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April 26, 2006

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 "Second Quarter 2006 Groundwater Monitoring and Remediation System Operation Report" for the subject property has been uploaded to the State's GeoTracker database and Alameda County's FTP site for your review.

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

Sincerely,

Mansour Sepehr, Ph.D.,PE Principal Hydrogeologist

Enclosure

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

Mr. Vince Tong w/report enclosure Traction International



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Second Quarter 2006 Groundwater Monitoring and Remediation System Operation Report Tony's Express Auto Service

3609 International Boulevard Oakland, California

April 26, 2006

Project 2331

Prepared for

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

Prepared by

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

Certification

This report has been prepared by SOMA Environmental Engineering, Inc. on behalf of Mr. Abolghassem Razi, the property owner of 3609 International Boulevard, Oakland, California, to comply with the Alameda County Environmental Health Services' requirements for the Second Quarter 2006 groundwater monitoring event.

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



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1.0 Introduction

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

This report summarizes the results of the Second Quarter 2006 groundwater monitoring event conducted at the Site on April 6 and 7, 2006, and includes the laboratory analytical results on the groundwater samples.

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

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

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

1.1 Background

In July 1993, Soil Tech Engineering removed one single-walled 10,000-gallon gasoline tank and one single-walled 6,000-gallon gasoline tank along with a 550-gallon waste oil tank from the Site. Three double-walled underground storage tanks (USTs) replaced these tanks. Currently, there is one 10,000-gallon double-walled gasoline tank and two 6,000-gallon double-walled gasoline tanks beneath the Site. The locations of the USTs are shown in Figure 2.

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

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

The source of the petroleum hydrocarbons in the groundwater was believed to have been the former USTs, which were used to store gasoline at the Site. The

results of the CAP study indicated that the installation of a French drain combined with a vapor extraction system would be the most cost effective alternative for the Site's remediation.

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

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

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

On April 1, 2005, SOMA conducted a pilot test to evaluate the use of ozone sparging to actively remediate the groundwater at the Site. The test revealed that the unsaturated zone was permeable enough to allow for the operation of an ozone sparging system. However, ozone injection, especially in the region of more impacted wells MW-1 and MW-3, which are in the vicinity of the UST cavity, could have possibly lead to an explosive condition. Therefore, based on safety concerns, air-sparging technology was enacted for site cleanup.

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

2.0 Results

The following sections provide the results of the field measurements and laboratory analyses for the April 6 and 7, 2006 groundwater monitoring event.

2.1 Field Measurements

As shown in Table 1, the depths to groundwater for the monitoring wells ranged from 5.75 feet in well MW-2 to 8.10 feet in well MW-7. The corresponding groundwater elevations ranged from 28.92 feet in well MW-12 to 35.35 feet in well MW-5. The groundwater elevations for the center, east, and west risers were 25.75 feet, 28.76 feet, and 26.36 feet, respectively.

Figure 3 displays the groundwater elevation contour map. The groundwater flows towards the French drain at an approximate gradient of 0.140 feet/feet. The lowest site-wide groundwater elevation was measured in the center French drain riser. The French drain is providing excellent hydraulic control in preventing the contaminants from migrating further off-site.

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

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

Detectable DO concentrations ranged from 1.70 mg/L in well MW-3 to 3.98 mg/L in well MW-7. ORP showed negative redox potentials in wells MW-1, MW-3, MW-6, MW-8, and MW-12. Oxidation of petroleum hydrocarbons could have occurred in these monitoring wells. Negative redox potentials indicate that contaminants in the groundwater are conducive to anaerobic biodegradation.

Ferrous iron concentrations can be used as an indicator of anaerobic biodegradation. Ferrous iron concentrations ranged from 0.78 mg/L in well MW-7 to the equipment's maximum allowable tolerance range of 3.30 mg/L in wells MW-1 and MW-3. Ferrous iron was not detected in well MW-2, MW-4R, MW-5, MW-10, or MW-11.

Nitrate concentrations were below the equipment's minimum allowable level in all the groundwater samples. High ferrous iron concentrations in combination with non-detectable nitrate levels are indicative of anaerobic biodegradation beneath the Site.

The absence of sulfate in the groundwater samples may be indicative of an anaerobic methanogenesis process. Sulfate was detected in wells MW-1, MW-2, and MW-5 at 10 mg/L, 12 mg/L, and 63 mg/L, respectively; and below the equipment's tolerance level in the remaining groundwater samples.

2.2 Laboratory Analysis

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

Total petroleum hydrocarbons as gasoline (TPH-g) was detected throughout the Site. Detectable TPH-g concentrations ranged from 449 ug/L in well MW-5 to 42,500 ug/L in well MW-1. Figure 4 displays the contour map of TPH-g concentrations in the groundwater. The TPH-g concentration in the vicinity of the USTs, in well MW-1, was several orders of magnitude higher than the remaining site wells.

In well MW-5, all benzene, toluene, ethylbenzene, total xylenes (BTEX) analytes were below the laboratory reporting limit, with the exception of ethylbenzene, which was detected at 0.53 ug/L. In well MW-7, both toluene and total xylenes

were below the laboratory reporting limit. In well MW-10, toluene was below the laboratory reporting limit. In well MW-12, all BTEX analytes were below the laboratory reporting limit. The highest benzene, toluene, ethylbenzene, and total xylenes concentrations were detected in well MW-1 at 1,780 ug/L, 1,010 ug/L, 1,610 ug/L, and 2,449 ug/L, respectively.

Figure 5 displays the contour map of benzene concentrations in the groundwater. The highest benzene concentration was detected in the vicinity of the USTs, in well MW-1.

Methyl tertiary Butyl Ether (MtBE) was below the laboratory reporting limit in monitoring wells MW-2, MW-4R, MW-6, MW-7, and MW-11. Detectable MtBE concentrations ranged from 1.16 ug/L in well MW-5 to 2,110 ug/L in well MW-1. Figure 6 displays the contour map of MtBE concentrations in the groundwater. The highest MtBE concentration was detected in well MW-1, which is in the vicinity of the USTs.

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

3.0 Groundwater Treatment System Operation

The treatment system began operating on December 9, 1999. Since that time, 3,236,770 gallons of groundwater has been treated and discharged under the existing discharge permit (as of April 10, 2006), into the East Bay Municipal Utility District's (EBMUD's) sewer system.

As of January 9, 2004, the previously installed pneumatic downhole pumps in the western and center French drain risers were removed and replaced with electrical downhole pumps. On May 4, 2005, to maintain accurate recordings of the total flow through the system, a newer totalizer meter was installed. On September 29, 2005, the existing 2,000-pound carbon vessel was replaced with a newer 2,000-pound carbon vessel. The newer vessel was refurbished with new carbon; the 55-gallon carbon drum was also replaced. The former 2,000-pound vessel had become rusted due to prolonged usage. A schematic diagram of the remediation system is displayed in Figure 7.

On April 10, 2006, a carbon change-out was conducted on the remedial system. During this change-out the 2,000-pound vessel was refurbished with new carbon and the 200-pound carbon drum was replaced.

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

The treatment system has removed approximately 201 pounds of hydrocarbons and 85.8 pounds of MtBE, as of March 10, 2006. Figure 8 shows the approximate masses of TPH-g and MtBE removed from the impacted groundwater during the operation of the treatment system.

4.0 Operation of Air Sparging System

From February 22, 2006 to March 6, 2006, SOMA oversaw the installation of the air sparge system. The system consists of nine-vapor extraction wells and three air sparge wells. The air sparge wells were installed in the vicinity of the UST cavity, pump islands, and near well MW-6. Figure 2 shows the locations of the air sparge wells. Figures 9 and 10 show the schematic diagram of the air sparging and vapor extraction units. The operating permit for the SVE system was extended by BAAQMD until August 2006.

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

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

5.0 Conclusions and Recommendations

The findings of the Second Quarter 2006 groundwater monitoring event can be summarized as follows:

- The groundwater remediation system is providing excellent hydraulic control and preventing further migration of the contaminants to the off-site areas.
- 2. The bio-attenuation study confirmed the occurrence of biodegradation beneath the Site. Based on this study, the affected areas appear to be in the vicinity of the USTs, around wells MW-1 and MW-3, as well as the eastern section of the Site, around well MW-6. The source area still remains in the vicinity of wells MW-1, MW-3, and MW-6.
- 3. Since the previous monitoring event, both TPH-g and MtBE decreased in well MW-1. In well MW-3, TPH-g, benzene, and MtBE all increased. In

well MW-6, both TPH-g and benzene increased and MtBE remained at a non-detectable level.

- 4. In general, the GAC and SVE systems have effectively reduced the contaminants beneath the Site. Since initial start-up, approximately 201 pounds of hydrocarbons and 85.8 pounds of MtBE (as of March 10, 2006) have been removed from the groundwater. Approximately 814.2 pounds of petroleum hydrocarbons have been removed from the vadose zone.
- 5. To further reduce the groundwater and soil concentrations, an air sparge system was installed at the Site and additional SVE wells were installed. SOMA will provide detailed operation and maintenance activities on the air sparge system on a quarterly basis.

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

- Continual operation of the pump-and-treat system to maintain the removal rate of the contaminant masses in the groundwater;
- Continual site monitoring of the biodegradation parameters to determine if the injection of concentrated solutions of terminal electron receptors into the groundwater, in the vicinity of the more contaminated wells, may enhance the biodegradation process;
- Continued quarterly monitoring programs to better understand the seasonal variations in the groundwater quality conditions; and
- Continued operation of the air sparge system in order to determine the effectiveness of air sparge unit in reducing the contaminant mass in the unsaturated zone.

6.0 Report Limitations

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

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

TABLES

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

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

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

| | | T 01 | | | | | | | | |
|------------|------------------------|------------------------|-------------------------|--------------------------|------------------|-------------------|----------------|-------------------|--------------------|--------------------------------|
| | | Top Of Casing | 5 | 0.00 | | | | Educat | Total | B#4DE 2 |
| Monitoring | | Elevation ¹ | Depth to Groundwater | Groundwater Elevation | TPH-q | Benzene | Toluene | Ethyl- Benzene | Total Xylenes | MtBE ² EPA 8260B |
| Well | Data | (feet) | (feet) | (feet) | μg/L) | benzene (μg/L) | | (μg/L) | λyleries (μg/L) | (μg/L) |
| | Date | , , | . , | | " " ' | | (μg/L) | | | |
| MW-1 cont. | 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 12/8/2004 | 40.11 40.11 | 13.81 11.10 | 26.30 29.01 | 22,000 | 2,000 | 220 319 | 560 895 | 3,090 | 6,900 |
| | 3/16/2005 | 40.11 | 8.40 | 31.71 | 22,790 | 1,634 | 811 | | 2,851 | 5,504 |
| | 5/16/2005 | 40.11 | 8.40 9.72 | 30.39 | 44,400 | 3,150 | | 1,090 | 2,856 | 7,180 |
| | 7/14/2005 | 40.11 | 9.72 | 28.80 | 33,900 50,100 | 3,440 4,350 | 1,700 1,760 | 1,090 1,500 | 2,276 2,853 | 3,210 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 | 1,61 0 | 2,449 | 2,200 2,110 |
| | 4/1/2000 | 70.11 | 7.12 | 32.33 | 42,300 | 1,700 | 1,010 | 1,010 | 2,443 | 2,110 |
| 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 |
| | . =/ 10/ 1000 | 00.00 | 10.01 | 07.01 | 20,000 | 1,100 | 1,000 | 000 | 0,000 | 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-2 cont. | 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 |
| | 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 |

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 | 10/5/1994 | 97.78 | 15.79 | 81.99 | 3,000,000 | 190,000 | 740,000 | 310,000 | 130,000 | NA |
| 10100-5 | 12/2/1994 | 97.78 | 9.79 | 87.99 | 250,000 | 19,000 | 22,000 | 4,400 | 28,000 | NA NA |
| | 3/6/1995 | 97.78 | 8.69 | 89.09 | 350,000 | 20,000 | 42,000 | 5,800 | 36,000 | NA NA |
| | 6/5/1995 | 97.78 | 10.25 | 87.53 | 350,000 | 20,000 | 42,000 | 5,800 | 36,000 | NA NA |
| | 10/2/1995 | 97.78 | 12.91 | 84.87 | 150,000 | 510 | 410 | 210 | 65 | NA NA |
| | 1/3/1996 | 97.78 | 10.55 | 87.23 | 150,000 | 510 | 410 | 210 | 650 | NA NA |
| | 4/3/1996 | 97.78 | 8.76 | 89.02 | NA | NA | NA | NA | NA | NA NA |
| | 12/3/1996 | 97.78 | 12.02 | 85.76 | NA | NA | NA | NA NA | NA | NA NA |
| | 4/1/1997 | 97.78 | 11.73 | 86.05 | NA | 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 |

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

| | | Top Of | | | | | | | | |
|------------|------------|-------------|-------------|-------------|--------|---------|---------|---------|---------|-------------------|
| | | Casing | Depth to | Groundwater | | | | Ethyl- | Total | MtBE ² |
| Monitoring | | Elevation 1 | Groundwater | Elevation | TPH-g | Benzene | Toluene | Benzene | Xylenes | EPA 8260B |
| Well | Date | (feet) | (feet) | (feet) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) |
| MW-3 cont. | 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 |
| | 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 |
| | | | | | | | | | | |
| MW-4 | 1/3/1996 | 97.85 | 10.11 | 87.74 | 9,300 | 230 | 110 | 10 | 29 | NA |
| | 4/3/1996 | 97.85 | 8.35 | 89.50 | 1,900 | 12 | 8 | 5 | 14 | NA |
| | 12/9/1996 | 97.85 | 11.58 | 86.27 | 4,000 | 14 | 6 | 4 | 12 | ND |
| | 4/10/1997 | 97.85 | 11.23 | 86.62 | ND | ND | ND | ND | ND | ND |
| | 12/30/1997 | 97.85 | 9.43 | 88.42 | 2,300 | 410 | 270 | 100 | 1,500 | NA |
| | 6/30/1998 | 97.85 | NM | NM | 1,700 | 780 | 160 | 54 | 200 | NA |
| | 9/29/1998 | 97.85 | 13.64 | 84.21 | 6,200 | 910 | 77 | 68 | 200 | 18 |
| | 12/16/1998 | 97.85 | 11.13 | 86.72 | 1,400 | 590 | 33 | 28 | 94 | 24 |
| | 3/16/1999 | 97.85 | 8.46 | 89.39 | 600 | 200 | 35 | 19 | 56 | 11 |
| | 6/10/1999 | 97.85 | 11.30 | 86.55 | 1,000 | 298 | 44 | 19 | 64 | 13 |
| | 8/23/1999 | 97.85 | 13.20 | 84.65 | 660 | 497 | 41 | 54 | 145 | 6 |
| | 11/9/1999 | 97.85 | 14.10 | 83.75 | <50 | <5 | <5 | <5 | <5 | <5 |
| | 2/7/2000 | 97.85 | 11.25 | 86.60 | 7,800 | 1,200 | 61 | <5 | 781 | <5 |
| | 5/31/2000 | 97.85 | 11.46 | 86.39 | 552 | 42 | 19 | 16 | 67 | <5 |
| | 8/9/2000 | 97.85 | 13.35 | 84.50 | 370 | 5.08 | <5 | <5 | <5 | <5 |
| | 11/2/2000 | 97.85 | 13.05 | 84.80 | ND | 5.30 | ND | ND | 8 | ND |
| | 3/13/2001 | 97.85 | 9.24 | 88.61 | 62 | ND | ND | 3.2 | 8.7 | ND |
| | 5/22/2001 | 97.85 | 11.50 | 86.35 | 80 | 12 | 1.9 | 4.1 | 9.8 | ND |
| | 8/8/2001 | 97.85 | 13.80 | 84.05 | 133 | 12 | 2.2 | 3.9 | 9 | ND |
| | 11/19/2001 | 97.85 | 13.68 | 84.17 | 670 | 180 | 5 | 17 | 53 | ND |

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

| | | Top Of | | | | | | | | |
|------------|------------|------------------------|-------------|-------------|--------|---------|---------|---------|---------|-------------------|
| | | Casing | Depth to | Groundwater | TDU | B | | Ethyl- | Total | MtBE ² |
| Monitoring | | Elevation ¹ | Groundwater | Elevation | TPH-g | Benzene | Toluene | Benzene | Xylenes | EPA 8260B |
| Well | Date | (feet) | (feet) | (feet) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) |
| MW-4 cont. | 2/21/2002 | 97.85 | 9.97 | 87.88 | 450 | 63 | 4.1 | 22 | 28.7 | <2 |
| | 5/7/2002 | 97.85 | 10.81 | 87.04 | 570 | 72 | 29 | 27 | 74 | <2 |
| | 7/30/2002 | 40.01 | 12.62 | 27.39 | 450 | 20 | 24 | 19 | 74 | <2.0 |
| | 10/2/2002 | 40.01 | 14.34 | 25.67 | 320 | 69 | 0.99 | 9 | 5.49 | <2.0 |
| | 1/3/2003 | 40.01 | 9.79 | 30.22 | 310 | 49 | 2.5 | 13 | 26.7 | <2.0 |
| | 7/24/2003 | 40.01 | 12.44 | 27.57 | <50 | 1 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 10/22/2003 | 40.01 | 13.72 | 26.29 | 70 | 12 | <0.5 | 4.7 | 3.0 | <2.0 |
| | 1/22/2004 | 40.01 | 10.55 | 29.46 | 230 | 18 | 2.1 | 8.1 | 17.1 | <2.0 |
| | 4/1/2004 | 40.01 | 11.39 | 28.62 | <50 | 3.8 | <0.5 | 1.6 | 1.9 | <2.0 |
| | 8/20/2004 | 40.01 | 13.68 | 26.33 | <50 | 1.6 | <0.5 | 0.66 | 0.53 | <2.0 |
| | 12/7/2004 | 40.01 | 10.95 | 29.06 | <50 | 1.3 | <0.5 | 2.80 | <1.0 | <0.5 |
| | 3/15/2005 | 40.01 | 8.61 | 31.40 | 661 | 72 | 4.13 | 39.7 | 48.42 | <0.5 |
| | | | | | | T | | | | T - |
| 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 |
| | | | | | | T | | | T | ı |
| 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 |
| | 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 |

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. | 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 |
| | 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 1/3/2006 | 41.16 41.16 | 13.57 6.81 | 27.59 34.35 | 404 170 | <0.50 | <2.0 <0.5 | <0.50 1.8 | <1.0 3.1 | 0.93 1.1 |
| | 4/7/2006 | 41.16 41.16 | 5.81 | 34.35 35.35 | 449 | 2.2 <0.5 | <0.5 <2.0 | 0.53 | 3.1 <1.0 | 1.16 |
| | 4///2006 | 41.10 | 3.01 | 33.33 | 449 | <0.5 | <2.0 | 0.55 | <1.0 | 1.10 |
| MW-6 | 10/1/1995 | 98.77 | 13.94 | 84.83 | NA | NA NA | NA | NA | NA | NA |
| INI AA-Q | 1/1/1995 | 98.77 | 13.94 | 84.83 88.22 | | 350 | 310 | 200 | 610 | NA NA |
| | 4/1/1996 | 98.77 98.77 | 8.76 | 88.22 90.01 | 120,000 NA | NA | NA | 200 NA | NA | NA NA |
| | 4/1/1996 12/1/1996 | 98.77 98.77 | 8.76 12.04 | 90.01 86.73 | NA NA | NA NA | NA NA | NA NA | NA NA | NA NA |
| | | | 12.04 | | NA NA | NA NA | NA NA | NA NA | NA NA | NA NA |
| | 4/1/1997 | 98.77 | _ | 87.01 | | | | | | |
| | 12/1/1997 | 98.77 | 9.30 | 89.47 | 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-6 cont. | 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 |
| | 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 4/7/2006 | 40.92 40.92 | 7.86 6.93 | 33.06 33.99 | 13,000 18,200 | 260 650 | 79.0 151 | 680 918 | 750 715 | <4.2 <5.5 |

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

| 1/ 4/ 12 4/ 12/ 6/3 9/2 12/ 3/ 6/ 8/2 11 2/ 5/3 8/ 11 3/ 5/2 8/ 11/ 2/2 2/2 | 0/2/1995 1/3/1996 4/3/1996 2/9/1996 //10/1997 2/30/1997 //30/1998 //29/1998 2/16/1999 //10/1999 //23/1999 1/9/1999 2/7/2000 //3/1/2000 1/2/2000 | 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 | 12.95 9.57 7.75 10.97 12.95 8.65 NM 13.09 10.52 7.00 10.70 12.80 13.25 9.50 10.52 12.63 | 84.88 88.26 90.08 86.86 84.88 89.18 NM 84.74 87.31 90.83 87.13 85.03 84.58 88.33 87.31 | NA 3,300 1,900 NA NA 1,400 620 1,800 990 300 320 570 290 80 494,9 | 10 9 2 NA NA 130 4 1 5 3 3 5 <5 | 12 12 3 NA NA 98 <5 1 10 1 7 10 9 | 17 17 5 NA NA 75 9 1 5 1 4 ND <5 | NA 45 7 NA NA 200 <10 2 20 1 3 ND <5 <5 <5 | 3,300 NA NA NA NA NA NA 68 160 62 26 ND 12 23 |
|--|---|--|--|--|---|---|---|--|--|--|
| 4/ 12 4/' 12/ 6/5 9/2 12/ 3/' 6/' 8/2 11 2/ 5/5 8/ 11 3/4 5/2 8/ 11/ 2/2 | 4/3/1996 2/9/1996 7/10/1997 2/30/1997 7/30/1998 7/29/1998 2/16/1999 7/10/1999 7/23/1999 1/9/1999 2/7/2000 7/31/2000 8/9/2000 | 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 | 7.75 10.97 12.95 8.65 NM 13.09 10.52 7.00 10.70 12.80 13.25 9.50 10.52 | 90.08 86.86 84.88 89.18 NM 84.74 87.31 90.83 87.13 85.03 84.58 88.33 | 1,900 NA NA 1,400 620 1,800 990 300 320 570 290 | 2 NA NA 130 4 1 5 3 3 5 <5 <5 | 3 NA NA 98 <5 1 10 1 7 10 9 | 5 NA NA 75 9 1 5 1 4 ND <5 | 7 NA NA 200 <10 2 20 1 3 ND <5 | NA NA NA NA NA 68 160 62 26 ND 12 |
| 12 4/1 12/2 6/3 9/2 12/2 3/1 6/1 8/2 11 2/ 5/3 8/ 11 3/1 5/2 8/ 11/ 2/2 | 2/9/1996 1/10/1997 2/30/1997 1/30/1998 1/29/1998 2/16/1998 1/10/1999 1/23/1999 1/9/1999 2/7/2000 1/31/2000 8/9/2000 | 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 | 10.97 12.95 8.65 NM 13.09 10.52 7.00 10.70 12.80 13.25 9.50 10.52 | 86.86 84.88 89.18 NM 84.74 87.31 90.83 87.13 85.03 84.58 88.33 | NA NA 1,400 620 1,800 990 300 320 570 290 | NA NA 130 4 1 5 3 3 5 <5 <5 | NA NA 98 <5 1 10 1 7 10 9 | NA NA 75 9 1 5 1 4 ND <5 | NA NA 200 <10 2 20 1 3 ND <5 | NA NA NA NA 68 160 62 26 ND 12 |
| 4/° 12/ 6/° 6/° 9/2 12/ 3/° 6/° 8/2 11 2/ 5/° 8/ 11 3/° 5/2 8/ 11/ 2/2 | 7/10/1997 2/30/1997 7/30/1998 7/29/1998 2/16/1998 7/16/1999 7/10/1999 7/23/1999 1/9/1999 2/7/2000 7/31/2000 8/9/2000 | 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 | 12.95 8.65 NM 13.09 10.52 7.00 10.70 12.80 13.25 9.50 10.52 | 84.88 89.18 NM 84.74 87.31 90.83 87.13 85.03 84.58 88.33 | NA 1,400 620 1,800 990 300 320 570 290 80 | NA 130 4 1 5 3 3 5 <5 <5 | NA 98 <5 1 10 1 7 10 9 | NA 75 9 1 5 1 4 ND <5 | NA 200 <10 2 20 1 3 ND <5 | NA NA NA 68 160 62 26 ND 12 |
| 12/ 6/3 9/2 12/ 3/ ¹ 6/ ¹ 8/2 11 2/ 5/3 8/ 11 3/ ¹ 5/2 8/ 11/ 2/2 | 2/30/1997 3/30/1998 3/29/1998 2/16/1998 3/16/1999 3/10/1999 3/23/1999 1/9/1999 2/7/2000 3/31/2000 8/9/2000 | 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 | 8.65 NM 13.09 10.52 7.00 10.70 12.80 13.25 9.50 10.52 | 89.18 NM 84.74 87.31 90.83 87.13 85.03 84.58 88.33 | 1,400 620 1,800 990 300 320 570 290 80 | 130 4 1 5 3 3 5 <5 | 98 <5 1 10 1 7 10 9 | 75 9 1 5 1 4 ND <5 | 200 <10 2 20 1 3 ND <5 | NA NA 68 160 62 26 ND 12 |
| 6/3 9/2 12/ 3/* 6/* 8/2 11 2/ 5/3 8/ 11 3/* 5/2 8/ 11/ 2/2 | 3/30/1998 3/29/1998 2/16/1998 3/16/1999 3/10/1999 3/23/1999 1/9/1999 2/7/2000 3/31/2000 8/9/2000 | 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 | NM 13.09 10.52 7.00 10.70 12.80 13.25 9.50 10.52 | NM 84.74 87.31 90.83 87.13 85.03 84.58 88.33 | 620 1,800 990 300 320 570 290 | 4 1 5 3 3 5 <5 <5 | <5 1 10 1 7 10 9 | 9 1 5 1 4 ND <5 | <10 2 20 1 3 ND <5 | NA 68 160 62 26 ND 12 |
| 9/2 12/ 3/ 6/ 8/2 11 2/ 5/3 8/ 11 3/ 5/2 8/ 11/ 2/2 | 0/29/1998 0/29/1998 0/16/1999 0/10/1999 0/23/1999 1/9/1999 1/9/1999 1/9/1990 1/9/1900 0/31/2000 0/39/2000 | 97.83 97.83 97.83 97.83 97.83 97.83 97.83 97.83 | 13.09 10.52 7.00 10.70 12.80 13.25 9.50 10.52 | 84.74 87.31 90.83 87.13 85.03 84.58 88.33 | 1,800 990 300 320 570 290 | 1 5 3 3 5 <5 | 1 10 1 7 10 9 | 1 5 1 4 ND <5 | 2 20 1 3 ND <5 | 68 160 62 26 ND 12 |
| 12/ 3/* 6/* 8/2 111 2/ 5/3 8/ 11 3/* 5/2 8/ 11/ 2/2 | 2/16/1998 3/16/1999 3/10/1999 3/23/1999 1/9/1999 2/7/2000 3/31/2000 8/9/2000 | 97.83 97.83 97.83 97.83 97.83 97.83 97.83 | 10.52 7.00 10.70 12.80 13.25 9.50 10.52 | 87.31 90.83 87.13 85.03 84.58 88.33 | 990 300 320 570 290 | 5 3 3 5 <5 | 10 1 7 10 9 | 1 4 ND <5 | 20 1 3 ND <5 | 160 62 26 ND 12 |
| 3/7 6/7 8/2 111 2/ 5/3 8/ 111 3/7 5/2 8/ 11/ 2/2 | s/16/1999 s/10/1999 s/23/1999 1/9/1999 2/7/2000 s/31/2000 8/9/2000 | 97.83 97.83 97.83 97.83 97.83 97.83 | 7.00 10.70 12.80 13.25 9.50 10.52 | 90.83 87.13 85.03 84.58 88.33 | 300 320 570 290 80 | 3 3 5 <5 <5 | 1 7 10 9 | 1 4 ND <5 | 1 3 ND <5 | 62 26 ND 12 |
| 6/ ² 8/2 11 2/ 5/3 8/ 11 3/ ² 5/2 8/ 11/ 2/2 | 3/10/1999 3/23/1999 1/9/1999 2/7/2000 3/31/2000 8/9/2000 | 97.83 97.83 97.83 97.83 97.83 | 10.70 12.80 13.25 9.50 10.52 | 87.13 85.03 84.58 88.33 | 320 570 290 80 | 3 5 <5 <5 | 7 10 9 | 4 ND <5 | 3 ND <5 | 26 ND 12 |
| 8/2 111 2/ 5/3 8/ 111 3/1 5/2 8/ 11/ 2/2 | 5/23/1999 1/9/1999 2/7/2000 5/31/2000 8/9/2000 | 97.83 97.83 97.83 97.83 | 12.80 13.25 9.50 10.52 | 85.03 84.58 88.33 | 570 290 80 | 5 <5 <5 | 10 9 | ND <5 | ND <5 | ND 12 |
| 11 2/ 5/3 8/ 11 3/1 5/2 8/ 11/ 2/2 | 1/9/1999 2/7/2000 5/31/2000 8/9/2000 | 97.83 97.83 97.83 | 13.25 9.50 10.52 | 84.58 88.33 | 290 80 | <5 <5 | 9 | <5 | <5 | 12 |
| 2/ 5/3 8/ 11 3/1 5/2 8/ 11/ 2/2 | 2/7/2000 5/31/2000 8/9/2000 | 97.83 97.83 | 9.50 10.52 | 88.33 | 80 | <5 | | | | |
| 5/3 8/ 11 3/1 5/2 8/ 11/ 2/2 | 5/31/2000 8/9/2000 | 97.83 | 10.52 | | | | <5 | <5 | <5 | 23 |
| 8/ 11 3/1 5/2 8/ 11/ 2/2 | 8/9/2000 | | | 87.31 | 404.0 | | | | | |
| 11 3/1 5/2 8/ 11/ 2/2 | | 97.83 | 40.00 | | 494.9 | 4.9 | 22 | 4.2 | 21.9 | 29 |
| 3/ ² 5/2 8/ 11/ 2/2 | 1/2/2000 | | 12.63 | 85.20 | 80 | <5 | <5 | <5 | <5 | 11.7 |
| 5/2 8/ 11/ 2/2 | | 97.83 | 11.95 | 85.88 | 50 | ND | ND | ND | ND | 9.1 |
| 8/ 11/ 2/2 | /13/2001 | 97.83 | 8.04 | 89.79 | 82 | 0.97 | ND | 0.76 | ND | 78 |
| 11/ 2/2 | /22/2001 | 97.83 | 10.60 | 87.23 | 370 | ND | 9.1 | 1.3 | 2.3 | 28 |
| 2/2 | 8/8/2001 | 97.83 | 13.02 | 84.81 | 610 | 3.7 | 3 | 6.2 | 18.9 | 10 |
| · | 1/19/2001 | 97.83 | 12.83 | 85.00 | 1,700 | 24 | 220 | 41 | 205 | 69 |
| 5/ | /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 |
| | //30/2002 | 39.94 | 12.15 | 27.79 | 270 | 5.3 | 1.3 C | 2.3 | 8.1 | 46 |
| | 0/20/2002 | 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 |
| | 0/22/2003 /22/2004 | 39.94 39.94 | 13.10 9.23 | 26.84 30.71 | 460 380 | <0.5 <0.5 | <0.5 1.4 C | <0.5 <0.5 | <0.5 <0.5 | 5.0 <5.0 |
| | /22/2004 4/1/2004 | 39.94 39.94 | 9.23 10.40 | 30.71 29.54 | 380 480 | <0.5 <0.5 | 1.4 C 2.5 C | <0.5 <0.5 | <0.5 0.90 | <5.0 0.62 |
| | 4/1/2004 3/20/2004 | 39.94 39.94 | 10.40 | 29.54 27.02 | 480 410 | <0.5 <0.5 | 2.5 C .81 C | <0.5 <0.5 | <0.5 | 1.70 |
| 12 | | 39.94 | 12.92 | 21.02 | 96 | <0.5 | .010 | <0.5 | <0.5 | <0.5 |

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

| Monitoring Well MW-7 cont. | Date 3/16/2005 5/16/2005 7/14/2005 10/13/2005 1/3/2006 4/7/2006 | Top Of Casing Elevation ¹ (feet) 39.94 39.94 39.94 39.94 39.94 39.94 | Depth to Groundwater (feet) 7.44 8.53 10.61 12.80 6.39 8.10 | Groundwater Elevation (feet) 32.50 31.41 29.33 27.14 33.55 31.84 | TPH-g (μg/L) 209 262 753 1,690 250 Υ 3,440 | Benzene (μg/L) <0.5 4.85 20.6 5.3 0.80 0.64 | Toluene (μg/L) <0.5 2.19 11.9 2.71 <0.5 <2.0 | Ethyl- Benzene (μg/L) <0.5 2.36 16.8 12.6 0.61 17 | Total Xylenes (μg/L) <1.0 4.24 33.23 54 <0.5 <1.0 | MtBE ² EPA 8260B (μg/L) 1.74 0.73 2.36 1.93 1.1 <0.5 |
|----------------------------------|--|--|---|--|---|--|---|---|---|---|
| MW-8 | 10/2/1995 | 97.25 | 12.86 | 84.39 | NA | NA | NA | NA | NA | NA |
| INI AA-O | 1/3/1996 | 97.25 | 9.79 | 84.39 87.46 | 94,000 | 310 | 250 | 180 | 480 | NA NA |
| | 4/3/1996 | 97.25 | 7.98 | 89.27 | 58,000 | 250 | 170 | 140 | 330 | NA NA |
| | 12/9/1996 | 97.25 | 11.13 | 86.12 | 27,000 | 88 | 43 | 44 | 80 | ND |
| | 4/10/1997 | 97.25 | 12.95 | 84.30 | 24,000 | 86 | 55 | 50 | 100 | ND |
| | 12/30/1997 | 97.25 | 8.95 | 88.30 | 28,000 | 6,000 | 1,600 | 2,100 | 4,700 | NA |
| | 6/30/1998 | 97.25 | NM | NM | 54,000 | 4,600 | 2,800 | 3,500 | 7,300 | NA |
| | 9/29/1998 | 97.25 | 13.02 | 84.23 | NA | NA | NA | NA | NA | NA |
| | 12/16/1998 | 97.25 | 10.75 | 86.50 | 61,000 | 6,300 | 1,700 | 2,200 | 4,400 | 1,300 |
| | 3/16/1999 | 97.25 | 7.58 | 89.67 | 22,000 | 1,800 | 470 | 2,000 | 2,000 | 820 |
| | 6/10/1999 | 97.25 | 10.80 | 86.45 | 39,500 | 3,610 | 1,635 | 2,175 | 5,913 | 988 |
| | 8/23/1999 | 97.25 | 12.75 | 84.50 | 58,000 | 5,379 | 2,438 | 3,001 | 6,960 | 639 |
| | 11/9/1999 | 97.25 | 13.65 | 83.60 | 10,500 | 92 | <5 | <5 | 3,414 | 769 |
| | 2/7/2000 | 97.25 | 10.85 | 86.40 | 44,200 | 1,080 | 617 | <5 | 4,160 | 240 |
| | 5/31/2000 | 97.25 | 11.15 | 86.10 | 25,940 | 940 | 130 | 1,600 | 3,960 | 75 |
| | 8/9/2000 | 97.25 | 12.87 | 84.38 | 22,000 | 632 | 5.38 | <5 | 2,686 | 37.3 |
| | 11/2/2000 | 97.25 | 12.55 | 84.70 | 3,000 | 278 | 350 | 209 | 980 | 21 |
| | 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 75 | 530 | 517 | 1,200 |
| | 10/20/2002 | 39.38 | 13.80 | 25.58 | 18,000 | 950 | 75 20 | 1,400 | 1,269 | 700 |
| | 1/3/2003 5/3/2003 | 39.38 39.38 | 9.48 9.48 | 29.90 29.90 | 8,100 | 300 380 | 29 33 C | 370 | 302 | 1,100 |
| | 5/3/2003 7/24/2003 | | | | 18,000 | 460 | | 1,000 910 | 516 | 540 |
| | 10/22/2003 | 39.38 39.38 | 11.92 13.09 | 27.46 26.29 | 12,000 16,000 | 830 | 54 C 87 | 2,000 | 435 675 | 890 280 |
| | 10/22/2003 | 33.30 | 13.08 | 20.23 | 10,000 | 030 | 01 | 2,000 | 0/0 | 200 |

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

| | ſ | 1 | | | | ı | 1 | 1 | ı | T . |
|------------|------------|-------------|-------------|-------------|--------|---------|---------|---------|---------|------------------|
| | | Top Of | | | | | | | | |
| | | Casing | Depth to | Groundwater | | | | Ethyl- | Total | MtBE 2 |
| Monitoring | | Elevation 1 | Groundwater | Elevation | TPH-g | Benzene | Toluene | Benzene | Xylenes | EPA 8260B |
| Well | Date | (feet) | (feet) | (feet) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | μg/L) | (μg/L) |
| MW-8 cont. | 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 |
| | | | | | | | | | | |
| 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 |

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

| | | Top Of | | | | | | | | |
|-------------|------------|-------------|-------------|-------------|--------|---------|---------|---------|---------|-------------------|
| | | Casing | Depth to | Groundwater | | | | Ethyl- | Total | MtBE ² |
| Monitoring | | Elevation 1 | Groundwater | Elevation | TPH-g | Benzene | Toluene | Benzene | Xylenes | EPA 8260B |
| Well | Date | (feet) | (feet) | (feet) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) |
| MW-10 cont. | 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 |
| | 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 |
| | | | | | | | | | | |
| 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

| 1 | 1 | | | | ı | 1 | | | | ı |
|----------------|------------|------------------------|---------------|-------------|----------|------------|-------------|-----------|----------|-------------------|
| | | Top Of | | | | | | | | |
| | | Casing | Depth to | Groundwater | | | | Ethyl- | Total | MtBE ² |
| Monitoring | | Elevation ¹ | Groundwater | Elevation | TPH-g | Benzene | Toluene | Benzene | Xylenes | EPA 8260B |
| Well | Date | (feet) | (feet) | (feet) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) |
| MW-11 cont. | 1/3/2003 | NS | 9.76 | NC | 700 | 32 | 5.7 | 25 | 14.10 | <2.0 |
| WIVV-II COIII. | 5/3/2003 | NS NS | 9.76 9.66 | NC NC | 280 | 17 | 1.5 C | 25 8 | 4.10 | <2.0 <2.0 |
| | 7/24/2003 | NS NS | 9.66 12.30 | NC NC | 340 | 17 19 C | 3.2 | 8 0.58 | 0.89 | <2.0 <2.0 |
| | 10/22/2003 | NS NS | 13.38 | NC NC | 210 | 5.0 C | 3.2 <0.5 | <0.56 | <0.5 | <2.0 <0.5 |
| | 1/22/2004 | NS NS | NM | NC NC | NA | NA | NA | NA | NA | NA |
| | 4/1/2004 | NS NS | NM | NC NC | NA NA | NA NA | NA NA | NA NA | NA NA | NA NA |
| | 8/20/2004 | NS NS | NM | NC NC | NA | NA NA | NA NA | NA NA | NA NA | NA NA |
| | 12/7/2004 | NS NS | 10.54 | NC NC | 486 | 24 | 3.0 | 18 | 4.00 | <0.5 |
| | 3/15/2005 | NS NS | NM | NC NC | NA | NA | NA | NA | NA | NA |
| | 5/16/2005 | NS NS | NM | NC NC | NA NA | NA NA | NA NA | NA NA | NA NA | NA NA |
| | 7/14/2005 | NS | NM | NC NC | NA | NA NA | NA | NA NA | NA NA | NA NA |
| | 10/13/2005 | NS | NM | NC | NA | 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 |
| | 0.200 | | | | J | 10.0 | 0.00 | 0.10 | 0.20 | 10.0 |
| 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 |
| | 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 |

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

| Monitoring Well MW-12 cont. | Date 3/15/2005 5/16/2005 7/14/2005 10/13/2006 | Top Of Casing Elevation ¹ (feet) 36.84 36.84 36.84 36.84 36.84 | Depth to Groundwater (feet) 8.49 9.07 10.43 12.08 7.89 | Groundwater Elevation (feet) 28.35 27.77 26.41 24.76 28.95 | TPH-g (μg/L) 1,890 1,080 1,580 1,560 480 Y | Benzene (μg/L) 4.25 <0.5 2.71 0.74 | Toluene (μg/L) <0.5 <0.5 <2.0 <2.0 <0.5 | Ethyl- Benzene (μg/L) 6.38 <0.5 3.33 <0.50 <0.50 | Total Xylenes (μg/L) <1.0 <1.0 <1.0 <1.0 <1.0 <5.0 | MtBE ² EPA 8260B (μg/L) 30.6 20.6 29.3 28.1 30 |
|-----------------------------------|--|---|---|---|--|---|---|--|--|---|
| | 4/6/2006 | 36.84 | 7.89 7.92 | 28.92 | 1,310 | <0.5 | <0.5 <2.0 | <0.5 < 0.5 | <0.5 <1.0 | 31.1 |
| | 47072000 | 00.04 | 1.02 | 20.02 | 1,010 | 10.0 | V2.0 | 40.0 | ~1.0 | 011 |
| 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 |
| | 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 | NA |
| | 1/3/2003 | 39.35 | 15.18 | 24.17 | NA | NA | NA | NA | NA | NA |
| | 5/3/2003 7/24/2003 | 39.35 39.35 | 16.20 16.45 | 23.15 | NA NA | NA NA | NA NA | NA NA | NA NA | NA NA |
| | 10/22/2003 | 39.35 39.35 | 16.53 | 22.90 22.82 | NA NA | NA NA | NA NA | NA NA | NA NA | NA NA |
| | 1/22/2004 | 39.35 | 13.74 | 25.61 | NA NA | NA NA | NA NA | NA NA | NA NA | NA NA |
| | 4/1/2004 | 39.35 | 16.30 | 23.05 | NA NA | NA NA | NA NA | NA NA | NA NA | NA NA |
| | 8/20/2004 | 39.35 | 16.05 | 23.30 | NA | NA NA | NA NA | 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 | 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 |

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

| | 1 | | | 1 | ı | | | | | I |
|------------|------------|-------------|-------------|-------------|----------|----------|----------|----------|---------|-------------------|
| | | Top Of | | | | | | | | |
| | | Casing | Depth to | Groundwater | | | | Ethyl- | Total | MtBE ² |
| Monitorina | | Elevation 1 | Groundwater | Elevation | TPH-q | Benzene | Toluene | Benzene | Xylenes | EPA 8260B |
| Well | Date | (feet) | (feet) | (feet) | (µg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) | (μg/L) |
| FDE | 5/31/2000 | 97.90 | 13.22 | 84.68 | NA | NA | 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 | NA NA | NA |
| | 3/13/2001 | 97.90 | 9.14 | 88.76 | NA NA | NA NA | NA NA | 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. | NA NA |
| | 11/19/2001 | 97.90 | 13.92 | 83.98 | NA | NA | NA | NA | NA | NA |
| | 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 |
| | | | | | | | | | | |
| 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 |

Notes:

- 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.
- 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.

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

| | | Meter | Lab Result | s For Effluer | nt ¹ and GAC | C-1 | | |
|-----------|------------|-----------|-------------------|---------------|-------------------------|--------------|------------------|----------------|
| | | Reading | | tions in ug/L |) | | | |
| Month | Date | (gallons) | MtBE ² | TPH-g | Benzene | Toluene | Ethylbenzene | Total Xylenes |
| | | | | 2006 | | | | |
| April | 4/10/2006 | 3,236,770 | Carbo | on Change-c | out of 2000 I | b vessel ar | d 55 gallon po | lishing vessel |
| | | | | | | | | |
| March | 3/10/2006 | 3,220,570 | <0.5 | <50 | <0.5 | <2.0 | <0.5 | <1.0 |
| | | | <0.5 | <50 | <0.5 | <2.0 | <0.5 | <1.0 |
| | | | | | | | | |
| February | 2/10/2006 | 3,186,590 | <0.5 | <50 | <0.5 | <2.0 | <0.5 | <1.0 |
| | | | <0.5 | <50 | <0.5 | <2.0 | <0.5 | <1.0 |
| ĺ. | | | | | | | | |
| January | 1/4/2006 | 3,122,610 | < 0.5 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | | | <0.5 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| - | 40/0/0005 | 0.004.750 | 0.5 | 2005 | 0.5 | 0.0 | 0.5 | 4.0 |
| 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 |
| | | | <0.5 | <50 | <0.5 | <2.0 | <0.5 | <1.0 |
| November | 11/14/2005 | 3,072,540 | <0.5 | <50 | <0.5 | <2.0 | <0.5 | <1.0 |
| November | 11/14/2005 | 3,072,340 | <0.5 | <50 <50 | <0.5 | <2.0 | <0.5 | <1.0 |
| | | | <0.5 | \\ \ | \(\tau_0.5\) | <2.0 | \(\cdot\) | V1.0 |
| October | 10/17/2005 | 3,065,260 | <0.5 | <50 | <0.5 | <2.0 | <0.5 | <1.0 |
| Colobol | 10/11/2000 | 0,000,200 | <0.5 | <50 | <0.5 | <2.0 | <0.5 | <1.0 |
| | | | | | | | | |
| Cantambar | 9/29/2005 | 2.000.040 | Repla | aced existing | g 2000 lb ca | rbon vesse | I with newer 20 | 000 lb vessel, |
| September | 9/29/2005 | 3,060,640 | | | | | lishing vessel | • |
| | | | | | | | | |
| | 9/12/2005 | 3,055,676 | <0.5 | <50 | <0.5 | <2.0 | <0.5 | <1.0 |
| | | | < 0.5 | <50 | <0.5 | <2.0 | <0.5 | <1.0 |
| | | | | | | | | |
| August | 8/8/2005 | 3,042,586 | <0.5 | <200 | <0.5 | <2.0 | <0.5 | <1.0 |
| | | | 0.51 | <200 | <0.5 | <2.0 | <0.5 | <1.0 |
| July | 7/7/2005 | 3,026,010 | <0.5 | <200 | <0.5 | <2.0 | <0.5 | <1.0 |
| J = 1, | 1,1,12000 | 3,523,576 | <0.5 | <200 | <0.5 | <2.0 | <0.5 | <1.0 |

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

| | | Meter | Lab Result | s For Effluer | nt ¹ and GAC | C-1 | | |
|----------|------------|------------|-------------------|------------------|-------------------------|------------------|-----------------------|---------------|
| | | Reading | | tions in ug/L |) | | | |
| Month | Date | (gallons) | MtBE ² | TPH-g | Benzene | Toluene | Ethylbenzene | Total Xylenes |
| | | | | 2005 | | | | |
| June | 6/9/2005 | 3,000,386 | <0.5 | <200 | <0.5 | <2.0 | <0.5 | <1.0 |
| | | | 0.61 | <200 | <0.5 | <2.0 | <0.5 | <1.0 |
| Мау | 5/9/2005 | 2,971,430 | <0.5 | <200 | <0.5 | <0.5 | <0.5 | <1.0 |
| | | | <0.5 | <200 | <0.5 | <0.5 | <0.5 | <1.0 |
| | 5/4/2005 | 2,964,270 | Carbo | l on Change-c | l out of 2000 l | l b vessel ar | l nd 55 gallon pol | ishing vessel |
| | | | | totalize I | r changed a I | t meter rea | ding of 2,189,2 | 70 |
| April | 4/4/2005 | 2,904,500 | <0.5 | <200 | <0.5 | <0.5 | <0.5 | <1.0 |
| | | | <0.5 | <200 | <0.5 | <0.5 | <0.5 | <1.0 |
| March | 3/21/2005 | 2,874,170 | <0.5 | <200 | <0.5 | <0.5 | <0.5 | <1.0 |
| Maron | 0/21/2000 | 2,07 1,170 | <0.5 | <200 | <0.5 | <0.5 | <0.5 | <1.0 |
| February | 2/14/2005 | 2,828,000 | | | 55 Gallon | Drum Chai | nged Out | |
| | 0/7/0007 | | | | | | | |
| | 2/7/2005 | 2,819,000 | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 |
| | | | <5.0 | <50 | <5.0 | <5.0 | <5.0 | <5.0 |
| January | 1/19/2005 | 2,775,000 | Carbo | on Change-d | out of 2000 I | b vessel ar | nd 55 gallon pol | ishing vessel |
| | 1/3/2005 | 2,730,480 | 3.6 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | | | 3.8 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | | | | 2004 | | | | |
| December | 12/6/2004 | 2,667,620 | <0.5 | <50 | <0.5 | <0.5 | <0.5 | <1.0 |
| | | | <0.5 | <50 | <0.5 | <0.5 | <0.5 | <1.0 |
| November | 11/8/2004 | 2,631,600 | <0.5 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | | | <0.5 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| October | 10/13/2004 | 2,606,420 | < 2.0 | < 50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | | | <2.0 | <50 | <0.5 | < 0.5 | <0.5 | <0.5 |

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

| | | Meter | Lab Result | s For Efflue | nt ¹ and GAC | D-1 | | |
|---------------|------------|-------------|-------------------|-----------------|-------------------------|------------------|-----------------------|----------------|
| | | Reading | | tions in ug/L | .) | | | |
| Month | Date | (gallons) | MtBE ² | TPH-g | Benzene | Toluene | Ethylbenzene | Total Xylenes |
| | | | | 2004 | | | | |
| September | 9/13/2004 | 2,594,390 | < 2.0 | < 50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | | | < 2.0 | < 50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | | | | | | | | |
| August | 8/25/2004 | 2,586,010 | | | 55 Gallon | Drum Chai | nged Out | |
| | 8/9/2004 | 2,581,250 | < 2.0 | < 50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | | | < 2.0 | < 50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 7/10/0004 | 0.500.000 | | | 0.5 | 0.5 | 0.5 | 2.5 |
| July | 7/13/2004 | 2,568,830 | < 2.0 | < 50 | <0.5 | < 0.5 | <0.5 | <0.5 |
| | | | < 2.0 | < 50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 7/21/2004 | 2,564,710 | | | 55 Gallon | Drum Chai | nged Out | |
| | | | | | | | | |
| June | 6/14/2004 | 2,549,470 | < 2.0 | < 50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | | | < 2.0 | < 50 | <0.5 | <0.5 | <0.5 | <0.5 |
| May | 5/26/2004 | 2,530,000 | Carbo | l on Change- | out of 2000 l | l b vessel ar | l ld 55 gallon pol | lishing vessel |
| | 5/10/2004 | 2,488,760 | | Semi Ann | ual Treatme | nt System | Meeting With E | bmud |
| | 5/17/2004 | 2,518,910 | Re | eplaced 55- | gallon polish | ing vessel | and restarted th | ne system |
| | 5/5/2004 | 2,500,650 | | Carbon Ch | anged Out a | nd 55 Gallo | on Drum Chang | ged Out |
| | 5/3/2004 | 2,497,350 | < 2.0 | < 50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | | _,, | < 2.0 | < 50 | <0.5 | <0.5 | <0.5 | <0.5 |
| April | 4/15/2004 | 2,436,190 | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| , , , , , , , | 1, 13,2334 | 2, 100, 100 | <5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |

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

| | | Meter | Lab Result | s For Effluer | nt 1 and GAC | C-1 | | |
|-----------|------------|-----------|-------------------|---------------|----------------|----------------|-----------------|----------------|
| | | Reading | | tions in ug/L |) | | | |
| Month | Date | (gallons) | MtBE ² | TPH-g | Benzene | Toluene | Ethylbenzene | Total Xylenes |
| | | | | 2004 | | | | |
| March | 3/17/2004 | 2,376,200 | Carbo | on Change-o | out of 2000 I | b vessel an | id 55 gallon po | lishing 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 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | <5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | 1/13/2004 | 2,116,720 | < 5.0 < 5.0 | < 50 < 50 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 < 5.0 |
| | _ | | | 2003 | | | | |
| December | 12/8/2003 | 2,092,330 | < 5.0 <5.0 | < 50 < 50 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 < 5.0 |
| November | 11/17/2003 | 2,087,670 | < 5.0 <5.0 | < 50 < 50 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 < 5.0 |
| | 11/3/2003 | 2,079,460 | < 5.0 <5.0 | < 50 < 50 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 < 5.0 |
| October | 10/13/2003 | 2,073,060 | 5.3 <5.0 | < 50 < 50 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 < 5.0 |
| | 10/1/2003 | 2,072,610 | | | | | d 55 gallon po | |
| | | | | | | | | |
| September | 9/15/2003 | 2,056,910 | <5.0 6 | < 50 < 50 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 < 5.0 |
| | 9/2/2003 | 2,040,040 | <5.0 <5.0 | < 50 < 50 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 < 5.0 |

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

| | | Meter | Lab Result | s For Effluer | nt 1 and GAC | C-1 | | |
|-----------|-----------|-----------|-------------------|-------------------|--------------------|------------------|-----------------|----------------|
| | | Reading | | tions in ug/L |) | | | |
| Month | Date | (gallons) | MtBE ² | TPH-g | Benzene | Toluene | Ethylbenzene | Total Xylenes |
| | | | - | 2003 | | | | |
| August | 8/19/2003 | 2,021,040 | <5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | | | | | | |
| July | 7/21/2003 | 1,995,240 | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | 40 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | | | | | | |
| | 7/9/2003 | 1,990,260 | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | 36 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | - | • | | | | | | |
| June | 6/18/2003 | 1,978,560 | Carbo | on Change-o | out of 2000 I | b vessel ar | id 55 gallon po | lishing vessel |
| | | | | T | 1 | 1 | 1 | |
| | 6/10/2003 | 1,972,780 | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | | | | | | |
| May | 5/21/2003 | 1,951,830 | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | | | | | | |
| | 5/1/2003 | 1,918,270 | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | | | | | | |
| April | 4/11/2003 | 1,882,440 | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | 0/40/2025 | 4.040.400 | | | | | | F 0 |
| March | 3/19/2003 | 1,846,490 | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| Fabruari. | 0/05/0000 | 4.004.000 | | | a a aliabio o | | | |
| February | 2/25/2003 | 1,804,960 | repla | ced 55-gallo I | n polisning ' I | vessei with I | new 55 gallon | cardon drum |
| | 2/40/2002 | 1 701 700 | . 5.0 | . 50 | . 5.0 | . F. O | . 5.0 | . 5.0 |
| | 2/19/2003 | 1,791,720 | < 5.0 < 5.0 | < 50 < 50 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 < 5.0 | < 5.0 |
| | | | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |

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

| | | Meter | | s For Effluer | | C-1 | | |
|-----------|-----------------------|-----------|-------------------|---------------|---------------|---------------|--------------------|----------------|
| | | Reading | | tions in ug/L |) | | | |
| Month | Date | (gallons) | MtBE ² | TPH-g | Benzene | Toluene | Ethylbenzene | Total Xylenes |
| | | | | 2003 | | | | |
| January | 1/27/2003 | 1,733,500 | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | | | | | | |
| | 1/2/2003 | 1,675,600 | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| _ | | | 1 | 2002 | | | | |
| December | 12/10/2002 | 1,672,870 | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | 4.4/00/0000 | 4 000 050 | | | | | | |
| November | 11/22/2002 | 1,668,650 | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | | | < 5.0 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | 11/13/2002 | 1,664,780 | replace | d gasket on | top of 2000 |) lb GAC ve | essel, slight leal | k was detected |
| | 11/7/2002 | 1,663,880 | Carbo | on Change-c | out of 2000 I | b vessel ar | nd 55 gallon pol | ishing vessel |
| October | 10/16/02 ³ | 1,661,590 | < 310 | 2,000 Y Z | < 310 | < 310 | < 310 | < 310 |
| 00.000 | 10/10/02 | 1,001,000 | < 0.5 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| | | | | | | | | |
| September | 9/19/2002 | 1,653,600 | < 5 | < 50 | < 5 | < 5 | < 5 | < 5 |
| | | | < 5 | < 50 | < 5 | < 5 | < 5 | < 5 |
| | 1 | | | | | | | |
| August | 8/23/2002 | 1,641,650 | 1 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| | | 1 | < 0.5 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| le de c | 7/00/0000 | 4 622 024 | -E O | . 50 | -E O | .E O | -F O | -F O |
| 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 |
| | 1 | | < 5.0 | < 50 | < 0.0 | < 5.0 | < 5.0 | < 0.0 |

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

| | | Meter | | s For Effluer | | C-1 | | |
|-------------|---|-----------|-------------------|---------------|--------------|-------------|-----------------|---------------|
| | | Reading | | tions in ug/L |) | | | |
| Month | Date | (gallons) | MtBE ² | TPH-g | Benzene | Toluene | Ethylbenzene | Total Xylenes |
| | | | | 2002 | | | | |
| June | 6/24/2002 | 1,610,050 | 1.7 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| | | | < 0.5 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| May | 5/30/2002 | 1,571,630 | < 0.5 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| lviay | 0,00,2002 | 1,071,000 | < 0.5 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| | 5/20/2002 1,548,000 removed newly installed compressor, installed another con | | | | | | | compressor |
| | 5/8/2002 | 1,538,850 | | • | installed | new comp | ressor | • |
| | 5/1/2002 | 1,529,650 | | ir | nstalled new | 55 gallon (| GAC Vessel | |
| | | | | | | | | |
| April | 4/24/2002 | 1,528,740 | < 0.5 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| | 4/4/2002 | 4 470 500 | < 0.5 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| | 4/1/2002 | 1,478,500 | | repair | ed valve pla | te assembl | y on compresso |)î |
| March | 3/25/2002 | 1,478,420 | | performe | ed carbon ch | ange-out o | n treatment sys | stem |
| | 3/18/2002 | NR | | pononno | | iston on co | · | |
| | 3/14/2002 | 1,478,330 | | C | | | up pressure | |
| | | | | | | | | |
| February | 2/27/2002 | 1,449,830 | < 0.5 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| | | | 1.1 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| January | 1/22/2002 | 1,381,370 | < 2.0 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| January | 1/22/2002 | 1,361,370 | < 2.0 | < 50 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| | | | 12.0 | 2001 | 10.0 | 1 0.0 | 7 0.0 | 4 0.0 |
| 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 | ND | ND | ND | ND | ND |
| INOVEILIBEI | 11/2/2001 | 1,212,000 | 0.6 | ND | ND | ND | ND | ND |

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

| | | Meter | Lab Result | s For Efflue | nt 1 and GAC | C-1 | | |
|-----------|-----------|-----------|-------------------|---------------|--------------|----------|-----------------|---------------|
| | | Reading | | tions in ug/L |) | | | |
| Month | Date | (gallons) | MtBE ² | TPH-g | Benzene | Toluene | Ethylbenzene | Total Xylenes |
| | | | | 2001 | | | | |
| 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 |
| ragaot | 0/22/2001 | 1,240,100 | ND | ND | ND | ND | ND | ND |
| | | | | | | | | |
| July | 7/26/2001 | 1,227,270 | ND | ND | ND | ND | ND | ND |
| | _,,,,, | | ND | ND | ND | ND | ND | ND |
| | 7/11/2001 | 1,226,730 | NA NA | NA NA | NA NA | NA NA | NA NA | NA NA |
| | | | INA | INA | INA | INA | INA | INA |
| June | 6/29/2001 | 1,224,600 | NA | NA | NA | NA | NA | NA |
| | | | ND | ND | ND | ND | ND | ND |
| | 6/26/2001 | NR | | | installed | new comp | ressor | |
| | 6/16/2001 | 1,216,580 | NA | NA | NA | NA | NA | NA |
| | | | NA | NA | NA | NA | NA | NA |
| | | | | | | | aired compresso | |
| | 6/7/2001 | 1,216,580 | NA | NA | NA | NA | NA | NA |
| | | | NA | NA | NA | NA | NA | NA |
| May | 5/30/2001 | 1,205,198 | NA | NA | NA | NA | NA | NA |
| | 0.00,200 | ,, | NA | NA | NA | NA | NA | NA |
| | 5/23/2001 | 1,194,390 | NA | NA | NA | NA | NA | NA |
| | | | NA | NA | NA | NA | NA | NA |
| | 5/17/2001 | 1,182,360 | ND | ND | ND | ND | ND | ND |
| | | | ND | ND | ND | ND | ND | ND |
| | 5/10/2001 | 1,166,850 | NA | NA | NA | NA | NA | NA |
| | | | NA | NA | NA | NA | NA | NA |
| | 5/5/2001 | 1,151,600 | NA | NA | NA | NA | NA | NA |
| | | | NA | NA | NA | NA | NA | NA |

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

| | Meter | Lab Result | s For Effluer | nt ¹ and GAC | C-1 | | | |
|---------------------|-----------|-------------------|---------------|-------------------------|-------------------------|----------------------------|-------------------------------|--|
| | Reading | | tions in ug/L |) | | | | |
| | (gallons) | MtBE ² | TPH-g | Benzene | Toluene | Ethylbenzene | Total Xylenes | |
| | | | 2001 | | | | | |
| 4/28/2001 | 1,135,690 | NA | NA | NA | NA | NA | NA | |
| | | NA | NA | NA | NA | NA | NA | |
| 4/21/2001 | 1,113,570 | NA | NA | NA | NA | NA | NA | |
| | | NA | NA | NA | NA | NA | NA | |
| 4/11/2001 | 1,082,700 | NA | ND | ND | ND | ND | ND | |
| | | ND | ND | ND | ND | ND | ND | |
| 4/6/2001 | 1,065,540 | NA | NA | NA | NA | NA | NA | |
| | | NA | NA | NA | NA | NA | NA | |
| | • | • | 1 | ı | ı | | | |
| 3/29/2001 | 1,036,330 | NA | NA | NA | NA | NA | NA | |
| | | NA NA NA NA NA | | | | | | |
| | | | • | | n was re-sta | | | |
| 3/21/2001 1,036,070 | 1,036,070 | NA | NA | NA | NA | NA | NA | |
| | | NA | NA | NA | NA | NA | NA | |
| | | | • | | ced on com | • | | |
| 3/17/2001 | 1,035,100 | NA | NA | NA | NA | NA | NA | |
| | | NA | NA | NA | NA | NA | NA | |
| 3/13/2001 | 1,032,500 | ND | ND | ND | ND | ND | ND | |
| | | NA | NA | NA | NA | NA | NA | |
| 3/2/2001 | 996,520 | NA | NA | NA | NA | NA | NA | |
| | | NA | NA | NA | NA | NA | NA | |
| 3/1/2002 | NR | | syste | em re-starte | d after carb | oon change-out | | |
| 2/28/2002 | NR | Carbon Ch | ange-out wa | as performed | d on GAC-1 | , washed algae | e from holding tank | |
| | | | clea | aned 2000 lb | GAC, re-s | started system | | |
| 2/10/2001 | 975,490 | | System | shut down f | or mainten | ance and clean | ing. | |
| 1/29/2001 | 957,880 | ND ND | ND ND | ND ND | ND | ND ND | ND ND | |
| | | | | 9/2001 957,880 ND ND | 9/2001 957,880 ND ND ND | 0/2001 957,880 ND ND ND ND | 0/2001 957,880 ND ND ND ND ND | |

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

| | | Meter | Lab Result | s For Effluer | nt 1 and GAC | C-1 | | |
|----------|------------|-----------|-------------------|---------------|--------------|---------|-----------------|---------------|
| | | Reading | | ions in ug/L |) | | | |
| Month | Date | (gallons) | MtBE ² | TPH-g | Benzene | Toluene | Ethylbenzene | Total Xylenes |
| | | | | 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 |
| November | 11/24/2000 | IVIX | ND | ND | ND | ND | ND | ND |
| | 11/1/2000 | 842,000 | ND | ND | ND | ND | ND | ND |
| | 11/1/2000 | 0.2,000 | 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 |
| ruguet | 8/24/2000 | , | | | | | ading of 775,00 | |
| | | | | | | | | |
| 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 |
| 1 | 0/00/0000 | 700.000 | ND | ND | ND | ND | ND | ND |
| June | 6/29/2000 | , | ND | ND | ND | ND | ND | ND |
| | 6/21/2000 | 682,220 | ND | ND | ND | ND | ND | ND |
| | 6/16/2000 | 669,720 | ND | ND | ND | ND | ND | ND |
| | 6/10/2000 | 651,200 | ND | ND | ND | ND | ND | ND |
| May | 5/31/2000 | 629,000 | ND | ND | ND | ND | ND | ND |
| ĺ | 5/23/2000 | 603,700 | ND | ND | ND | ND | ND | ND |
| | 5/18/2000 | 570,000 | ND | ND | ND | ND | ND | ND |
| | 5/10/2000 | 530,400 | ND | ND | ND | ND | ND | ND |

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

| | | Meter | Lab Result | s For Effluer | nt 1 and GAC | C-1 | | |
|----------|------------|-----------|-------------------|---------------|-----------------|--------------|-----------------|---------------|
| | | Reading | | tions in ug/L |) | | | |
| Month | Date | (gallons) | MtBE ² | TPH-g | Benzene | Toluene | Ethylbenzene | Total Xylenes |
| | | , | | 2000 | <u>'</u> | | | |
| April | 4/30/2000 | 488,300 | ND | ND | ND | ND | ND | ND |
| | 4/18/2000 | 485,300 | ND | ND | ND | ND | ND | 0.51 |
| | | | С | ompressor s | own until April | 29, 2000 | | |
| | 4/10/2000 | 440,200 | ND | ND | ND | ND | ND | ND |
| | 4/4/2000 | 390,100 | ND | ND | ND | ND | ND | ND |
| | 4/2/2000 | NR | | perfo | ormed a carl | on change | out on GAC-1 | |
| | | | | | | | | |
| March | 3/31/2000 | NR | repla | ced GAC-2 | with a speci | al GAC des | signed for rem | oval 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 | tra | ansfer overh | eated, repai | red pump, | restarted syste | em 3/6/00 |
| | | | | | | | | |
| February | 2/25/2000 | 274,000 | ND | ND | ND | ND | ND | ND |
| | 2/18/2000 | 233,000 | ND | ND | ND | ND | ND | ND |
| | 2/11/2000 | 190,000 | ND | ND | ND | ND | ND | ND |
| | 2/4/2000 | 160,800 | ND | ND | ND | ND | ND | ND |
| | | | | | | | | |
| January | 1/28/2000 | 130,600 | ND | ND | ND | ND | ND | ND |
| | 1/21/2000 | 103,435 | ND | ND | ND | ND | ND | ND |
| | 1/17/2000 | NR | | GAC- | -1 was repla | ced with 2,0 | 000 lb GAC un | it |
| | | | | econd polish | ing GAC wa | s replaced | with 55 gallon | GAC unit |
| | 1/14/2000 | 83,500 | 185 | ND | ND | ND | ND | ND |
| | | | | 1999 | | | | |
| December | 12/23/1999 | 51,680 | 1486 | NA | ND | ND | ND | ND |
| | | | ND | NA | ND | ND | ND | ND |
| | 12/16/1999 | 30,450 | 963 | NA | ND | ND | ND | ND |
| | | | ND | NA | ND | ND | ND | ND |
| | 12/9/1999 | 9,000 | 230 | ND | ND | ND | ND | ND |
| | | Pu | mping bega | n on Decem | ber 6, 1999 | | | |

Notes:

- 1 Effluent is equivalent to PSP#1
- 2 MTBE was analyzed using EPA Method 8260B, prior to the September 2003. After September 2003, MtBE was only analyzed by EPA Method 8021B.
- 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

| | | PID (p | opmv) | Flow Rate | Time Elapsed | Air Flow | Mass Removed 1 |
|-----------|----------|----------|----------|------------|--------------|------------|----------------|
| Date | Time | Influent | Effluent | (ft^3/min) | (Hours) | (Liters) | (Pounds) |
| | | | | 2000 | | | |
| 7/24/2000 | 5:00 PM | 394 | 0 | 85 | 0.0 | 0 | 0.00 |
| 7/25/2000 | 5:15 PM | 38 | 2 | 95 | 24.3 | 3,911,768 | 1.35 |
| 7/26/2000 | 5:05 PM | 207 | 1 | 80 | 24.0 | 3,260,160 | 6.15 |
| 7/27/2000 | 9:00 AM | 160 | 5 | 92 | 16.0 | 2,499,456 | 3.64 |
| 7/28/2000 | 4:30 PM | 141 | 7 | 87 | 31.5 | 4,653,369 | 5.98 |
| 7/29/2000 | 1:30 PM | 225 | 8 | 85 | 21.0 | 3,030,930 | 6.21 |
| 7/30/2000 | 9:00 AM | 226 | 12 | 85 | 19.5 | 2,814,435 | 5.79 |
| 7/31/2000 | 3:00 PM | 141 | 5 | 85 | 30.0 | 4,329,900 | 5.56 |
| 8/1/2000 | 5:00 PM | 135 | 4 | 80 | 26.0 | 3,531,840 | 4.34 |
| 8/2/2000 | 4:00 PM | 80 | 4 | 80 | 23.0 | 3,124,320 | 2.28 |
| 8/3/2000 | 5:00 PM | 60 | 5 | 85 | 25.0 | 3,608,250 | 1.97 |
| 8/4/2000 | 3:00 PM | 57 | 4 | 85 | 22.0 | 3,175,260 | 1.65 |
| 8/5/2000 | 2:00 PM | 97 | 8 | 87 | 23.0 | 3,397,698 | 3.00 |
| 8/6/2000 | 12:00 PM | 114 | 8 | 80 | 22.0 | 2,988,480 | 3.10 |
| 8/7/2000 | 12:00 PM | 93 | 9 | 85 | 24.0 | 3,463,920 | 2.93 |
| 8/8/2000 | 4:30 PM | 152 | 10 | 85 | 16.5 | 2,381,445 | 3.30 |
| 8/10/2000 | 10:00 AM | 173 | 1 | 85 | 41.5 | 5,989,695 | 9.44 |
| 8/11/2000 | 7:00 AM | 78 | 4 | 70 | 21.0 | 2,496,060 | 1.77 |
| 8/12/2000 | 9:00 AM | 100 | 6 | 70 | 26.0 | 3,090,360 | 2.82 |
| 8/13/2000 | 5:00 PM | 107 | 9 | 70 | 34.0 | 4,041,240 | 3.94 |
| 8/14/2000 | 12:30 PM | 122 | 5 | 70 | 19.5 | 2,317,770 | 2.58 |
| 8/15/2000 | 6:00 PM | 103 | 12 | 70 | 17.5 | 2,080,050 | 1.95 |
| 8/16/2000 | 12:30 PM | 112 | 0 | 70 | 18.5 | 2,198,910 | 2.24 |
| 8/18/2000 | 9:00 AM | 90 | 0 | 75 | 44.5 | 5,667,075 | 4.65 |
| 8/21/2000 | 12:00 PM | 74 | 5 | 80 | 75.0 | 10,188,000 | 6.87 |
| 8/24/2000 | 12:00 PM | 68 | 13 | 80 | 72.0 | 9,780,480 | 6.06 |
| 8/27/2000 | 12:30 PM | 68.5 | 2 | 80 | 72.5 | 9,848,400 | 6.15 |
| 8/31/2000 | 1:30 PM | 52 | 6 | 80 | 97.0 | 13,176,480 | 6.24 |

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

| | | PID (r | opmv) | Flow Rate | Time Elapsed | Air Flow | Mass Removed ¹ |
|------------------------|----------------------|----------|----------|------------|--------------|-------------|---------------------------|
| Date | Time | Influent | Effluent | (ft^3/min) | (Hours) | (Liters) | (Pounds) |
| | | | | 2000 | | | |
| 9/4/2000 | 12:30 PM | 54 | 5 | 80 | 95.0 | 12,904,800 | 6.35 |
| 9/7/2000 | 12:00 PM | 55 | 3 | 80 | 71.5 | 9,712,560 | 4.87 |
| 9/11/2000 | 4:30 PM ² | 141 | 0 | 80 | 100.5 | 13,651,920 | 17.54 |
| 9/14/2000 | 9:30 AM | 56 | 5 | 80 | 65.0 | 8,829,600 | 4.50 |
| 9/18/2000 | 2:00 PM | 46 | 9.5 | 80 | 101.5 | 13,787,760 | 5.78 |
| 9/18/2000 | 4:30 PM ³ | 34 | 0 | 80 | 2.5 | 339,600 | 0.11 |
| 9/21/2000 | 4:30 PM | 43 | 1 | 80 | 72.0 | 9,780,480 | 3.83 |
| 9/25/2000 | 5:30 PM | 55 | 6 | 80 | 97.0 | 13,176,480 | 6.60 |
| 9/28/2000 | 9:00 AM | 47.5 | 7.5 | 80 | 63.5 | 8,625,840 | 3.73 |
| | | | | | | | |
| 10/1/2000 | 1:00 PM | 38.5 | 6 | 80 | 76.0 | 10,323,840 | 3.62 |
| 10/5/2000 | 3:00 PM ⁴ | 28.5 | 3 | 80 | 98.0 | 13,312,320 | 3.46 |
| 10/5/2000 | 5:00 PM | 36 | 0 | 80 | 2.0 | 271,680 | 0.09 |
| 10/8/2000 | 3:00 PM | 28.5 | 3 | 80 | 70.0 | 9,508,800 | 2.47 |
| 10/14/2000 | 3:00 PM | 24.5 | 2.5 | 80 | 144.0 | 19,560,960 | 4.37 |
| 10/17/2000 | 2:00 PM | 36.5 | 3.5 | 80 | 71.0 | 9,644,640 | 3.21 |
| 10/20/2000 | 8:30 AM | 18.5 | 3.5 | 80 | 66.5 | 9,033,360 | 1.52 |
| 10/25/2000 | 2:00 PM | 38 | 3.7 | 80 | 125.5 | 17,047,920 | 5.90 |
| 10/29/2000 | 10:00 AM | 35 | 4 | 80 | 93.0 | 12,633,120 | 4.03 |
| 11/2/2000 | 4:00 PM | 30.5 | 4 | 80 | 102.0 | 13,855,680 | 3.85 |
| 11/7/2000 | 4:00 PM | 30 | 6 | 80 | 120.0 | 16,300,800 | 4.46 |
| 11/19/2000 | 12:00 PM | 92.7 | 5.5 | 80 | 284.0 | 38,578,560 | 32.57 |
| 11/24/2000 | 1:30 PM | 25 | 6.5 | 80 | 121.5 | 16,504,560 | 3.76 |
| 11/29/2000 | 3:00 PM | 14.5 | 3.5 | 80 | 121.5 | 16,504,560 | 2.18 |
| 12/4/2000 | 4:30 PM | 10.7 | 1 | 80 | 121.5 | 16,504,560 | 1.61 |
| 12/13/2000 | 3:30 PM | 24 | 3 | 80 | 263.0 | 35,725,920 | 7.81 |
| 12/28/2000 | 2:30 PM | 10 | 6 | 85 | 359.0 | 51,814,470 | 4.72 |
| | | | | 2001 | | | |
| 1/4/2001 ⁵ | 2:00 PM | 8.7 | 3.7 | 85 | 167.5 | 24,175,275 | 1.92 |
| 8/8/2001 | 3:00 PM | 217 | 0 | 85 | 0.5 | 72,165 | 0.14 |
| 9/6/2001 | 12:00 PM | 85 | 0 | 85 | 693.0 | 100,020,690 | 77.45 |
| 9/13/2001 | 4:00 PM | 186 | 8 | 85 | 172.0 | 24,824,760 | 42.07 |
| 9/18/2001 | 3:00 PM | 184 | 9 | 85 | 119.0 | 17,175,270 | 28.79 |
| 9/21/2001 ⁶ | | | | | NC | NC | NC |

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

| | | | pmv) | Flow Rate | Time Elapsed | Air Flow | Mass Removed ¹ | | |
|-------------------------|----------|----------|----------|------------|--------------|------------|---------------------------|--|--|
| Date | Time | Influent | Effluent | (ft^3/min) | (Hours) | (Liters) | (Pounds) | | |
| 2001 | | | | | | | | | |
| 10/12/01 ⁷ | | | | | NC | NC | NC | | |
| 10/23/2001 | 5:00 PM | 114 | 58 | 87 | 0.5 | 73,863 | 0.08 | | |
| 10/25/01 4 | 3:00 PM | 133 | 0 | 85 | 46.0 | 6,639,180 | 8.04 | | |
| 10/29/2001 8 | 1:20 PM | 569 | 0 | 85 | 94.5 | 13,639,185 | 70.70 | | |
| 11/7/2001 | 3:30 PM | 177 | 0 | 87 | 218.0 | 32,204,268 | 51.93 | | |
| 11/16/2001 | 3:00 PM | 117 | 0 | 87 | 215.5 | 31,834,953 | 33.93 | | |
| 11/21/01 ⁹ | 12:00 PM | 85 | 72 | 87 | 117.0 | 17,283,942 | 13.38 | | |
| | | | | 2002 | | | | | |
| 2/15/02 ¹⁰ | 4:30 PM | 49 | 0 | 80 | 0.5 | 67,920 | 0.03 | | |
| 2/16/2002 | 3:45 PM | 50 | 0 | 80 | 23.3 | 3,158,280 | 1.44 | | |
| 2/21/2002 | 4:00 PM | 37 | 4 | 80 | 120.3 | 16,334,760 | 5.51 | | |
| 2/27/2002 | 10:30 AM | 11 | 0 | 83 | 138.5 | 19,519,359 | 1.96 | | |
| 3/7/02 11 | 12:20 PM | 10 | | 80 | 194.0 | 26,352,960 | 2.40 | | |
| | | | | | | | | | |
| 6/12/2002 12 | 4:15 PM | 53 | 2 | 75 | NA | NA | NA | | |
| 6/17/2002 | 11:00 AM | 28 | 2 | 80 | 120.0 | 16,306,560 | 4.16 | | |
| 6/24/2002 | 11:20 AM | 24 | 3.1 | 80 | 168.3 | 22,866,400 | 5.00 | | |
| | | | | | | | | | |
| 7/5/2002 | 1:25 PM | 20 | 5 | 80 | 266.0 | 36,133,440 | 6.58 | | |
| 7/11/2002 | 3:30 PM | 26 | 8.0 | 80 | 146.0 | 19,832,640 | 4.70 | | |
| 7/23/2002 | 10:10 AM | 28 | 7.5 | 83 | 282.8 | 39,849,089 | 10.16 | | |
| 8/9/2002 | 12:20 PM | 7.5 | 0 | 80 | 410.3 | 55,728,360 | 3.81 | | |
| 8/15/2002 ¹¹ | 3:00 PM | 7.0 | 1 | 80 | 146.5 | 19,900,560 | 1.27 | | |
| 8/23/2002 13 | 3:20 PM | NC | NC | NC | NC | NC | NC | | |
| 8/26/2002 | 11:15 AM | 14.0 | 2.0 | 80 | 71.8 | 9,757,387 | 1.24 | | |
| 9/11/2002 | 10:10 AM | 34.4 | 0 | 80 | 383.0 | 52,020,588 | 16.30 | | |
| 9/19/2002 | 10:55 AM | 8.8 | 1.1 | 80 | 192.8 | 26,183,160 | 2.10 | | |
| 9/25/2002 | 10:30 AM | 18.8 | 1.8 | 80 | 143.5 | 19,493,040 | 3.34 | | |

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

| | | PID (p | opmv) | Flow Rate | Time Elapsed | Air Flow | Mass Removed ¹ | |
|------------|----------|----------|------------------------------------|----------------|------------------|------------------|---------------------------|--|
| Date | Time | Influent | Effluent | (ft^3/min) | (Hours) | (Liters) | (Pounds) | |
| | | | | 2002 | | | | |
| 10/2/2002 | 8:10 AM | 17.1 | 2.5 | 80 | 165.70 | 22,508,688 | 3.51 | |
| 10/9/2002 | | PID ma | Ifunction | 80 | NC | NC | NC | |
| 10/16/2002 | 1:45 PM | 17.0 | 4.0 | 80 | 341.50 | 46,389,360 | 7.18 | |
| 10/24/2002 | 10:00 AM | 16.5 | 6.4 | 80 | 188.25 | 25,571,880 | 3.84 | |
| 11/1/2002 | 10:00 AM | 21.1 | 0.0 | 85 | 192.00 | 27,711,360 | 5.33 | |
| 11/6/2002 | 10:12 AM | PID ma | lfunction | 87 | NC | NC | NC | |
| 11/7/2002 | 11:00 AM | 17.5 | 0.0 | 85 | 24.75 | 3,572,168 | 0.57 | |
| 11/13/2002 | 11:30 AM | 15.0 | 0.0 | 85 | 144.50 | 20,855,685 | 2.85 | |
| 11/22/2002 | 2:30 PM | 6.6 | 0.0 | 80 | 219.00 | 29,748,960 | 1.79 | |
| 11/22/2002 | | syste | em shut-do | wn due to rain | y season and lov | v influent readi | ngs | |
| | | | | 2003 | | | | |
| 5/9/2003 | 10:30 AM | 0.1 | 0.0 | 82 | 0.5 | 69,618 | 0.00 | |
| 5/12/2003 | 10:30 AM | 0.4 | 0.3 | 85 | 72.00 | 10,391,760 | 0.04 | |
| 5/21/2003 | 11:00 AM | 2.2 | 2.2 | 83 | 216.50 | 30,512,211 | 0.61 | |
| 6/4/2003 | 10:30 AM | 2.5 | 0.1 | 82 | 335.50 | 46,713,678 | 1.06 | |
| 6/10/2003 | 10:30 AM | 2.2 | 0.08 | 82 | 144.00 | 20,049,984 | 0.40 | |
| 6/16/2003 | 12:15 PM | 2.1 | 0.07 | 82 | 146.25 | 20,363,265 | 0.39 | |
| 6/24/2003 | 4:55 PM | 2.6 | 0.08 | 82 | 196.75 | 27,394,683 | 0.65 | |
| 6/30/2003 | 11:30 AM | 2.2 | 0.1 | 82 | 138.50 | 19,284,186 | 0.39 | |
| | | | | | | | | |
| 7/16/2003 | 12:00 PM | 2.2 | 0.22 | 82 | 384.50 | 53,536,242 | 1.07 | |
| 7/21/2003 | 10:50 AM | 2.1 | 0.21 | 82 | 119.00 | 16,569,084 | 0.32 | |
| 7/28/2003 | 11:15 AM | 2.2 | 0.22 | 82 | 168.25 | 23,426,457 | 0.47 | |
| 8/11/2003 | 12:15 PM | 2.1 | 0.21 | 82 | 337.00 | 46,922,532 | 0.90 | |
| 8/19/2003 | 10:05 AM | 2.1 | 0.22 | 82 | 190.00 | 26,454,840 | 0.51 | |
| 8/25/2003 | 11:30 AM | 2.2 | 0.23 | 81 | 169.50 | 23,312,691 | 0.47 | |
| 9/2/2003 | 10:50 AM | 2.1 | 0.21 | 80 | 192.00 | 26,081,280 | 0.50 | |
| 9/8/2003 | 2:10 PM | 9.1 | 3.19 | 83 | 147.30 | 20,759,578 | 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 | 3.19 | |

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

| | | PID (r | opmv) | Flow Rate | Time Elapsed | Air Flow | Mass Removed 1 |
|------------|-----------|----------|------------|----------------|------------------|----------------|----------------|
| Date | Time | Influent | Effluent | (ft^3/min) | (Hours) | (Liters) | (Pounds) |
| | | | | 2003 | | | |
| 10/1/2003 | 10:30 AM | 6.5 | 0.2 | 85 | 213.00 | 30,742,290 | 1.82 |
| 10/6/2003 | 11:00 AM | 7 | 0.3 | 85 | 120.50 | 17,391,765 | 1.11 |
| 10/13/2003 | 11:15 AM | 5 | 0.2 | 85 | 168.25 | 24,283,523 | 1.11 |
| 10/29/2003 | 10:00 AM | 2.4 | 0 | 85 | 382.75 | 55,242,308 | 1.21 |
| 11/3/2003 | 11:30 AM | 3 | 0 | 85 | 121.50 | 17,536,095 | 0.48 |
| 11/10/2003 | 11:10 AM | 3.5 | 0 | 85 | 167.67 | 24,199,330 | 0.77 |
| 11/17/2003 | 1:50 PM | 4.1 | 0 | 85 | 170.70 | 24,637,131 | 0.92 |
| 11/24/2003 | 11:00 AM | 3.8 | 0 | 85 | 165.20 | 23,843,316 | 0.83 |
| 11/24/2003 | | syste | em shut-do | wn due to rain | y season and lov | influent readi | ngs |
| | | | | 2004 | | | |
| 4/5/2004 | 1:00 PM | 5.6 | 0.11 | 85 | 0.5 | 72165 | 0.004 |
| 4/12/2004 | 10:30 AM | 6.5 | 0.2 | 83 | 165.5 | 23,324,577 | 1.38 |
| 4/20/2004 | 12:00 PM | 7.1 | 0.9 | 84 | 193.5 | 27,599,292 | 1.79 |
| 4/23/2004 | 11:00 AM | 7.2 | 2.3 | 80 | 71 | 9,644,640 | 0.63 |
| 5/3/2004 | 12:00 PM | 7.1 | 3.4 | 80 | 241 | 32,737,440 | 2.12 |
| 5/5/2004 | 11:00 PM | | | All 4 SVE | carbon drums ch | anged-out | |
| 5/17/2004 | 12:00 PM | 2.7 | 0.8 | 82 | 336 | 46,783,296 | 1.15 |
| 5/26/2004 | 11:00 AM | 3.8 | 0.5 | 82 | 215 | 29,935,740 | 1.04 |
| 6/1/2004 | 1:00 PM | 3.6 | 0.9 | 82 | 122 | 16,986,792 | 0.56 |
| 6/7/2004 | 11:50 AM | 3.2 | 0 | 82 | 142.9 | 19,896,824 | 0.58 |
| 6/14/2004 | 11:50 AM | 10.9 | 0 | 86 | 168 | 24,532,704 | 2.44 |
| 6/21/2004 | 10:50: AM | 13.5 | 0 | 83 | 167 | 23,535,978 | 2.89 |
| 6/28/2004 | 11:50 AM | 10.9 | 0.5 | 85 | 169 | 24,391,770 | 2.42 |
| | | | | | | | |
| 7/2/2004 | 11:30 AM | 8.7 | 0 | 85 | 95.8 | 13,826,814 | 1.10 |
| 7/13/2004 | 2:00 PM | 9.1 | 0.22 | 85 | 266.5 | 38,463,945 | 3.19 |
| 7/21/2004 | 12:00 PM | 8.9 | 0.5 | 85 | 190 | 27,422,700 | 2.22 |
| 7/26/2004 | 11:50 AM | 8.5 | 0.4 | 85 | 119.5 | 17,247,435 | 1.34 |
| 8/2/2004 | 11:30 AM | 4.9 | 0.1 | 85 | 167.8 | 24,218,574 | 1.08 |
| 8/9/2004 | 11:50 AM | 5.6 | 0.2 | 85 | 168.3 | 24,290,739 | 1.24 |
| 8/16/2004 | 12:00 PM | 6 | 0.4 | 85 | 168.1 | 24,261,873 | 1.33 |
| 8/24/2004 | 11:50 AM | 6.2 | 1.2 | 85 | 191.9 | 27,696,927 | 1.56 |
| 8/30/2004 | 11:30 AM | 6 | 0.4 | 85 | 143.66 | 20,734,448 | 1.13 |
| 9/7/2004 | 1:05 PM | 5.5 | 8.0 | 85 | 193.5 | 27,927,855 | 1.40 |
| 9/13/2004 | 12:05 PM | 5.3 | 0.9 | 85 | 143 | 20,639,190 | 1.00 |
| 9/20/2004 | 11:08 AM | 7 | 2.9 | 85 | 167 | 24,103,110 | 1.54 |
| 9/27/2004 | 2:50 PM | 6.5 | 2.1 | 85 | 171.75 | 24,788,678 | 1.47 |

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

| | | PID (p | opmv) | Flow Rate | Time Elapsed | Air Flow | Mass Removed ¹ |
|------------|----------|-------------|---------------|-----------------|------------------|------------------|---------------------------|
| Date | Time | Influent | Effluent | (ft^3/min) | (Hours) | (Liters) | (Pounds) |
| | | | | 2004 | | | |
| 10/4/2004 | 11:30 AM | 6.9 | 3 | 85 | 164.55 | 23,749,502 | 1.49 |
| 10/13/2004 | 10:30 AM | 6.5 | 2.9 | 85 | 215 | 31,030,950 | 1.84 |
| 10/18/2004 | 2:30 PM | 6 | 1.5 | 85 | 124 | 17,896,920 | 0.98 |
| 10/28/2004 | 2:00 PM | 3.1 | 0.9 | 85 | 239.5 | 34,567,035 | 0.98 |
| 10/28/2004 | | syste | em shut-do | wn due to rain | y season and lov | v influent readi | ngs |
| | | | | 2005 | | | |
| 4/11/2005 | S | ystem re-st | arted, all fo | our vapor phase | e carbon drums | replaced with n | new carbon |
| 4/18/2005 | 10:50 AM | 6.5 | 0.8 | 85 | 167.83 | 24,223,481 | 1.43 |
| 4/25/2005 | 5:30 PM | 6 | 0.7 | 85 | 174.33 | 25,161,626 | 1.38 |
| 5/4/2005 | 11:20 AM | 0.4 | 0 | 85 | 209.83 | 30,285,341 | 0.11 |
| 5/9/2005 | 11:00 AM | 1 | 0.4 | 85 | 119.67 | 17,271,538 | 0.16 |
| 5/16/2005 | 10:15 AM | 3 | 0 | 85 | 167.25 | 24,139,193 | 0.66 |
| 5/23/2005 | 11:05 AM | 0.4 | 0 | 90 | 168.83 | 25,801,110 | 0.09 |
| 6/3/2005 | 3:30 PM | 0.2 | 0 | 90 | 268.48 | 41,029,114 | 0.07 |
| 6/9/2005 | 3:00 PM | 0.2 | 0 | 90 | 143.50 | 21,929,670 | 0.04 |
| 6/15/2005 | 2:15 PM | 1 | 0 | 85 | 143.25 | 20,675,273 | 0.19 |
| 6/20/2005 | 12:00 PM | 0.6 | 0 | 88 | 117.75 | 17,594,676 | 0.10 |
| 6/26/2005 | 12:00 PM | 0.5 | 0 | 85 | 144.00 | 20,783,520 | 0.09 |
| | | | | | | | |
| 7/7/2005 | 2:45 PM | 0.2 | 0 | 90 | 266.75 | 40,764,735 | 0.07 |
| 7/11/2005 | 3:00 PM | 0.3 | 0 | 90 | 96.25 | 14,708,925 | 0.04 |
| 7/18/2005 | 1:00 PM | 1 | 0 | 85 | 166.00 | 23,958,780 | 0.22 |
| 7/25/2005 | 12:00 PM | 1.5 | 0 | 87 | 167.00 | 24,670,242 | 0.34 |
| 8/1/2005 | 1:30 PM | 1 | 0 | 85 | 169.50 | 24,463,935 | 0.22 |
| 8/8/2005 | 11:50 AM | 0.7 | 0 | 80 | 166.40 | 22,603,776 | 0.14 |
| 8/15/2005 | 1:30 PM | 0.9 | 0 | 83 | 169.60 | 23,902,406 | 0.20 |
| 8/24/2005 | 12:00 PM | 0.8 | 0 | 85 | 214.50 | 30,958,785 | 0.23 |
| 8/29/2005 | 11:45 AM | 0.7 | 0 | 85 | 119.75 | 17,283,518 | 0.11 |
| 9/6/2005 | 12:15 PM | 8.0 | 0 | 85 | 192.50 | 27,783,525 | 0.20 |
| 9/12/2005 | 12:10 PM | 1.2 | 0 | 85 | 144.00 | 20,783,520 | 0.23 |
| 9/20/2005 | 11:30 AM | 1.1 | 0 | 84 | 192.60 | 27,470,923 | 0.28 |

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

| | | PID (p | pmv) | Flow Rate | Time Elapsed | Air Flow | Mass Removed 1 | | | |
|------------|----------|---|------------|-----------------|---------------------|------------------|----------------|--|--|--|
| Date | Time | Influent | Effluent | (ft^3/min) | (Hours) | (Liters) | (Pounds) | | | |
| | 2005 | | | | | | | | | |
| 10/6/2005 | 3:00 PM | | all 4 vapo | r phase carboi | drums replaced | l with new carb | on drums | | | |
| 10/14/2005 | 3:30 PM | 33 | 5 | 83 | 192.5 | 27,129,795 | 8.16 | | | |
| 10/17/2005 | 12:00 PM | 33 | 5 | 86 | 648.5 | 94,699,158 | 28.47 | | | |
| 11/1/2005 | 9:40 AM | 33 | 7 | 86 | 333.75 | 48,736,845 | 14.65 | | | |
| 11/3/2005 | 3:30 PM | 33 | 7 | 87 | 333.75 | 49,303,553 | 14.82 | | | |
| 11/9/2005 | 3:15 PM | | all 4 vapo | r phase carboi | n drums replaced | l with new carb | on drums | | | |
| 11/14/2005 | 11:30 AM | 0.3 | 0 | 89 | 260 | 39,291,720 | 0.11 | | | |
| 11/22/2005 | 2:40 PM | 0.8 | 0 | 88 | 195 | 29,137,680 | 0.21 | | | |
| 11/17/06- | 11/23/06 | | | 3 new va | apor wells installe | ed onsite | | | | |
| | | | | 2006 | | | | | | |
| 1/6/2006 | 10:00 AM | | | System shut | -down due to rai | ny conditions | | | | |
| 2/22/06- | -3/6/06 | | A | ir Sparge and | Additional SVE | system installe | d | | | |
| 4/8/06 | | | Existing v | vacuum educto | or, which was bui | It and installed | in 2000, | | | |
| | | | was rebu | uilt. To reduce | the noise level, f | oam was place | ed around | | | |
| | | | the | e vacuum edu | ctor to act as a n | oise suppressa | ant | | | |
| 4/14/06 | 2:00 PM | 2:00 PM all 4 vapor phase carbon drums replaced with new carbon drums | | | | | | | | |
| | | | | | | | | | | |
| | | | | | m Hydrocarbon | | 814.20 | | | |
| | | | Ave | erage Daily Re | emoval Rate (po | unds / day)= | 0.42 | | | |

Notes:

NC: Not Calculated Calculations

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

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

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

¹ The representative molecular weight of hydrocarbons was assumed to be 150 gram/mole and us the measured temperature of Vapor (2ξ°C) in converting ppm-v to ppm on mass basis

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

³ GAC Replaced

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

⁵ SVE System turned off for rainy season due to low influent concentration

⁶ system down, hoses disconnected and GAC moved for replaceme

⁷ system down for electrical repai

⁸ Carbon change-out of three drums, moved new effluent drum on 10/25/01 to GAC

⁹ system shut-down due to high effluent valu

¹⁰ System re-started (since November 21, 2001), installed new 4-55 gallon vapor phase carbon vessels, repaired blo

¹¹ System was shut-down due to low influent readin

¹² System was restarted on 6/12/02

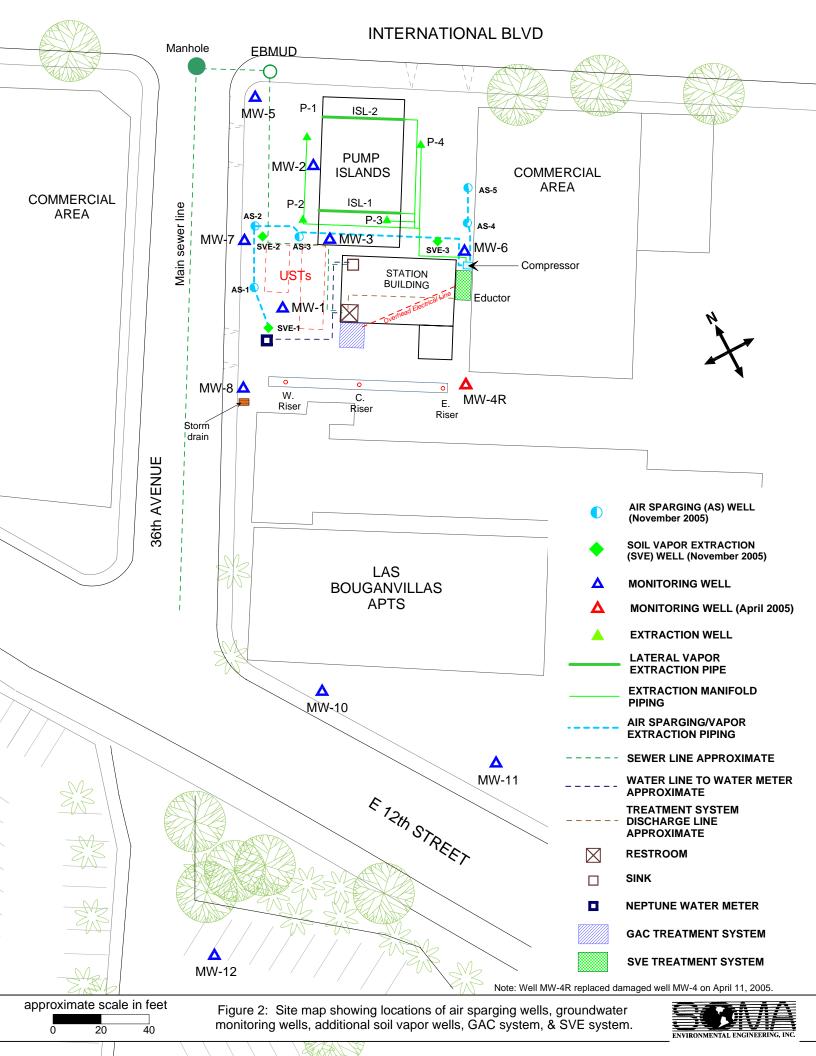
¹³ System was re-started but no readings were take

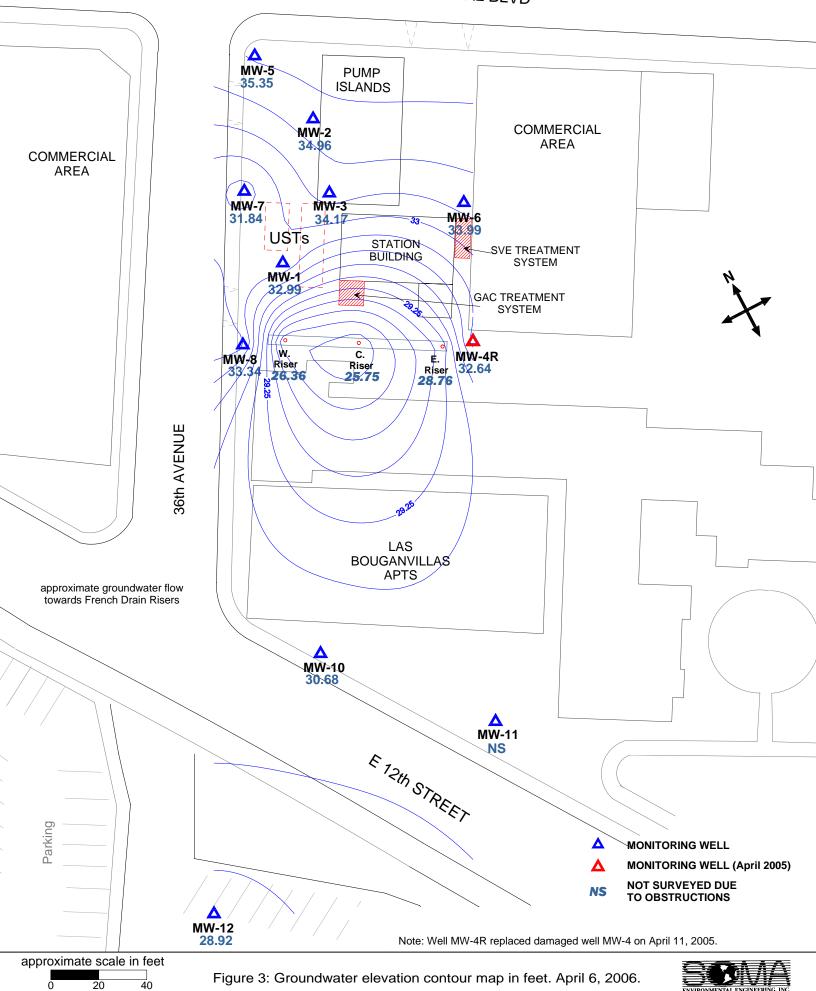
FIGURES











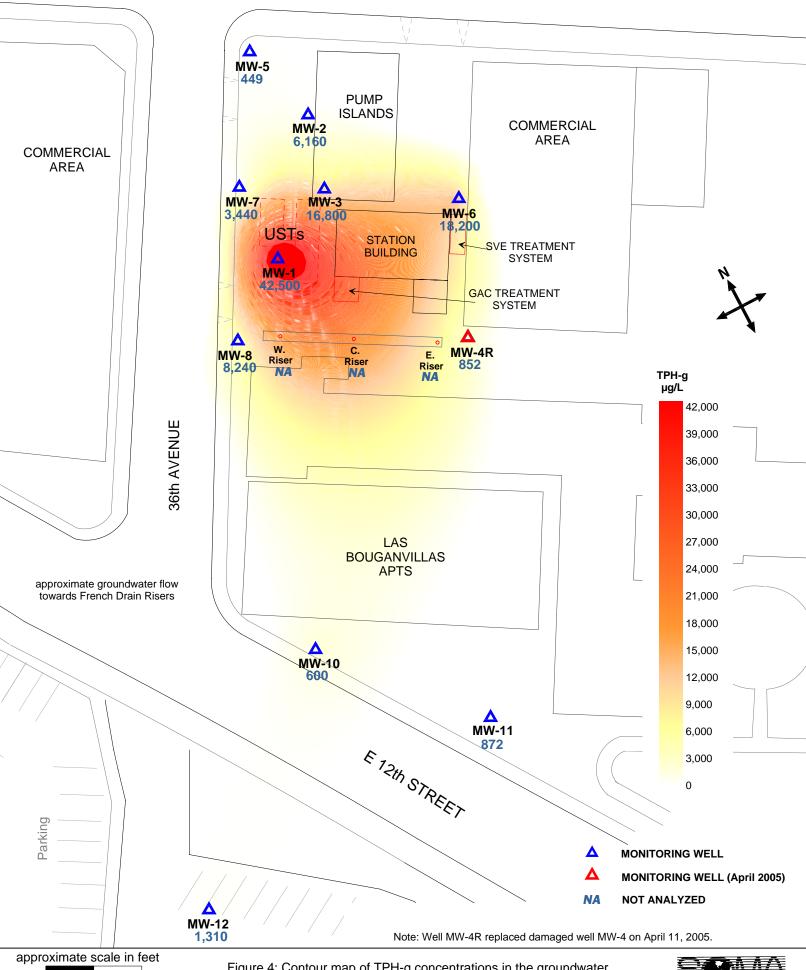


Figure 4: Contour map of TPH-g concentrations in the groundwater. April 6 & 7, 2006.

20

40



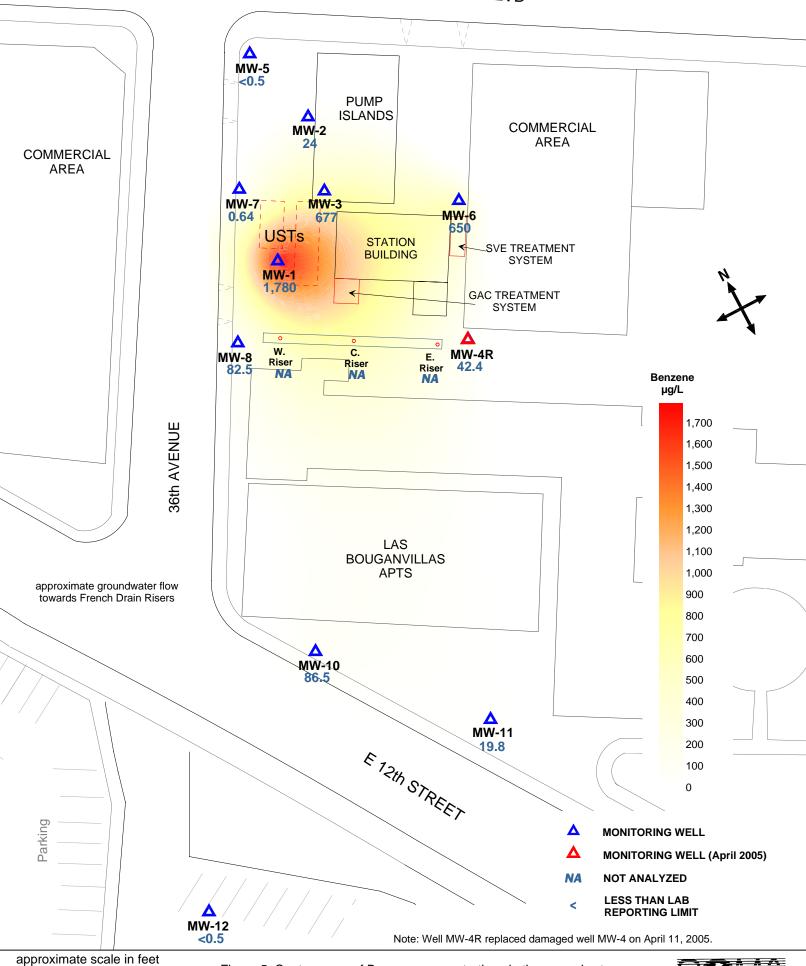


Figure 5: Contour map of Benzene concentrations in the groundwater.

April 6 & 7, 2006.

20

40



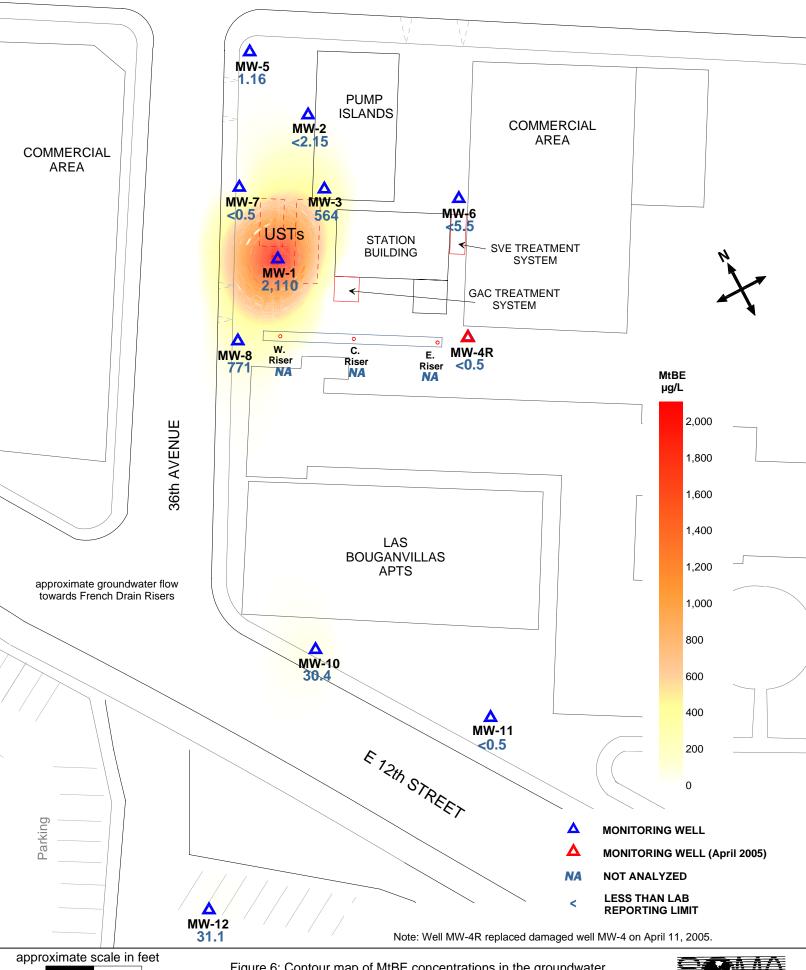
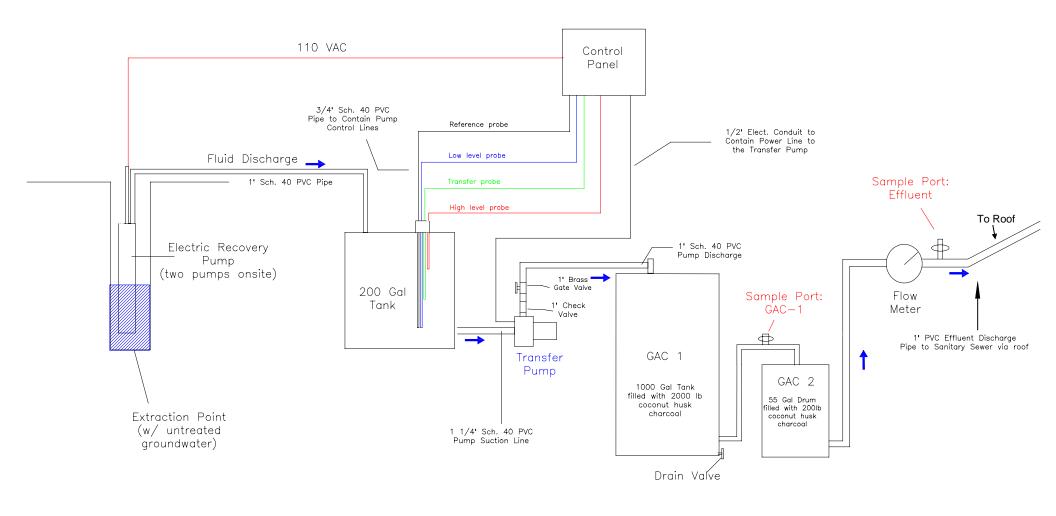


Figure 6: Contour map of MtBE concentrations in the groundwater. (EPA Method 8260B). April 6 & 7, 2006.

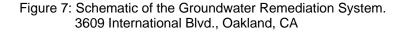
20

40

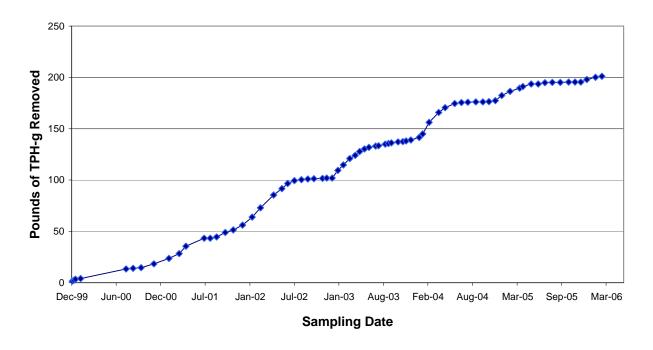




(Discharge permit No: 504-27421) Tony's Express Auto Service. November 14, 2006 permit expires







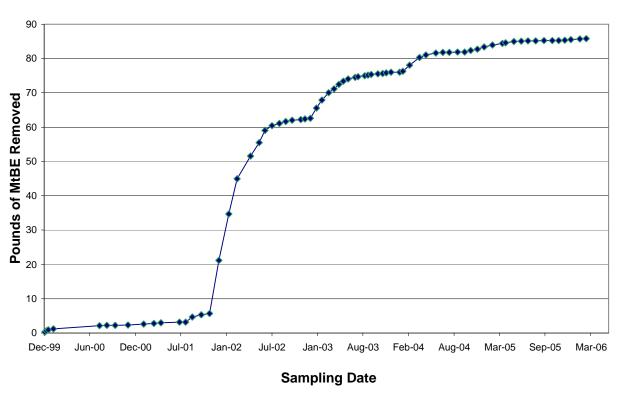
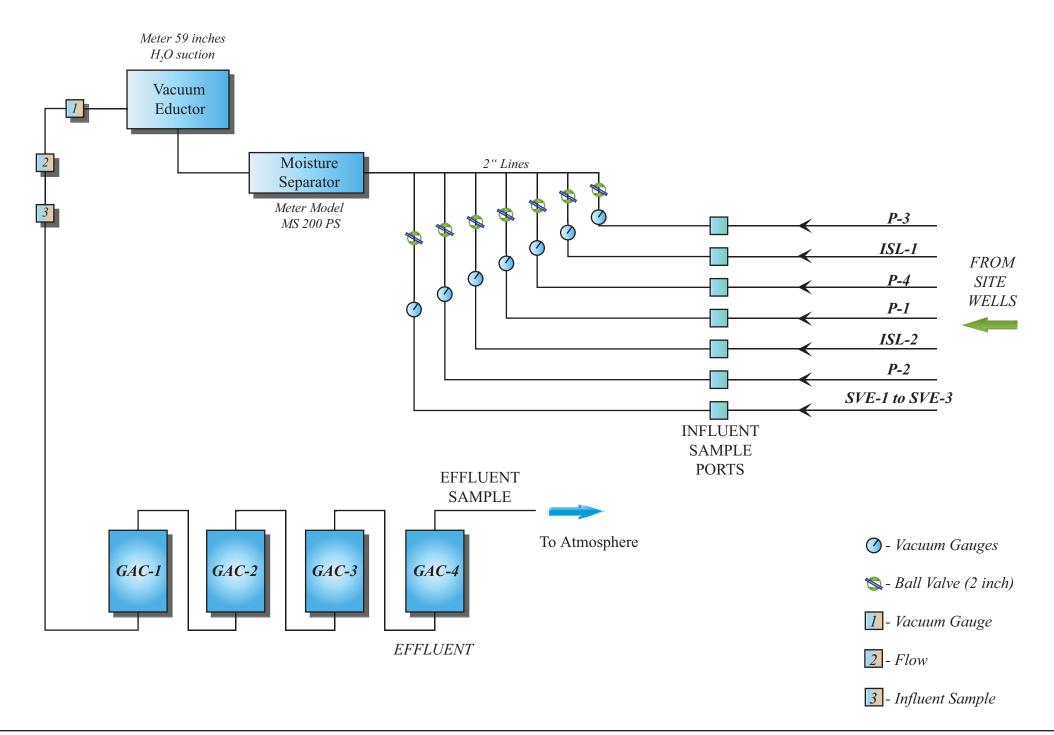


Figure 8. Cumulative mass of TPH-g and MtBE removed from groundwater since the installation of the treatment system.





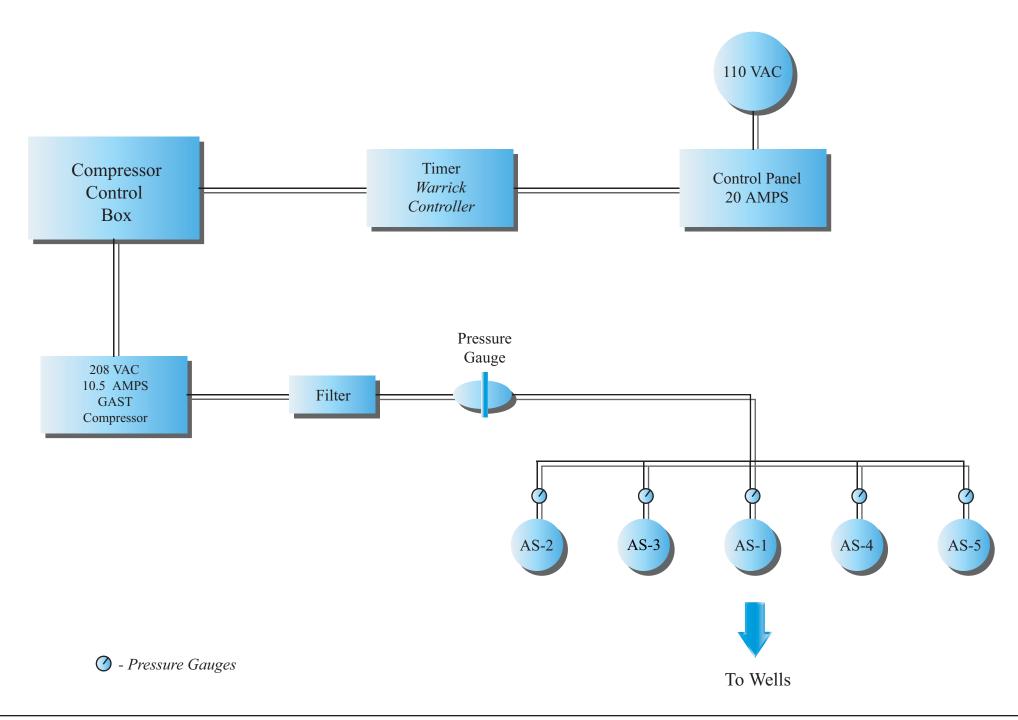


Figure 10: Block diagram of the Air Sparge System



APPENDIX A

SOMA's Groundwater Monitoring Procedures

Field Activities

On April 6, 2006, a total of eight on-site monitoring wells (MW-1 to MW-8), three off-site monitoring wells (MW-10 to MW-12), and three on-site French drain risers were measured for depth to groundwater. On April 6 and 7, 2006, additional field measurements and grab groundwater samples were collected from all of the monitoring wells. This monitoring event was conducted in accordance with the procedures and guidelines of the RWQCB, San Francisco Bay Region.

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

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

Harrington Surveys, Inc. surveyed the newly installed well MW-4R on April 20, 2005. The elevation data for well MW-4R was referenced from wells MW-5 and MW-7. The survey data measured by Kier and Wright and Harrington Surveys are both presented in Appendix B.

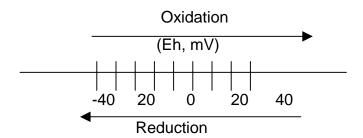
Prior to collecting samples, each well was purged using a battery operated 2-inch diameter pump (Model ES-60 DC). During the purging activities, in order to obtain accurate measurements of groundwater parameters and especially to avoid the intrusion of oxygen from ambient air into the groundwater samples, field measurements were conducted in-situ (i.e., down-hole inside each monitoring well). The groundwater parameters such as DO, pH, temperature, EC, turbidity, and the ORP were measured in-situ using a Horiba, Model U-22 multiparameter instrument. The equipment was calibrated at the Site using standard solutions and procedures provided by the manufacturer.

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

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

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

Oxidation of petroleum hydrocarbons can still occur, when all the dissolved O₂ in the groundwater is consumed, however, the oxidizing agents (i.e., the constituents that undergo reduction) now become NŌ₃, 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 proceeds far enough, the environment may become so strongly reduced that the petroleum hydrocarbons may undergo anaerobic degradation, resulting in the production of methane and carbon dioxide. The concept of oxidation and reduction in terms of changes in oxidation states is illustrated below.



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

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

Fe⁺², NO₃-, and SO₄-² were measured colorimetrically using the Hach Colorimeter Model 890. The Hach Model 890 Colorimeter is a microprocessor-controlled photometer suitable for colorimetric testing in the laboratory or the field. The required reagents for each specific test are provided in AccuVac ampuls.

Detailed field measurements are shown in Appendix B.

For sampling purposes, after purging, a disposable polyethylene bailer was used to collect sufficient samples from each monitoring well for laboratory analyses. The groundwater sample was transferred into four 40-mL VOA vials and preserved with hydrochloric acid. The vials were then sealed to prevent development of air bubbles within the headspace. After the groundwater samples were collected, they were placed on ice and maintained at 4°C in a cooler. A chain of custody (COC) form was written and placed along with the samples in the cooler. On April 7, 2006, SOMA's field crew delivered the groundwater samples to Pacific Analytical Laboratory in Alameda, California.

Laboratory Analysis

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

Appendix B

Table of Elevations & Coordinates on Monitoring Wells Surveyed by Kier Wright Civil Engineers Surveyors, Inc. & Harrington Surveys, Inc.,

and

Field Measurements of Physical, Chemical, and Biodegradation Parameters of Groundwater

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 | 210932168 | 6064 000.49 | 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

DATE: JOB# 08/27/02 A02576

TABLE OF ELEVATIONS & COORDINATES
ON MONITORING WELLS

SOMA ENVIRONMENTAL
Oakland-E, 14 the St. "international Blvd"

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

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

Elevation = 14.20 NAVD88 Datum

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



| Well No.: | MWI | | | Project I | No.: | 2331 |
|--------------------------|---------------|----------------|-------|-----------|-----------|--------------------------|
| Casing Diameter: | 2 | inches | | Address | :: | 3609 International Blvd. |
| Depth of Well: | 29.60 |) feet | | | | Oakland, CA |
| Top of Casing Elevation: | 40.11 | feet | ~ | Date: | | April 6 7, 2006 |
| Depth to Groundwater: | 7.12 | feet | | Sampler | : | John Lohman |
| Groundwater Elevation: | <u>99. 55</u> | feet | | | | Mehran Nowroozi |
| Water Column Height: Z | 2.49 | 8 _feet | | | | |
| Purged Volume: | 76 | gallons | | | | |
| Purging Method: | | Bailer | 0 | Pump | • | |
| Sampling Method: | | Bailer | • | Pump | - | |
| Color: | No 🗲 | • | Yes □ | | Describe: | |
| Sheen: | No □ | | Yes 🖈 | | Describe: | minbon |
| Odor: | No 🗆 | | Yes 🖄 | | Describe: | strong gas |
| | | | , | | | |

| Time | Vol | pН | Temp | E.C. | D.O. | Turbidity | ORP | Fe ⁺² | NO3 ⁻¹ | SO ₄ ~² |
|-----------|-----------|--|-------|---------|------------|-----------|---------------------|------------------|-------------------|--------------------|
| | (gallons) | , | (°C) | (μS/cm) | (mg/L) | (NTU) | (mV) | (mg/L) | (mg/L) | (mg/L) |
| 11:22 Am | STA | PAP | MRG | E | | | | | | |
| 11:28 Am | 8 | 6.17 | 18.43 | 935 | 3.25 | 434 | ر م { | | <u> </u> | |
| 11:35 Am | 16 | 6.21 | 16.71 | 837 | 2.37 | 395 | - 29 | | | |
| 11:4 2 AM | 24 | 6.22 | 16.74 | 843 | 2.06 | 369 | -37 | | | |
| 11:46 pm | SAV | NPLY | 65 | | | | | 3,32 | 9 | 10 |
| | | | | | | | | | 7 | |
| | | The designation of the last of | | | | | | | | |
| | | | | | CALCORD IN | | | | | |



| Well No.: | MV | $\overline{\lambda}$ | _ | | Project N | lo.: | 2331 |
|--------------------------|--------------|----------------------|---------|-----|-----------|-----------|--------------------------|
| Casing Diameter: | | 4 | inches | | Address | : | 3609 International Blvd. |
| Depth of Well: | 30 | ,15 | feet | | | | Oakland, CA |
| Top of Casing Elevation: | 40. | 71 | feet | | Date: | | Aprii x 7, 2006 |
| Depth to Groundwater: | 5. | | feet | | Sampler | : | John Lohman |
| Groundwater Elevation: | <u>34.</u> 4 | 96 | feet | | | | Mehran Nowroozi |
| Water Column Height: 2 | 4. | <u>40</u> | feet | | | | · |
| Purged Volume: | _4 | 0_ | galions | | | | ; |
| | | | | | | | see the second second |
| | | | | | | | • |
| Purging Method: | | | Bailer | | Pump | | , |
| Sampling Method: | | | Bailer | • | Pump | | |
| Color: | No | × | | Yes | | Describe: | |
| Sheen: | No | 4 | | Yes | | Describe: | |
| Odor: | No | # | | Yes | | Describe: | · |
| | | • | | | | | |

| Time | Vol (gallons) | рH | Temp (°C) | E.C. (μS/cm) | D.O. (mg/L) | Turbidity (NTU) | ORP (mV) | Fe ⁺² (mg/L) | NO3 ⁻¹ (mg/L) | SO₄ ⁻² (mg/L) |
|---------|------------------|------|--------------|-----------------|----------------|--------------------|-------------|----------------------------|-----------------------------|-----------------------------|
| 1:35 Pm | STA | RTPI | 186í | | | | | | | |
| 1:41 Pm | 号 | 6.39 | 20,09 | 532 | 4.51 | 113 | 67 | | | |
| 1:47 pm | 16_ | 636 | 19.77 | 531 | 3.65 | 124 | 63 | | | |
| 1.53 pm | 24 | 6.35 | 19.68 | 533 | 2.94 | 155 | 57 | | _ | |
| 7:00 Pm | 32 | 6.36 | 19.76 | 545 | 2.52 | 1466 | 55 | (a table : | | |
| 2:05 Pm | 40 | 6.37 | | 554 | 2.30 | 228 | 52 | | , | |
| 2:07pm | SAU | nyli | ES. | | | | | Ø | Ø | 12 |
| | | | | | | | | | | |



| Well No.: Casing Diameter: Depth of Well: Top of Casing Elevation: Depth to Groundwater: Groundwater Elevation: Water Column Height: 2 Purged Volume: | <u>6.</u> 34. | | inches feet feet feet feet feet geallons | | Project N Address Date: Sampler | : | 2331 3609 International Blvd. Oakland, CA Aprilo 7, 2006 John Lohman Mehran Nowroozi |
|---|------------------|--------|--|-------------------------|--|---------------------|---|
| Purging Method: | | | Bailer Bailer | □ ■ | Pump Pump | = | |
| Color: Sheen: Odor: | No No No | ¥ ≠ | | Yes □ Yes □ Yes ⊅ | | Describe: Describe: | 51. Myas |

| | Time | Vol (gallons) | рН | Temp (°C) | E.C. (μS/cm) | D.O. (mg/L) | Turbidity (NTU) | ORP (mV) | Fe ⁺² (mg/L) | NO3 ⁻¹ (mg/L) | SO ₄ ⁻² (mg/L) |
|-------|------------|------------------|------|--------------|-----------------|----------------|--------------------|---------------------------------------|----------------------------|-----------------------------|---|
| 2'.24 | PM 2:30 PM | 51 | ort | BN | PGI | <u> </u> | () | (, | (3. –) | (g . = / | (9-) |
| | 2:30 pm | 8 | 6.27 | 19,76 | 435 | 2.66 | 75.3 | -57 | | | |
| | 21.36PM | 16 | 6,28 | 1957 | 827 | 1.98 | - A | -91 | | | |
| | 2:42 PM | 24 | 6,28 | 19,58 | 823 | 1.70 | 95.8 | -103 | | | _ |
| | 2:45 PM | 514. | mpl | XX | | | | · · · · · · · · · · · · · · · · · · · | 3,30 | ø | B |
| | • | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |



| Well No.: Casing Diameter: Depth of Well: Top of Casing Elevation: Depth to Groundwater: Groundwater Elevation: Water Column Height: Purged Volume: | MD4 26.30 40.34 7.70 37.64 8.60 | inches feet feet feet feet feet gallons | | | Project N Address: Date: Sampler: | : | 2331 3609 International Blvd. Oakland, CA April 6 2006 John Lohman Mehran Nowroozi |
|---|--|---|----------|---|--|---------------------|--|
| Purging Method: Sampling Method: | | Bailer Bailer | □ | | Pump | ■ | |
| Color: Sheen: Odor: | No O | | Yes C | 5 | | Describe: Describe: | |

| Time | Vol | pН | Temp | E.C. | D.O. | Turbidity | ORP | Fe ⁺² | NO3 ⁻¹ | SO₄⁻² |
|---------|-----------|----------|-------|---------|--------|-----------|------|------------------|-------------------|--------|
| | (gallons) | F | (°C) | (μS/cm) | (mg/L) | (NTU) | (mV) | (mg/L) | (mg/L) | (mg/L) |
| 1:32 PM | 979 | RT | pur | GE | | | | | | |
| 1:35 pm | 4 | 6.58 | 18.70 | 519 | 5.32 | 446 | 76 | | | |
| 1:38 pm | 46 | 6.47 | 18.76 | SZZ | 3,86 | 3KG | 73 | | | |
| 1:41Pm | 12 | 6,42 | 18.93 | 624 | 3.36 | 76Z | 70 | | | |
| 1:44 om | 10 | 6.39 | 1901 | 524 | \$,04 | SSA | 6 | | | |
| 1:46 pm | SPW | hPLF | 5 | | | | | Ø | \$ | 4 |
| | | | | | | | | | / | |
| | | | | | _ | | | | | |



| Well No.: Casing Diameter: Depth of Well: Top of Casing Elevation: Depth to Groundwater: Groundwater Elevation: Water Column Height: | - 11 A | _ _feet _feet | | A D | Project N Address: Date: Sampler: | | 2331 3609 International Blvd. Oakland, CA April 7, 2006 John Lohman Mehran Nowroozi |
|--|--------|---------------------|--------|----------|--|-----------|---|
| Purged Volume: | 20 | _gallons | | | | | |
| Purging Method: Sampling Method: | | Bailer Bailer | □ ■ | | oump | = | |
| Color: | No 7 | | Yes □ | - | | Describe: | |
| Sheen: | No 🛪 | | Yes □ |] | | Describe: | · |
| Odor: | No 🏏 | | Yes 🗆 | - | | Describe: | |
| | | | | | | | |

| Time | Vol | рН | Temp | E.C. | D.O. | Turbidity | ORP | Fe ⁺² | NO3 ⁻¹ | SO ₄ -2 |
|------------|-----------|------|-------|---------|--------|-----------|---------------|------------------|-------------------|--------------------|
| | (gallons) | | (°C) | (μS/cm) | (mg/L) | (NTU) | (m V) | (mg/L) | (mg/L) | (mg/L) |
| 10.29 m | STA | RY | Jure | BE | | | | | | |
| 10:33 Am | 4 | 6.53 | 19.94 | 614 | 5.56 | 287 | 144 | | | |
| 10 , 36 Am | 4 | 6.44 | 20.07 | 606 | 485 | 239 | 142 | | | |
| 10:40 AM | 12 | 6.40 | 20.70 | 605 | 4.40 | 196 | 134 | | | |
| 10:43 Am | 16 | 6.34 | 20.31 | 603 | 3,49 | 153 | 115 | | | |
| 10:47 AM | 20 | 6.37 | 70.3 | 604 | 3,17 | 147 | 106 | | | , |
| 10:50 AM | SAN | nPLE | 5 | | | | | 0 | 0 | 6 |
| | | | | | | | | | 7 | |



| Well No.: Casing Diameter: Depth of Well: Top of Casing Elevation: Depth to Groundwater: Groundwater Elevation: Water Column Height: | 6.93 33.99 7.97 | inches feet feet feet | | Project Address Date: Sample | s: | 2331 3609 International Blvd. Oakland, CA April 7, 2006 John Lohman Mehran Nowroozi |
|--|-----------------------|--------------------------------|-------|---------------------------------------|-----------|---|
| Purged Volume: | 10 | _gallons | | | | |
| | | | | | | |
| Purging Method: | | Bailer | | Pump | • | |
| Sampling Method: | * | Bailer | | Pump | | |
| | | | ~ | | | |
| Color: | No ⊅ | | Yes □ | | Describe: | |
| Sheen: | No ¥ | | Yes □ | | Describe: | |
| Odor: | No 🖒 | • | Yes □ | | Describe: | |
| | / | | | | | |

| Time | Vol (gallons) | рН | Temp (°C) | E.C. (μS/cm) | D.O. (mg/L) | Turbidity (NTU) | ORP (mV) | Fe ⁺² (mg/L) | NO3 ⁻¹ (mg/L) | SO ₄ -2 (mg/L) |
|----------|------------------|------|--------------|-----------------|----------------|---|-------------|----------------------------|-----------------------------|------------------------------|
| 12:47 pm | STAG | 27 | | GE | (9/ | (************************************** | () | (***3**=) | (***3==) | (3-) |
| 12:50 PM | Ч | 6.35 | 1890 | 694 | 5.38 | 338 | -1 | | | |
| 12:53 PM | 4 | 6.26 | 19.10 | 674 | 4113 | 311 | -30 | | | |
| 12:57 PM | 12 | 6.27 | 19.26 | 662 | 3,66 | 265 | -37 | | | |
| 1:00 pm | 16 | 6.76 | 19,40 | <u>638</u> | 3.24 | 220 | ~43 | | | |
| 1:04 PM | 20 | 6.26 | 19.44 | 633 | 3/18 | 528 | -46 | | | |
| 1:06 pm | SAY | 181 | ES | | | | | 2.96 | Ø | Ø |
| | | | | | | | | | | |



| Water Column Height: (| | | | | Project No.: Address: Date: Sampler: | | 2331 3609 International Blvd. Oakland, CA April 7, 2006 John Lohman Mehran Nowroozi | | | | |
|------------------------|----|---|---------|-----|---|------|---|---------------------------------------|--|--|--|
| Purged Volume: | | 0 | gallons | | | | | | | | |
| | | | | | | | | | | | |
| Purging Method: | | | Bailer | | | Pump | | | | | |
| Sampling Method: | | | Bailer | | | Pump | | | | | |
| Color: | No | | | Yes | ø | | Describe: | brown (sediment) | | | |
| Sheen: | No | × | | Yes | | i | Describe: | | | | |
| Odor: | No | × | | Yes | | | Describe: | · · · · · · · · · · · · · · · · · · · | | | |
| | | , | | | | | | | | | |

| Time | Vol | pН | Temp | E.C. | D.O. | Turbidity | ORP | Fe ⁺² | NO3 ⁻¹ | SO ₄ -2 |
|----------|-----------|------|-------|---------|--------|-----------|------|--|-------------------|--------------------|
| | (gallons) | Pil | (°C) | (μS/cm) | (mg/L) | (NTU) | (mV) | (mg/L) | (mg/L) | (mg/L) |
| 9:52 Am | STAR | 7 | uRC | E | | | | | | |
| 9:55 Am | 4 | 5 | 70.39 | 515 | 8.50 | 999 | 143 | | | |
| 9:58 AM | 4 | 6.60 | 10.58 | 599 | 4.75 | 999 | 133 | | - | |
| 10:01 Am | 12 | 6.62 | 20.49 | 539 | 4.50 | 999 | 130 | | | |
| 10:04 gm | 16 | 6,61 | 20.47 | 521 | 3.98 | 999 | 128 | and the state of t | | |
| 10.06AM | SAM | PLE | 5 | | | | | .78 | Ø | \$ |
| | | | | | | | | | | 1 |
| | | - | | | | | | | | |



| Top of Casing Elevation: Depth to Groundwater: | MV 2 39:339:333:00:00:00:00:00:00:00:00:00:00:00:00 | 3 <i>४</i> ७५ | feet feet feet feet feet feet gallons | | | Project N Address Date: Sampler | : | 2331 3609 International Blvd. Oakland, CA April 6 × 2006 John Lohman Mehran Nowroozi |
|--|---|------------------|---------------------------------------|-----|---|--|-----------|--|
| Purging Method: | | | Bailer | | | Pump | | |
| Sampling Method: | | | Bailer | | | Pump | | |
| Color: | No | X, | | Yes | 0 | | Describe: | |
| Sheen: | No | 7 | | Yes | | | Describe: | |
| Odor: | No | <i>,</i> | | Yes | 9 | | Describe: | slight gas |

| Time | Voi (galions) | рН | Temp (°C) | E.C. (μS/cm) | D.O. (mg/L) | Turbidity (NTU) | ORP (mV) | Fe ⁺² (mg/L) | NO3 ⁻¹ - (mg/L) | SO ₄ -2 (mg/L) |
|----------|------------------|------|--------------|-----------------|----------------|--------------------|-------------|----------------------------|-------------------------------|------------------------------|
| 12:58 Pm | BTA | 27 | PNE | 2607 | | | | | | |
| 1:010m | 4 | 6,52 | 18.84 | 599 | 7.85 | 137 | 112 | | | |
| 1:048m | 8 | 6.44 | 18.39 | 632 | 7.29 | 188 | 31 | | | |
| 1:07 Pm | 12 | 6.41 | 18,66 | 603 | でラン | 121 | -47 | | | |
| 1:10 pm | 16 | 6.40 | 1882 | 596 | 7.23 | 160 | -67 | | | |
| 1:138m | 20 | 639 | 18.89 | 596 | 183 | 92.6 | -76 | | | |
| 1:15PM | SAN | n PZ | E- | | _ | | 1 | 2.31 | ø | 4 |
| | | | | | | | | | · | _ |



| Well No.: Casing Diameter: Depth of Well: Top of Casing Elevation: Depth to Groundwater: Groundwater Elevation: Water Column Height: | 6.93 | inches feet feet feet feet feet | | Project I Address Date: Sampler | : | 2331 3609 International Blvd. Oakland, CA April 6 × 2006 John Lohman Mehran Nowroozi |
|--|------|---------------------------------|--------|--|-----------|--|
| Purged Volume: | 16 | gallons | | | | |
| Purging Method: Sampling Method: | | Bailer Bailer | □ ■ | Pump Pump | ■ | |
| Color: | No X | <u></u> | Yes □ | | Describe: | |
| Sheen: | No 🏸 | | Yes 🗆 | | Describe: | |
| Odor: | No A | | Yes 🗆 | | Describe: | |

| Time | Vol | рH | Temp | E.C. | D.O. | Turbidity | ORP | Fe ⁺² | NO3 ⁻¹ | SO ₄ -2 |
|----------|-----------|----------|-------|---------|--------|-----------|------|------------------|-------------------|--------------------|
| | (gallons) | P | (°C) | (μS/cm) | (mg/L) | (NTU) | (mV) | (mg/L) | (mg/L) | (mg/L) |
| 12:16 PM | STA | 27 (| PUR | 6E | | | | | - " | |
| 12:19 pm | 4 | 657 | 18,77 | 624 | 3.74 | 166 | 83 | | | |
| 12:22 PM | 46 | 6142 | 14.71 | 641 | 290 | 144 | 77 | | | |
| 12:25 PM | 12 | 6.34 | 18.20 | 640 | 252 | 124 | 70 | | | |
| 72:20 PM | 16 | 6.32 | 14.21 | 645 | 2,39 | 134 | 64 | | | |
| 12:32 PM | SAY | MPL | =5 | | | | | Ø | Ø | Ø |
| | | | | | | | | | | 1 |
| | | | | | | | | | | |



| Well No.: | M | W l | <u>[</u> | | Project N | No.: | 2331 |
|--------------------------|----------|------------|----------|-----|-----------|-----------|--------------------------|
| Casing Diameter: | | <u>Z.</u> | inches | | Address | : | 3609 International Blvd. |
| Depth of Well: | 25 | 10 | feet | | | | Oakland, CA |
| Top of Casing Elevation: | -N | 15 | feet | | Date: | • | April 6 🗶 2006 |
| Depth to Groundwater: | 7. | 72 | feet | | Sampler | : | John Lohman |
| Groundwater Elevation: | <u>N</u> | _ | feet | | • | | Mehran Nowroozi |
| Water Column Height: | 1451 | 34 | feet | | | | |
| Purged Volume: | | V | gallons | | | | |
| Purging Method: | | | Bailer | | Pump | - | |
| Sampling Method: | | | Bailer | | Pump | | |
| | | | | | | | |
| Color: | No | \nearrow | | Yes | | Describe: | |
| Sheen: | No | 4 | | Yes | | Describe: | |
| Odor: | No | 4 | | Yes | | Describe: | |

| Time | Vol (gallons) | pН | Temp (°C) | E.C. (μS/cm) | D.O. (mg/L) | Turbidity (NTU) | ORP (mV) | Fe ⁺² (mg/L) | NO3 ⁻¹ (mg/L) | SO ₄ -2 (mg/L) |
|----------|------------------|------|--------------|-----------------|----------------|--------------------|-------------|----------------------------|-----------------------------|------------------------------|
| 2',5) PM | 500 | RT | PU | RG | M. | | _ | | | |
| 2:54 Pm | 4 | 6.36 | 17.98 | 465 | 13.67 | 1543 | 118 | | | |
| 2:5TPM | ч | 6.43 | 16.19 | 556 | 6.12 | 714 | 16 | | | _ |
| 3:00 Pm | 12 | 6.92 | 18.34 | 517 | 451 | 603 | 115 | | | |
| 3'.04 pm | 16 | 6.41 | 18.41 | 547 | 3.89 | 591 | 1/4 | | | _ |
| 3'.06pm | 5 PM | mPL | E 5 | | | | | 0 | d | d |
| | | | | | | | | 7 | 1 | |
| | | | | | | | | _ | | |



| Well No.: | MW | 12 | _ | | Project I | No.: | 2331 |
|--------------------------|--------------|-------------|---------|-------|-----------|------------|--------------------------|
| Casing Diameter: | 4 | | inches | | Address |) : | 3609 International Blvd. |
| Depth of Well: | 29: | | feet | | | , | Oakland, CA |
| Top of Casing Elevation: | <u>36. </u> | 84 | feet | | Date: | | April 67, 2006 |
| Depth to Groundwater: | 7. | 12 | feet | | Sampler | : | John Lohman |
| Groundwater Elevation: | <u> 28.9</u> | 12 | feet | | | | Mehran Nowroozi |
| Water Column Height: 2 | 1.7 | 18 | feet | | | | |
| Purged Volume: | <u>4</u> | 17 | gallons | | | | |
| | | | | | | | |
| Purging Method: | | | Bailer | | Pump | • | |
| Sampling Method: | | | Bailer | | Pump | | |
| Onlaw | NI- | ~ ∕. | | V | | | |
| Color: | No | 7 | | Yes 🗆 | | Describe: | |
| Sheen: | No | * | | Yes □ | | Describe: | · |
| Odor: | No | / _ | | Yes 🏂 | | Describe: | not yas |
| | | | | | | | - |

| Time | Vol (gallons) | pН | Temp (°C) | E.C. (μS/cm) | D.O. (mg/L) | Turbidity (NTU) | ORP (mV) | Fe ⁺² (mg/L) | NO3 ⁻¹ (mg/L) | SO ₄ ⁻² (mg/L) |
|----------|------------------|------|--------------|-----------------|----------------|--------------------|-------------|----------------------------|-----------------------------|---|
| 11:28 AM | STA | RT | Ри | RGE | Ē | | | _ | | |
| 11:34 AM | €_ | 7.73 | 19.34 | 625 | 3.64 | 46.8 | 47 | | | |
| 11:40 pm | 16 | 7.08 | 19.30 | 609 | 2.87 | 52.2 | -22 | | | |
| 11:46 Am | 84 | 6.75 | 19.33 | 605 | 7.56 | 56.1 | ~37 | | | |
| 11:52 pm | 32 | 6,52 | 1936 | 605 | 730 | 55.4 | -40 | | | |
| 11:58 Am | 40 | 6 44 | 19.36 | 605 | 2.17 | 61.3 | -42 | | | |
| 12:00 8m | 3 B1 | mPL | ピク | _ | | | | 1.91 | Ø | 8 |
| | | | | | | | | | | |



| Well No.: RBC F | <u>. D. C</u> | enk | | Project | No.: | 2331 |
|--------------------------|---------------|----------------|-------------|---------|-----------|--------------------------|
| Casing Diameter: | 6 | inche | s | Address | s: | 3609 International Blvd. |
| Depth of Well: | | feet | | | | Oakland, CA |
| Top of Casing Elevation: | | | | Date: | | April 6, 2006 |
| Depth to Groundwater: | | 60 feet | | Sample | r: | John Lohman |
| Groundwater Elevation: | 25. | 75 feet | | | | Mehran Nowroozi |
| Water Column Height: | | feet | | | | |
| Purged Volume: | | gallo | ns | | | |
| | not | purges | > | | | |
| Purging Method: | | Baile | er 🗆 | Pump | | |
| Sampling Method: | | Baile | er = | Pump | - | |
| Color: | No | | Yes | | Describe: | |
| Sheen: | No | | Yes | | Describe: | |
| Odor: | No | D | Yes | | Describe: | |
| | | | | | | |

| Time | Voi (galions) | рΗ | Temp (°C) | E.C. (μS/cm) | D.O. (mg/L) | Turbidity (NTU) | ORP (mV) | Fe ⁺² (mg/L) | NO3 ⁻¹ (mg/L) | SO ₄ -2 (mg/L) |
|------|------------------|----|--------------|-----------------|----------------|--------------------|-------------|----------------------------|-----------------------------|------------------------------|
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| Well No.: 130 | <u> </u> | EAS | 7 | | | Project N | No.: | 2331 |
|--------------------------|----------|-------------|---------|-----|----------|-----------|-----------|--------------------------|
| Casing Diameter: | | <u>_</u> | inches | | | Address | : | 3609 International Blvd. |
| Depth of Well: | | | feet | | | | | Oakland, CA |
| Top of Casing Elevation: | | | feet | | | Date: | | April 6, 2006 |
| Depth to Groundwater: | 11.3 | | feet | | | Sampler | : | John Lohman |
| Groundwater Elevation: | 28.7 | 76 <u> </u> | feet | | | | | Mehran Nowroozi |
| Water Column Height: | | · | feet | | | | | |
| Purged Volume: | | | gallons | | | | | |
| | not | pu | rges | | | | | |
| Purging Method: | | | Bailer | | | Pump | | |
| Sampling Method: | | | Bailer | | | Pump | | |
| Color: | No | | | Yes | 0 | | Describe: | |
| Sheen: | No | | | Yes | | | Describe: | · |
| Odor: | No | | | Yes | - | | Describe: | |

| Time | Vol (gallons) | рН | Temp (°C) | E.C. (μS/cm) | D.O. (mg/L) | Turbidity (NTU) | ORP (mV) | Fe ⁺² (mg/L) | NO3 ⁻¹ (mg/L) | SO₄⁻² (mg/L) |
|------|------------------|----|--------------|-----------------|----------------|--------------------|-------------|----------------------------|-----------------------------|-----------------|
| | | | | | _ | | | | | |
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| Well No.: /i3- | <u>F. D.</u> | we | | | | Project | No.: | 2331 |
|--------------------------|--------------|----|---------|-----|---|---------|-----------|--------------------------|
| Casing Diameter: | 6 | | inches | | | Address | s: | 3609 International Blvd. |
| Depth of Well: | | | feet | | | | | Oakland, CA |
| Top of Casing Elevation: | 39. | 16 | feet | | | Date: | | April 6, 2006 |
| Depth to Groundwater: | /2. | 80 | feet | | | Sample | r: | John Lohman |
| Groundwater Elevation: | 26. | 36 | feet | | | | | Mehran Nowroozi |
| Water Column Height: | | _ | feet | | | | | |
| Purged Volume: | | | gallons | | | | | |
| | not | P | wyes | | | | | |
| Purging Method: | | | Bailer | | | Pump | • | |
| Sampling Method: | | | Bailer | | | Pump | | |
| Color: | No | | | Yes | _ | | Describe: | |
| Sheen: | No | | | Yes | | | Describe: | |
| Odor: | No | | | Yes | | | Describe: | |
| | | | | | | | | |

| Time | Vol (gallons) | pН | Temp (°C) | E.C. (μS/cm) | D.O. (mg/L) | Turbidity (NTU) | ORP (mV) | Fe ⁺² (mg/L) | NO3 ⁻¹ (mg/L) | SO ₄ -2 (mg/L) |
|----------|------------------|----|--------------|-----------------|----------------|--------------------|-------------|----------------------------|-----------------------------|------------------------------|
| | | | | | | | | | | |
| <u> </u> | | | | | | _ | | | | |
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Appendix C

Chain of Custody Form and Laboratory Report for the Second Quarter 2006 Monitoring Event

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

PAL Login# 6040003

| roje | ct No: 2331 | | | Sa | mple | er: Jo | ohn Lohman | / Mel | nran | Nov | vrooz | i | | | Analy | ses/N | letho | d |
|------------|----------------------------|----------|-----------|----------|-------|--------|------------------------|-------|--------------------|------------------|-------|----------------|--------------|----------------|-------|-------------|-------|----|
| Proje | ct Name: 3609 In Oaklan | | Blvd | Re | port | To: | Tony Perin | i | | | | | | MtBE | | | | |
| | | | | Co | mp | any: | SOMA En | viror | ımeı | ntal | Engi | ineering, Inc. | | | | | | |
| Γurn | around Time: S | tandard | | Te Fa | | | -734-6400 -734-6401 | | | | | | | BTEX, | | | | |
| | | Sampling | Date/Time | N | Iatri | X | # of Containers | 1 | Prese | rvati | ves | | | TPHg, 8260B | | | | |
| .ab No. | Sample ID | Date | Time | Soil | Water | Waste | | HCL | H ₂ So4 | HNO ₃ | ICE | Fi | eld Notes | | | | | |
| | MW-1 | 417106 | 11:46 Am | | X | | 4 VOAS | Х | | | X | Grab Sample | | X | | | | |
| | MW-2 | 417106 | 2:070m | | X | | 4 VOAS | X | | | X | -1 | | X | | | | |
| | MW-3 | 417/06 | 2:45PM | | X | | 4 VOAS | X | | | X | | | X | | | | |
| | MW-4R | 416106 | | | X | | 4 VOAS | X | | | X | | | X | | | | - |
| | MW-5 | 417106 | 1050 Am | | X | | 4 VOAS | X | | | X | | | X | | | | |
| | MW-6 | 4/7/06 | 1:06 Pm | | X | | 4 VOAS | X | | | X | | | X | | | | |
| | MW-7 | 4/7/06 | 10:06 Am | | X | | 4 VOAS | X | | | X | | | X | | | | |
| | MW-8 | 416106 | | | X | | 4 VOAS | X | | | X | | | X | | | | |
| | MW-10 | 416106 | 1232 PM | | X | | 4 VOAS | X | | | X | | | X | | | | |
| | MW-11 | 416106 | 306 pm | | X | | 4 VOAS | X | | | X | | | X | | | | |
| | MW-12 | 1416106 | 1200pm | | X | | 4 VOAS | X | | | X | V | | X | | | | |
| am | oler Remarks: | | | | | | Relinquis | hed | by: | - | Dat | e/Time: | Received by: | | | Date | /Tjim | e: |
| -0- | REQUIRED | | | | | | Mifle | 1 | | | 417 | LLD PM | Jamos Zu | nig | | Date 4(7 | 106 | PM |

20 April 2006

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

RE: 3609 International Blvd., Oakland

Work Order Number: 6040003

Mapad Ach

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

Sincerely,

Maiid Akhavan

Laboratory Director



6620 Owens Drive, Suite AProject Number: 2331Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr20-Apr-06 10:11

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|-----------------|-----------------|
| MW-1 | 6040003-01 | Water | 07-Apr-06 11:46 | 07-Apr-06 15:51 |
| MW-2 | 6040003-02 | Water | 07-Apr-06 14:07 | 07-Apr-06 15:51 |
| MW-3 | 6040003-03 | Water | 07-Apr-06 14:45 | 07-Apr-06 15:51 |
| MW-4R | 6040003-04 | Water | 06-Apr-06 13:46 | 07-Apr-06 15:51 |
| MW-5 | 6040003-05 | Water | 07-Apr-06 10:50 | 07-Apr-06 15:51 |
| MW-6 | 6040003-06 | Water | 07-Apr-06 13:06 | 07-Apr-06 15:51 |
| MW-7 | 6040003-07 | Water | 07-Apr-06 10:06 | 07-Apr-06 15:51 |
| MW-8 | 6040003-08 | Water | 06-Apr-06 13:15 | 07-Apr-06 15:51 |
| MW-10 | 6040003-09 | Water | 06-Apr-06 12:32 | 07-Apr-06 15:51 |
| MW-11 | 6040003-10 | Water | 06-Apr-06 15:06 | 07-Apr-06 15:51 |
| MW-12 | 6040003-11 | Water | 06-Apr-06 12:00 | 07-Apr-06 15:51 |



6620 Owens Drive, Suite AProject Number: 2331Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr20-Apr-06 10:11

Volatile Organic Compounds by EPA Method 8260B Pacific Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------------|-------------------|--------------------|------------|----------|---------|-----------|-----------|-----------|-------|
| MW-1 (6040003-01) Water Sampled: 07- | Apr-06 11:46 Rece | | 06 15:51 | | | • | | | |
| Gasoline (C6-C12) | 42500 | 1080 | ug/l | 21.5 | BD61001 | 07-Apr-06 | 07-Apr-06 | EPA 8260B | |
| Benzene | 1780 | 10.8 | " | " | " | " | " | " | |
| Ethylbenzene | 1610 | 10.8 | " | " | " | " | " | " | |
| m&p-Xylene | 1660 | 21.5 | " | " | " | " | " | " | |
| o-xylene | 789 | 10.8 | " | " | " | " | " | " | |
| Toluene | 1010 | 43.0 | " | " | " | " | " | " | |
| MTBE | 2110 | 10.8 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 101 % | 70- | 130 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 101 % | 70- | 130 | " | " | " | " | |
| Surrogate: Perdeuterotoluene | | 105 % | 70- | 130 | " | " | " | " | |
| MW-2 (6040003-02RE1) Water Sampled | : 07-Apr-06 14:07 | Received: 07-A | Apr-06 15: | 51 | | | | | |
| Gasoline (C6-C12) | 6160 | 215 | ug/l | 4.3 | BD61001 | 07-Apr-06 | 10-Apr-06 | EPA 8260B | |
| Benzene | 24.0 | 2.15 | " | " | " | " | " | " | |
| Ethylbenzene | 385 | 2.15 | " | " | " | " | " | " | |
| m&p-Xylene | 328 | 4.30 | " | " | " | " | " | " | |
| o-xylene | 146 | 2.15 | " | " | " | " | " | " | |
| Toluene | 84.8 | 8.60 | " | " | " | " | " | " | |
| MTBE | ND | 2.15 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 107 % | 70- | 130 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 101 % | 70- | 130 | " | " | " | " | |
| Surrogate: Perdeuterotoluene | | 104 % | 70- | 130 | " | " | " | " | |
| MW-3 (6040003-03RE1) Water Sampled | : 07-Apr-06 14:45 | Received: 07-A | Apr-06 15: | 51 | | | | | |
| Gasoline (C6-C12) | 16800 | 215 | ug/l | 4.3 | BD61001 | 07-Apr-06 | 10-Apr-06 | EPA 8260B | |
| Benzene | 677 | 2.15 | " | " | " | ,, | ,, | " | |
| Ethylbenzene | 802 | 2.15 | " | " | " | " | " | " | |
| m&p-Xylene | 734 | 4.30 | " | " | " | " | " | " | |
| o-xylene | 284 | 2.15 | " | " | " | " | " | " | |
| Toluene | 239 | 8.60 | " | " | " | " | " | " | |
| MTBE | 564 | 2.15 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 106 % | 70- | 130 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 100 % | 70- | 130 | " | " | " | " | |
| Surrogate: Perdeuterotoluene | | 101 % | 70- | 130 | " | " | " | " | |

Pacific Analytical Laboratory



6620 Owens Drive, Suite AProject Number: 2331Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr20-Apr-06 10:11

Volatile Organic Compounds by EPA Method 8260B Pacific Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------------------------------------|--------------------|--------------------|-------------|----------|---------|-----------|-----------|-----------|-------|
| | | | | Dilution | Datell | 1 icpaicu | Anaryzeu | wiculou | note |
| MW-4R (6040003-04) Water Sampled: 06 | -Apr-06 13:46 Rec | eived: 07-Ap | r-06 15:51 | | | | | | |
| Gasoline (C6-C12) | 852 | 50.0 | ug/l | 1 | BD61001 | 07-Apr-06 | 07-Apr-06 | EPA 8260B | |
| Benzene | 42.4 | 0.500 | " | " | " | " | " | " | |
| Ethylbenzene | 28.4 | 0.500 | " | " | " | " | " | " | |
| m&p-Xylene | 12.1 | 1.00 | " | " | " | " | " | " | |
| o-xylene | 5.03 | 0.500 | " | " | " | " | " | " | |
| Toluene | 2.25 | 2.00 | " | " | " | " | " | " | |
| MTBE | ND | 0.500 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 105 % | 70-1 | 130 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 99.2 % | 70-1 | 130 | " | " | " | " | |
| Surrogate: Perdeuterotoluene | | 102 % | 70-1 | 130 | " | " | " | " | |
| MW-5 (6040003-05) Water Sampled: 07-A | Apr-06 10:50 Recei | ved: 07-Apr- | 06 15:51 | | | | | | |
| Gasoline (C6-C12) | 449 | 50.0 | ug/l | 1 | BD61001 | 07-Apr-06 | 07-Apr-06 | EPA 8260B | |
| Benzene | ND | 0.500 | " | " | " | " | " | " | |
| Ethylbenzene | 0.530 | 0.500 | " | " | " | " | " | " | |
| m&p-Xylene | ND | 1.00 | " | " | " | " | " | " | |
| o-xylene | ND | 0.500 | " | " | " | " | " | " | |
| Toluene | ND | 2.00 | " | " | " | " | " | " | |
| MTBE | 1.16 | 0.500 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 98.4 % | 70-1 | 130 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 102 % | 70-1 | 130 | " | " | " | " | |
| Surrogate: Perdeuterotoluene | | 104 % | 70-1 | 130 | " | " | " | " | |
| MW-6 (6040003-06RE1) Water Sampled: | 07-Apr-06 13:06 F | Received: 07-A | Apr-06 15:5 | 51 | | | | | |
| Gasoline (C6-C12) | 18200 | 550 | ug/l | 11 | BD61001 | 07-Apr-06 | 10-Apr-06 | EPA 8260B | |
| Benzene | 650 | 5.50 | " | " | " | " | " | " | |
| Ethylbenzene | 918 | 5.50 | " | " | " | " | " | " | |
| m&p-Xylene | 519 | 11.0 | " | " | " | " | " | " | |
| o-xylene | 196 | 5.50 | " | " | " | " | " | " | |
| Toluene | 151 | 22.0 | " | " | " | " | " | " | |
| MTBE | ND | 5.50 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 105 % | 70-1 | 130 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 99.4 % | 70-1 | 130 | " | " | " | " | |
| Surrogate: Perdeuterotoluene | | 103 % | 70-1 | 130 | " | " | " | " | |

Pacific Analytical Laboratory



6620 Owens Drive, Suite AProject Number: 2331Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr20-Apr-06 10:11

Volatile Organic Compounds by EPA Method 8260B Pacific Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Note |
|--------------------------------------|--------------------|--------------------|-------------|----------|---------|-----------|------------|------------|-------|
| MW-7 (6040003-07) Water Sampled: 07- | | | | Dilution | Butch | 1 repared | - mary zod | Wictiou | 11010 |
| Gasoline (C6-C12) | 3440 | 50.0 | ug/l | 1 | BD61001 | 07-Apr-06 | 07-Apr-06 | EPA 8260B | |
| Benzene | 0.640 | 0.500 | ug/1 | " | " | " | " | LI A 0200B | |
| Ethylbenzene | 17.0 | 0.500 | " | " | " | " | " | " | |
| m&p-Xylene | ND | 1.00 | " | " | " | " | " | " | |
| o-xylene | ND | 0.500 | " | " | " | " | " | " | |
| Toluene | ND | 2.00 | " | " | " | " | " | " | |
| MTBE | ND | 0.500 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 110 % | 70-13 | 20 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 96.4 % | 70-13 | 20 | " | " | " | " | |
| Surrogate: Perdeuterotoluene | | 99.8 % | 70-13 | 20 | " | " | " | " | |
| MW-8 (6040003-08) Water Sampled: 06- | Apr-06 13:15 Recei | ved: 07-Apr-0 | 06 15:51 | | | | | | |
| Gasoline (C6-C12) | 8240 | 215 | ug/l | 4.3 | BD61001 | 07-Apr-06 | 07-Apr-06 | EPA 8260B | |
| Benzene | 82.5 | 2.15 | " | " | " | " | " | " | |
| Ethylbenzene | 364 | 2.15 | " | " | " | " | " | " | |
| m&p-Xylene | 24.6 | 4.30 | " | " | " | " | " | " | |
| o-xylene | 3.46 | 2.15 | " | " | " | " | " | " | |
| Toluene | 14.6 | 8.60 | " | " | " | " | " | " | |
| MTBE | 771 | 2.15 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 102 % | 70-13 | 80 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 99.6 % | 70-13 | 80 | " | " | " | " | |
| Surrogate: Perdeuterotoluene | | 104 % | 70-13 | 20 | " | " | " | " | |
| MW-10 (6040003-09RE1) Water Sample | d: 06-Apr-06 12:32 | Received: 07- | Apr-06 15:5 | 51 | | | | | |
| Gasoline (C6-C12) | 600 | 50.0 | ug/l | 1 | BD61001 | 07-Apr-06 | 10-Apr-06 | EPA 8260B | |
| Benzene | 86.5 | 0.500 | " | " | " | " | " | " | |
| Ethylbenzene | 59.1 | 0.500 | " | " | " | " | " | " | |
| m&p-Xylene | 2.36 | 1.00 | " | " | " | " | " | " | |
| o-xylene | ND | 0.500 | " | " | " | " | " | " | |
| Toluene | ND | 2.00 | " | " | " | " | " | " | |
| MTBE | 30.4 | 0.500 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 103 % | 70-13 | 20 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 99.6 % | 70-13 | 20 | " | " | " | " | |
| Surrogate: Perdeuterotoluene | | 102 % | 70-13 | 20 | " | " | " | " | |

Pacific Analytical Laboratory



6620 Owens Drive, Suite AProject Number: 2331Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr20-Apr-06 10:11

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|------------------------------------|--|----------------------------|---|---------|-----------|-----------|-----------|-------|
| MW-11 (6040003-10) Water Sampled: 06 | 5-Apr-06 15:06 Rece | eived: 07-Apr | -06 15:51 | | | | | | |
| Gasoline (C6-C12) | 872 | 50.0 | ug/l | 1 | BD61001 | 07-Apr-06 | 08-Apr-06 | EPA 8260B | |
| Benzene | 19.8 | 0.500 | " | " | " | " | " | " | |
| Ethylbenzene | 37.5 | 0.500 | " | " | " | " | " | " | |
| m&p-Xylene | 3.28 | 1.00 | " | " | " | " | " | " | |
| o-xylene | ND | 0.500 | " | " | " | " | " | " | |
| Toluene | 3.63 | 2.00 | " | " | " | " | " | " | |
| MTBE | ND | 0.500 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 99.0 % | 70-13 | 0 | " | " | " | " | |
| Compositor Dibnomoflyonomothers | | 103 % | 70-13 | 0 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 105/0 | /0-13 | | | | | | |
| Surrogate: Dioromojiuoromeinane Surrogate: Perdeuterotoluene | | 103 % | 70-13 | | " | " | " | " | |
| Surrogate: Perdeuterotoluene MW-12 (6040003-11) Water Sampled: 06 | 6-Apr-06 12:00 Rece 1310 | 103 % | 70-13 -06 15:51 | | BD61001 | | | EPA 8260B | |
| Surrogate: Perdeuterotoluene | | 103 % cived: 07-A pr | 70-13 | | | 07-Apr-06 | 08-Apr-06 | | |
| Surrogate: Perdeuterotoluene MW-12 (6040003-11) Water Sampled: 06 Gasoline (C6-C12) | 1310 | 103 % eived: 07-Apr | 70-13 -06 15:51 ug/l | 1 | BD61001 | 07-Apr-06 | 08-Apr-06 | EPA 8260B | |
| Surrogate: Perdeuterotoluene MW-12 (6040003-11) Water Sampled: 06 Gasoline (C6-C12) Benzene | 1310 ND | 103 % Eived: 07-Apr 50.0 0.500 | 70-13 -06 15:51 ug/l | 1 " | BD61001 | 07-Apr-06 | 08-Apr-06 | EPA 8260B | |
| Surrogate: Perdeuterotoluene MW-12 (6040003-11) Water Sampled: 06 Gasoline (C6-C12) Benzene Ethylbenzene | 1310 ND ND | 103 % Sived: 07-Apr 50.0 0.500 0.500 | 70-13 -06 15:51 ug/l | 1 " | BD61001 | 07-Apr-06 | 08-Apr-06 | EPA 8260B | |
| Surrogate: Perdeuterotoluene MW-12 (6040003-11) Water Sampled: 06 Gasoline (C6-C12) Benzene Ethylbenzene m&p-Xylene | 1310 ND ND ND | 103 % eived: 07-Apr 50.0 0.500 0.500 1.00 | 70-13 -06 15:51 ug/l | 1 " " " " | BD61001 | 07-Apr-06 | 08-Apr-06 | EPA 8260B | |
| Surrogate: Perdeuterotoluene MW-12 (6040003-11) Water Sampled: 06 Gasoline (C6-C12) Benzene Ethylbenzene m&p-Xylene o-xylene | 1310 ND ND ND ND | 103 % eived: 07-Apr 50.0 0.500 0.500 1.00 0.500 | 70-13 | 1 " " " " " " " " " " " " " " " " " " " | BD61001 | 07-Apr-06 | 08-Apr-06 | EPA 8260B | |
| Surrogate: Perdeuterotoluene MW-12 (6040003-11) Water Sampled: 06 Gasoline (C6-C12) Benzene Ethylbenzene m&p-Xylene o-xylene Toluene | 1310 ND ND ND ND ND | 103 % eived: 07-Apr 50.0 0.500 0.500 1.00 0.500 2.00 | 70-13 | 1 " " " " " " " " " " " " " " " " " " " | BD61001 | 07-Apr-06 | 08-Apr-06 | EPA 8260B | |
| Surrogate: Perdeuterotoluene MW-12 (6040003-11) Water Sampled: 06 Gasoline (C6-C12) Benzene Ethylbenzene m&p-Xylene o-xylene Toluene MTBE | 1310 ND ND ND ND ND | 103 % 2ived: 07-Apr 50.0 0.500 0.500 1.00 0.500 2.00 0.500 | 70-13 | 1 """"""""""""""""""""""""""""""""""""" | BD61001 | 07-Apr-06 | 08-Apr-06 | EPA 8260B | |



RPD

Limit

Notes

%REC

Limits

RPD

SOMA Environmental Engineering Inc. Project: 3609 International Blvd., Oakland

Result

6620 Owens Drive, Suite AProject Number: 2331Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr20-Apr-06 10:11

Reporting

Limit

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

Units

Spike

Level

Source

Result

%REC

| Blank (BD61001-BLK1) | | | | Prepared & Anal | lyzed: 10-Apr-06 | | | | |
|---------------------------------|------|-------|------|-----------------|------------------|--------|-------|----|--|
| Surrogate: 4-Bromofluorobenzene | 50.8 | | ug/l | 50.0 | 102 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 49.2 | | " | 50.0 | 98.4 | 70-130 | | | |
| Surrogate: Perdeuterotoluene | 51.4 | | " | 50.0 | 103 | 70-130 | | | |
| Gasoline (C6-C12) | ND | 50.0 | " | | | | | | |
| Benzene | ND | 0.500 | " | | | | | | |
| Ethylbenzene | ND | 0.500 | " | | | | | | |
| m&p-Xylene | ND | 1.00 | " | | | | | | |
| o-xylene | ND | 0.500 | " | | | | | | |
| Toluene | ND | 2.00 | " | | | | | | |
| MTBE | ND | 0.500 | " | | | | | | |
| LCS (BD61001-BS1) | | | | Prepared & Anal | lyzed: 10-Apr-06 | | | | |
| Surrogate: 4-Bromofluorobenzene | 51.4 | | ug/l | 50.0 | 103 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 47.7 | | " | 50.0 | 95.4 | 70-130 | | | |
| Surrogate: Perdeuterotoluene | 50.1 | | " | 50.0 | 100 | 70-130 | | | |
| Gasoline (C6-C12) | 2400 | 50.0 | " | 2000 | 120 | 70-130 | | | |
| Benzene | 108 | 0.500 | " | 100 | 108 | 70-130 | | | |
| Toluene | 113 | 2.00 | " | 100 | 113 | 70-130 | | | |
| MTBE | 103 | 0.500 | " | 100 | 103 | 70-130 | | | |
| LCS Dup (BD61001-BSD1) | | | | Prepared & Anal | lyzed: 10-Apr-06 | | | | |
| Surrogate: 4-Bromofluorobenzene | 52.3 | | ug/l | 50.0 | 105 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 46.7 | | " | 50.0 | 93.4 | 70-130 | | | |
| Surrogate: Perdeuterotoluene | 48.4 | | " | 50.0 | 96.8 | 70-130 | | | |
| Gasoline (C6-C12) | 2280 | 50.0 | " | 2000 | 114 | 70-130 | 5.13 | 20 | |
| Benzene | 109 | 0.500 | " | 100 | 109 | 70-130 | 0.922 | 20 | |
| Toluene | 112 | 2.00 | " | 100 | 112 | 70-130 | 0.889 | 20 | |
| MTBE | 101 | 0.500 | " | 100 | 101 | 70-130 | 1.96 | 20 | |

Analyte



6620 Owens Drive, Suite AProject Number: 2331Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr20-Apr-06 10:11

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

:C:\MSDChem\1\DATA\2006-Apr-07-1404.b\07040602.D File

Operator

Acquired : 7 Apr 2006 2:58 pm using AcqMethod OXY21506.M

Instrument : PAL GCMS Sample Name: BD61001-BLK1



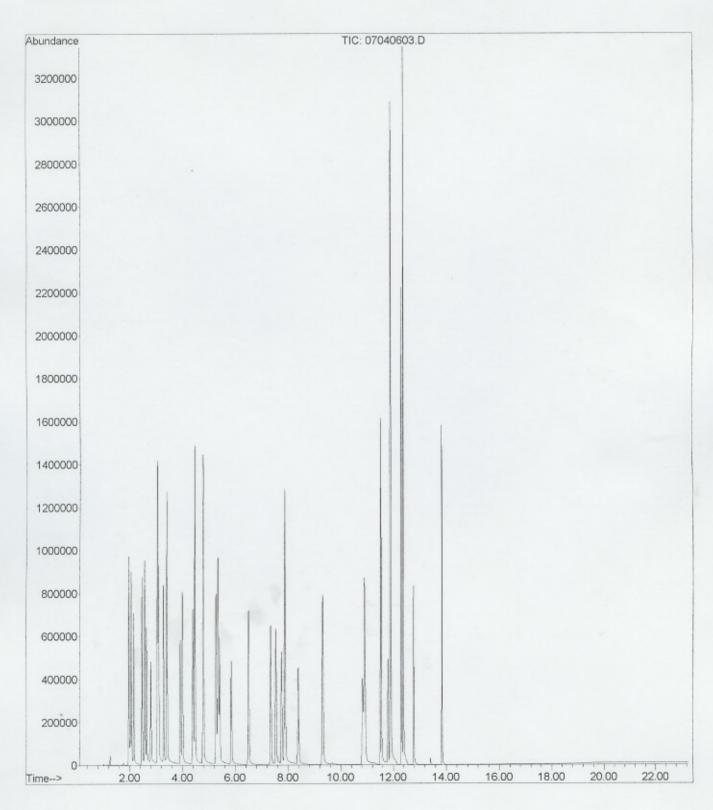
File :C:\MSDChem\1\DATA\2006-Apr-07-1404.b\07040603.D

Operator

Acquired : 7 Apr 2006 3:30 pm using AcqMethod OXY21506.M

Instrument : PAL GCMS

Sample Name: BD61001-BS1@voc

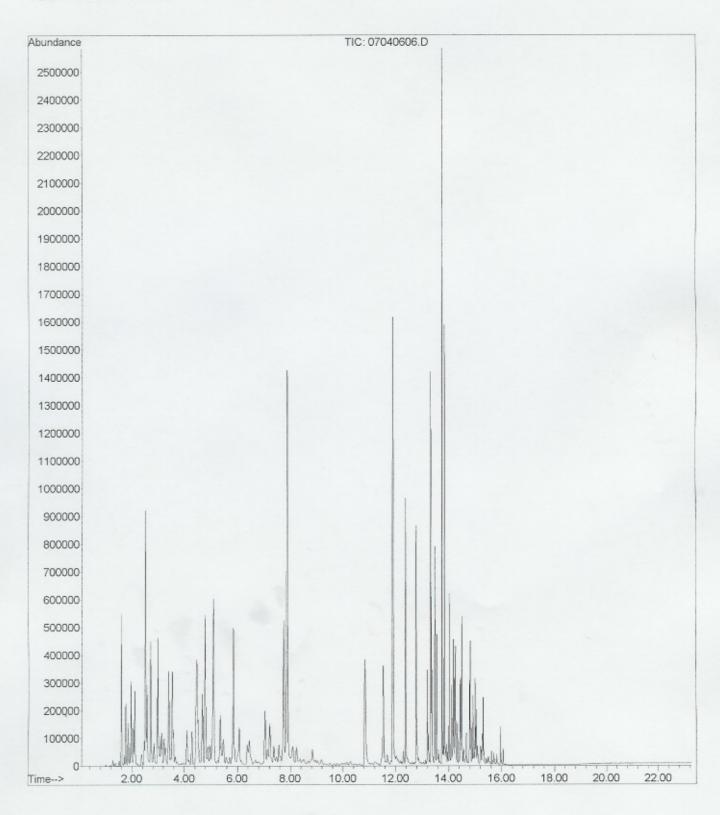


File :C:\MSDChem\1\DATA\2006-Apr-07-1404.b\07040606.D

Operator

Acquired : 7 Apr 2006 5:16 pm using AcqMethod OXY21506.M

Instrument : PAL GCMS Sample Name: BD61001-BS1@gas



Appendix D

Chain of Custody Forms and Laboratory Reports for the

Groundwater Extraction Treatment System

CHAIN OF CUSTODY FORM

Page _ of _

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

PAL Login# 603000%

| | | | | | Sampler: Mehran Nowroozi | | | | | | | | Analyses/Method | | | | | |
|------------|----------------------|----------|-----------|------------|--------------------------|-------|------------------------|-------|---------------------------------|-------|-----|----------------|--|----------------|-----|--------|---|------|
| Project | Name: 3609 In Oak | | Blvd. | Re | port | To: | Tony Perin | i | | | | | | MtBE | | | | |
| | | | | Co | mpa | any: | SOMA En | viror | nme | ntal | Eng | ineering, Inc. | | × | | | | |
| Turnar | round Time: S | tandard | | Tel Fa: | | | -734-6400 -734-6401 | | | | | | | втех, | | | | |
| | | Sampling | Date/Time | N | latri | x | # of Containers | 1 | rese | rvati | ves | | | TPHg, 8260B | | | | |
| Lab No. | Sample ID | Date | Time | Soil | Water | Waste | | нсг | H ₂ S ₀ 4 | HNO3 | ICE | F | ield Notes | | | | | |
| 1 | Influent | 3,10,06 | 1:10 81 | | + | | 3-VOAs | | | | * | Grab Sample | Name of the last o | | | | | |
| (| GAC-1 | 3,10,06, | 110584 | | * | | 3-VOAs | + | | | * | Grab Sample | | | | | | |
| | PSP-1 | 3,10,06 | 1:00 81 | | * | | 3-VOAs | * | | | * | Grab Sample | | * | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | - | - | - |
| | | | | | ,,, | | | | | | | | | | | | - | |
| | er Remarks: | | | | | | Relinquisl | hed I | oy: | | Dat | e/Time: | Received by: | | Dat | e/Tir | | |
| EDF (| Output Requi | ed | | | | | Je. 100 | ne | | ^ | 3/ | 2:15pm | June Zu | ng | 3/ | 2/10/0 | 6 | Spry |

28 March 2006

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

RE: 3609 International Blvd, Oakland

Work Order Number: 6030008

Mapad Ach

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

Sincerely,

Maiid Akhavan

Laboratory Director



6620 Owens Drive, Suite AProject Number: 2333Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr28-Mar-06 14:17

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|-----------------|-----------------|
| Influent | 6030008-01 | Water | 10-Mar-06 13:10 | 10-Mar-06 14:59 |
| GAC-1 | 6030008-02 | Water | 10-Mar-06 13:05 | 10-Mar-06 14:59 |
| PSP-1 | 6030008-03 | Water | 10-Mar-06 13:00 | 10-Mar-06 14:59 |



6620 Owens Drive, Suite A Project Number: 2333 Reported:
Pleasanton CA, 94588 Project Manager: Mansour Sepehr 28-Mar-06 14:17

Volatile Organic Compounds by EPA Method 8260B Pacific Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------------------|--------------------|------------|----------|---------|-----------|-----------|-----------|-------|
| Influent (6030008-01) Water Sampled: 10 | -Mar-06 13:10 Rec | ceived: 10-Ma | r-06 14:59 | | | | | | |
| Gasoline (C6-C12) | 3600 | 550 | ug/l | 11 | BC61402 | 10-Mar-06 | 10-Mar-06 | EPA 8260B | |
| Benzene | 1370 | 5.50 | " | " | " | " | " | " | |
| Ethylbenzene | 13.8 | 5.50 | " | " | " | " | " | " | |
| m&p-Xylene | 152 | 11.0 | " | " | " | " | " | " | |
| o-xylene | 58.2 | 5.50 | " | " | " | " | " | " | |
| Toluene | 46.3 | 22.0 | " | " | " | " | " | " | |
| MTBE | 318 | 5.50 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 101 % | 70-13 | 0 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 103 % | 70-13 | 0 | " | " | " | " | |
| Surrogate: Perdeuterotoluene | | 98.4 % | 70-13 | 0 | " | " | " | " | |
| GAC-1 (6030008-02) Water Sampled: 10- | Mar-06 13:05 Rec | eived: 10-Mar | -06 14:59 | | | | | | |
| Gasoline (C6-C12) | ND | 50.0 | ug/l | 1 | BC61402 | 10-Mar-06 | 10-Mar-06 | EPA 8260B | |
| Benzene | ND | 0.500 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.500 | " | " | " | " | " | " | |
| m&p-Xylene | ND | 1.00 | " | " | " | " | " | " | |
| o-xylene | ND | 0.500 | " | " | " | " | " | " | |
| Toluene | ND | 2.00 | " | " | " | " | " | " | |
| MTBE | ND | 0.500 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 97.0 % | 70-13 | 0 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 105 % | 70-13 | 0 | " | " | " | " | |
| Surrogate: Perdeuterotoluene | | 98.8 % | 70-13 | 0 | " | " | " | " | |
| PSP-1 (6030008-03) Water Sampled: 10-M | Iar-06 13:00 Recei | ived: 10-Mar- | 06 14:59 | | | | | | |
| Gasoline (C6-C12) | ND | 50.0 | ug/l | 1 | BC61402 | 10-Mar-06 | 10-Mar-06 | EPA 8260B | |
| Benzene | ND | 0.500 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.500 | " | " | " | " | " | " | |
| m&p-Xylene | ND | 1.00 | " | " | " | " | " | " | |
| o-xylene | ND | 0.500 | " | " | " | " | " | " | |
| Toluene | ND | 2.00 | " | " | " | " | " | " | |
| MTBE | ND | 0.500 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 97.2 % | 70-13 | 0 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 106 % | 70-13 | 0 | " | " | " | " | |
| Surrogate: Perdeuterotoluene | | 98.6 % | 70-13 | 0 | " | " | " | " | |

Pacific Analytical Laboratory



6620 Owens Drive, Suite AProject Number: 2333Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr28-Mar-06 14:17

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

| | | R | Reporting | | | | | | | |
|---|------------|------|-----------|-------|----------|-------|----------|----------|--------|-------|
| A | nalyte Res | sult | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |



RPD

Limit

Notes

%REC

Limits

RPD

SOMA Environmental Engineering Inc. Project: 3609 International Blvd, Oakland

Result

6620 Owens Drive, Suite AProject Number: 2333Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr28-Mar-06 14:17

Reporting

Limit

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

Units

Spike

Level

Source

Result

%REC

| Blank (BC61402-BLK1) | | Prepared & Analyzed: 14-Mar-06 | | | | | | | | | | | |
|---------------------------------|------|--------------------------------|------|-----------------|------------------|--------|------|----|------|--|--|--|--|
| Surrogate: 4-Bromofluorobenzene | 50.0 | | ug/l | 50.0 | 100 | 70-130 | | | | | | | |
| Surrogate: Dibromofluoromethane | 49.2 | | " | 50.0 | 98.4 | 70-130 | | | | | | | |
| Surrogate: Perdeuterotoluene | 49.3 | | " | 50.0 | 98.6 | 70-130 | | | | | | | |
| Gasoline (C6-C12) | ND | 50.0 | " | | | | | | | | | | |
| Benzene | ND | 0.500 | " | | | | | | | | | | |
| Ethylbenzene | ND | 0.500 | " | | | | | | | | | | |
| m&p-Xylene | ND | 1.00 | " | | | | | | | | | | |
| o-xylene | ND | 0.500 | " | | | | | | | | | | |
| Toluene | ND | 2.00 | " | | | | | | | | | | |
| MTBE | ND | 0.500 | " | | | | | | | | | | |
| LCS (BC61402-BS1) | | | | Prepared & Anal | lyzed: 14-Mar-06 | 6 | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 51.5 | | ug/l | 50.0 | 103 | 70-130 | | | - | | | | |
| Surrogate: Dibromofluoromethane | 45.7 | | " | 50.0 | 91.4 | 70-130 | | | | | | | |
| Surrogate: Perdeuterotoluene | 48.5 | | " | 50.0 | 97.0 | 70-130 | | | | | | | |
| Gasoline (C6-C12) | 2030 | 50.0 | " | 2000 | 102 | 70-130 | | | | | | | |
| Benzene | 98.3 | 0.500 | " | 100 | 98.3 | 70-130 | | | | | | | |
| Toluene | 96.1 | 2.00 | " | 100 | 96.1 | 70-130 | | | | | | | |
| MTBE | 78.4 | 0.500 | " | 100 | 78.4 | 70-130 | | | | | | | |
| LCS Dup (BC61402-BSD1) | | | | Prepared & Anal | lyzed: 14-Mar-06 | 5 | | | | | | | |
| Surrogate: 4-Bromofluorobenzene | 49.5 | | ug/l | 50.0 | 99.0 | 70-130 | | | | | | | |
| Surrogate: Dibromofluoromethane | 51.8 | | " | 50.0 | 104 | 70-130 | | | | | | | |
| Surrogate: Perdeuterotoluene | 50.0 | | " | 50.0 | 100 | 70-130 | | | | | | | |
| Gasoline (C6-C12) | 2030 | 50.0 | " | 2000 | 102 | 70-130 | 0.00 | 20 | | | | | |
| Benzene | 119 | 0.500 | " | 100 | 119 | 70-130 | 19.1 | 20 | | | | | |
| Toluene | 117 | 2.00 | " | 100 | 117 | 70-130 | 19.6 | 20 | | | | | |
| MTBE | 119 | 0.500 | " | 100 | 119 | 70-130 | 41.1 | 20 | QR-0 | | | | |

Analyte



6620 Owens Drive, Suite AProject Number: 2333Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr28-Mar-06 14:17

Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch

were accepted based on percent recoveries and completeness of QC data.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

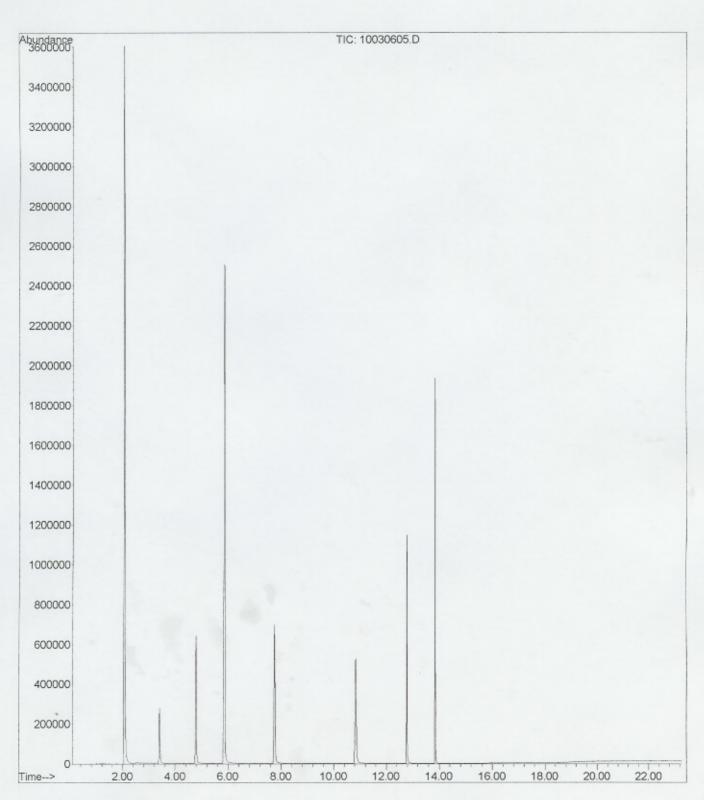
RPD Relative Percent Difference

File :C:\MSDChem\1\DATA\2006-Mar-10-1009.b\10030605.D

Operator

Operator : Acquired : 10 Mar 2006 1:16 pm using AcqMethod OXY21506.M

Instrument : PAL GCMS Sample Name: BC61402-BLK1

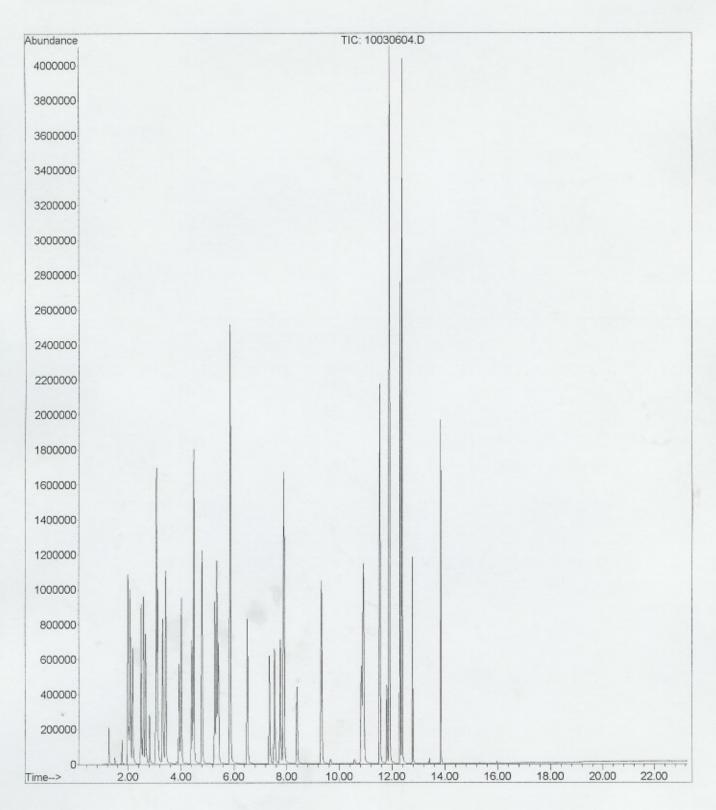


File :C:\MSDChem\1\DATA\2006-Mar-10-1009.b\10030604.D

Operator

Acquired : 10 Mar 2006 12:45 pm using AcqMethod OXY21506.M

Instrument : PAL GCMS Sample Name: BC61402-BS1@voc



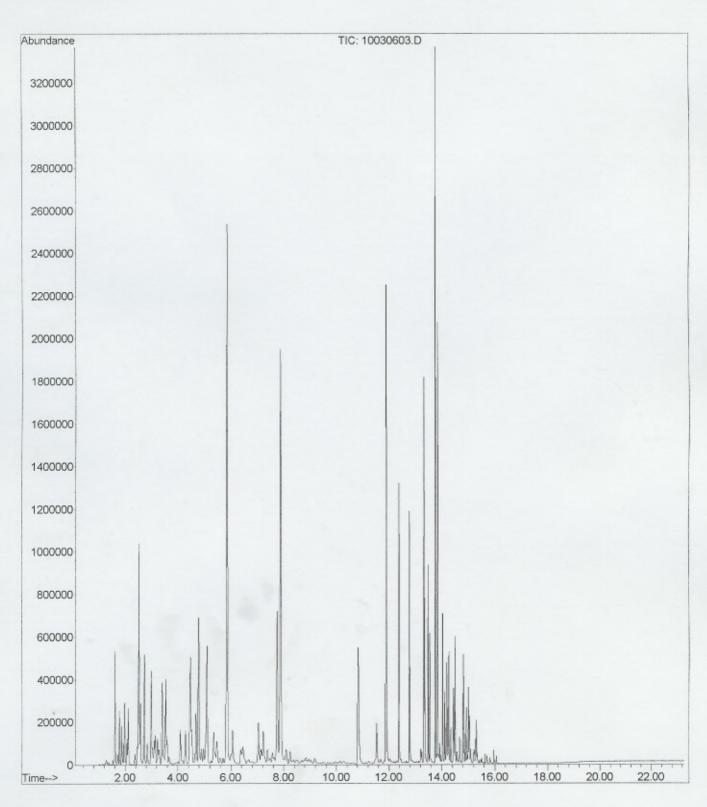
File :C:\MSDChem\1\DATA\2006-Mar-10-1009.b\10030603.D

Operator

Operator : Acquired : 10 Mar 2006 12:13 pm using AcqMethod OXY21506.M

Instrument : PAL GCMS

Sample Name: BC61402-BS1@gas



23 February 2006

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

RE: 3609 International Blvd, Oakland

Work Order Number: 6020011

Mapad Ach

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

Sincerely,

Maiid Akhavan

Laboratory Director



6620 Owens Drive, Suite AProject Number: 2333Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr23-Feb-06 11:07

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|-----------------|-----------------|
| Influent | 6020011-01 | Water | 10-Feb-06 14:40 | 10-Feb-06 15:30 |
| GAC-1 | 6020011-02 | Water | 10-Feb-06 14:35 | 10-Feb-06 15:30 |
| Effluent | 6020011-03 | Water | 10-Feb-06 14:30 | 10-Feb-06 15:30 |



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Volatile Organic Compounds by EPA Method 8260B Pacific Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|-------------------|--------------------|---|----------|---------|-----------|-----------|-----------|-------|
| Influent (6020011-01) Water Sampled: 10- | Feb-06 14:40 Rec | eived: 10-Feb | t Units Dilution Batch Prepared Analyzed Method Notes eb-06 15:30 5 | | | | | | |
| Gasoline (C6-C12) | 4100 | 215 | ug/l | 4.3 | BB62201 | 13-Feb-06 | 21-Feb-06 | EPA 8260B | |
| Benzene | 1150 | 2.15 | " | " | " | " | " | " | |
| Ethylbenzene | 18.4 | 2.15 | " | " | " | " | " | " | |
| m&p-Xylene | 158 | 4.30 | " | " | " | " | " | " | |
| o-xylene | 40.4 | 2.15 | " | " | " | " | " | " | |
| Toluene | 38.8 | 8.60 | " | " | " | " | " | " | |
| MTBE | 279 | 2.15 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 99.4 % | 70-13 | 0 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 101 % | 70-13 | 0 | " | " | " | " | |
| Surrogate: Perdeuterotoluene | | 99.0 % | 70-13 | 0 | " | " | " | " | |
| GAC-1 (6020011-02) Water Sampled: 10-F | Feb-06 14:35 Rece | ived: 10-Feb- | 06 15:30 | | | | | | |
| Gasoline (C6-C12) | ND | 50.0 | ug/l | 1 | BB62201 | 13-Feb-06 | 21-Feb-06 | EPA 8260B | |
| Benzene | ND | 0.500 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.500 | " | " | " | " | " | " | |
| m&p-Xylene | ND | 1.00 | " | " | " | " | " | " | |
| o-xylene | ND | 0.500 | " | " | " | " | " | " | |
| Toluene | ND | 2.00 | " | " | " | " | " | " | |
| MTBE | ND | 0.500 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 97.6 % | 70-13 | 0 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 102 % | 70-13 | 0 | " | " | " | " | |
| Surrogate: Perdeuterotoluene | | 99.4 % | 70-13 | 0 | " | " | " | " | |
| Effluent (6020011-03) Water Sampled: 10- | Feb-06 14:30 Rec | eived: 10-Feb | -06 15:30 | | | | | | |
| Gasoline (C6-C12) | ND | 50.0 | ug/l | 1 | BB62201 | 13-Feb-06 | 21-Feb-06 | EPA 8260B | |
| Benzene | ND | 0.500 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.500 | " | " | " | " | " | " | |
| m&p-Xylene | ND | 1.00 | " | " | " | " | " | " | |
| o-xylene | ND | 0.500 | " | " | " | " | " | " | |
| Toluene | ND | 2.00 | " | " | " | " | " | " | |
| MTBE | ND | 0.500 | " | " | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | | 97.0 % | 70-13 | 0 | " | " | " | " | |
| Surrogate: Dibromofluoromethane | | 102 % | 70-13 | 0 | " | " | " | " | |
| Surrogate: Perdeuterotoluene | | 98.8 % | 70-13 | 0 | " | " | " | " | |

Pacific Analytical Laboratory



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Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

| | | R | Reporting | | | | | | | |
|---|------------|------|-----------|-------|----------|-------|----------|----------|--------|-------|
| A | nalyte Res | sult | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |



RPD

%REC

SOMA Environmental Engineering Inc. Project: 3609 International Blvd, Oakland

6620 Owens Drive, Suite AProject Number: 2333Reported:Pleasanton CA, 94588Project Manager: Mansour Sepehr23-Feb-06 11:07

Reporting

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

Spike

Source

| Analyte | Result | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
|-----------------------------------|--------|-------|-------|------------|-----------|-------------|--------|------|-------|--------|
| Thaye | Result | Emit | Onto | Ecver | resuit | / WILLE | Limits | IG D | Limit | 110103 |
| Batch BB62201 - EPA 5030 Water MS | | | | | | | | | | |
| Blank (BB62201-BLK1) | | | | Prepared & | Analyzed: | : 22-Feb-06 | • | | | |
| Surrogate: 4-Bromofluorobenzene | 50.4 | | ug/l | 50.0 | | 101 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 50.4 | | " | 50.0 | | 101 | 70-130 | | | |
| Surrogate: Perdeuterotoluene | 49.7 | | " | 50.0 | | 99.4 | 70-130 | | | |
| Gasoline (C6-C12) | ND | 50.0 | " | | | | | | | |
| Benzene | ND | 0.500 | " | | | | | | | |
| Ethylbenzene | ND | 0.500 | " | | | | | | | |
| m&p-Xylene | ND | 1.00 | " | | | | | | | |
| o-xylene | ND | 0.500 | " | | | | | | | |
| Toluene | ND | 2.00 | " | | | | | | | |
| MTBE | ND | 0.500 | " | | | | | | | |
| LCS (BB62201-BS1) | | | | Prepared & | Analyzed: | : 22-Feb-06 | i | | | |
| Surrogate: 4-Bromofluorobenzene | 48.8 | | ug/l | 50.0 | | 97.6 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 47.0 | | " | 50.0 | | 94.0 | 70-130 | | | |
| Surrogate: Perdeuterotoluene | 47.0 | | " | 50.0 | | 94.0 | 70-130 | | | |
| Gasoline (C6-C12) | 2570 | 50.0 | " | 2000 | | 128 | 70-130 | | | |
| Benzene | 94.5 | 0.500 | " | 100 | | 94.5 | 70-130 | | | |
| Toluene | 93.7 | 2.00 | " | 100 | | 93.7 | 70-130 | | | |
| MTBE | 107 | 0.500 | " | 100 | | 107 | 70-130 | | | |
| LCS Dup (BB62201-BSD1) | | | | Prepared & | Analyzed: | : 22-Feb-06 | | | | |
| Surrogate: 4-Bromofluorobenzene | 49.0 | | ug/l | 50.0 | | 98.0 | 70-130 | | | |
| Surrogate: Dibromofluoromethane | 47.7 | | " | 50.0 | | 95.4 | 70-130 | | | |
| Surrogate: Perdeuterotoluene | 46.9 | | " | 50.0 | | 93.8 | 70-130 | | | |
| Gasoline (C6-C12) | 1850 | 50.0 | " | 2000 | | 92.5 | 70-130 | 32.6 | 20 | QR-0 |
| Benzene | 104 | 0.500 | " | 100 | | 104 | 70-130 | 9.57 | 20 | |
| Toluene | 102 | 2.00 | " | 100 | | 102 | 70-130 | 8.48 | 20 | |
| MTBE | 114 | 0.500 | " | 100 | | 114 | 70-130 | 6.33 | 20 | |



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Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch

were accepted based on percent recoveries and completeness of QC data.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

File :C:\MSDChem\1\DATA\2006-Feb-21-0924.b\21020605.D

Operator : Acquired : 21 Feb 2006 11:41 am using AcqMethod OXY21506.M

Instrument : PAL GCMS Sample Name: BB62201-BLK1



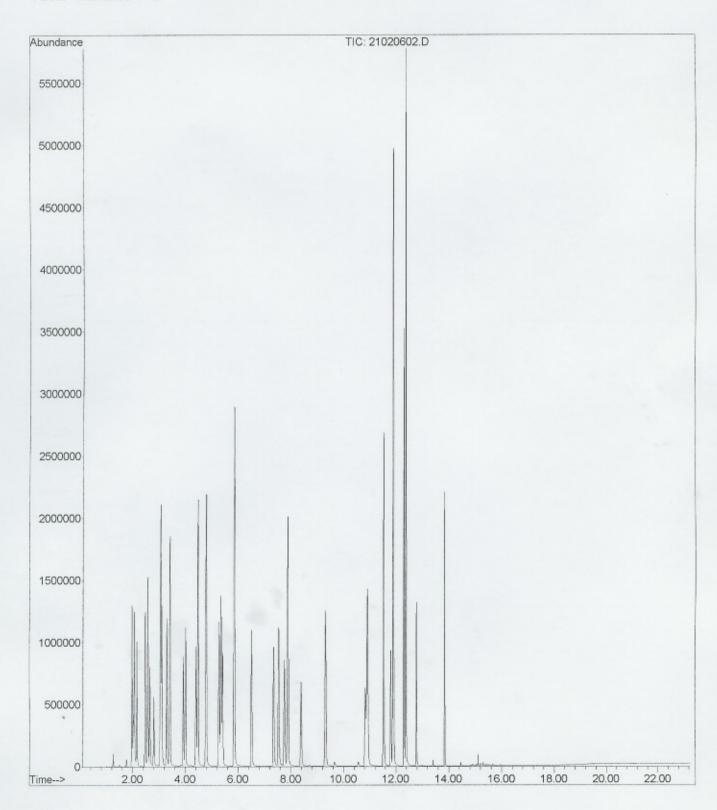
File :C:\MSDChem\1\DATA\2006-Feb-21-0924.b\21020602.D

Operator

Acquired : 21 Feb 2006 10:08 am using AcqMethod OXY21506.M

Instrument : PAL GCMS

Sample Name: BB62201-BS1@voc



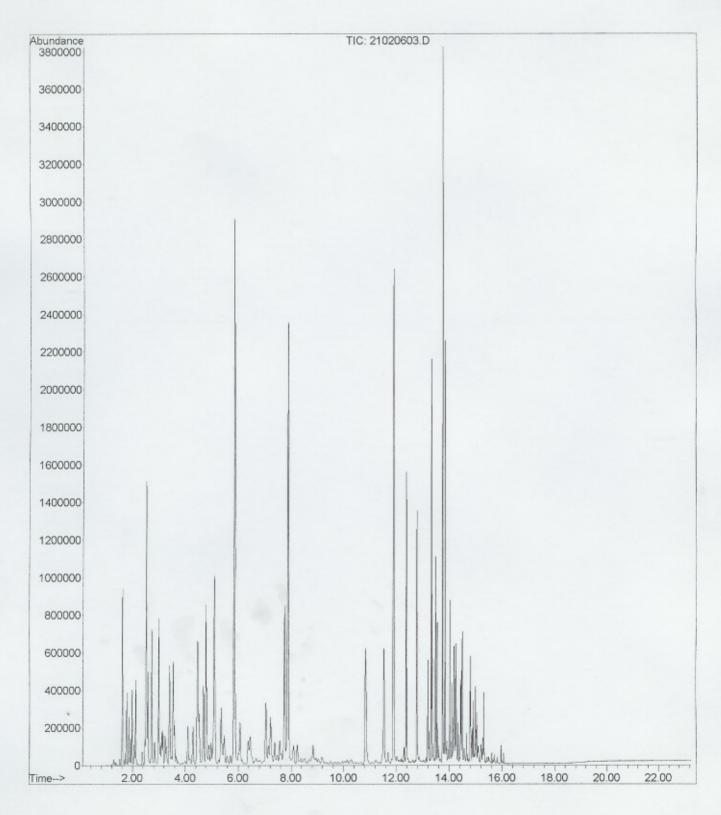
File :C:\MSDChem\1\DATA\2006-Feb-21-0924.b\21020603.D

Operator

Operator : Acquired : 21 Feb 2006 10:39 am using AcqMethod OXY21506.M

Instrument : PAL GCMS

Sample Name: BB62201-BS1@gas



CHAIN OF CUSTODY FORM

Page ___ of____

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

PAL Login# (002001)

| roject N | | | | | | | | Analyses/Method | | | | | | | | | | | | | | | | | | | | |
|----------|--|-----------|---------|---|-------|--------------------|----------------------|-----------------|--------------------|------------------|-----|---------|----------------|-------|-------|-------|-------|---|--|--|---|-------------|--|---|--|--|--|--|
| | Project Name: 3609 International Blvd. Oakland | | | | port | To: | Tony Perin | MtBE | | | | | | | | | | | | | | | | | | | | |
| | | | | Company: SOMA Environmental Engineering, Inc. | | | | | | | | | | | | | | | | | | | | | | | | |
| urnarou | und Time: Star | ndard | | Tel | | | 734-6400 734-6401 | | | | | | | втех, | | | | | | | | | | | | | | |
| | Oakland rnaround Time: Standard Sampling Date/Time b Sample ID Date Time Influent 2/10/4 (2)40 GAC-1 2:30 | Date/Time | N | latrix | ×. | # of Containers | | | | | | | TPHg, 8260B | | | | | | | | | | | | | | | |
| ab S | Sample ID | Date | Time | Soil | Water | Waste | | нсг | H ₂ So4 | HNO ₃ | ICE | Fi | eld Notes | | | | | | | | | | | | | | | |
| Infl | fluent | 210,06 | 2140 60 | | * | | 3-VOAs * Grab Sample | | | * | | | | | | | | | | | | | | | | | | |
| GA | AC-1 | | 2:36 8m | | * | | 3-VOAs | | | | | * | | | | | | | | | | | | | | | | |
| PS | SP-1 | 4 | 2130 PM | | * | | 3-VOAs | * | | | | | | | | | | | | | * | Grab Sample | | • | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler | Remarks: | | | | | | Relinquis | hed I | ov: | | Dat | e/Time: | Received by: | | Date/ | Time: | | | | | | | | | | | | |
| | | d | | | | 1 | 12.11 | ora | ~ | i, | 2, | 3:30 p | James Zu | inju | 2/10 | 3:30 | o pow | , | | | | | | | | | | |
| | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | |