHECKLIST



Login # 207456 Date Received 11-4-8 Number of coolers 1
Client SOMA Project 3609 INTERNATIONAL BLDG

Date Opened 11-4-8 By (print) S. Evans (sign) [Signature]
Date Logged in [Signature] By (print) [Signature] (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc)? YES NO
Shipping info

2A. Were custody seals present? YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)
 Bubble Wrap Foam blocks Bags None
 Cloth material Cardboard Styrofoam Paper towels

7. Temperature documentation:
Type of ice used: Wet Blue/Gel None Temp(°C)

Samples Received on ice & cold without a temperature blank

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

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are samples in the appropriate containers for indicated tests? YES NO

11. Are sample labels present, in good condition and complete? YES NO

12. Do the sample labels agree with custody papers? YES NO

13. Was sufficient amount of sample sent for tests requested? YES NO

14. Are the samples appropriately preserved? YES NO N/A

15. Are bubbles > 6mm absent in VOA samples? YES NO N/A

16. Was the client contacted concerning this sample delivery? YES NO

If YES, Who was called? By Date:

COMMENTS
BUBBLES PRESENT # 1 1/4 VOA



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

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

Laboratory Job Number 207456
ANALYTICAL REPORT

SOMA Environmental Engineering Inc.
6620 Owens Dr.
Pleasanton, CA 94588

Project : 2331
Location : 3609 Int'l Blvd., Oakland
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
MW-1	207456-001
MW-3	207456-002
MW-6	207456-003
MW-8	207456-004
MW-10	207456-005

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. This report may be reproduced only in its entirety.

Signature: 
Project Manager

Date: 11/26/2008

Signature: 
Senior Program Manager

Date: 11/26/2008

CASE NARRATIVE

Laboratory number: 207456
Client: SOMA Environmental Engineering Inc.
Project: 2331
Location: 3609 Int'l Blvd., Oakland
Request Date: 11/04/08
Samples Received: 11/04/08

This data package contains sample and QC results for five water samples, requested for the above referenced project on 11/04/08. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Gasoline by GC/MS			
Lab #:	207456	Location:	3609 Int'l Blvd., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2331	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	11/04/08
Units:	ug/L	Received:	11/04/08

Field ID: MW-1 Diln Fac: 4.000
 Type: SAMPLE Batch#: 144687
 Lab ID: 207456-001 Analyzed: 11/10/08

Analyte	Result	RL
Gasoline C7-C12	7,500	200
MTBE	8.7	2.0
Benzene	40	2.0
Toluene	49	2.0
Ethylbenzene	190	2.0
m,p-Xylenes	640	2.0
o-Xylene	170	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-125
1,2-Dichloroethane-d4	100	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	84	80-122

Field ID: MW-3 Diln Fac: 7.143
 Type: SAMPLE Batch#: 144687
 Lab ID: 207456-002 Analyzed: 11/10/08

Analyte	Result	RL
Gasoline C7-C12	9,000	360
MTBE	9.4	3.6
Benzene	510	3.6
Toluene	250	3.6
Ethylbenzene	380	3.6
m,p-Xylenes	1,100	3.6
o-Xylene	360	3.6

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-125
1,2-Dichloroethane-d4	95	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	88	80-122

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	207456	Location:	3609 Int'l Blvd., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2331	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	11/04/08
Units:	ug/L	Received:	11/04/08

Field ID: MW-6 Diln Fac: 12.50
 Type: SAMPLE Batch#: 144687
 Lab ID: 207456-003 Analyzed: 11/10/08

Analyte	Result	RL
Gasoline C7-C12	11,000	630
MTBE	ND	6.3
Benzene	880	6.3
Toluene	260	6.3
Ethylbenzene	770	6.3
m,p-Xylenes	1,000	6.3
o-Xylene	240	6.3

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-125
1,2-Dichloroethane-d4	92	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	87	80-122

Field ID: MW-8 Diln Fac: 6.250
 Type: SAMPLE Batch#: 144687
 Lab ID: 207456-004 Analyzed: 11/10/08

Analyte	Result	RL
Gasoline C7-C12	2,900	310
MTBE	10	3.1
Benzene	110	3.1
Toluene	15	3.1
Ethylbenzene	420	3.1
m,p-Xylenes	25	3.1
o-Xylene	ND	3.1

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-125
1,2-Dichloroethane-d4	95	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	107	80-122

ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS			
Lab #:	207456	Location:	3609 Int'l Blvd., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2331	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	11/04/08
Units:	ug/L	Received:	11/04/08

Field ID: MW-10 Diln Fac: 1.000
 Type: SAMPLE Batch#: 144619
 Lab ID: 207456-005 Analyzed: 11/07/08

Analyte	Result	RL
Gasoline C7-C12	130	50
MTBE	3.0	0.50
Benzene	3.8	0.50
Toluene	ND	0.50
Ethylbenzene	4.3	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-125
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-122

Type: BLANK Batch#: 144619
 Lab ID: QC469383 Analyzed: 11/07/08
 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	103	80-125
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	104	80-122

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/MS			
Lab #:	207456	Location:	3609 Int'l Blvd., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2331	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	144619
Units:	ug/L	Analyzed:	11/07/08
Diln Fac:	1.000		

Type: BS Lab ID: QC469385

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	900.0	776.6	86	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-125
1,2-Dichloroethane-d4	98	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	92	80-122

Type: BSD Lab ID: QC469386

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	900.0	789.5	88	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-125
1,2-Dichloroethane-d4	98	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	93	80-122

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS			
Lab #:	207456	Location:	3609 Int'l Blvd., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2331	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	144619
Units:	ug/L	Analyzed:	11/07/08
Diln Fac:	1.000		

Type: BS Lab ID: QC469387

Analyte	Spiked	Result	%REC	Limits
Benzene	20.00	19.24	96	80-120
Toluene	20.00	19.89	99	80-120
Ethylbenzene	20.00	21.22	106	80-122
m,p-Xylenes	40.00	41.60	104	80-126
o-Xylene	20.00	20.40	102	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-125
1,2-Dichloroethane-d4	98	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	90	80-122

Type: BSD Lab ID: QC469388

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	20.00	19.82	99	80-120	3	20
Toluene	20.00	20.10	100	80-120	1	20
Ethylbenzene	20.00	21.87	109	80-122	3	20
m,p-Xylenes	40.00	43.14	108	80-126	4	20
o-Xylene	20.00	20.78	104	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-125
1,2-Dichloroethane-d4	95	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	89	80-122

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS			
Lab #:	207456	Location:	3609 Int'l Blvd., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2331	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	144687
Units:	ug/L	Analyzed:	11/10/08
Diln Fac:	1.000		

Type: BS Lab ID: QC469660

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	800.0	724.5	91	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-125
1,2-Dichloroethane-d4	97	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	96	80-122

Type: BSD Lab ID: QC469661

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	800.0	691.6	86	80-120	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-125
1,2-Dichloroethane-d4	98	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	93	80-122

RPD= Relative Percent Difference

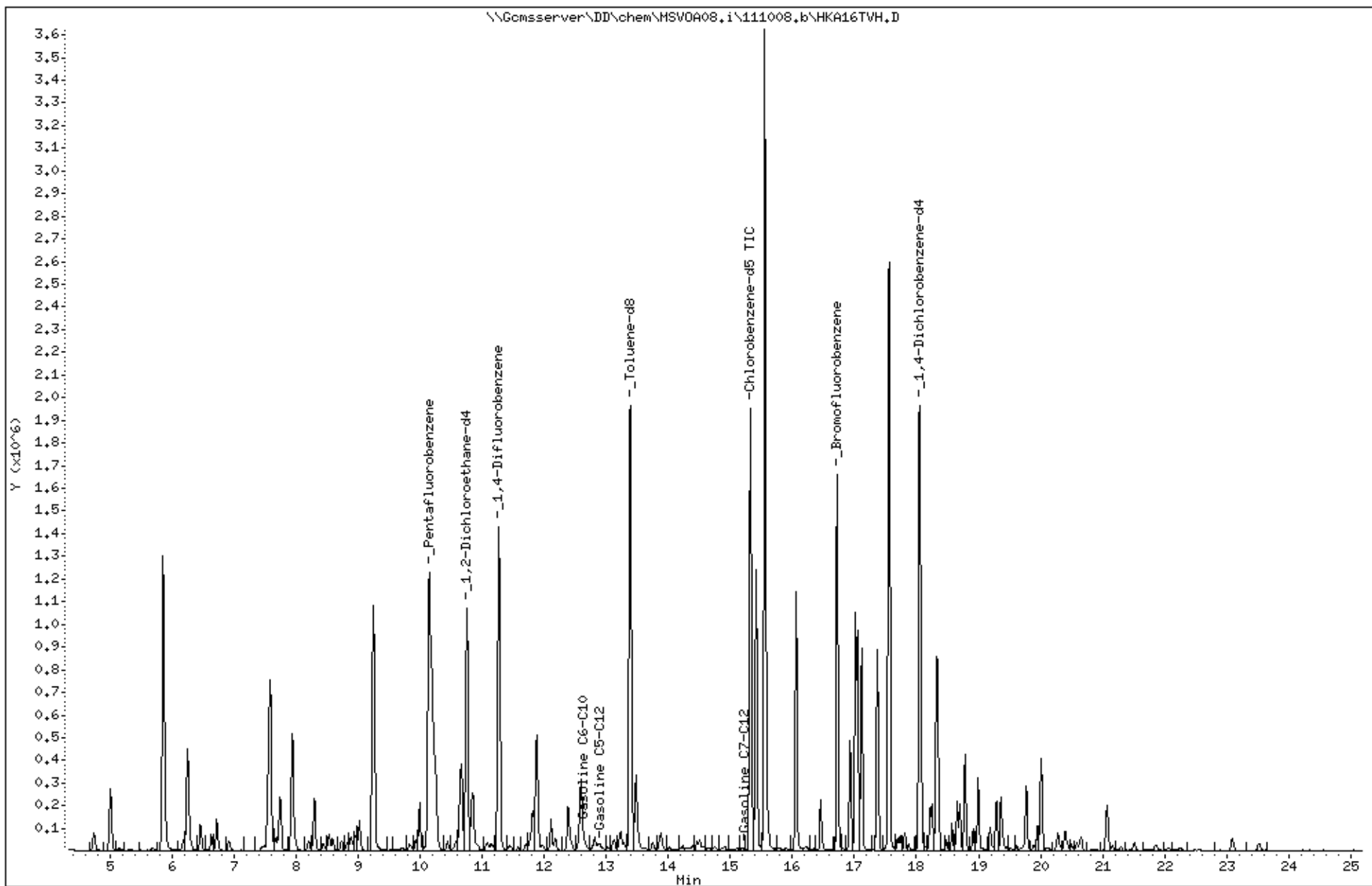
Date : 10-NOV-2008 18:12
Client ID: DYNA P&T
Sample Info: S,207456-001

Instrument: MSV0A08.i

Operator: voc

Column diameter: 2.00

Column phase:

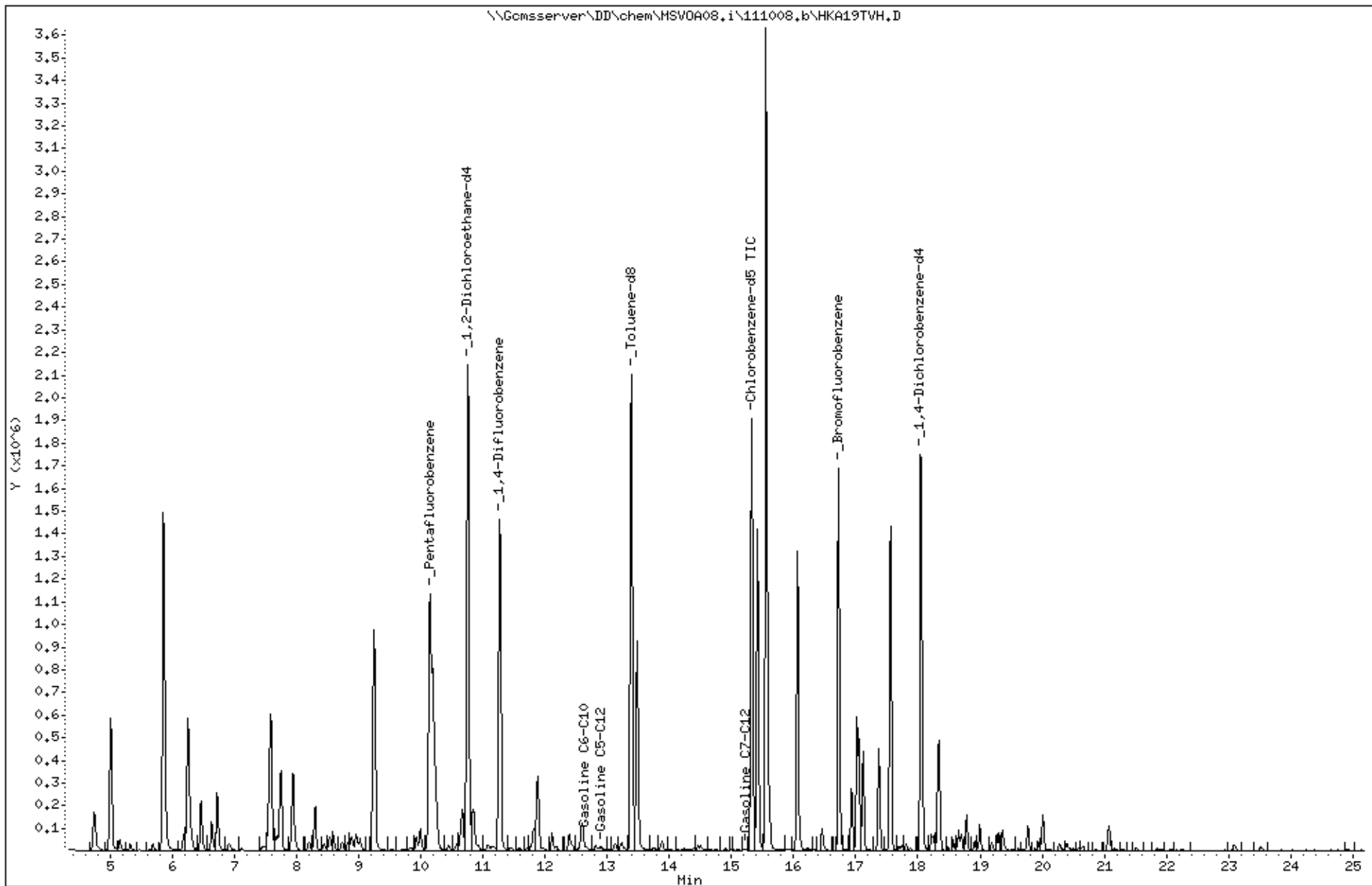


Date : 10-NOV-2008 19:59
Client ID: DYNA P&T
Sample Info: S,207456-002

Instrument: MSV0A08.i

Operator: voc
Column diameter: 2.00

Column phase:



Date : 10-NOV-2008 20:35

Client ID: DYNA P&T

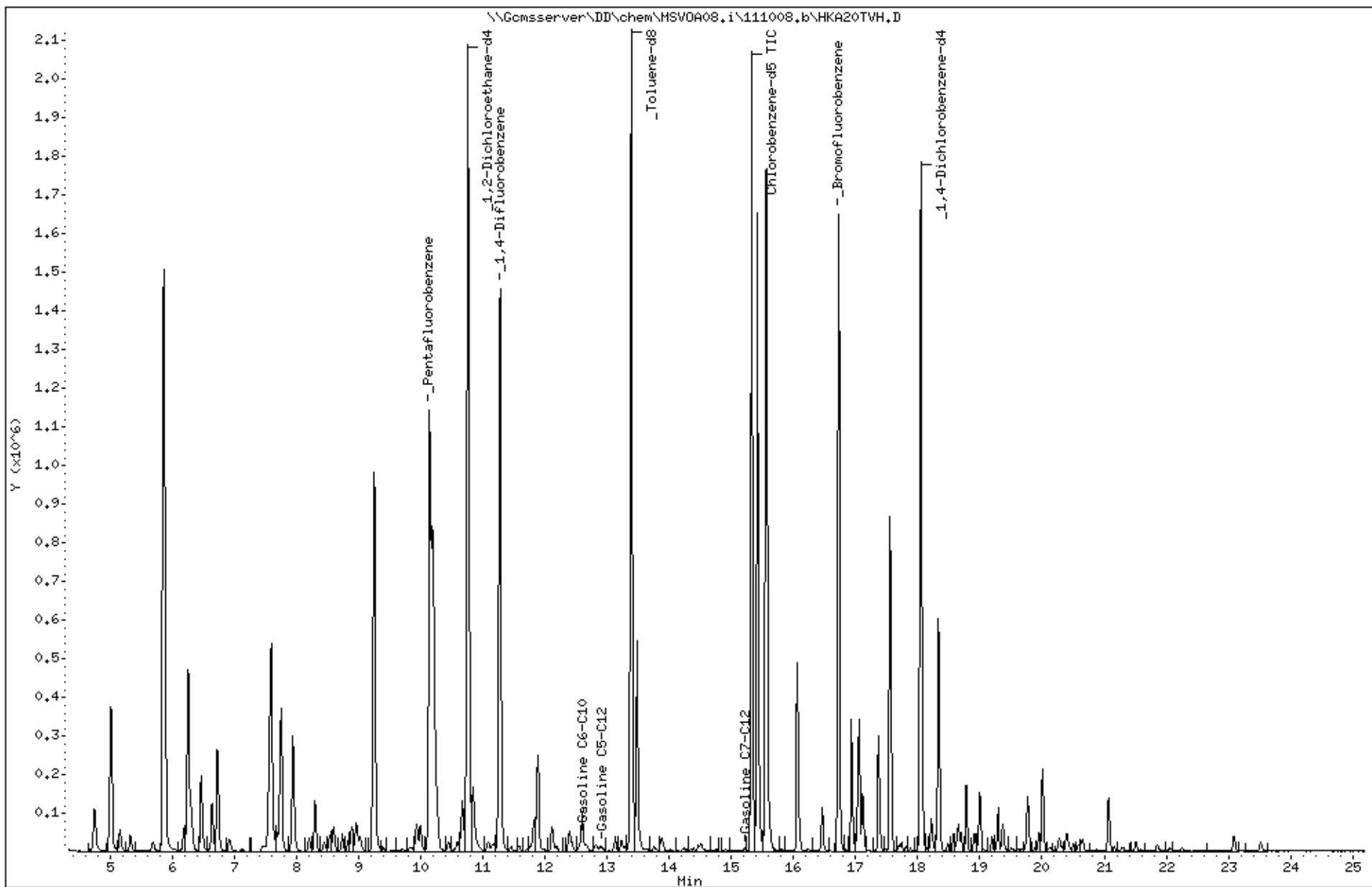
Sample Info: S,207456-003

Instrument: MSV0A08.i

Operator: voc

Column diameter: 2.00

Column phase:

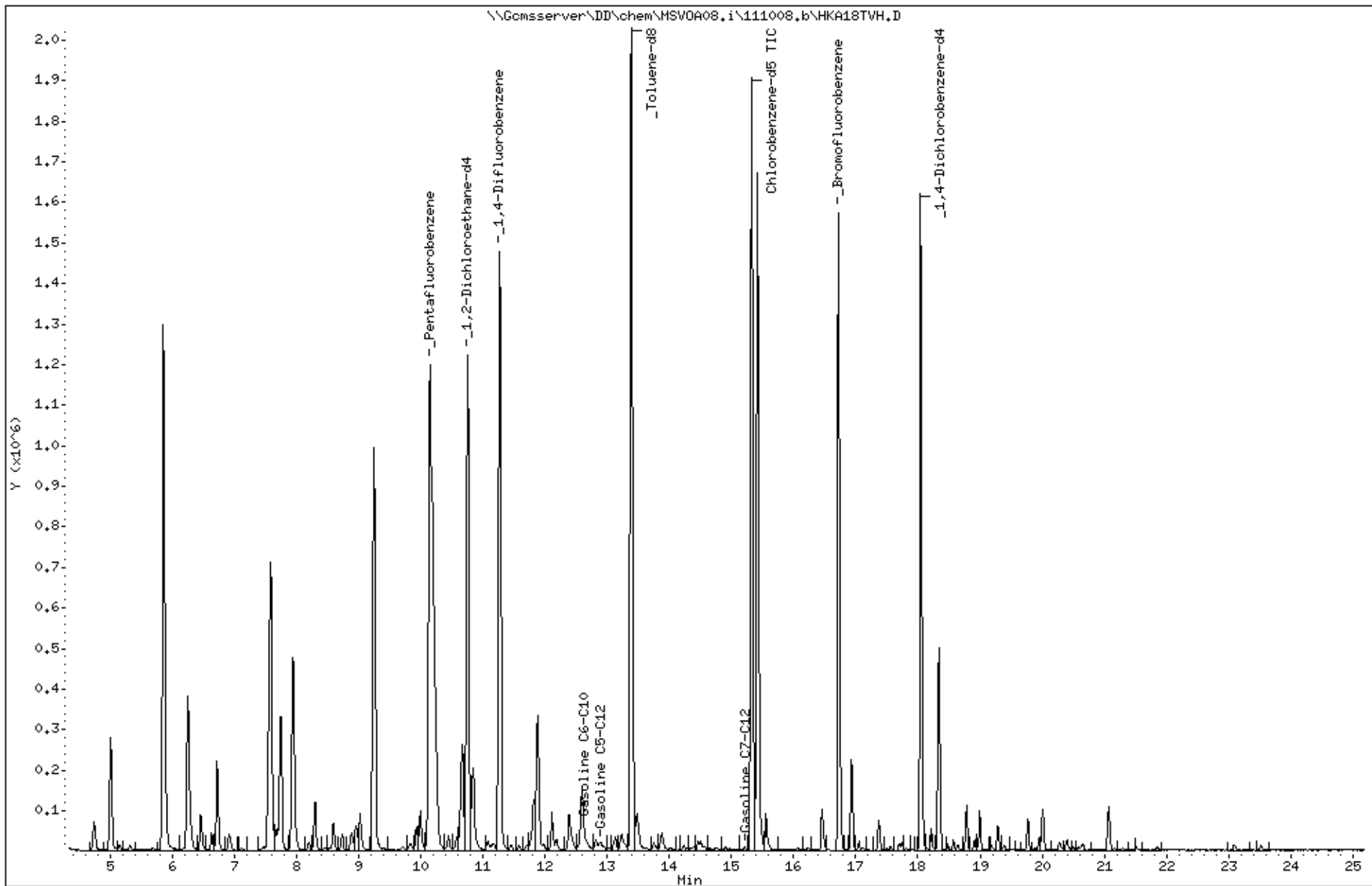


Date : 10-NOV-2008 19:24
Client ID: DYNA P&T
Sample Info: S,207456-004

Instrument: MSV0A08.i

Operator: voc
Column diameter: 2.00

Column phase:

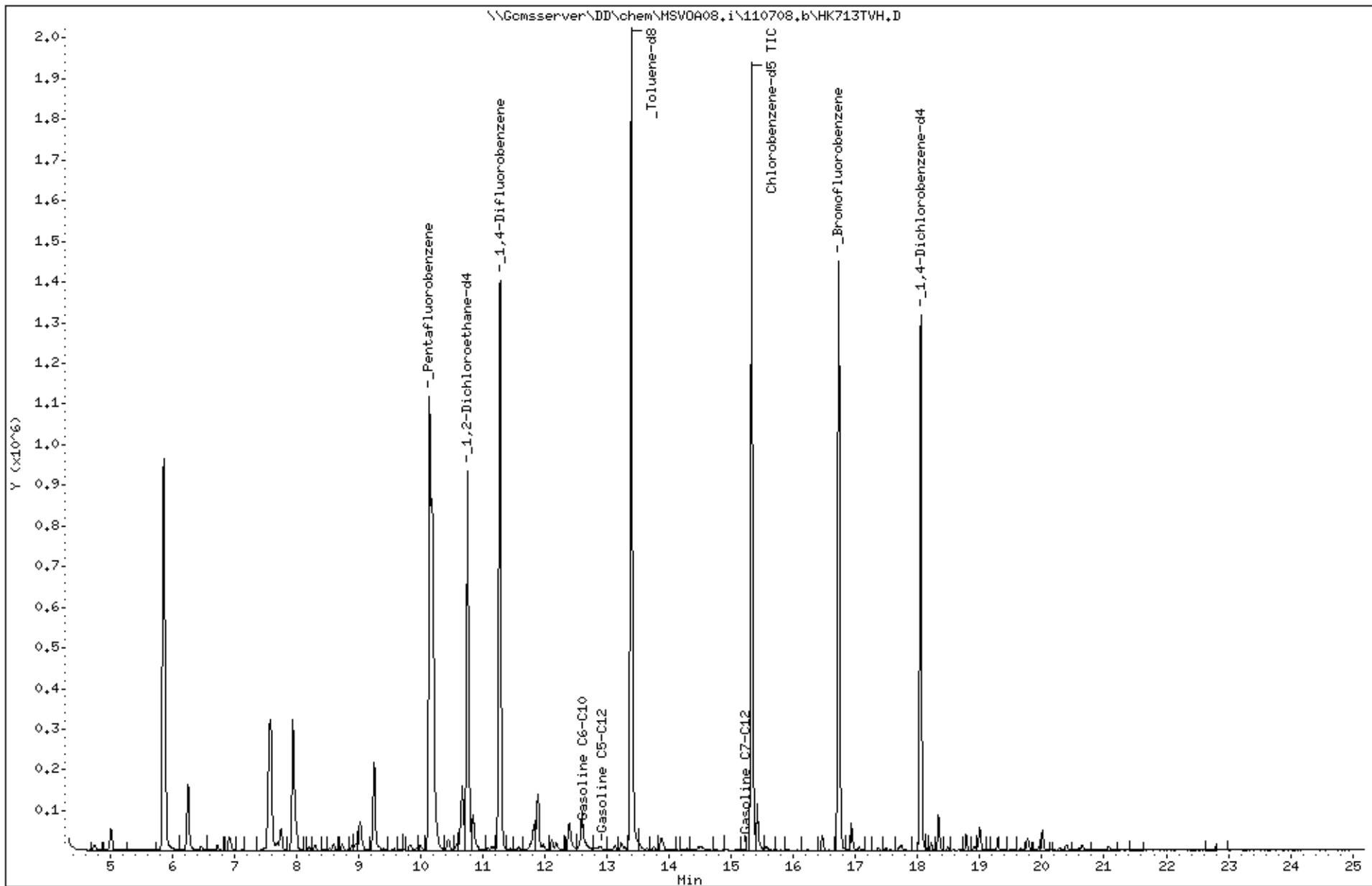


Date : 07-NOV-2008 16:48
Client ID: DYNA P&T
Sample Info: S,207456-005

Instrument: MSV0A08.i

Operator: voc
Column diameter: 2.00

Column phase:

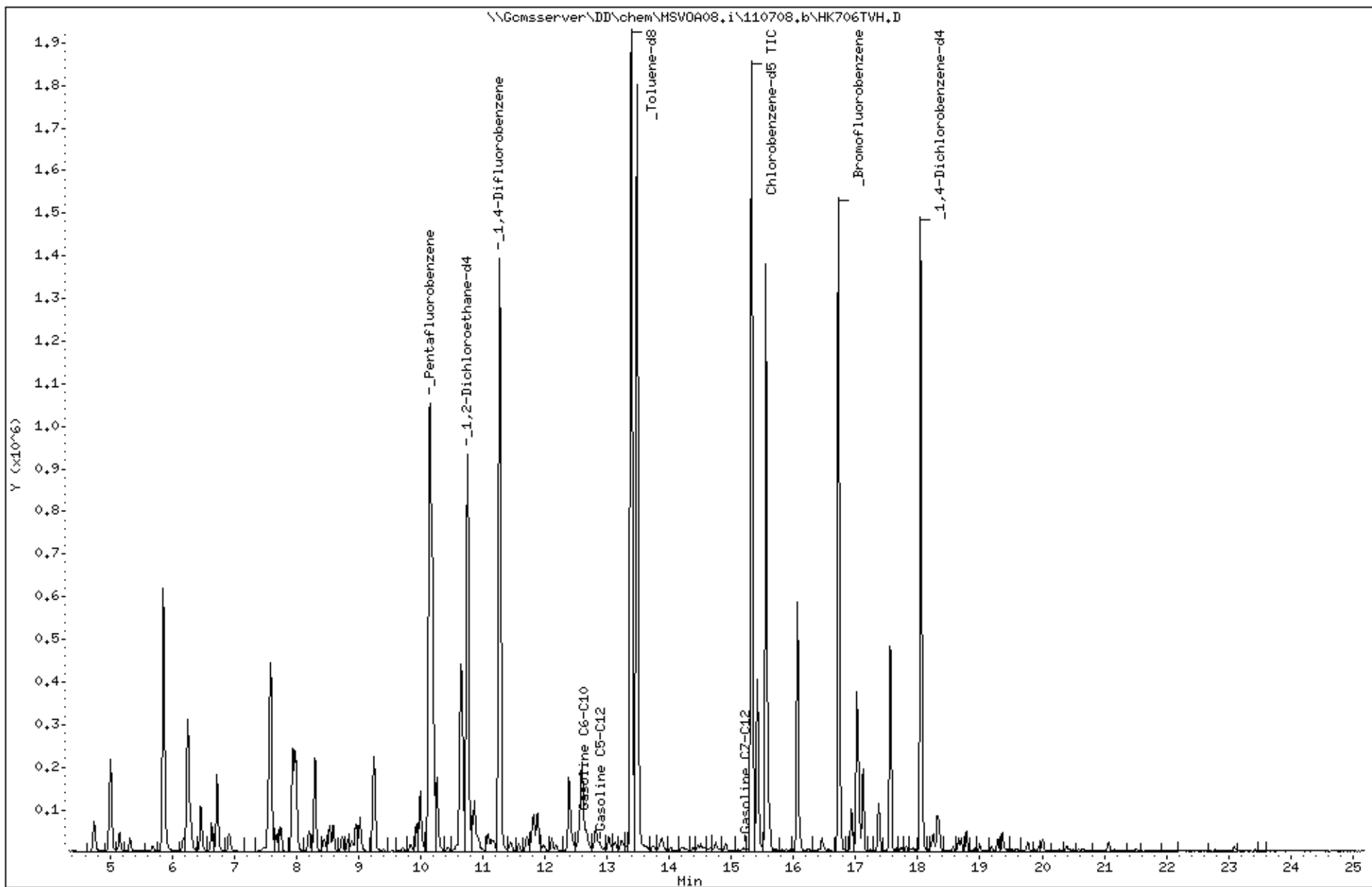


Date : 07-NOV-2008 12:26
Client ID: DYNA P&T
Sample Info: BSD, QC469386

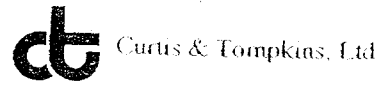
Instrument: MSV0A08.i

Operator: voc
Column diameter: 2.00

Column phase:



COOLER RECEIPT CHECKLIST



Login # 207818 Date Received 11-13-08 Number of coolers 1
Client SOMA ENVIRONMENTAL Project

Date Opened 11-13-08 By (print) SEVANS (sign) [Signature]
Date Logged in [Signature] By (print) M. VILLANOVA (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc)? YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

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

7. Temperature documentation:

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

Samples Received on ice & cold without a temperature blank

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

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are samples in the appropriate containers for indicated tests? YES NO

11. Are sample labels present, in good condition and complete? YES NO

12. Do the sample labels agree with custody papers? YES NO

13. Was sufficient amount of sample sent for tests requested? YES NO

14. Are the samples appropriately preserved? YES NO N/A

15. Are bubbles > 6mm absent in VOA samples? YES NO N/A

16. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

[Blank lines for comments]



Report Number : 65927

Date : 11/21/2008

Tracy Babjar
Curtis & Thompkins, LTD
2323 Fifth St.
Berkeley, CA 94710

Subject : 3 Water Samples
Project Name : 3609 International Blvd., Oakland, Ca
Project Number : 207818

Dear Ms. Babjar,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 65927

Date : 11/21/2008

Project Name : **3609 International Blvd., Oakland, Ca**

Project Number : **207818**

Sample : **MW-1**

Matrix : Water

Lab Number : 65927-01

Sample Date :11/13/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	43	1.0	ug/L	EPA 8260B	11/20/2008
Toluene	30	1.0	ug/L	EPA 8260B	11/20/2008
Ethylbenzene	180	1.0	ug/L	EPA 8260B	11/20/2008
Total Xylenes	740	1.0	ug/L	EPA 8260B	11/20/2008
Methyl-t-butyl ether (MTBE)	8.8	1.0	ug/L	EPA 8260B	11/20/2008
Diisopropyl ether (DIPE)	< 1.0	1.0	ug/L	EPA 8260B	11/20/2008
Ethyl-t-butyl ether (ETBE)	< 1.0	1.0	ug/L	EPA 8260B	11/20/2008
Tert-amyl methyl ether (TAME)	< 1.0	1.0	ug/L	EPA 8260B	11/20/2008
Tert-Butanol	5.2	5.0	ug/L	EPA 8260B	11/20/2008
TPH as Gasoline	7700	100	ug/L	EPA 8260B	11/20/2008
1,2-Dichloroethane	< 1.0	1.0	ug/L	EPA 8260B	11/20/2008
1,2-Dibromoethane	< 1.0	1.0	ug/L	EPA 8260B	11/20/2008
1,2-Dichloroethane-d4 (Surr)	90.6		% Recovery	EPA 8260B	11/20/2008
Toluene - d8 (Surr)	90.1		% Recovery	EPA 8260B	11/20/2008



Report Number : 65927

Date : 11/21/2008

Project Name : **3609 International Blvd., Oakland, Ca**

Project Number : **207818**

Sample : **MW-3**

Matrix : Water

Lab Number : 65927-02

Sample Date :11/13/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	420	1.5	ug/L	EPA 8260B	11/20/2008
Toluene	70	1.5	ug/L	EPA 8260B	11/20/2008
Ethylbenzene	300	1.5	ug/L	EPA 8260B	11/20/2008
Total Xylenes	830	1.5	ug/L	EPA 8260B	11/20/2008
Methyl-t-butyl ether (MTBE)	7.0	1.5	ug/L	EPA 8260B	11/20/2008
Diisopropyl ether (DIPE)	< 1.5	1.5	ug/L	EPA 8260B	11/20/2008
Ethyl-t-butyl ether (ETBE)	< 1.5	1.5	ug/L	EPA 8260B	11/20/2008
Tert-amyl methyl ether (TAME)	< 1.5	1.5	ug/L	EPA 8260B	11/20/2008
Tert-Butanol	22	7.0	ug/L	EPA 8260B	11/20/2008
TPH as Gasoline	7100	150	ug/L	EPA 8260B	11/20/2008
1,2-Dichloroethane	< 1.5	1.5	ug/L	EPA 8260B	11/20/2008
1,2-Dibromoethane	< 1.5	1.5	ug/L	EPA 8260B	11/20/2008
1,2-Dichloroethane-d4 (Surr)	91.4		% Recovery	EPA 8260B	11/20/2008
Toluene - d8 (Surr)	90.2		% Recovery	EPA 8260B	11/20/2008



Report Number : 65927

Date : 11/21/2008

Project Name : **3609 International Blvd., Oakland, Ca**

Project Number : **207818**

Sample : **MW-6**

Matrix : Water

Lab Number : 65927-03

Sample Date :11/13/2008

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1000	2.0	ug/L	EPA 8260B	11/20/2008
Toluene	300	2.0	ug/L	EPA 8260B	11/20/2008
Ethylbenzene	950	2.0	ug/L	EPA 8260B	11/20/2008
Total Xylenes	1400	2.0	ug/L	EPA 8260B	11/20/2008
Methyl-t-butyl ether (MTBE)	< 2.0	2.0	ug/L	EPA 8260B	11/20/2008
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	11/20/2008
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	11/20/2008
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	11/20/2008
Tert-Butanol	27	9.0	ug/L	EPA 8260B	11/20/2008
TPH as Gasoline	16000	200	ug/L	EPA 8260B	11/20/2008
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	11/20/2008
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	11/20/2008
1,2-Dichloroethane-d4 (Surr)	95.0		% Recovery	EPA 8260B	11/20/2008
Toluene - d8 (Surr)	97.3		% Recovery	EPA 8260B	11/20/2008

Report Number : 65927

Date : 11/21/2008

QC Report : Method Blank Data

Project Name : **3609 International Blvd., Oakland, Ca**

Project Number : **207818**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/19/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/19/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/19/2008
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/19/2008
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	11/19/2008
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	11/19/2008
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	11/19/2008
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	11/19/2008
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	11/19/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	11/19/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	11/19/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	11/19/2008
1,2-Dichloroethane-d4 (Surr)	97.4		%	EPA 8260B	11/19/2008
Toluene - d8 (Surr)	99.8		%	EPA 8260B	11/19/2008

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
------------------	-----------------------	-------------------------------	--------------	------------------------	----------------------

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Matrix Spike/ Matrix Spike DuplicateProject Name : **3609 International Blvd., Oakland, Ca**Project Number : **207818**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,2-Dichloroethane	65939-01	<0.50	40.0	39.9	39.6	39.3	ug/L	EPA 8260B	11/19/08	99.0	98.3	0.640	70-130	25
Benzene	65939-01	<0.50	39.0	39.0	38.7	38.4	ug/L	EPA 8260B	11/19/08	99.2	98.6	0.597	70-130	25
Methyl-t-butyl ether	65939-01	10	39.3	39.2	40.7	42.7	ug/L	EPA 8260B	11/19/08	78.2	83.5	6.56	70-130	25
Tert-Butanol	65939-01	<5.0	198	198	200	206	ug/L	EPA 8260B	11/19/08	100	104	3.37	70-130	25
Toluene	65939-01	<0.50	39.8	39.7	40.4	39.9	ug/L	EPA 8260B	11/19/08	101	100	1.12	70-130	25

Report Number : 65927

Date : 11/21/2008

QC Report : Laboratory Control Sample (LCS)

Project Name : **3609 International Blvd., Oakland, Ca**

Project Number : **207818**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,2-Dichloroethane	40.3	ug/L	EPA 8260B	11/19/08	98.9	70-130
Benzene	39.3	ug/L	EPA 8260B	11/19/08	97.5	70-130
Methyl-t-butyl ether	39.6	ug/L	EPA 8260B	11/19/08	76.3	70-130
Tert-Butanol	200	ug/L	EPA 8260B	11/19/08	99.8	70-130
Toluene	40.1	ug/L	EPA 8260B	11/19/08	100	70-130

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

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

65927

Project Number: 207818
 Site: 3609 International Blvd., Oakland, CA

Subcontract Laboratory:
 Kiff Analytical
 2795 Second St.
 Suite 300
 Davis, CA 95618
 (530) 297-4800
 ATTN: Troy Turpen

Results due: Report Level: II

Please send report to: Tracy Babjar

*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
MW-1	11/13 11:27	Water	MSTVH	207818-001	01
MW-3	11/13 12:13	Water	MSTVH	207818-002	02
MW-6	11/13 12:45	Water	MSTVH	207818-003	03

Gasoline
 Oxygenates
 BTEX
 Pb Scavengers

SAMPLE RECEIPT
 Temp °C 4.6 Therm. ID# IR-1
 Initial LJR Date 11/5/08
 Time 0757 Coolant present: Yes No

Notes:	Relinquished By:	Received By:
	Date/Time: <u>11-14-08</u> <u>1500</u>	<u>LJR</u> Kiff Analytical Date/Time: <u>11/5/08</u> <u>0823</u>

Signature on this form constitutes a firm Purchase Order for the services requested above.

Appendix D

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

Fourth Quarter 2008: Groundwater Monitoring and Remediation System Report
With Evaluation of Effectiveness of Monthly MPE

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 208524 Date Received 12/11/08 Number of coolers 1
Client SOMEX ENV. Project 3609 INTERNATIONAL BLVD. OAKLAND, CA

Date Opened 12/11/08 By (print) M. VILLONVELLO (sign) [Signature]
Date Logged in [Signature] By (print) [Signature] (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples YES NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Cloth material, Foam blocks, Cardboard, Bags, Styrofoam, None, Paper towels

7. Temperature documentation:

Type of ice used: Wet Blue/Gel None Temp(C)

Samples Received on ice & cold without a temperature blank

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

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are samples in the appropriate containers for indicated tests? YES NO

11. Are sample labels present, in good condition and complete? YES NO

12. Do the sample labels agree with custody papers? YES NO

13. Was sufficient amount of sample sent for tests requested? YES NO

14. Are the samples appropriately preserved? YES NO N/A

15. Are bubbles > 6mm absent in VOA samples? YES NO N/A

16. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

Multiple horizontal lines for handwritten comments.



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

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

Laboratory Job Number 208524
ANALYTICAL REPORT

SOMA Environmental Engineering Inc. 6620 Owens Dr. Pleasanton, CA 94588	Project : 2333 Location : 3609 International Blvd. Oakland CA Level : II
---	--

<u>Sample ID</u>	<u>Lab ID</u>
PSP-1	208524-001
GAC-1	208524-002
INFLUENT	208524-003

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

Signature: 
Project Manager

Date: 12/23/2008

Signature: 
Senior Program Manager

Date: 12/23/2008

CASE NARRATIVE

Laboratory number: 208524
Client: SOMA Environmental Engineering Inc.
Project: 2333
Location: 3609 International Blvd. Oakland CA
Request Date: 12/11/08
Samples Received: 12/11/08

This data package contains sample and QC results for three water samples, requested for the above referenced project on 12/11/08. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):

High surrogate recoveries were observed for bromofluorobenzene in GAC-1 (lab # 208524-002), INFLUENT (lab # 208524-003), and the method blank for batch 146136. No other analytical problems were encountered.

Batch QC Report

Gasoline by GC/MS			
Lab #:	208524	Location:	3609 International Blvd. Oakland CA
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146064
Units:	ug/L	Analyzed:	12/16/08
Diln Fac:	1.000		

Type: BS Lab ID: QC475699

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	650.0	596.2	92	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-125
1,2-Dichloroethane-d4	89	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	115	80-122

Type: BSD Lab ID: QC475700

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	650.0	588.9	91	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-125
1,2-Dichloroethane-d4	89	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	115	80-122

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS			
Lab #:	208524	Location:	3609 International Blvd. Oakland CA
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2333	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	146136
Units:	ug/L	Analyzed:	12/17/08
Diln Fac:	1.000		

Type: BS Lab ID: QC476027

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	700.0	681.6	97	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-125
1,2-Dichloroethane-d4	93	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	117	80-122

Type: BSD Lab ID: QC476028

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	700.0	659.4	94	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-125
1,2-Dichloroethane-d4	85	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	120	80-122

RPD= Relative Percent Difference

Date : 17-DEC-2008 20:44

Client ID: DYNA P&T

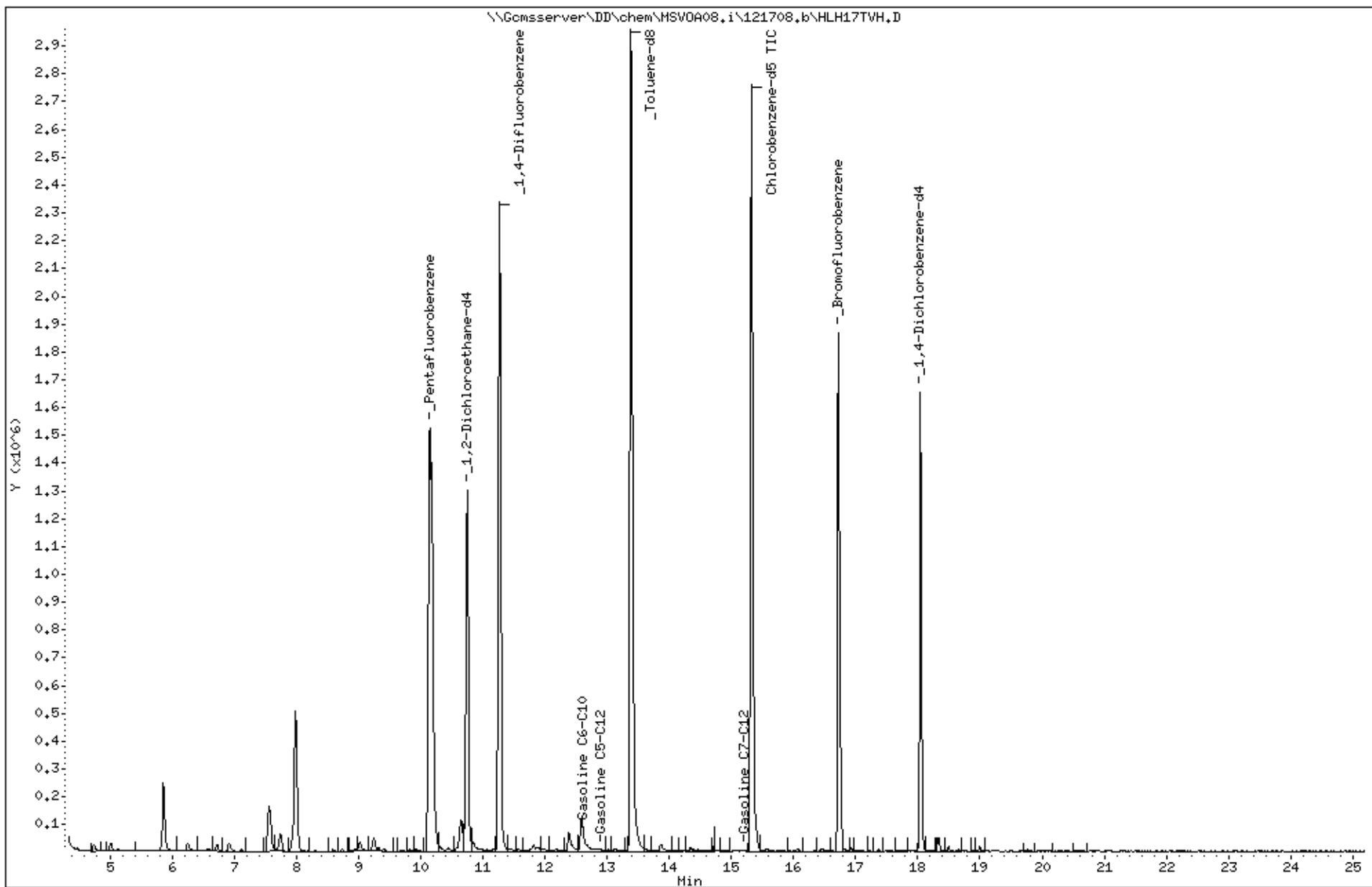
Sample Info: S,208524-003

Instrument: MSV0A08.i

Operator: voc

Column diameter: 2.00

Column phase:



Date : 16-DEC-2008 13:45

Client ID: DYNA P&T

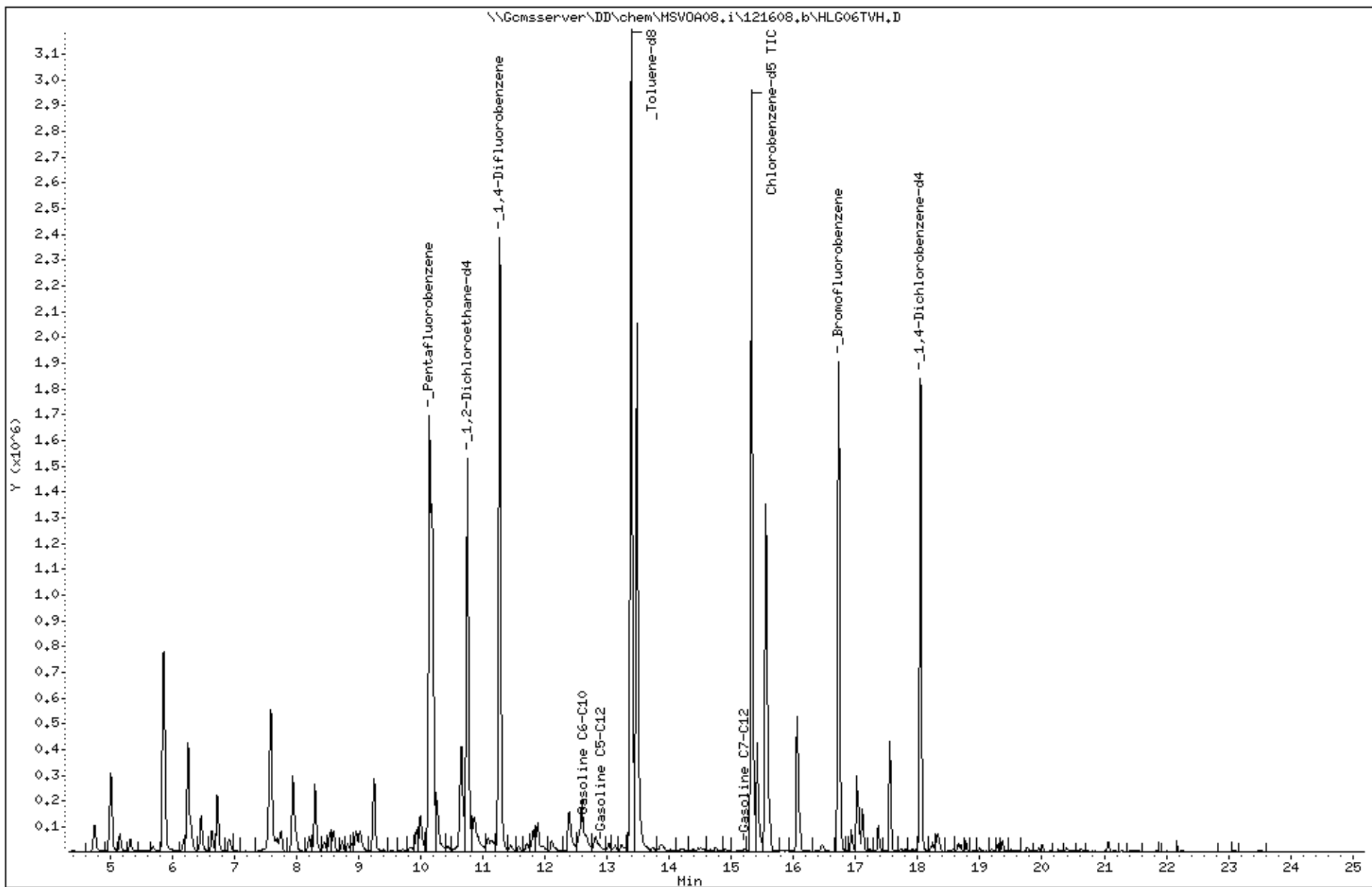
Sample Info: CCV/BS, QC475699, 146064

Instrument: MSV0A08.i

Operator: voc

Column diameter: 2.00

Column phase:



Appendix E

October 2008 MPE Event Field Data Sheets

ADDRESS: 3609 International Blvd., Oakland
PROJECT #: 2335

MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
10/6/2008	900	Begin MW-1, MW-3, & MW-6								
	930	1587	170	25	26.8	41	0	41	5,710	110
	1130	1549	172	21.6	24.2	82	0	82	3,200	310
	1230	1528	172	21.2	24	85	0	85	2,430	395
	1330	1505	172	20.8	23.7	90	0	90	2,210	472
	1430	1498	173	20.9	23.7	90	0	90	2,030	560
	1500	1497	173	20.9	23.8	89	0	89	eff=12; in=2,090	596
10/7/2008	730	1535	173	20.8	24.4	79	0	79	2,070	1,903
		Transfer pump leaking, repaired seal, ordered part, restart @ 1130								
	1230	1450	174	20	23.8	89	0	89	2,200	1,903
	1330	1458	174	20	23.8	89	0	89	2,100	1,977
	1530	1459	175	20	23.8	89	0	89	1,643	2,176
	1630	1458	175	20	23.8	89	0	89	1,625	2,258
10/8/2008	800	1481	174	20	23.8	89	0	89	811	3,538
	900	1467	171	19.4	23.4	95	0	95	770	3,627
	1030	1456	184	19.4	23.4	95	0	95	786	3,839
		Replaced pump seal 11-12, restart @ 1200								
	1200	1449	175	19	23.2	98	0	98	888	3,913
	1300	1455	174	19	23.2	98	0	98	1,006	3,963
	1400	1457	172	19	23.1	100	0	100	914	4,078
	1500	1466	173	19	23	101	0	101	873	4,156



ADDRESS: 3609 International Blvd., Oakland
PROJECT #: 2335

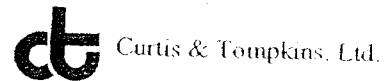
MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
	1600	1453	172	18.9	23	101	0	101	874	4,273
	1630	1464	175	18.8	23	101	0	101	870	4,311
10/9/2008	800	1477	173	18.5	22.8	104	0	104	720	5,692
	900	1465	172	18.4	22.6	108	0	108	725	5,768
	1030	1446	175	18.4	22.7	106	0	106	708	5,883
	1130	1475	172	18.4	22.6	108	0	108	728	5,949
	1230	1461	173	18.4	22.7	106	0	106	846	6,035
	1330	1442	173	18.3	22.5	109	0	109	723	6,122
	1530	1440	174	18.3	22.5	109	0	109	677	6,291
	1630	1460	172	18.2	22.5	109	0	109	691	6,292
10/10/2008	1030	1437	172	18.3	22.5	109	0	109	646	7,789
	1130	1455	171	18.2	22.4	111	0	111	664	7,866
	1230	1407	173	18.1	22.4	111	0	111	664	7,927
	1330	1315	171	17.9	22.4	111	0	111	624	8,022
	1430	1464	171	18.2	22.4	111	0	111	641	8,097
	1530	1459	171	18.2	22.4	111	0	111	662	8,174
	1600	1456	171	18.3	22.5	109	0	109	661	8,202
		End extraction								

Appendix F

October 2008 MPE Event Laboratory Reports and Chain of Custody Forms

COOLER RECEIPT CHECKLIST



Login # 206654 Date Received 10-7-08 Number of coolers 1
Client SOMA Project 2335

Date Opened 10-7 By (print) F Nichols (sign) [Signature]
Date Logged in [down arrow] By (print) [down arrow] (sign) [down arrow]

1. Did cooler come with a shipping slip (airbill, etc)? Shipping info YES NO

2A. Were custody seals present? How many Name Date YES NO

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Cloth material, Foam blocks, Cardboard, Bags, Styrofoam, None, Paper towels

7. Temperature documentation:

Type of ice used: Wet Blue/Gel None Temp(C)

Samples Received on ice & cold without a temperature blank

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

8. Were Method 5035 sampling containers present? If YES, what time were they transferred to freezer? YES NO

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are samples in the appropriate containers for indicated tests? YES NO

11. Are sample labels present, in good condition and complete? YES NO

12. Do the sample labels agree with custody papers? YES NO

13. Was sufficient amount of sample sent for tests requested? YES NO

14. Are the samples appropriately preserved? YES NO N/A

15. Are bubbles > 6mm absent in VOA samples? YES NO N/A

16. Was the client contacted concerning this sample delivery? YES NO

If YES, Who was called? By Date:

COMMENTS

[Blank lines for comments]



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

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

Laboratory Job Number 206654
ANALYTICAL REPORT

SOMA Environmental Engineering Inc. Project : 2335
6620 Owens Dr. Location : 3609 International Blvd., Oakland, CA
Pleasanton, CA 94588 Level : II

Table with 2 columns: Sample ID, Lab ID. Rows: MW-1 (206654-001), MW-3 (206654-002), MW-6 (206654-003)

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

Signature: [Handwritten Signature]
Project Manager

Date: 10/22/2008

Signature: [Handwritten Signature]
Senior Program Manager

Date: 10/22/2008

CASE NARRATIVE

Laboratory number: 206654
Client: SOMA Environmental Engineering Inc.
Project: 2335
Location: 3609 International Blvd., Oakland, CA
Request Date: 10/07/08
Samples Received: 10/07/08

This hardcopy data package contains sample and QC results for three water samples, requested for the above referenced project on 10/07/08. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):

Low recovery was observed for gasoline C7-C12 in the BSD for batch 143885; the associated RPD was within limits. High surrogate recovery was observed for bromofluorobenzene in the method blank for batch 143885; no target analytes were detected in the sample. No other analytical problems were encountered.

Gasoline by GC/MS			
Lab #:	206654	Location:	3609 International Blvd., Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2335	Analysis:	EPA 8260B
Matrix:	Water	Sampled:	10/06/08
Units:	ug/L	Received:	10/07/08

Field ID: MW-1 Diln Fac: 1.000
 Type: SAMPLE Batch#: 143565
 Lab ID: 206654-001 Analyzed: 10/13/08

Analyte	Result	RL
Gasoline C7-C12	130	50
MTBE	ND	0.50
Benzene	0.78	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	1.0	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-125
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	118	80-122

Field ID: MW-3 Lab ID: 206654-002
 Type: SAMPLE

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Gasoline C7-C12	2,400	170	3.333	143885	10/20/08
MTBE	6.2	0.50	1.000	143565	10/13/08
Benzene	250	1.7	3.333	143885	10/20/08
Toluene	59	0.50	1.000	143565	10/13/08
Ethylbenzene	99	1.7	3.333	143885	10/20/08
m,p-Xylenes	190	0.50	1.000	143565	10/13/08
o-Xylene	130	1.7	3.333	143885	10/20/08

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	96	80-125	1.000	143565	10/13/08
1,2-Dichloroethane-d4	84	80-137	1.000	143565	10/13/08
Toluene-d8	100	80-120	1.000	143565	10/13/08
Bromofluorobenzene	95	80-122	1.000	143565	10/13/08

*= Value outside of QC limits; see narrative
 ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS		
Lab #:	206654	Location: 3609 International Blvd., Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#:	2335	Analysis: EPA 8260B
Matrix:	Water	Sampled: 10/06/08
Units:	ug/L	Received: 10/07/08

Field ID: MW-6 Diln Fac: 10.00
 Type: SAMPLE Batch#: 143615
 Lab ID: 206654-003 Analyzed: 10/15/08

Analyte	Result	RL
Gasoline C7-C12	5,400	500
MTBE	ND	5.0
Benzene	890	5.0
Toluene	110	5.0
Ethylbenzene	53	5.0
m,p-Xylenes	500	5.0
o-Xylene	88	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-125
1,2-Dichloroethane-d4	90	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	95	80-122

Type: BLANK Batch#: 143565
 Lab ID: QC464863 Analyzed: 10/13/08
 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	96	80-125
1,2-Dichloroethane-d4	96	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	119	80-122

*= Value outside of QC limits; see narrative
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/MS		
Lab #:	206654	Location: 3609 International Blvd., Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#:	2335	Analysis: EPA 8260B
Matrix:	Water	Batch#: 143565
Units:	ug/L	Analyzed: 10/13/08
Diln Fac:	1.000	

Type: BS Lab ID: QC464859

Analyte	Spiked	Result	%REC	Limits
MTBE	30.00	26.51	88	70-125
Benzene	30.00	33.25	111	80-120
Toluene	30.00	30.05	100	80-120
Ethylbenzene	30.00	28.70	96	80-122
m,p-Xylenes	60.00	64.10	107	80-126
o-Xylene	30.00	30.82	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-125
1,2-Dichloroethane-d4	102	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	102	80-122

Type: BSD Lab ID: QC464860

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	30.00	26.88	90	70-125	1	20
Benzene	30.00	32.02	107	80-120	4	20
Toluene	30.00	28.69	96	80-120	5	20
Ethylbenzene	30.00	27.26	91	80-122	5	20
m,p-Xylenes	60.00	60.81	101	80-126	5	20
o-Xylene	30.00	29.72	99	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-125
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-122

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS			
Lab #:	206654	Location:	3609 International Blvd., Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2335	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	143565
Units:	ug/L	Analyzed:	10/13/08
Diln Fac:	1.000		

Type: BS Lab ID: QC464861

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	955.1	96	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-125
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	105	80-122

Type: BSD Lab ID: QC464862

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	1,005	101	80-120	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-125
1,2-Dichloroethane-d4	96	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	102	80-122

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS			
Lab #:	206654	Location:	3609 International Blvd., Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2335	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	143615
Units:	ug/L	Analyzed:	10/14/08
Diln Fac:	1.000		

Type: BS Lab ID: QC465096

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,500	1,550	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-125
1,2-Dichloroethane-d4	92	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	95	80-122

Type: BSD Lab ID: QC465097

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,500	1,564	104	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-125
1,2-Dichloroethane-d4	90	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	93	80-122

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS			
Lab #:	206654	Location:	3609 International Blvd., Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2335	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	143885
Units:	ug/L	Analyzed:	10/20/08
Diln Fac:	1.000		

Type: BS Lab ID: QC466238

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	827.3	83	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-125
1,2-Dichloroethane-d4	103	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	110	80-122

Type: BSD Lab ID: QC466239

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	781.3	78 *	80-120	6	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-125
1,2-Dichloroethane-d4	103	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	110	80-122

*= Value outside of QC limits; see narrative

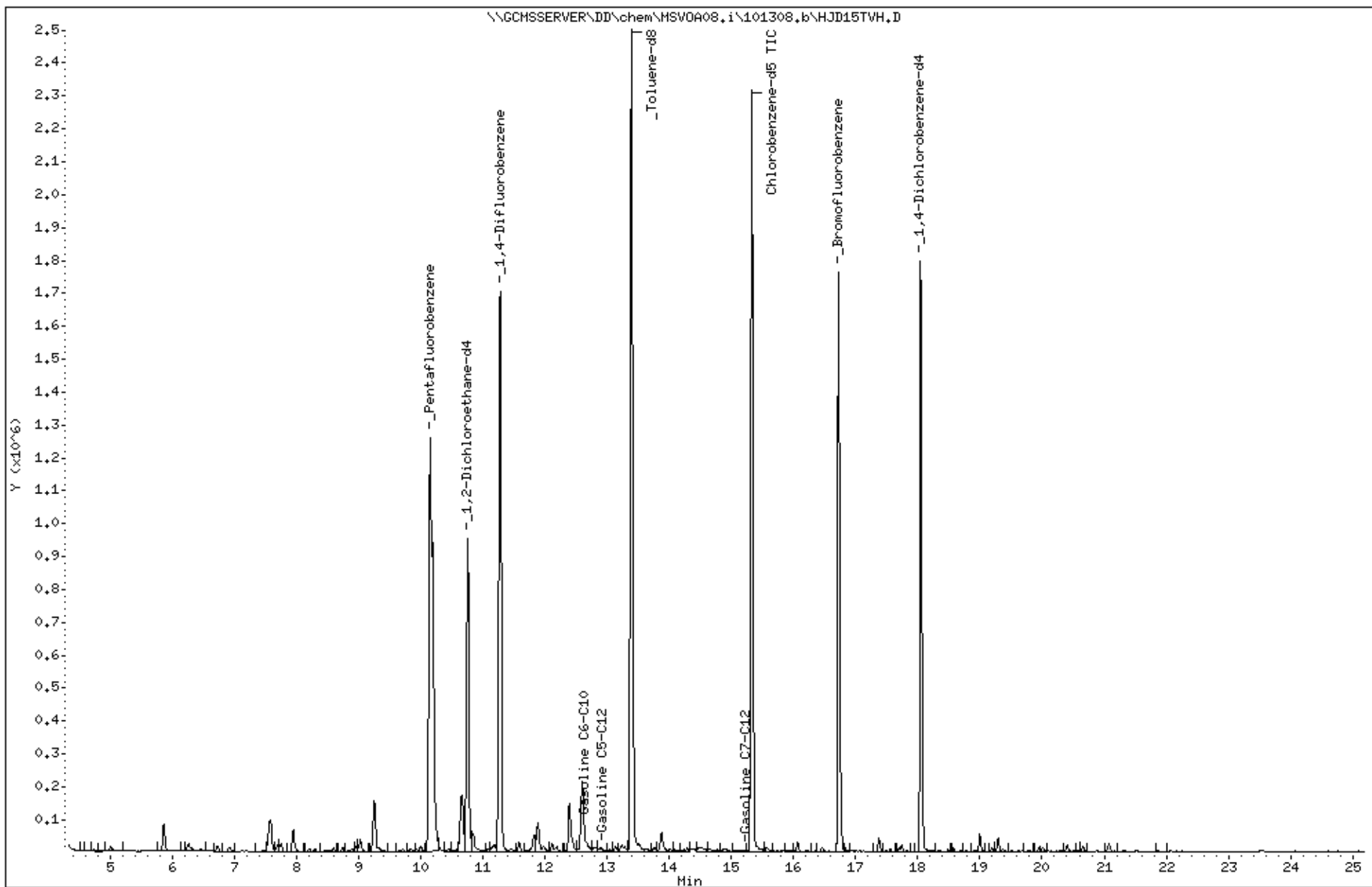
RPD= Relative Percent Difference

Date : 13-OCT-2008 16:26
Client ID: DYNA P&T
Sample Info: S,206654-001

Instrument: MSV0A08.i

Operator: voc
Column diameter: 2.00

Column phase:

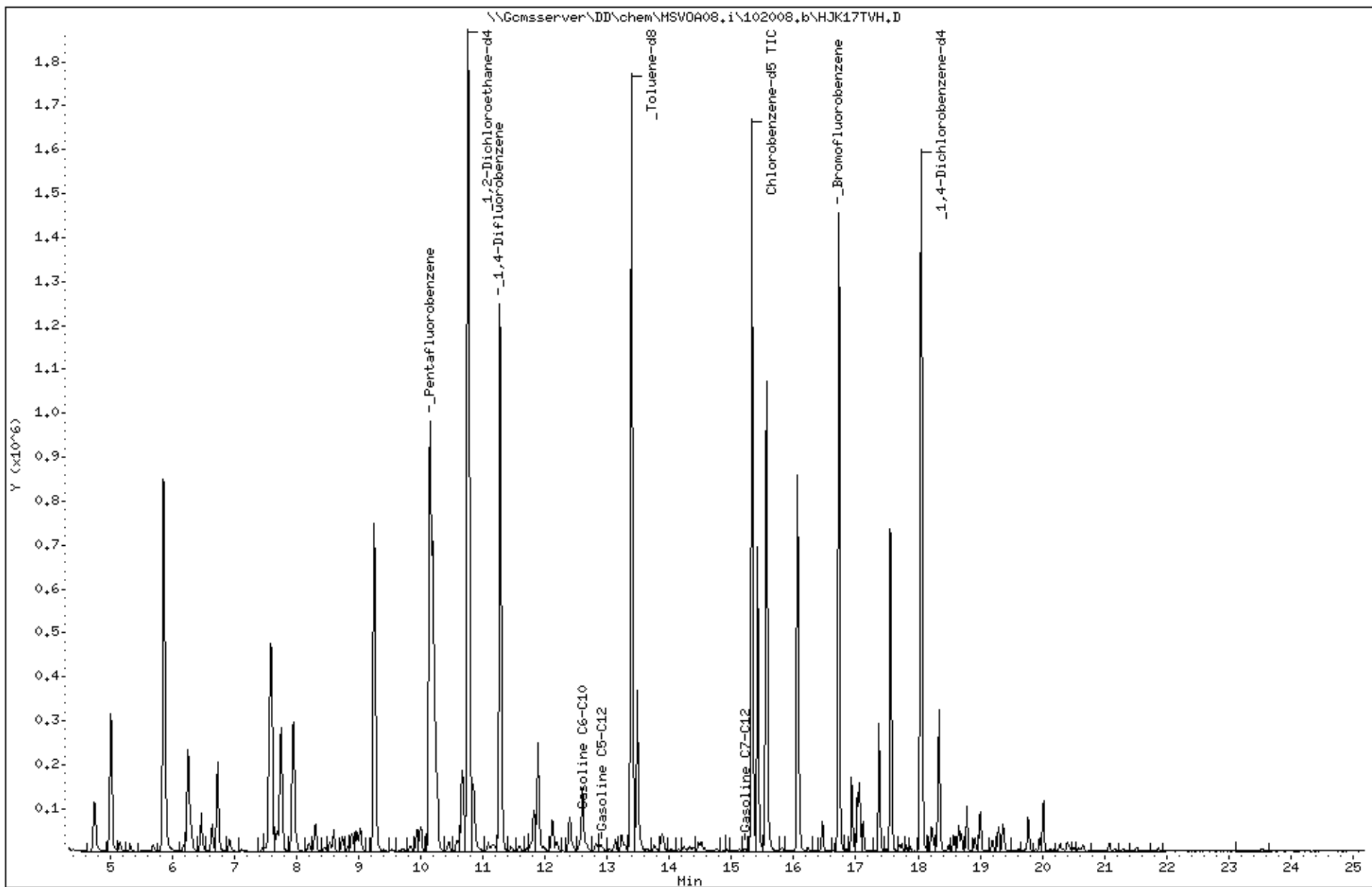


Date : 20-OCT-2008 21:16
Client ID: DYNA P&T
Sample Info: S,206654-002

Instrument: MSV0A08.i

Operator: voc
Column diameter: 2.00

Column phase:

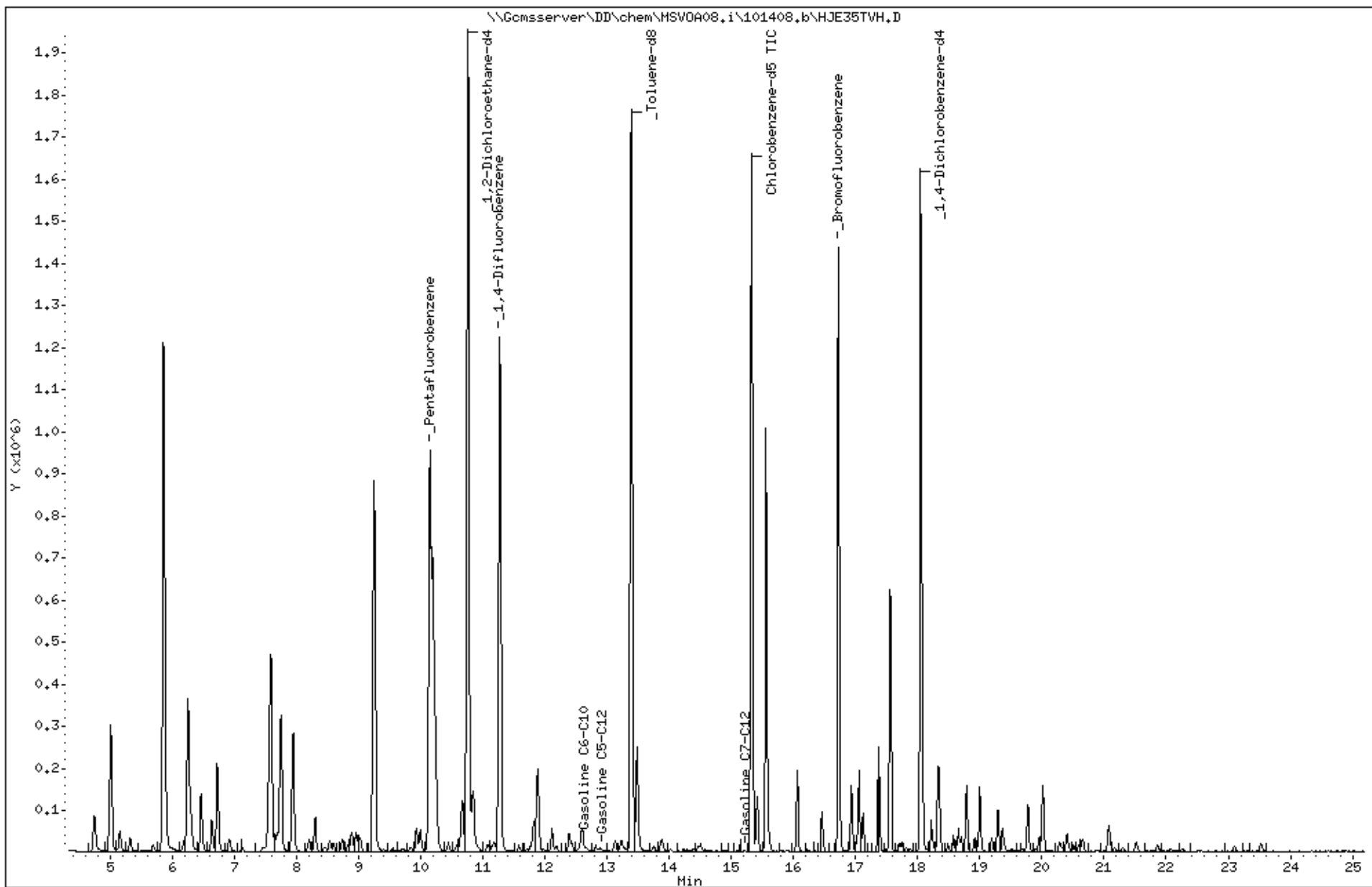


Date : 15-OCT-2008 03:41
Client ID: DYNA P&T
Sample Info: S,206654-003

Instrument: MSV0A08.i

Operator: voc
Column diameter: 2.00

Column phase:



Date : 13-OCT-2008 10:45

Client ID: DYNA P&T

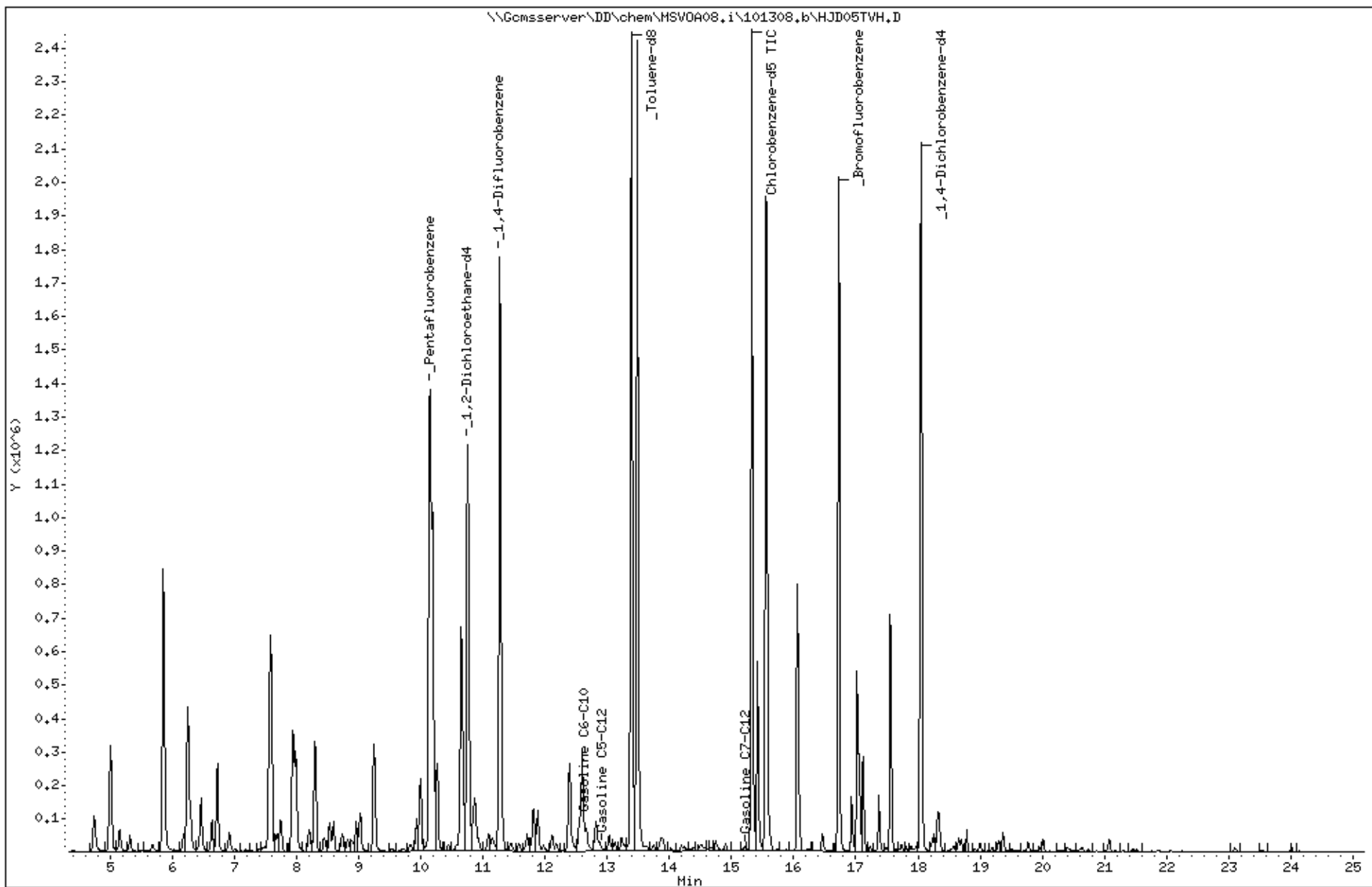
Sample Info: CCV/BS, QC464861

Instrument: MSV0A08.i

Operator: voc

Column diameter: 2.00

Column phase:



COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 206859 Date Received 10/14/08 Number of coolers 1
 Client SOMA ENV. Project 3609 INTERNATIONAL BLVD. DAKLAW, CA
 Date Opened 10/14/08 By (print) M. VILLANUEVA (sign) [Signature]
 Date Logged in ↓ By (print) ↓ (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc)? YES NO
- Shipping info _____
- 2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____
- 2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe) _____
 Bubble Wrap Foam blocks Bags None
 Cloth material Cardboard Styrofoam Paper towels
7. Temperature documentation:
 Type of ice used: Wet Blue/Gel None Temp(°C) _____
 Samples Received on ice & cold without a temperature blank
 Samples received on ice directly from the field. Cooling process had begun
8. Were Method 5035 sampling containers present? YES NO
 If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are samples in the appropriate containers for indicated tests? YES NO
11. Are sample labels present, in good condition and complete? YES NO
12. Do the sample labels agree with custody papers? YES NO
13. Was sufficient amount of sample sent for tests requested? YES NO
14. Are the samples appropriately preserved? YES NO N/A
15. Are bubbles > 6mm absent in VOA samples? YES NO N/A
16. Was the client contacted concerning this sample delivery? YES NO
 If YES, Who was called? _____ By _____ Date: _____

COMMENTS



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

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

Laboratory Job Number 206859
ANALYTICAL REPORT

SOMA Environmental Engineering Inc. Project : 2335
6620 Owens Dr. Location : 3609 International Blvd., Oakland, CA
Pleasanton, CA 94588 Level : II

Table with 2 columns: Sample ID, Lab ID. Rows: MW-1 (206859-001), MW-3 (206859-002), MW-6 (206859-003)

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

Signature: [Handwritten Signature]
Project Manager

Date: 10/27/2008

Signature: [Handwritten Signature]
Senior Program Manager

Date: 10/28/2008

CASE NARRATIVE

Laboratory number: 206859
Client: SOMA Environmental Engineering Inc.
Project: 2335
Location: 3609 International Blvd., Oakland, CA
Request Date: 10/14/08
Samples Received: 10/14/08

This hardcopy data package contains sample and QC results for three water samples, requested for the above referenced project on 10/14/08. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):

High surrogate recoveries were observed for bromofluorobenzene in MW-1 (lab # 206859-001), the method blanks for batch 143966, and the method blanks for batch 144002. No other analytical problems were encountered.

Gasoline by GC/MS		
Lab #:	206859	Location: 3609 International Blvd., Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#:	2335	Analysis: EPA 8260B
Matrix:	Water	Sampled: 10/14/08
Units:	ug/L	Received: 10/14/08

Field ID:	MW-1	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	143966
Lab ID:	206859-001	Analyzed:	10/22/08

Analyte	Result	RL
Gasoline C7-C12	160	50
MTBE	ND	0.50
Benzene	1.3	0.50
Toluene	0.65	0.50
Ethylbenzene	0.89	0.50
m,p-Xylenes	4.8	0.50
o-Xylene	3.8	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-125
1,2-Dichloroethane-d4	106	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	124 *	80-122

Field ID:	MW-3	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	143966
Lab ID:	206859-002	Analyzed:	10/22/08

Analyte	Result	RL
Gasoline C7-C12	270	50
MTBE	5.0	0.50
Benzene	16	0.50
Toluene	1.7	0.50
Ethylbenzene	1.3	0.50
m,p-Xylenes	10	0.50
o-Xylene	14	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-125
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	118	80-122

*= Value outside of QC limits; see narrative
 ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS		
Lab #:	206859	Location: 3609 International Blvd., Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#:	2335	Analysis: EPA 8260B
Matrix:	Water	Sampled: 10/14/08
Units:	ug/L	Received: 10/14/08

Field ID: MW-6 Diln Fac: 12.50
 Type: SAMPLE Batch#: 144002
 Lab ID: 206859-003 Analyzed: 10/23/08

Analyte	Result	RL
Gasoline C7-C12	10,000	630
MTBE	ND	6.3
Benzene	900	6.3
Toluene	280	6.3
Ethylbenzene	540	6.3
m,p-Xylenes	1,200	6.3
o-Xylene	350	6.3

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-125
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	110	80-122

Type: BLANK Batch#: 143966
 Lab ID: QC466566 Analyzed: 10/22/08
 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	99	80-125
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	127 *	80-122

*= Value outside of QC limits; see narrative
 ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/MS		
Lab #:	206859	Location: 3609 International Blvd., Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#:	2335	Analysis: EPA 8260B
Matrix:	Water	Sampled: 10/14/08
Units:	ug/L	Received: 10/14/08

Type:	BLANK	Batch#:	144002
Lab ID:	QC466724	Analyzed:	10/23/08
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	100	80-125
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	126 *	80-122

*= Value outside of QC limits; see narrative
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/MS			
Lab #:	206859	Location:	3609 International Blvd., Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2335	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	143966
Units:	ug/L	Analyzed:	10/22/08
Diln Fac:	1.000		

Type: BS Lab ID: QC466568

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	868.6	87	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-125
1,2-Dichloroethane-d4	106	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	112	80-122

Type: BSD Lab ID: QC466569

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	814.9	81	80-120	6	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-125
1,2-Dichloroethane-d4	103	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	114	80-122

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/MS		
Lab #:	206859	Location: 3609 International Blvd., Oakland, CA
Client:	SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#:	2335	Analysis: EPA 8260B
Matrix:	Water	Batch#: 144002
Units:	ug/L	Analyzed: 10/23/08
Diln Fac:	1.000	

Type: BS Lab ID: QC466727

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	900.0	819.5	91	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-125
1,2-Dichloroethane-d4	102	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	112	80-122

Type: BSD Lab ID: QC466728

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	900.0	824.2	92	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-125
1,2-Dichloroethane-d4	103	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	113	80-122

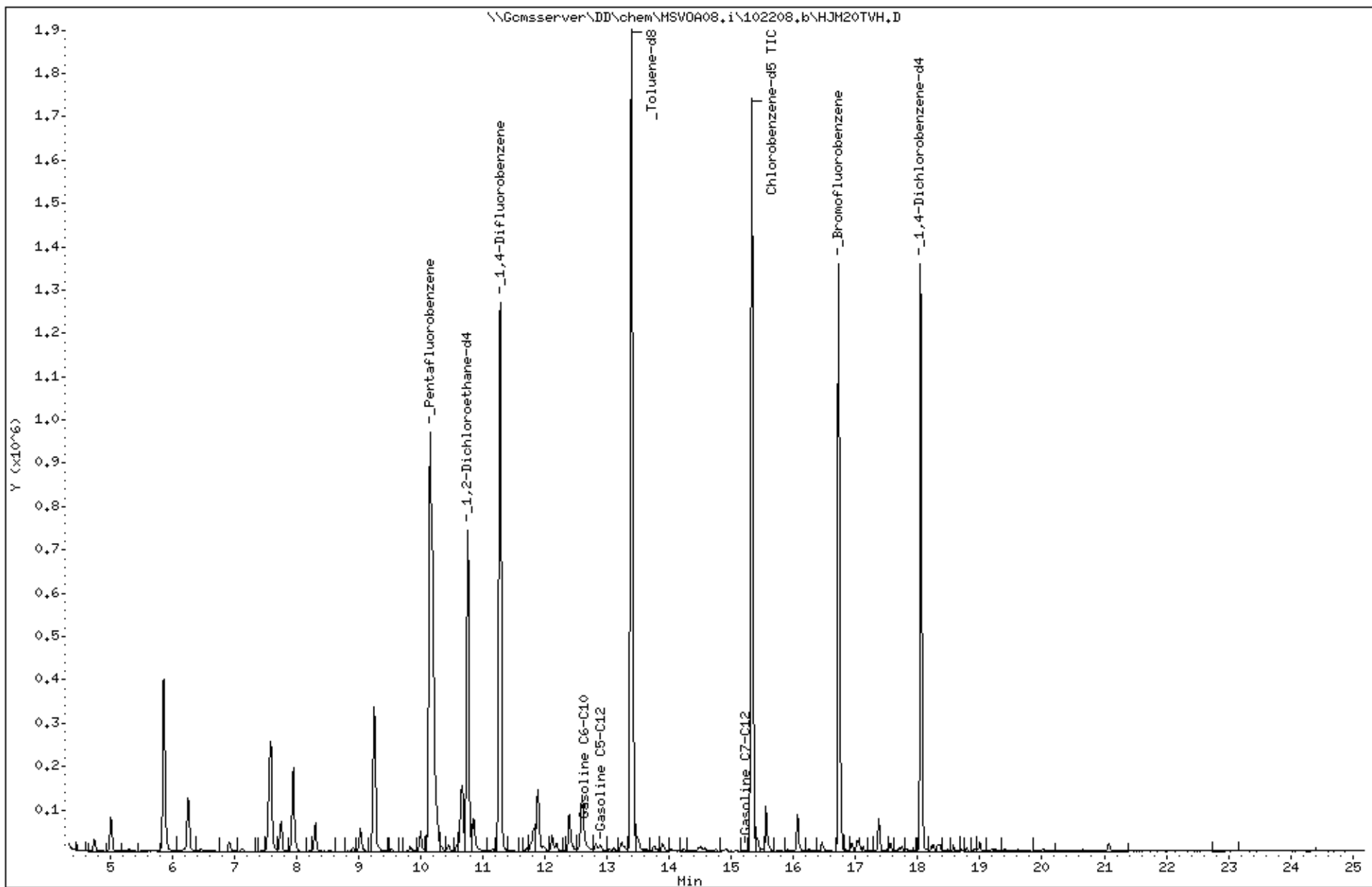
RPD= Relative Percent Difference

Date : 22-OCT-2008 21:16
Client ID: DYNA P&T
Sample Info: S,206859-001

Instrument: MSV0A08.i

Operator: voc
Column diameter: 2.00

Column phase:



Date : 22-OCT-2008 21:52

Client ID: DYNA P&T

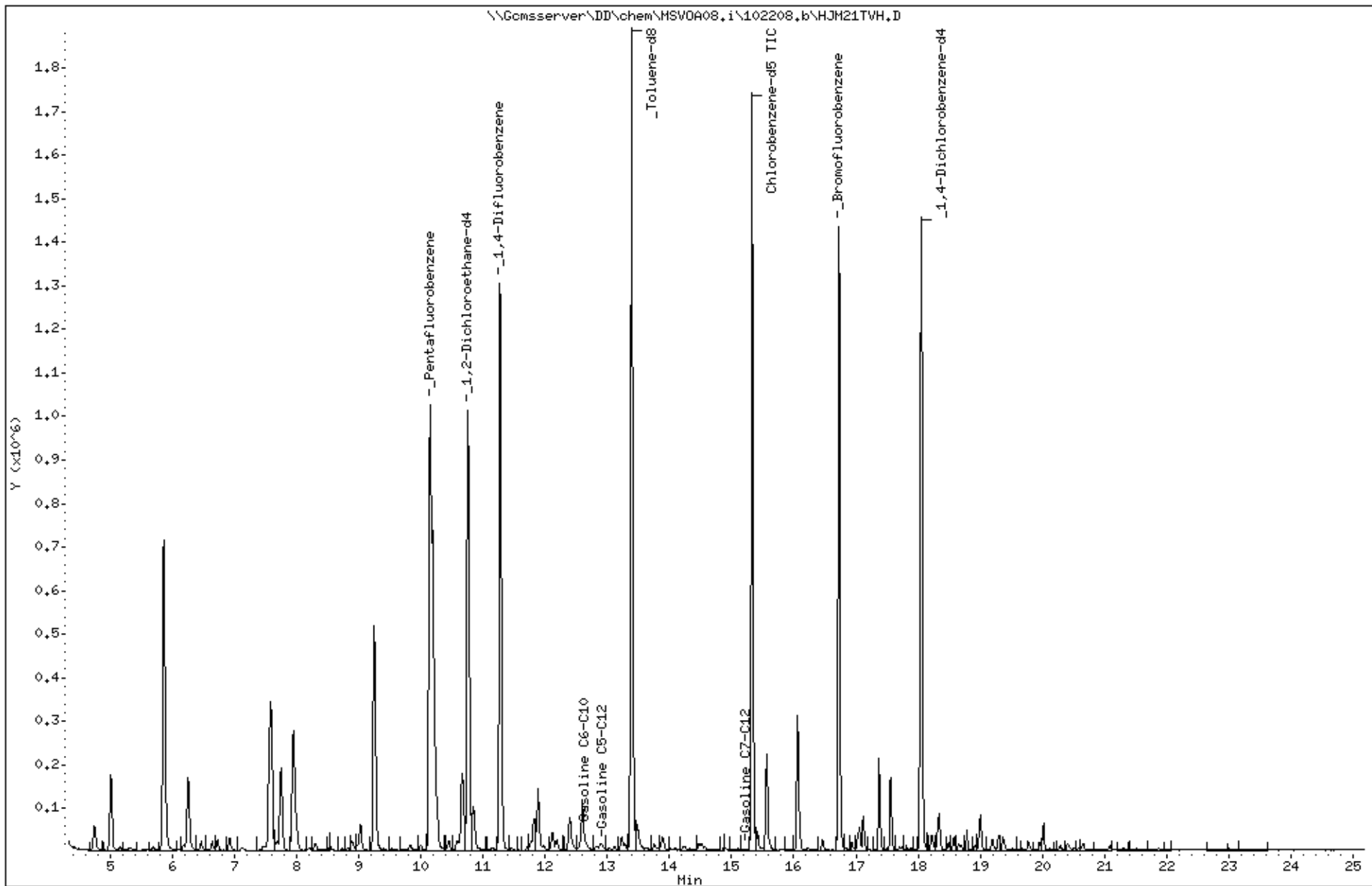
Sample Info: S,206859-002

Instrument: MSV0A08.i

Operator: voc

Column diameter: 2.00

Column phase:



Date : 23-OCT-2008 16:28

Client ID: DYNA P&T

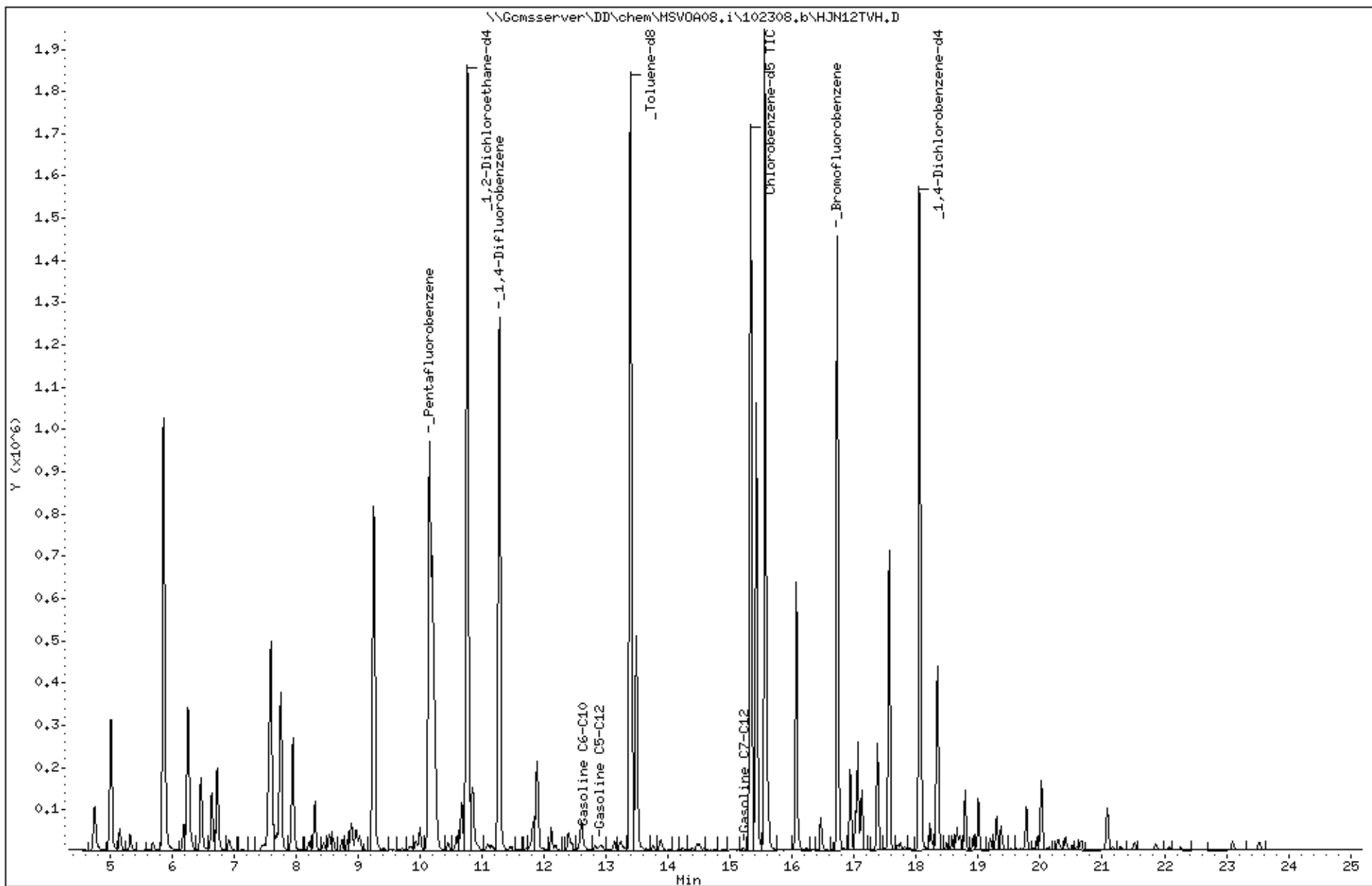
Sample Info: S,206859-003

Instrument: MSV0A08.i

Operator: voc

Column diameter: 2.00

Column phase:



Date : 22-OCT-2008 11:55

Client ID: DYNA P&T

Sample Info: CCV,S9459,0,0075/100

Instrument: MSV0A08.i

Operator: voc

Column diameter: 2.00

Column phase:

