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January 26, 2009

GROUNDWATER MONITORING REPORT Fouth Quarter, 2008

6211 San Pablo Avenue Oakland, California

Project No. 280346 ACHCS Case No. RO0000127

Prepared For

Mr. Pritpaul Sappal 2718 Washburn Court Vallejo, California 94591

Prepared By

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ENVIRONMENTAL & ENGINEERING SERVICES

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January 26, 2009

Mr. Pritpaul Sappal 2718 Washburn Court Vallejo, California 94591

Subject: Quarterly Groundwater Monitoring Report

Fourth Quarter, 2008
6211 San Pablo Avenue
Oakland, California
AEI Project No. 280346
ACHCS Case No. RO0000127

Dear Mr. Sappal:

AEI Consultants (AEI) has prepared this report on behalf of Mr. Pritpaul Sappal (client), owner of the subject site, located at 6211 San Pablo Avenue, Oakland, California (Figure 1: Site Location Plan). This report has been prepared at the request of the client, as required by the Alameda County Health Care Services Agency (ACHCSA), and presents the findings of the 4th Quarter 2008 groundwater monitoring and sampling event conducted on November 18, 2008.

Background

The subject property is located at 6211 San Pablo Avenue, northwest of the intersection of San Pablo Avenue and 62nd Street in a mixed residential and light commercial area of Oakland, California (Figure 1 and 2). The site currently consists of a retail gasoline station with three underground storage tanks (USTs) dispensing gasoline fuel through six dual-sided fuel dispensing islands. Site features are included in Figure 3.

In April 1999, three borings B-1 through B-3 were advanced at the site. Significant concentrations of hydrocarbons were present in the soil and groundwater samples collected during the investigation. Subsequently, in June 1999, five additional soil borings were advanced (B-4 through B-8) at the site. Based on the data collected during the investigation, it was determined that additional assessment was necessary as the lateral extent of the contamination had not been determined. Therefore, in October 1999 monitoring wells MW-1 through MW-3 were installed and a groundwater monitoring program was initiated.

In November 2001, monitoring wells MW-4 through MW-6 were installed and borings B-9 through B-14 were advanced on the property. Based on the data obtained it was determined that

additional wells were necessary offsite and interim remedial action was required, therefore a workplan was prepared for the implementation of both. To date, the monitoring wells have not been installed due to difficulty obtaining an encroachment permit with the City of Oakland.

In an effort to remediate hydrocarbons at the site, five air sparge wells (AS-1 through AS-5), thirteen vapor extraction wells (VE-1 through VE-13), and one groundwater extraction well (EX-1) were installed in January 2004. In addition, well MW-1R was installed to replace well MW-1. In February 2004, three 10,000 gallon USTs and associated product piping were removed and replaced (with the current UST system) at the site. During construction activities, approximately 1,100 tons of soil and 40,000 to 60,000 gallons of groundwater was removed from the site and properly disposed of.

A soil vapor extraction system was installed and was operational from August 31, 2006 through November 19, 2007. The system is currently not operating at the site with the equipment being removed by the prior consultant in August and September 2008. In August 2007 borings DP-1 and DP-3 were installed at and in the vicinity of the site. Several offsite borings were expected to be completed, however, they were not performed for a variety of reasons. In September 2008, consulting responsibilities were transferred to AEI Consultants. Subsequently, AEI submitted the requested revised Site Conceptual Model (SCM) dated October 8, 2008 which updates a proposed scope of work to complete additional offsite characterization for the site. Approval for the completion of the work was issued in a letter from the ACHCSA dated October 16, 2008.

On November 24 through November 26, 2008 AEI advanced ten shallow soil borings (DP-4, SB-5, SB-7 to SB-14) in the vicinity of the subject property and four deep soil borings (DDP-1 to DDP-4) at the subject property. In addition, three nested soil vapor probes (SG-1 through SG-3) were installed at the site. Elevated hydrocarbon concentrations were reported in several of the soil borings advanced during the investigation. Based on the results, it was determined that the groundwater plume was delineated towards the south/southeast, however delineation/monitoring is necessary to determine the extent of the dissolved hydrocarbon plume to the west/southwest.

The remainder of this report describes the findings of the recent monitoring and sampling event for the subject property.

Summary of Activities

AEI measured the depth to groundwater in the well network (MW-1R, MW-2 through MW-6, and EX-1) on November 18, 2008. The wells caps were first removed from each well, allowing the groundwater to equilibrate with the atmosphere. The depth to water from the top of each well casing was measured with an electric water level indicator prior to sampling. The wells were then purged either by hand using a bailer, or with a submersible pump and groundwater samples were collected using clean, unused disposable plastic bailers. The following parameters were measured during purging: temperature, pH, specific conductivity, dissolved oxygen and oxidation-reduction potential. At least three well volumes of water were removed from the wells that were sampled. Once the wells had recharged to at least 90% of the original water level, a water sample was collected.

The water collected was placed in 40 ml volatile organic analysis (VOA) vials, and capped so that neither headspace nor air bubbles were visible within the sample containers. Samples were transported on ice under proper chain of custody protocol to McCampbell Analytical, Inc. of Pittsburg, California (Department of Health Services Certification #1644).

The groundwater samples were collected and analyzed for total petroleum hydrocarbons as gasoline (TPHg) (EPA Method 8015Cm), and benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX) and methyl tert-butyl ether (MTBE), by EPA Method 8021B. The groundwater samples were also analyzed for tert-Amyl Methyl Ether (TAME), tert-Butanol (TBA), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), 1,2-Dichloroethane (1,2-DCA), ethylene dibromide (EDB), and MTBE by EPA method 8260.

Field Results

No free product was encountered during monitoring activities during the recent sampling events. Groundwater elevations during the current quarterly monitoring episode ranged from 27.60 to 28.76 feet above mean sea level (amsl). The groundwater was on average 0.71 feet higher then during the previous quarter. The direction of the groundwater flow during the November 18, 2008 sampling event was towards the west with an estimated overall hydraulic gradient of 0.012 feet/foot. Groundwater flow has historically been towards the southwest. Groundwater elevation data is summarized in Table 1 and 1b, and a groundwater elevation map is included as Figure 4.

Groundwater Quality

Select dissolved hydrocarbons were detected in the groundwater samples as follows:

- Monitoring well MW-1R was reported to contain TPHg, benzene, and MTBE at concentrations of 430 micrograms per liter (μg/L), 4.1 μg/L, and 1.8 μg/L, respectively. These concentrations are lower than recently observed, however relatively similar to concentrations observed since 2007.
- Monitoring well MW-2 was reported to contain TPHg, benzene, MTBE, and TBA at a concentration of 420 μg/L, 25 μg/L, 29 μg/L, and 60 μg/L, respectively. These concentrations represent a slight increase in concentrations, however relatively consistent with recent data.
- Monitoring well MW-3 was reported to contain TPHg, benzene, MTBE, and TBA at concentrations of 4,500 μg/L, 86 μg/L, 29,000 μg/L, and 290,000 μg/L, respectively. These concentrations are higher than recently observed, however remain significantly lower than historical concentrations, with the exception of TBA which remained at a historical high.
- Monitoring well MW-4 was reported to contain TPHg, benzene, MTBE, and TBA at concentrations of 24,000 μg/L, 820 μg/L, 1,400 μg/L, and 9,300 μg/L, respectively.

These concentrations represent an increase in TPHg and benzene, however MTBE and TBA decreased to historical lows.

- Monitoring well MW-5 was reported to contain TPHg, benzene, and MTBE at a concentration of 130 µg/L, 2.3 µg/L, and 7.3 µg/L, respectively. While TPHg and benzene have been detected during the last two sampling events, typically MTBE is the only detected constituent in well MW-5.
- Monitoring well MW-6 was reported to contain benzene, MTBE, and TBA at a concentration of 2.4 μg/L, 72 μg/L, and 180 μg/L, respectively.
- Well EX-1 was reported to contain TPHg, benzene, MTBE, and TBA at concentrations of 8,900 μg/L, 1,400 μg/L, 840 μg/L, and 20,000 μg/L, respectively. These concentrations are relatively similar to those seen during the last sampling event.

Complete groundwater sample analytical data from the sampling event is included in Table 2 and select data is displayed on Figure 5. Laboratory results and chain of custody documents are included in Appendix B.

Summary

Groundwater during the November 2008 episode was calculated to flow towards the west with an estimated overall hydraulic gradient of 0.012 feet/foot. Groundwater has been historically reported to flow towards the southwest. Overall, hydrocarbon concentrations were consistent with concentrations observed during the 3rd quarter 2008. The next sampling event is scheduled for February 2009 (1st Quarter 2009). AEI recently submitted a *Subsurface Investigation Report* dated January 9, 2009 to the ACHCSA detailing the recent subsurface investigation. Based on the results of the investigation, it has been confirmed that offsite wells are necessary. Encroachment permits have been obtained from the City of Oakland, and well installation activities will commence following approval from the ACHCSA of the work plan to install monitoring wells contained in the January 9, 2009 report.

REPORT LIMITATIONS AND SIGNATURES

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the requested information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices, in the environmental engineering and consulting field, which existed at the time and location of the work. If you have any questions regarding our investigation, please do not hesitate to contact one of us at (925) 746-6000.

Peter J. McIntyre

Senior Project Geologist

Sincerely,

AEI Consultants

Jeremy Smith

Senior Project Manager

Figures

Figure 1: Site Location Plan Figure 2: Extended Site Plan

Figure 3: Site Plan

Figure 4: Groundwater Elevation Map Figure 5: Groundwater Analytical Data

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Table 1: Groundwater Elevation DataTable 1b: Groundwater Flow DataTable 2: Groundwater Analytical Data

Appendix A: Groundwater Monitoring Well Field Sampling Forms

Appendix B: Laboratory Analyses with Chain of Custody Documentation

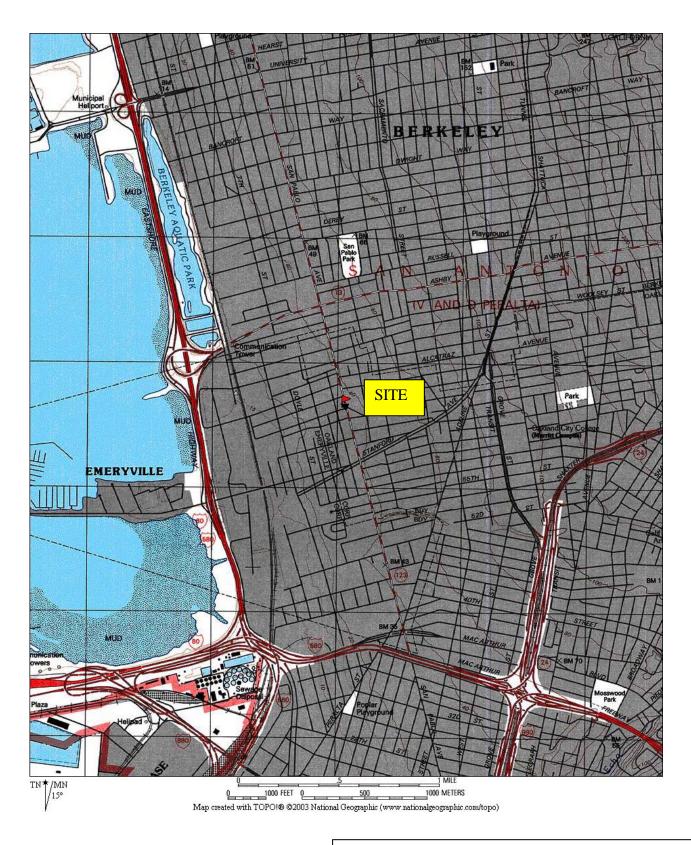
Distribution:

Mr. Pritpaul Sappal, 2718 Washburn Court, Vallejo, CA 94591

Mr. Paresh Khatri, ACHCSA, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502 (electronic upload)

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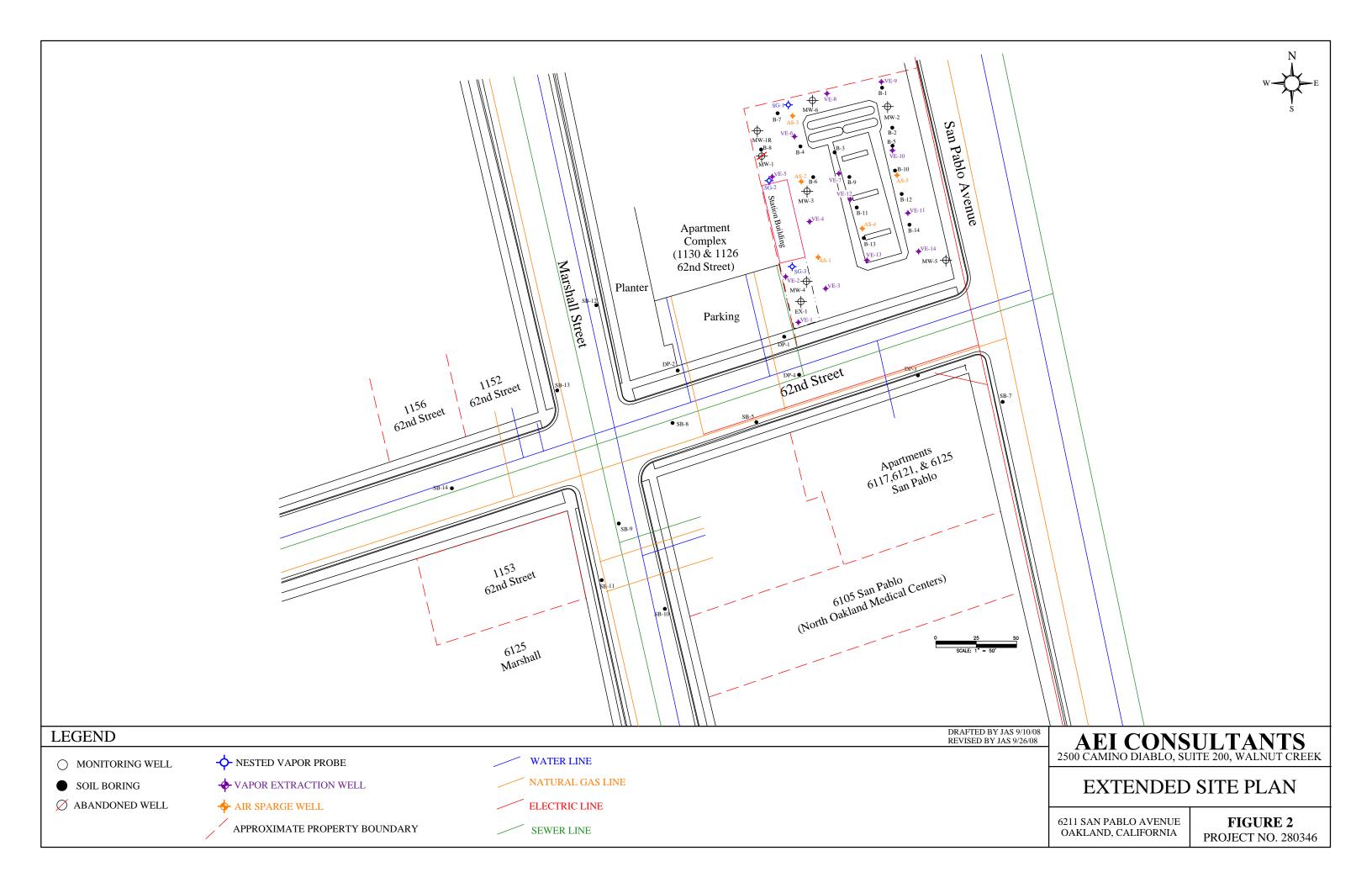
FIGURES

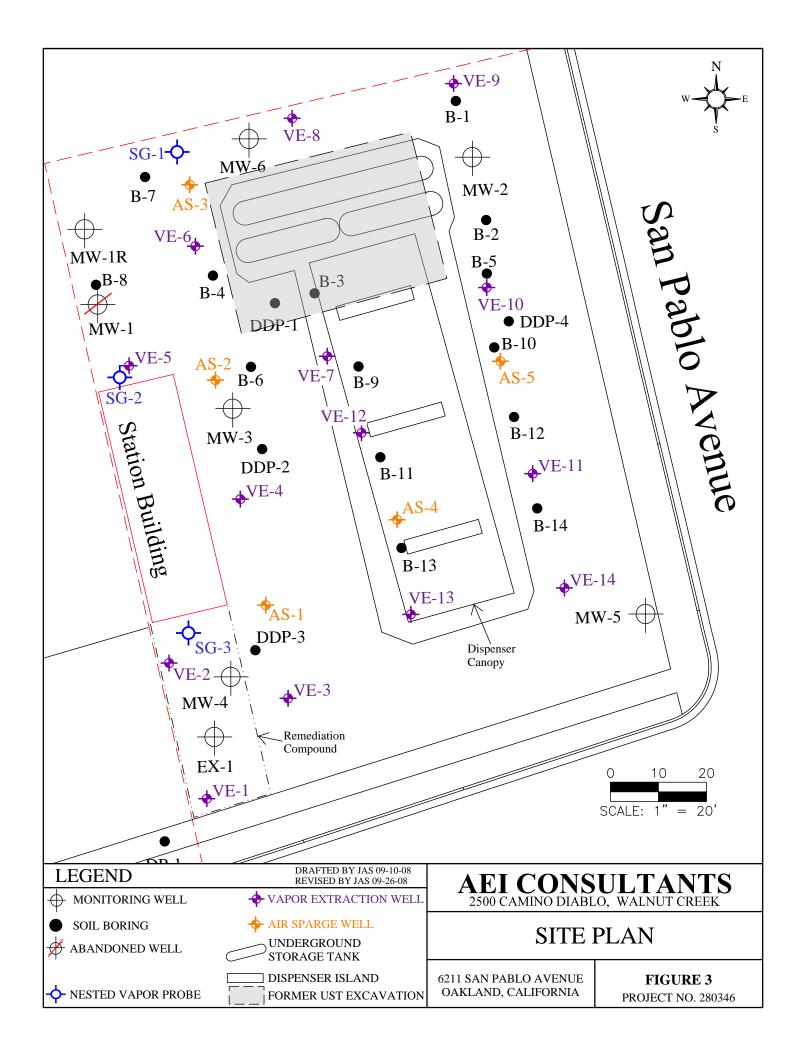


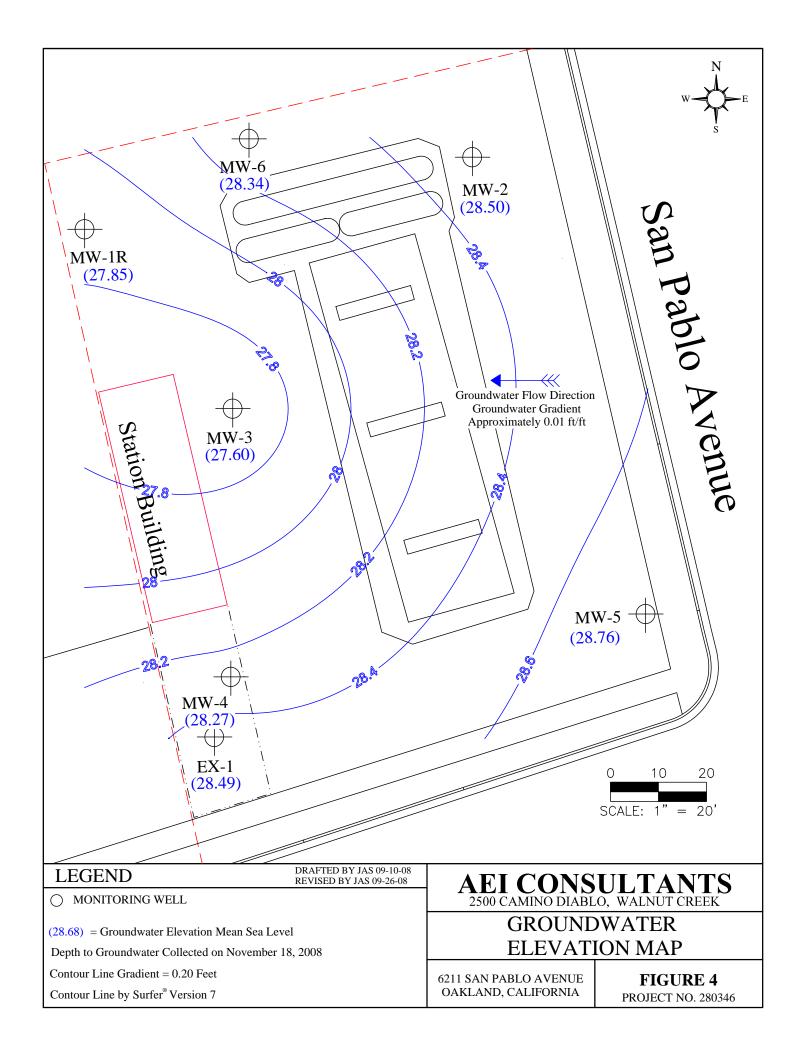
AEI CONSULTANTS

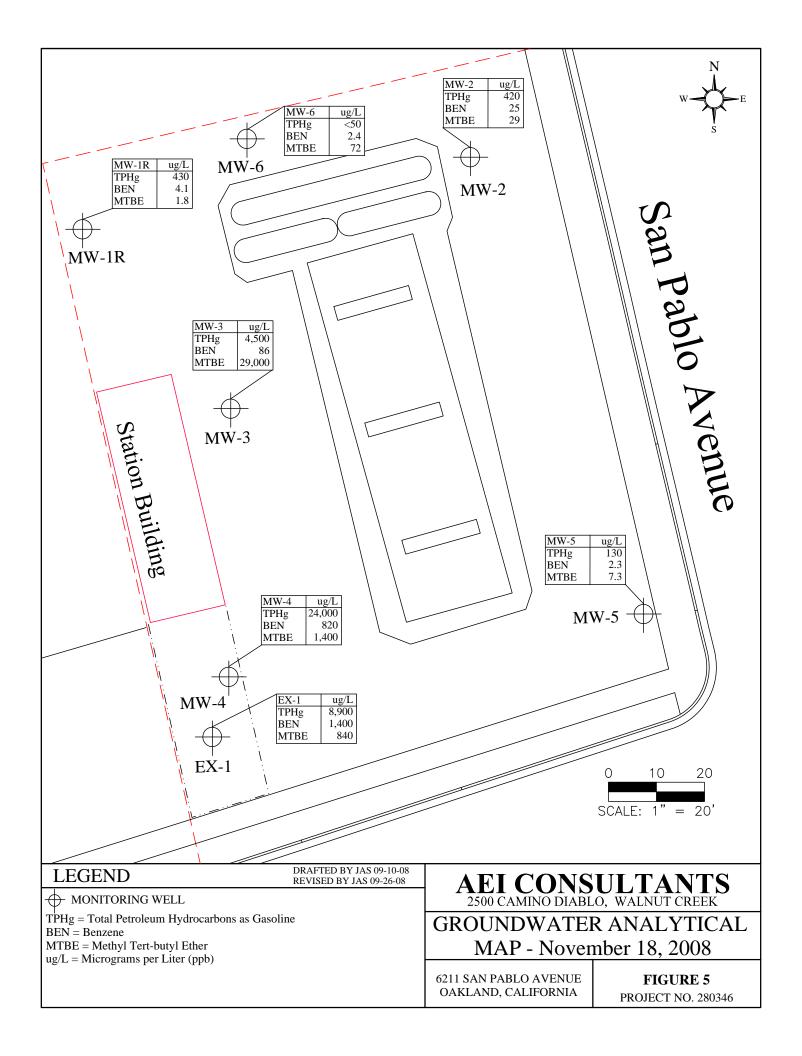
SITE LOCATION PLAN

6211 SAN PABLO AVENUE OAKLAND, CALIFORNIA FIGURE 1 PROJECT No. 280346









TABLES

Table 1, 6211 San Pablo Avenue, Oakland, CA - AEI Project # 280346 Groundwater Elevation Data

| Well ID | Date | Well | Depth to | Groundwater |
|-------------------|--------------------------------|----------------|---------------------|-----------------------|
| (Screen Interval) | Collected | Elevation | Water | Elevation |
| | | (ft amsl) | (ft) | (ft amsl) |
| | | | | |
| MW-1R | 5/15/2008 | 36.67 | 8.53 | 28.14 |
| (3-23) | 9/10/2008 | 36.67 | 9.36 | 27.31 |
| | 11/18/2008 | 36.67 | 8.82 | 27.85 |
| MW-2 | 5/15/2008 | 36.33 | 7.63 | 28.70 |
| (6-21) | 9/10/2008 | 36.33 | 8.43 | 27.90 |
| | 11/18/2008 | 36.33 | 7.83 | 28.50 |
| MW-3 | 5/15/2008 | 35.12 | 7.23 | 27.89 |
| (6-21) | 9/10/2008 | 35.12 | 8.08 | 27.04 |
| (==) | 11/18/2008 | 35.12 | 7.52 | 27.60 |
| MW-4 | 5/15/2008 | 34.11 | 5.43 | 28.68 |
| (5-20) | 9/10/2008 | 34.11 | 7.26 | 26.85 |
| (5 25) | 11/18/2008 | 34.11 | 5.84 | 28.27 |
| MW-5 | 5/15/2008 | 35.17 | 6.29 | 28.88 |
| (5-25) | 9/10/2008 | 35.17 | 6.99 | 28.18 |
| (3-23) | 11/18/2008 | 35.17 | 6.41 | 28.76 |
| MW-6 | 5/15/2008 | 36.07 | 7.51 | 28.56 |
| (5-25) | 9/10/2008 | 36.07 | 8.32 | 27.75 |
| (3-23) | 11/18/2008 | 36.07 | 7.73 | 28.34 |
| EX-1 | 5/15/2000 | 33.28 | 4.69 | 28.59 |
| | 5/15/2008 | 33.28 33.28 | 4.69 5.46 | 28.59 27.82 |
| (5-30) | 9/10/2008 11/18/2008 | 33.28 33.28 | 5.46 4.79 | 27.82 28.49 |
| | _1,10,2000 | 20,20 | •••• | -0 |

Table 1b, 6211 San Pablo Avenue, Oakland, CA - AEI Project # 280346 Groundwater Flow Data

| Event # | Date | Average Water Table Elevation (ft amsl) | Change from Previous Episode (ft) | Gradient (Flow Direction) (ft/ft) |
|---------|------------|--|---|---|
| 1 | 11/7/1999 | NA | NA | 0.0068 (SW) |
| 2 | 3/8/2001 | NA | NA | 0.0092 (SW) |
| 3 | 11/17/2001 | NA | NA | 0.0091 (SW) |
| 4 | 3/31/2002 | NA | NA | 0.0108 (SSW) |
| 5 | 9/9/2003 | NA | NA | 0.0031 (SW) |
| 6 | 12/9/2003 | NA | NA | 0.0031 (SW) |
| 7 | 2/19/2004 | NA | NA | 0.0154 (SW) |
| 8 | 5/24/2004 | NA | NA | 0.0081 (WSW) |
| 9 | 9/3/2004 | NA | NA | 0.0075 (SW) |
| 10 | 11/2/2004 | NA | NA | 0.0083 (WSW) |
| 11 | 2/17/2005 | NA | NA | 0.0036 (SW) |
| 12 | 5/24/2005 | NA | NA | 0.0097 (SSW) |
| 13 | 8/15/2005 | NA | NA | 0.013 (SW) |
| 14 | 11/17/2005 | NA | NA | 0.010 (SW) |
| 15 | 2/8/2006 | NA | NA | 0.010 (SW) |
| 16 | 5/5/2006 | NA | NA | 0.013 (SSW) |
| 17 | 8/18/2006 | NA | NA | 0.0125 (SSW) |
| 18 | 12/1/2006 | NA | NA | 0.03 (S) |
| 19 | 2/23/2007 | NA | NA | 0.012 (SW) |
| 20 | 5/10/2007 | NA | NA | 0.013 (SW) |
| 21 | 8/16/2007 | NA | NA | 0.022 (SW) |
| 22 | 11/8/2007 | NA | NA | 0.012 (WSW) |
| 23 | 2/14/2008 | NA | NA | 0.013 (SW) |
| 24 | 5/15/2008 | 28.49 | NA | 0.01 (W) |
| 25 | 9/10/2008 | 27.55 | -0.94 | 0.015 (SW) |
| 26 | 11/18/2008 | 28.26 | 0.71 | 0.012 (W) |

ft amsl = feet above mean sea level

All water level depths are measured from the top of casing

NA = not available

Table 2, 6211 San Pablo Avenue, Oakland, CA - AEI Project # 280346 Groundwater Analytical Data

| Sample ID | Date | TPHg μg/L | Benzene μg/L | Toluene μg/L | Ethylbenzene μg/L | Xylenes μg/L | MTBE μg/L | DIPE μg/L | ETBE μg/L | TAME μg/L | TBA μg/L | 1,2-DCA μg/L | EDB μg/L |
|-----------|------------|--------------|-----------------|-----------------|----------------------|-----------------|--------------|--------------|--------------|--------------|-------------|-----------------|-------------|
| | | 1.0 | 1.0 | 1.0 | 1.6 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 10 | 1.0 |
| MW-1 | 11/7/1999 | 5,700 | 170 | 59 | 22 | 85 | 20,000 | NA | NA | NA | NA | NA | NA |
| | 3/8/2001 | 17,000 | 480 | 150 | 52 | 170 | 38,000 | NA | NA | NA | NA | NA | NA |
| | 11/17/2001 | 10,000 | 230 | 210 | 60 | 250 | 22,000 | NA | NA | NA | NA | NA | NA |
| | 3/31/2002 | 12,000 | 61 | ND | ND | 29 | 35,000 | NA | NA | NA | NA | NA | NA |
| | 11/9/2003 | 19,000 | ND | ND | ND | ND | 50,000 | NA | NA | NA | NA | NA | NA |
| | 12/9/2003 | 22,000 | 150 | ND | ND | ND | 66,000 | NA | NA | NA | NA | NA | NA |
| MW-1R | 11/17/2001 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 3/31/2002 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 9/9/2003 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 12/9/2003 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2/19/2004 | 1,800 | 95 | 130 | 44 | 200 | 220 | NA | NA | NA | NA | NA | NA |
| | 5/24/2004 | 210 | 12 | 10 | 5.4 | 23 | 79 | ND | ND | 2.1 | 37 | ND | ND |
| | 9/3/2004 | 300 | 1.5 | 7.1 | 9.4 | 42 | 81 | ND | ND | 1.6 | ND | ND | ND |
| | 11/2/2004 | 290 | 14 | 30 | 9.5 | 45 | 45 | ND | ND | 1.1 | ND | NA | NA |
| | 2/17/2005 | 530 | 3.4 | ND | ND | 2.6 | 1,000 | ND | ND | 100 | ND | NA | NA |
| | 5/24/2005 | NA | NA | NA | NA | NA | NA | ND | ND | 610 | ND | ND | ND |
| | 8/15/2005 | 2,500 | 64 | 240 | 61 | 210 | 2,300 | ND | ND | 210 | ND | ND | ND |
| | 11/17/2005 | 2,500 | 66 | 290 | 75 | 290 | 1,300 | ND | ND | 110 | 1,600 | ND | ND |
| | 2/8/2006 | 3,300 | 100 | 310 | 86 | 470 | 1,400 | ND | ND | 130 | 1,400 | ND | ND |
| | 5/5/2006 | 3,400 | 170 | 350 | 97 | 550 | 1,100 | ND | ND | 100 | 2,400 | ND | ND |
| | 8/18/2006 | 5,800 | 190 | 1,000 | 230 | 1,000 | 490 | ND | ND | 36 | 2,900 | ND | ND |
| | 12/1/2006 | 410 | 1.7 | 6.3 | 1.2 | 47 | 100 | ND | ND | 4.7 | 100 | ND | ND |
| | 2/23/2007 | ND | ND | 0.51 | ND | 1.4 | 3 | ND | ND | ND | ND | ND | ND |
| | 5/10/2007 | ND | ND | ND | ND | 2.0 | 5.9 | ND | ND | ND | ND | ND | ND |
| | 8/16/2007 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 11/8/2007 | 1,300 | 11 | 82 | 54 | 270 | 1.4 | ND | ND | ND | ND | ND | ND |
| | 2/14/2008 | 800 | 7.6 | 31 | 23 | 150 | 1.7 | ND | ND | ND | ND | ND | ND |
| | 5/15/2008 | 3,200 | 20 | 200 | 110 | 550 | 4.2 | ND<0.50 | ND<0.50 | 1.0 | ND<20 | ND<0.50 | ND<0.50 |
| | 9/10/2008 | 1,000 | 6.5 | 22 | 19 | 120 | 2.3 | ND<0.50 | ND<0.50 | ND<0.50 | 4.0 | ND<0.50 | ND<0.50 |
| | 11/18/2008 | 430 | 4.1 | 18 | 12 | 100 | 1.8 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.0 | ND<0.50 | ND<0.50 |
| MW-2 | 11/7/1999 | 6,000 | 1,300 | 92 | 50 | 400 | 6,800 | NA | NA | NA | NA | NA | NA |
| | 3/8/2001 | 41,000 | 8,100 | 870 | 2,000 | 4,100 | 26,000 | NA | NA | NA | NA | NA | NA |
| | 11/17/2001 | 18,000 | 3,700 | 180 | 610 | 640 | 16,000 | NA | NA | NA | NA | NA | NA |
| | 3/31/2002 | 32,000 | 6,500 | 270 | 1,700 | 2,700 | 19,000 | NA | NA | NA | NA | NA | NA |
| | 9/9/2003 | 24,000 | 4,600 | ND | 1,200 | 440 | 19,000 | NA | NA | NA | NA | NA | NA |
| | 12/9/2003 | 31,000 | 6,200 | 170 | 1,600 | 2,700 | 19,000 | NA | NA | NA | NA | NA | NA |
| | 2/19/2004 | 21,000 | 4,600 | 120 | 970 | 2,000 | 15,000 | NA | NA | NA | NA | NA | NA |
| | 5/24/2004 | 1,200 | 120 | 3 | 63 | 67 | 1,900 | ND | ND | ND | ND | ND | ND |
| | 9/3/2004 | 2,300 | 120 | ND | 51 | 70 | 1,700 | ND | ND | 26 | ND | ND | ND |
| | 11/2/2004 | 530 | 35 | ND | 17 | 30 | 520 | ND | ND | 28 | 100 | NA | NA |

Table 2, 6211 San Pablo Avenue, Oakland, CA - AEI Project # 280346 Groundwater Analytical Data

| Sample ID | Date | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DIPE | ETBE | TAME | TBA | 1,2-DCA | EDB |
|-----------|------------|---------|---------|-----------|--------------|-----------|-----------|----------|-----------|----------|----------|----------|----------|
| • | | μg/L | μg/L | $\mu g/L$ | μg/L | μg/L | μg/L | μg/L | $\mu g/L$ | μg/L | μg/L | μg/L | μg/L |
| MW-2 | 2/17/2005 | 18,000 | 2,100 | 31 | 800 | 680 | 20,000 | ND | ND | 1,000 | ND | NA | NA |
| (cont.) | 5/24/2005 | 22,000 | 3,200 | 52 | 1,400 | 1,700 | 16,000 | ND | ND | NS | NS | ND | ND |
| | 8/15/2005 | 2,000 | 66 | ND | 46 | 47 | 2,400 | ND | ND | 95 | 880 | ND | ND |
| | 11/17/2005 | 760 | 19 | 0.64 | 15 | 13 | 1,000 | ND | ND | 26 | 810 | ND | ND |
| | 2/8/2006 | 10,000 | 1,500 | 8 | 660 | 380 | 4,300 | ND | ND | 120 | 2,800 | ND | ND |
| | 5/5/2006 | 15,000 | 1,800 | ND | 1,200 | 1,200 | 5,800 | ND | ND | 150 | 4,300 | ND | ND |
| | 8/18/2006 | 360 | 11 | ND | 13 | 9.7 | 160 | ND | ND | 4.6 | 600 | ND | ND |
| | 12/1/2006 | 11,000 | 1,000 | ND | 990 | 910 | 2,100 | ND | ND | 87 | 2,000 | ND | ND |
| | 2/23/2007 | 3,200 | 210 | ND | 270 | 85 | 900 | ND | ND | 33 | 1,400 | ND | ND |
| | 5/10/2007 | 590 | 31 | ND | 39 | 22 | 200 | ND | ND | 5.9 | 250 | ND | ND |
| | 8/16/2007 | 650 | 49 | ND | 71 | 49 | 100 | ND | ND | 3.5 | 82 | ND | ND |
| | 11/8/2007 | 110 | 1.6 | ND | 1.9 | 1.6 | 23 | ND | ND | 0.64 | 48 | ND | ND |
| | 2/14/2008 | 350 | 24 | ND | 12 | 5.9 | 190 | ND | ND | 7.7 | 320 | ND | ND |
| | 5/15/2008 | 81 | 0.59 | ND<0.50 | 0.71 | 0.66 | 38 | ND<0.50 | ND<0.50 | 1.4 | 54 | ND<0.50 | ND<0.50 |
| | 9/10/2008 | 150 | 6.4 | ND<0.50 | 8.4 | 5.1 | 14 | ND<0.50 | ND<0.50 | 0.55 | 38 | ND<0.50 | ND<0.50 |
| | 11/18/2008 | 420 | 25 | 0.70 | 46 | 47 | 29 | ND<0.50 | ND<0.50 | 1.3 | 60 | ND<0.50 | ND<0.50 |
| MW-3 | 11/7/1999 | 43,000 | 860 | 70 | ND | 65 | 120,000 | NA | NA | NA | NA | NA | NA |
| IVI VV -3 | 3/8/2001 | 90,000 | 1,800 | ND | ND | ND | 210,000 | NA | NA | NA | NA | NA | NA |
| | 11/17/2001 | 110,000 | 1,600 | ND | ND ND | ND | 300,000 | NA NA | NA NA | NA NA | NA NA | NA NA | NA NA |
| | 3/31/2002 | 130,000 | 2,400 | 670 | 300 | 390 | 300,000 | NA NA | NA NA | NA NA | | NA NA | |
| | 9/9/2003 | 190,000 | 1,600 | ND | ND | ND | 420,000 | NA NA | NA NA | NA NA | NA NA | NA NA | NA NA |
| | 12/9/2003 | 170,000 | 2,000 | ND ND | ND ND | ND ND | 4,500,000 | NA NA | NA NA | NA NA | | NA NA | NA NA |
| | 2/19/2004 | | | | | | | | | NA NA | NA | | |
| | 5/24/2004 | 86,000 | 1,800 | 630 | ND | ND | 160,000 | NA | NA | | NA | NA | NA |
| | | 120,000 | 2,200 | ND | 180 | 220 ND | 400,000 | ND | ND | 15,000 | ND | ND | ND |
| | 9/3/2004 | 180,000 | 2,000 | ND | ND | ND | 510,000 | ND | ND | 14,000 | ND | ND | ND |
| | 11/2/2004 | 150,000 | 1,700 | ND | ND | ND | 350,000 | ND | ND | 31,000 | 140,000 | NA | NA |
| | 2/17/2005 | 130,000 | 2,100 | 420 | 210 | 730 | 290,000 | ND | ND | 11,000 | ND | NA | NA |
| | 5/24/2005 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 8/15/2005 | 110,000 | 1,500 | ND | ND | ND | 260,000 | ND | ND | 21,000 | 25,000 | ND | ND |
| | 11/17/2005 | 200,000 | 2,400 | ND | ND | ND | 580,000 | ND | ND | 24,000 | 49,000 | ND | ND |
| | 2/8/2006 | 470,000 | 3,800 | 660 | ND | 790 | 490,000 | ND | ND | 26,000 | 49,000 | ND | ND |
| | 5/5/2006 | 400,000 | 3,300 | ND | ND | ND | 590,000 | ND | ND | 21,000 | 86,000 | ND | ND |
| | 8/18/2006 | 310,000 | 1,800 | ND | ND | ND | 440,000 | ND | ND | 23,000 | 79,000 | ND | ND |
| | 12/1/2006 | 270,000 | ND | ND | ND | ND | 290,000 | ND | ND | 11,000 | 90,000 | ND | ND |
| | 2/23/2007 | 220,000 | ND | ND | ND | ND | 260,000 | ND | ND | 15,000 | 33,000 | ND | ND |
| | 5/10/2007 | 140,000 | ND | ND | ND | ND | 180,000 | ND | ND | 7,100 | 80,000 | ND | ND |
| | 8/16/2007 | 69,000 | ND | ND | ND | ND | 85,000 | ND | ND | 3,400 | 180,000 | ND | ND |
| | 11/8/2007 | 34,000 | ND | ND | ND | ND | 38,000 | ND | ND | 1,400 | 140,000 | ND | ND |
| | 2/14/2008 | 41,000 | ND | ND | ND | ND | 44,000 | ND | ND | 1,900 | 110,000 | ND | ND |
| | 5/15/2008 | 43,000 | ND<100 | ND<100 | ND<100 | ND<100 | 62,000 | ND<100 | ND<100 | 1,100 | 200,000 | ND<100 | ND<100 |
| | 9/10/2008 | 1,600 | 14 | 8.6 | 7.7 | 23 | 21,000 | ND<1,000 | ND<1,000 | ND<1,000 | 290,000 | ND<1,000 | ND<1,00 |
| | 11/18/2008 | 4,500 | 86 | 150 | 100 | 590 | 29,000 | ND<1,000 | ND<1,000 | ND<1,000 | 290,000 | ND<1,000 | ND<1,000 |

Table 2, 6211 San Pablo Avenue, Oakland, CA - AEI Project # 280346 Groundwater Analytical Data

| Sample ID | Date | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DIPE | ETBE | TAME | TBA | 1,2-DCA | EDB |
|-----------|------------|--------|---------|---------|--------------|---------|---------|---------|---------|---------|--------|---------|---------|
| • | | μg/L | μg/L | μg/L | μg/L | μg/L | μg/L | μg/L | μg/L | μg/L | μg/L | μg/L | μg/L |
| MW-4 | 11/17/2001 | 64,000 | 960 | 1,400 | 360 | 1,600 | 140,000 | NA | NA | NA | NA | NA | NA |
| | 3/31/2002 | 78,000 | 4,400 | 4,700 | 690 | 2,700 | 150,000 | NA | NA | NA | NA | NA | NA |
| | 9/6/2007 | 49,000 | 710 | 840 | ND | 10,000 | 3,600 | ND | ND | 510 | 32,000 | ND | ND |
| | 11/8/2007 | 64,000 | 1,300 | 2,600 | 1,000 | 8,500 | 1,500 | ND | ND | 360 | 14,000 | ND | ND |
| | 2/14/2008 | 60,000 | 390 | 460 | 230 | 2,000 | 52,000 | ND | ND | 2,000 | 58,000 | ND | ND |
| | 5/15/2008 | 22,000 | 670 | 130 | 740 | 2,700 | 3,300 | ND<5.0 | ND<5.0 | 340 | 35,000 | ND<5.0 | ND<5.0 |
| | 9/10/2008 | 16,000 | 500 | 150 | 730 | 2,500 | 2,000 | ND<250 | ND<250 | ND<250 | 65,000 | ND<250 | ND<250 |
| | 11/18/2008 | 24,000 | 820 | 190 | 1,200 | 5,000 | 1,400 | ND<50 | ND<50 | 260 | 9,300 | ND<50 | ND<50 |
| MW-5 | 11/17/2001 | 210 | 15 | 12 | 11 | 23 | 4.8 | NA | NA | NA | NA | NA | NA |
| | 3/31/2002 | 120 | 11 | 7.4 | 6.1 | 16 | 4.2 | NA | NA | NA | NA | NA | NA |
| | 9/9/2003 | ND | 1.5 | ND | ND | ND | 1.7 | NA | NA | NA | NA | NA | NA |
| | 12/9/2003 | 130 | 32 | ND | 2.6 | 0.57 | 5 | NA | NA | NA | NA | NA | NA |
| | 2/19/2004 | ND | ND | ND | ND | ND | 1.5 | NA | NA | NA | NA | NA | NA |
| | 5/24/2004 | ND | ND | ND | ND | ND | 0.55 | ND | ND | ND | ND | ND | ND |
| | 9/3/2004 | 100 | 6.4 | ND | ND | 0.79 | 4.2 | ND | ND | ND | ND | ND | ND |
| | 11/2/2004 | ND | 2.6 | ND | 1.7 | 0.87 | 1 | ND | ND | ND | ND | ND | ND |
| | 2/17/2005 | 51 | 0.74 | ND | 0.94 | ND | 1.5 | ND | ND | ND | ND | ND | ND |
| | 5/24/2005 | ND | ND | ND | ND | ND | 1 | ND | ND | ND | ND | ND | ND |
| | 8/15/2005 | ND | ND | ND | ND | ND | 0.88 | ND | ND | ND | ND | ND | ND |
| | 11/17/2005 | 71 | 0.81 | ND | 1.1 | ND | 1.4 | ND | ND | ND | ND | ND | ND |
| | 2/8/2006 | 50 | ND | ND | ND | ND | 1 | ND | ND | ND | ND | ND | ND |
| | 5/5/2006 | ND | ND | ND | ND | ND | 0.93 | ND | ND | ND | ND | ND | ND |
| | 8/18/2006 | ND | ND | ND | ND | ND | 1 | ND | ND | ND | ND | ND | ND |
| | 12/1/2006 | ND | 0.69 | ND | ND | 0.52 | 0.97 | ND | ND | ND | ND | ND | ND |
| | 2/23/2007 | 73 | ND | ND | ND | ND | 1.7 | ND | ND | ND | ND | ND | ND |
| | 5/10/2007 | ND | ND | ND | ND | ND | 1.5 | ND | ND | ND | ND | ND | ND |
| | 8/16/2007 | ND | ND | ND | ND | ND | 1.3 | ND | ND | ND | ND | ND | ND |
| | 11/8/2007 | ND | ND | ND | ND | ND | 1.5 | ND | ND | ND | ND | ND | ND |
| | 2/14/2008 | ND | ND | ND | ND | ND | 1.3 | ND | ND | ND | ND | ND | ND |
| | 5/15/2008 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 1.7 | ND<0.50 | ND<0.50 | ND<0.50 | ND<20 | ND<0.50 | ND<0.50 |
| | 9/10/2008 | 480 | 17 | 1.8 | 2.7 | 0.59 | 12 | ND<0.50 | ND<0.50 | ND<0.50 | 4.4 | ND<0.50 | ND<0.50 |
| | 11/18/2008 | 130 | 2.3 | 1.6 | ND<0.50 | ND<0.50 | 7.3 | ND<0.50 | ND<0.50 | ND<0.50 | ND<2.0 | ND<0.50 | ND<0.50 |
| MW-6 | 11/17/2001 | 3,500 | 160 | 260 | 95 | 420 | 1,500 | NA | NA | NA | NA | NA | NA |
| | 3/31/2002 | 3,200 | 410 | 170 | 82 | 280 | 3,000 | NA | NA | NA | NA | NA | NA |
| | 9/9/2003 | 800 | 49 | ND | 7.4 | ND | 1,700 | NA | NA | NA | NA | NA | NA |
| | 12/9/2003 | 970 | 150 | 9.9 | 31 | 83 | 1,200 | NA | NA | NA | NA | NA | NA |
| | 2/19/2004 | 1,900 | 280 | 58 | 17 | 160 | 2,700 | NA | NA | NA | NA | NA | NA |
| | 9/3/2004 | 1,100 | 27 | ND | 14 | 27 | 2,200 | ND | ND | 85 | ND | ND | ND |
| | 11/2/2004 | 1,800 | 32 | ND | 5 | 11 | 4,100 | ND | ND | 170 | 270 | ND | ND |
| | 2/17/2005 | 5,600 | 190 | 34 | 41 | 110 | 10,000 | ND | ND | 780 | 2,000 | ND | ND |
| | 8/15/2005 | 1,800 | 27 | ND | 6 | 23 | 3,800 | ND | ND | 300 | 3,500 | ND | ND |
| | 11/17/2005 | 1,100 | 30 | ND | 4 | 9 | 2,400 | ND | ND | 190 | 9,500 | ND | ND |
| | 2/8/2006 | 3,600 | 220 | 43 | 66 | 160 | 2,700 | ND | ND | 180 | 7,800 | ND | ND |

Table 2, 6211 San Pablo Avenue, Oakland, CA - AEI Project # 280346 Groundwater Analytical Data

| C1- ID | D-4- | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MTBE | DIPE | ETBE | TAME | TBA | 1,2-DCA | EDB |
|-----------|------------|---------|-----------|---------|--------------|---------|---------|-----------|---------|-----------|-----------|-----------|-----------|
| Sample ID | Date | μg/L | $\mu g/L$ | μg/L | μg/L | μg/L | μg/L | $\mu g/L$ | μg/L | $\mu g/L$ | $\mu g/L$ | $\mu g/L$ | $\mu g/L$ |
| MW-6 | 5/5/2006 | 1,600 | 130 | 21 | 37 | 65 | 1,400 | ND | ND | 53 | 3,100 | ND | ND |
| (cont.) | 8/18/2006 | 270 | 27 | ND | 3 | 4 | 240 | ND | ND | 11 | 2,400 | ND | ND |
| | 12/1/2006 | 1,700 | ND | ND | ND | ND | 1,700 | ND | ND | 92 | 800 | ND | ND |
| | 2/23/2007 | ND | ND | ND | ND | ND | 15 | ND | ND | ND | ND | ND | ND |
| | 5/10/2007 | ND | 3.0 | ND | ND | 1.9 | 26 | ND | ND | 2 | 48 | ND | ND |
| | 8/16/2007 | ND | ND | ND | ND | ND | 1.4 | ND | ND | ND | ND | ND | ND |
| | 11/8/2007 | ND | ND | ND | ND | ND | 5.3 | ND | ND | ND | ND | ND | ND |
| | 2/14/2008 | ND | ND | ND | ND | ND | 11 | ND | ND | 0.94 | 220 | ND | ND |
| | 5/15/2008 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 13 | ND<0.50 | ND<0.50 | 1.0 | 130 | ND<0.50 | ND<0.50 |
| | 9/10/2008 | 78 | 1.4 | 0.60 | 0.94 | 1.3 | 71 | ND<1.0 | ND<1.0 | 6.2 | 160 | ND<1.0 | ND<1.0 |
| | 11/18/2008 | ND<50 | 2.4 | ND<0.50 | ND<0.50 | 0.70 | 72 | ND<1.2 | ND<1.2 | 7.2 | 180 | ND<1.2 | ND<1.2 |
| EX-1 | 2/19/2004 | 120,000 | 9,500 | 4,300 | 840 | 3,900 | 150,000 | NA | NA | NA | NA | NA | NA |
| | 2/14/2008 | 84,000 | 2,300 | 4,900 | 1,800 | 14,000 | 3,900 | ND | ND | 610 | 10,000 | ND | ND |
| | 5/15/2008 | 24,000 | 2,100 | 750 | 640 | 2,100 | 1,800 | ND<0.50 | ND<0.50 | 380 | 11,000 | ND<0.50 | ND<0.50 |
| | 9/10/2008 | 9,200 | 1,000 | 160 | 300 | 1,000 | 780 | ND<100 | ND<100 | 180 | 22,000 | ND<100 | ND<100 |
| | 11/18/2008 | 8,900 | 1,400 | 290 | 360 | 1,300 | 840 | ND<100 | ND<100 | 230 | 20,000 | ND<100 | ND<100 |

Notes:

 $TPHg = total \ petroleum \ hydrocarbons \ as \ gasoline \ using \ EPA \ Method \ 8015$

Benzene, toluene, ethylbenzene, and xylenes using EPA Method 8021B

MTBE = methyl-tertiary butyl ether using EPA Method 8021B; EPA Method 8260B Beginning in May 2008

TBA = tert-butyl alcohol using EPA Method 8260B

TAME = tert-amyl methyl ether using EPA Method 8260B

DIPE = diisopropyl ether using EPA Method 8260B

ETBE = ethyl tert-butyl ether using EPA Method 8260B

1,2-DCA = 1,2-dichloroethane using EPA Method 8260B

EDB = Ethylene dibromide using EPA Method 8260B

μg/L= micrograms per liter

ND = non detect at respective reporting limit

NA - not analyzed

APPENDIX A

GROUNDWATER MONITORING WELL FIELD SAMPLING FORMS

Monitoring Well Number: MW-1R

| Project Name: | Alaska Gas | Date of Sampling: 11/18/2008 |
|------------------|--------------------------------|------------------------------|
| Job Number: | 280346 | Name of Sampler: A. Nieto |
| Project Address: | 6211 San Pablo Avenue, Oakland | |

| MONITORING WELL DATA | | | | | | | | |
|---|----------------------------------|-----------------|--|--|--|--|--|--|
| Well Casing Diameter (2"/4"/6") | 2" | | | | | | | |
| Wellhead Condition | OK ▼ | | | | | | | |
| Elevation of Top of Casing (feet above msl) | | 36.67 | | | | | | |
| Depth of Well | | 22.75 | | | | | | |
| Depth to Water (from top of casing) | 8.82 | | | | | | | |
| Water Elevation (feet above msl) | 27.85 | | | | | | | |
| Well Volumes Purged | 3 | | | | | | | |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 6.7 | | | | | | | |
| Actual Volume Purged (gallons) | 7.0 | | | | | | | |
| Appearance of Purge Water | Dark Grey, clearing at 2 gallons | | | | | | | |
| Free Product Present? | No | Thickness (ft): | | | | | | |

| | GROUNDWATER SAMPLES | | | | | | | | | |
|----------------|---------------------|---------------------|------|-------------------------|--------------|--------------|-----------|--|--|--|
| Number of Samp | les/Container S | Size | | 4 VOAs | | | | | | |
| Time | Vol Removed (gal) | Temperature (deg C) | рН | Conductivity (μ sec/cm) | DO (mg/L) | ORP (meV) | Comments | | | |
| 10:58 | 1 | 20.20 | 6.74 | 569 | 0.39 | -227.4 | Dark Grey | | | |
| | 2 | 20.24 | 6.75 | 575 | 0.30 | -231.8 | Clear | | | |
| | 3 | 20.18 | 6.76 | 579 | 0.26 | -237.0 | Clear | | | |
| | 4 | 20.04 | 6.76 | 582 | 0.25 | -237.4 | Clear | | | |
| | 5 | 19.97 | 6.76 | 586 | 0.25 | -251.2 | Clear | | | |
| | 6 | 19.88 | 6.75 | 591 | 0.22 | -257.9 | Clear | | | |
| | 7 | 19.87 | 6.75 | 592 | 0.21 | -258.9 | Clear | | | |

| Hydrocarbon odors present | |
|---------------------------|--|
| | |

Monitoring Well Number: MW-2

| Project Name: | Alaska Gas | Date of Sampling: 11/18/2008 |
|------------------|--------------------------------|------------------------------|
| Job Number: | 280346 | Name of Sampler: A. Nieto |
| Project Address: | 6211 San Pablo Avenue, Oakland | |

| MONITORING WELL DATA | | | | | | | | |
|---|--|-----------------|--|--|--|--|--|--|
| Well Casing Diameter (2"/4"/6") | 2" | | | | | | | |
| Wellhead Condition | OK T | | | | | | | |
| Elevation of Top of Casing (feet above msl) | | 36.33 | | | | | | |
| Depth of Well | | 20.70 | | | | | | |
| Depth to Water (from top of casing) | 7.83 | | | | | | | |
| Water Elevation (feet above msl) | 28.50 | | | | | | | |
| Well Volumes Purged | 3 | | | | | | | |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 6.2 | | | | | | | |
| Actual Volume Purged (gallons) | 7.0 | | | | | | | |
| Appearance of Purge Water | Greenish, brown, clearing at 3 gallons | | | | | | | |
| Free Product Present? | No | Thickness (ft): | | | | | | |

| GROUNDWATER SAMPLES | | | | | | | |
|----------------------------------|-------------------|---------------------|--------|-------------------------|--------------|--------------|-------------------|
| Number of Samples/Container Size | | | 4 VOAs | | | | |
| Time | Vol Removed (gal) | Temperature (deg C) | рН | Conductivity (μ sec/cm) | DO (mg/L) | ORP (meV) | Comments |
| 10:14 | 1 | 21.75 | 6.64 | 671 | 1.05 | -156.6 | Greenish/Light Br |
| | 2 | 21.96 | 6.64 | 688 | 0.85 | -168.3 | Light Brown |
| | 3 | 21.81 | 6.70 | 686 | 0.70 | -174.4 | Clear |
| | 4 | 21.52 | 6.74 | 661 | 0.67 | -180.0 | Clear |
| | 5 | 21.31 | 6.75 | 655 | 0.66 | -178.1 | Clear |
| | 6 | 21.02 | 6.74 | 653 | 0.67 | -172.8 | Light Brown |
| | 7 | 20.90 | 6.73 | 656 | 0.68 | -169.1 | Light Brown |

| No Hydrocarbon odors | | |
|----------------------|--|--|
| | | |
| | | |

Monitoring Well Number: MW-3

| Project Name: | Alaska Gas | Date of Sampling: 11/18/2008 |
|------------------|--------------------------------|------------------------------|
| Job Number: | 280346 | Name of Sampler: A. Nieto |
| Project Address: | 6211 San Pablo Avenue, Oakland | |

| MONITORING WELL DATA | | | | | | |
|---|----------------------|-------|--|--|--|--|
| Well Casing Diameter (2"/4"/6") | 2" | | | | | |
| Wellhead Condition | OK | ▼ | | | | |
| Elevation of Top of Casing (feet above msl) | | 35.12 | | | | |
| Depth of Well | | 20.82 | | | | |
| Depth to Water (from top of casing) | 7.52 | | | | | |
| Water Elevation (feet above msl) | 27.60 | | | | | |
| Well Volumes Purged | 3 | | | | | |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 6.4 | | | | | |
| Actual Volume Purged (gallons) | 7.0 | | | | | |
| Appearance of Purge Water | Clear | | | | | |
| Free Product Present? | ? No Thickness (ft): | | | | | |

| GROUNDWATER SAMPLES | | | | | | | |
|----------------------------------|-------------------|---------------------|--------|-------------------------|--------------|--------------|------------|
| Number of Samples/Container Size | | | 4 VOAs | | | | |
| Time | Vol Removed (gal) | Temperature (deg C) | рН | Conductivity (μ sec/cm) | DO (mg/L) | ORP (meV) | Comments |
| 11:17 | 1 | 21.25 | 6.68 | 650 | 0.49 | -207.8 | Clear |
| | 2 | 21.25 | 6.64 | 609 | 0.43 | -216.9 | Clear |
| | 3 | 21.24 | 6.64 | 698 | 0.48 | -227.3 | Clear |
| | 4 | 20.68 | 6.62 | 769 | 0.53 | -233.0 | Light Grey |
| | 5 | 21.03 | 6.63 | 772 | 0.48 | -234.2 | Clear |
| | 6 | 21.03 | 6.63 | 802 | 0.38 | -239.0 | Clear |
| | 7 | 20.94 | 6.63 | 810 | 0.29 | -248.3 | Clear |

| Hydrocarbon odors present | |
|---------------------------|--|
| | |

Monitoring Well Number: MW-4

| Project Name: | Alaska Gas | Date of Sampling: 11/18/2008 |
|------------------|--------------------------------|------------------------------|
| Job Number: | 280346 | Name of Sampler: A. Nieto |
| Project Address: | 6211 San Pablo Avenue, Oakland | |

| MONITORING WELL DATA | | | | | | | |
|---|-------------------------------|-------|--|--|--|--|--|
| Well Casing Diameter (2"/4"/6") | 2" | | | | | | |
| Wellhead Condition | ОК | | | | | | |
| Elevation of Top of Casing (feet above msl) | | 34.11 | | | | | |
| Depth of Well | | 19.75 | | | | | |
| Depth to Water (from top of casing) | 5.84 | | | | | | |
| Water Elevation (feet above msl) | 28.27 | | | | | | |
| Well Volumes Purged | 3 | | | | | | |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 6.7 | | | | | | |
| Actual Volume Purged (gallons) | 7.0 | | | | | | |
| Appearance of Purge Water | Dark, clearing at 2.5 gallons | | | | | | |
| Free Product Present? | nt? No Thickness (ft): | | | | | | |

| GROUNDWATER SAMPLES | | | | | | | |
|----------------------------------|-------------------|---------------------|--------|-------------------------|--------------|--------------|----------|
| Number of Samples/Container Size | | | 4 VOAs | | | | |
| Time | Vol Removed (gal) | Temperature (deg C) | рН | Conductivity (μ sec/cm) | DO (mg/L) | ORP (meV) | Comments |
| 12:24 | 1 | 21.39 | 6.86 | 667 | 0.71 | -223.1 | Dark |
| | 2 | 21.49 | 6.82 | 634 | 0.44 | -214.6 | Dark |
| | 3 | 21.64 | 6.79 | 679 | 0.23 | -244.8 | Clear |
| | 4 | 21.68 | 6.81 | 829 | 0.18 | -253.7 | Clear |
| | 5 | 21.70 | 6.81 | 852 | 0.17 | -259.5 | Clear |
| | 6 | 21.72 | 6.83 | 896 | 0.15 | -269.6 | Clear |
| 12:30 | 7 | 21.72 | 6.84 | 920 | 0.14 | -272.0 | Clear |

| Strong Hydrocarbon odors present | |
|----------------------------------|--|
| | |

Monitoring Well Number: MW-5

| Project Name: | Alaska Gas | Date of Sampling: 11/18/2008 |
|------------------|--------------------------------|------------------------------|
| Job Number: | 280346 | Name of Sampler: A. Nieto |
| Project Address: | 6211 San Pablo Avenue, Oakland | |

| MONITORING WELL DATA | | | | | | |
|---|------------------------------|-----------------|--|--|--|--|
| Well Casing Diameter (2"/4"/6") | 2" | | | | | |
| Wellhead Condition | OK | ▼ | | | | |
| Elevation of Top of Casing (feet above msl) | | 35.17 | | | | |
| Depth of Well | | 24.31 | | | | |
| Depth to Water (from top of casing) | 6.41 | | | | | |
| Water Elevation (feet above msl) | 28.76 | | | | | |
| Well Volumes Purged | | 3 | | | | |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | 8.6 | | | | | |
| Actual Volume Purged (gallons) | 9.0 | | | | | |
| Appearance of Purge Water | Brown, clearing at 2 gallons | | | | | |
| Free Product Present? | No | Thickness (ft): | | | | |

| | | G | ROUNDWA | TER SAMPL | _ES | | | | | | | |
|-----------------|-------------------|---------------------|---------|-------------------------|--------------|--------------|-------------|--|--|--|--|--|
| Number of Sampl | es/Container S | Size | | 4 VOAs | | | | | | | | |
| Time | Vol Removed (gal) | Temperature (deg C) | рН | Conductivity (μ sec/cm) | DO (mg/L) | ORP (meV) | Comments | | | | | |
| 10:28 | 1 | 20.74 | 6.82 | 759 | 0.42 | -96.9 | Light Brown | | | | | |
| | 2 21.11 | | 6.78 | 752 | 0.29 | -129.8 | Clear | | | | | |
| | 3 | 21.17 | 6.76 | 745 | 0.24 | -159.9 | Clear | | | | | |
| | 4 | 21.10 | 6.75 | 742 | 0.23 | -164.4 | Clear | | | | | |
| | 5 | 21.07 | 6.75 | 739 | 0.23 | -172.5 | Clear | | | | | |
| | 6 21.06 6 | | 6.73 | 737 | 0.28 | -180.8 | Clear | | | | | |
| 10:35 | 7 | 21.05 | 6.73 | 737 | 0.27 | -185.6 | Clear | | | | | |

| No hydrocarbon odors noted | |
|----------------------------|---|
| | 1 |

Monitoring Well Number: MW-6

| Project Name: | Alaska Gas | Date of Sampling: 11/18/2008 |
|------------------|--------------------------------|------------------------------|
| Job Number: | 280346 | Name of Sampler: A. Nieto |
| Project Address: | 6211 San Pablo Avenue, Oakland | |

| MONITORIN | G WELL DA | TA |
|---|-----------|--------------------------------------|
| Well Casing Diameter (2"/4"/6") | | 2" |
| Wellhead Condition | OK | ▼ |
| Elevation of Top of Casing (feet above msl) | | 36.07 |
| Depth of Well | | 23.45 |
| Depth to Water (from top of casing) | | 7.73 |
| Water Elevation (feet above msl) | | 28.34 |
| Well Volumes Purged | | 3 |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | | 7.5 |
| Actual Volume Purged (gallons) | | 8.0 |
| Appearance of Purge Water | | Light brown, clearing at 1.5 gallons |
| Free Product Present? | No | Thickness (ft): |

| | | G | ROUNDWA | TER SAMPL | .ES | | | | | | | |
|------------------|-------------------|----------------------------|---------|-------------------------|--------------|--------------|-------------|--|--|--|--|--|
| Number of Sample | es/Container S | Size | | 4 VOAs | | | | | | | | |
| Time | Vol Removed (gal) | ved Temperature (deg C) pH | | Conductivity (μ sec/cm) | DO (mg/L) | ORP (meV) | Comments | | | | | |
| 10:44 | 1 | 19.68 | 7.09 | 630 | 1.18 | -169.5 | Light Brown | | | | | |
| | 2 19.72 | | 6.98 | 620 | 0.70 | -190.8 | Clear | | | | | |
| | 3 | 19.67 | 6.91 | 614 | 0.50 | -199.6 | Clear | | | | | |
| | 4 | 19.67 | 6.86 | 611 | 0.42 | -202.6 | Clear | | | | | |
| | 5 | 19.59 | 6.79 | 605 | 0.33 | -207.4 | Clear | | | | | |
| | 6 | 19.58 | 6.75 | 603 | 0.3 | -209.9 | Clear | | | | | |
| | 7 19.57 6.71 | | 6.71 | 600 | 0.27 | -211.4 | Clear | | | | | |
| 10:51 | 8 | 19.57 | 6.70 | 599 | 0.25 | -212.9 | Clear | | | | | |

| No hydrocarbon odors | |
|----------------------|--|
| | |

Monitoring Well Number: EX-1

| Project Name: | Alaska Gas | Date of Sampling: 11/18/2008 |
|------------------|--------------------------------|------------------------------|
| Job Number: | 280346 | Name of Sampler: A. Nieto |
| Project Address: | 6211 San Pablo Avenue, Oakland | |

| MONITORIN | G WELL DA | .TA | | | | | | | |
|---|-----------|-----------------|--|--|--|--|--|--|--|
| Well Casing Diameter (2"/4"/6") | | 4" | | | | | | | |
| Wellhead Condition | ОК | | | | | | | | |
| Elevation of Top of Casing (feet above msl) | | 33.28 | | | | | | | |
| Depth of Well | | 27.50 | | | | | | | |
| Depth to Water (from top of casing) | 4.79 | | | | | | | | |
| Water Elevation (feet above msl) | | 28.49 | | | | | | | |
| Well Volumes Purged | | 3 | | | | | | | |
| Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft) | | 44.3 | | | | | | | |
| Actual Volume Purged (gallons) | 45.0 | | | | | | | | |
| Appearance of Purge Water | | Clear | | | | | | | |
| Free Product Present? | No | Thickness (ft): | | | | | | | |

| | GROUNDWATER SAMPLES | | | | | | | | | | | | | |
|------------------|---------------------|---------------------|------|--------------|----------|--------|-------|--|--|--|--|--|--|--|
| Number of Sample | es/Container S | Size | | 4 VOAs | | | | | | | | | | |
| Time | Vol Removed (gal) | Temperature (deg C) | рН | ORP (meV) | Comments | | | | | | | | | |
| 11:53 | 1 | 20.29 | 7.30 | 936 | 0.91 | -266.9 | Clear | | | | | | | |
| | 2 | 20.38 | 7.22 | 939 | 0.72 | -271.6 | Clear | | | | | | | |
| | 3 | 20.51 | 7.16 | 944 | 0.64 | -275.7 | Clear | | | | | | | |
| | 4 | 20.63 | 7.12 | 948 | 0.58 | -279.0 | Clear | | | | | | | |
| | 5 | 20.80 | 7.08 | 953 | 0.50 | -279.0 | Clear | | | | | | | |
| | 10 | 21.28 | 7.00 | 971 | 0.26 | -284.4 | Clear | | | | | | | |
| | 15 | 21.26 | 6.95 | 975 | 0.24 | -280.5 | Clear | | | | | | | |
| | 20 | 21.07 | 6.83 | 972 | 0.23 | -284.6 | Clear | | | | | | | |
| | 25 | 21.07 | 6.81 | 961 | 0.18 | -289.1 | Clear | | | | | | | |
| | 30 | 21.16 | 6.83 | 948 | 0.14 | -287.5 | Clear | | | | | | | |
| | 35 | 21.25 6.84 | | 945 | 0.12 | -284.9 | Clear | | | | | | | |
| | 40 21.30 6.88 | | 6.88 | 954 | 0.10 | -290.5 | Clear | | | | | | | |
| 12:21 | 45 | 21.31 | 6.89 | 961 | 0.09 | -295.1 | Clear | | | | | | | |

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Strong Hydrocarbon odors

APPENDIX B

LABORATORY ANALYTICAL REPORT WITH CHAIN OF CUSTODY DOCUMENTATION

McCampbell Analytical, Inc.

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

| AEI Consultants | Client Project ID: #280346; Alaska Gas | Date Sampled: 11/18/08 |
|-------------------------------|--|--------------------------|
| 2500 Camino Diablo, Ste. #200 | | Date Received: 11/18/08 |
| Walnut Creek, CA 94597 | Client Contact: Jeremy Smith | Date Reported: 11/25/08 |
| Trainer Crook, CT 71077 | Client P.O.: | Date Completed: 11/25/08 |

WorkOrder: 0811575

November 25, 2008

Dear Jeremy:

Enclosed within are:

- 1) The results of the 7 analyzed samples from your project: #280346; Alaska Gas,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager

McCampbell Analytical, Inc.

| | | McCAN | | L ANAI | | ICA | LI | NC. | 3 | CI | 1 | <. | 7 | | T | ш | N | A D | OUI | CHA | | | F | CU | | | DY | Y F | | CO | RI | D | | r\$ | , |
|----------------------------|--------------------------------------|--------------|-----------|------------|--------------|---------------------------------------|---------------|------|--------|------------|--------------|-------|------|-----------|--------------|-------------------------|---|------------------------------|--|-----------------|---------------------------|-----------|------------------------|--|---------------|---|-----------------------------|-----|-----|----------|-----|-----------|------|-----|-----|
| T-C | elenho | ne: (925) 25 | | burg, CA 9 | 4565 | F | ax: | (925 | 5) 25 | 52-92 | 269 | | 1 | 7 | | | | | | | | | | | JSH | | 24 H | IR | | 18 HI | R | | HR | 5 D | AY |
| - 10- | | | | | Bill To | | | (>== | | O. # | | | | + | ED | FF | lequ | uire | | naly | | | | | No | | | | _ | Otl | hor | _ | Con | | to |
| Report To: Company: | | | | L | om 10 |); san | ile | | Ρ. | .U. # | | | | + | | | | | A | mary | 515 I | ceq | lest | | | | | | | Ott | lei | \dashv | Con | men | ts |
| | | Camino Dial | blo | | | | | | | | | | | \neg | | | Silica | | | | | | | | | | | | | | | - 1 | | | |
| | | ut Creek, C | | | E-M | ail: ja | smit | h@a | eico | nsulta | ants. | com | | \neg | | | // Sil | | ú | | | | | 10 | | 10C | | | | | | - 1 | | | |
| Tele: (925) | | | | F | ax: (| _ | | -2-5 | | | | | | | | | F. | 0.1 | DIPE, ETBE | | | | | /83 | | 09) | | | | | | - 1 | | | |
| Project #: 2 | | | | | rojec | | | | ka (| Gas | | | | | | | (413 | (418.1) | 7 | | | | | 3270 | | Zinc | | | | | | - 1 | | | |
| Project Loc | ation: | 6211 San Pa | ablo Aven | ne, Oak | land, | Calif | orni | a | | | | | | | | | ase | Suoc | DB DB | | ALY. | | | 18/8 | | N.C | | | | | | | | | |
| Sampler Signature: An Illa | | | | | | | | _ | | | Gre | ocarl | A E | | SO | | 8270 | A 62 | | Y, pl | 0.8) | | | | | | | | | | | | | | |
| | | / | SAMP | LING | | 2 | | MA | TR | IX | PE | MET | HOD | CD C | 8021B | 3 | Nil & | lydn | D N | | G | | HS) | y EP | | 25 | d 20 | | | | | - 1 | | | |
| | | | | | ers | ine | | | | | 1 | | | | | (8015) | E I | Im F | 1,200 | 0 | 80 F | | PA | q s, | tals | als ((| ltere | | | | | - 1 | | | |
| SAMPLE (Field Point N | 2000 | LOCATION | | | # Containers | Type Containers | | | | | | | | | BTEX / /MTBE | oline | Total Petroleum Oil & Grease (413.1) w/ | Total Petroleum Hydrocarbons | ruel Oxys (8260) – M1 BE, D TAME, TBA, 1,2-DCA, EDB | Nitrate/Nitrite | EPA 608 / 8080 PCB's ONLY | 097 | SVOCs (with PAHs) 8270 | PAH's / PNA's by EPA 625 / 8270 / 8310 | CAM-17 Metals | LUFT 5 Metals (Cd, Cr, pb., Ni, zinc (6010C). | Lead (field filtered 200.8) | | | | | - 1 | | | |
| (Field Follit) | vamej | | Date | Time | ont | o C | Water | _ | | dge rer | | - | 0 | ler | S X | gas | II Per | l Pel | Ē, | ate/\ | 809 | VOCs 8260 | SS | l's/ | M-17 | T.5 | d (fie | | | | | - 1 | | | |
| | | | | | # | Tyl | ₹ 8 | Soil | Air | Sludge | Ice | HCI | HNO3 | Other | BTE | TPH - gasoline | Tota | Tota | TAI | iž | EP/ | VO | SVC | PAF | CAI | E | Гез | RCI | | | | | | | |
| MW-1R Dakland 1/18/08 1:05 | | | | | 4 | Noas | X | | T | | X | K | | \forall | X | _ | | | X | T | | | | | | | | | • | П | | \exists | | | |
| MW-2 | | , | 1 | 1:20 | 1 | 1 | K | | | | K | 1 | | | X | X | | | X | | | | | | | | | | | | | | | | |
| MW-3 | | | | 1:10 | | | 1 | | T | | × | 1 | | \neg | X | X | | 1 | X | | | | | | | | | | | | | | | | |
| MW-4 | | | | · · | | | V | | | | 1 | X | | \exists | X | X | | | X | T | | | | | | | | | | | | | | | |
| MW-5 | | | 1 | 12:50 | | | K | | \top | | | 1 | | | X | X | | | X | | | | | | | | | | | | | | | | |
| MW-6 | | | | 17:55 | | | 1 | | | + | 1 | K | | \forall | X | X | | | X | | | | | | | | | | | | | | | | |
| EX-1 | 13 | - | | 1:25 | 1 | | 3 | | + | | 1 | - | | \exists | X | X | | | X | + | | | | | | | | | | | | | | | |
| 15000000 | | | | (.0) | | - | X | | + | | 1 | X | | \dashv | + | | | | | | | | | | | | | | | \vdash | | | | | |
| | | | | | | | | | + | + | | * | | + | | | | - | | + | | | | | | | | | | | | | | | |
| | | | | | | | | | | | † | | | \exists | | | | | | | | | | | | | | | | | | | | | |
| | | 34. 1 | | | | | | | + | + | | | | \forall | _ | | | | | + | \vdash | | | | - | | | | | | | 1 | | | |
| | | | | | | | | | | + | + | | 1 | \dashv | + | - | | | | + | | | | | | | | | | | | \dashv | | | |
| | | | | | | | | - | + | + | | | - | + | | + | | | - | + | | | | | | | | | | \vdash | | - | | | |
| | | | | | - | | | | + | + | + | | | + | + | + | | | | + | | - | | | | | | | | \vdash | | + | | | |
| Relinquished I | By: / | / | Date: | Time: | Rece | ixed E | Bv: | | | | _ | | | + | | _ | | | | | | | | | | | | | | | | | | _ | _ |
| 16 - | 1/ | /,_ | 1/19/09 | 1628 | | 1 | 2 | - | | 7. | _ | 2 | 1 | 1 | | | . / | 100 | - ^ | 10 |) (| | | | | | | | DAS | 08 | G | ME | TALS | от | HER |
| Relinquished I | 12 Mare 111010 | | | | | | \rightarrow | 10 | CE/ | DVC | 0 | DITI | ON | 1 | | PRESERVATIONAPPROPRIATE | | | | | | | | | | | | | | | | | | | |
| | NT-000 | | | | | | | | | | | | | | | | | | EAE | | T - | 1 | | | TAI | | | | 1 | | | | | | |
| Relinquished I | quished By: Date: Time: Received By: | | | | \neg | D | EC | HL | ORI | NATI | ED IN | LA | B | | | | | | | LAB | NE | P | | | | | | | | | | | | | |
| 9 | Date. Time. Received by. | | | | -1 | DECHLORINATED IN LAB PERSERVED IN LAB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

McCampbell Analytical, Inc.

1534 Willow Pass Rd

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

| | g, CA 94565-1701 52-9262 | | | | | WorkOrder: 08115 | | | 575 | 5 Cli | | ientCode: AEL | | | | | |
|--------------------------------|--|--|---------|------------------|--|--|--|---------|-----|----------------|------|---------------|-------|------------------------------------|----|-----|--|
| | | | WriteOn | ☑ EDF | | Excel | [| Fax | E | ✓ Email | | HardCopy | | ThirdParty | | J-f | ilag |
| | ants no Diablo, Ste. #200 ek, CA 94597 | Email: ja cc: PO: ProjectNo: #; | | | AE 25 Wa | enise Mo I Consu 00 Cam alnut Cr nockel@ | ıltants iino Dia eek, C <i>i</i> | A 94597 | • |) | Date | | ived: | 5 days 11/18/2008 11/18/2008 | | | |
| Lab ID | Client ID | | Matrix | Callantian Data | 11-1-1 | | | | | uested 5 | | See leg | | | | | 40 |
| Lab ID | Client ID | | Matrix | Collection Date | Hola | 1 | 2 | 3 | 4 | 5 | 6 | | 8 | 9 | 10 | 11 | 12 |
| 0811575-001 | MW-1R | | Water | 11/18/2008 13:05 | | В | Α | Α | | | | | | | | | |
| 0811575-002 | MW-2 | | Water | 11/18/2008 13:20 | | В | Α | | | | | | | | | | |
| 0811575-003 | MW-3 | | Water | 11/18/2008 13:10 | | В | Α | | | | | | | | | | |
| 0811575-004 | MW-4 | | Water | 11/18/2008 | <u> </u> | В | Α | | | | | | | ļ | | | ļ |
| 0811575-005 | MW-5 | | Water | 11/18/2008 12:50 | Щ | В | Α | | | | | | | | | | |
| 0811575-006 | MW-6 | | Water | 11/18/2008 12:55 | Щ | В | Α | | | | | | | | - | | |
| 0811575-007 | EX-1 | | Water | 11/18/2008 13:25 | <u> Г</u> | В | Α | | | | | | | <u></u> | | | <u></u> |
| Tost Logand: | | | | | | | | | | | | | | | | | |
| Test Legend: | | | | | | | | | | | | | _ | | | | |
| 1 5-OXYS+PBSCV_W 2 G-MBTEX_W 3 | | | | | DF RE | EPORT | | 4 | | | | | | 5 | | | |
| 6 7 8 | | | | 8 | | | | 9 | | | | | Ŀ | 10 | | | |
| 11 | 12 | | | | | | | | | | | | | | | | |

Prepared by: Samantha Arbuckle

Comments:

Sample Receipt Checklist

| Client Name: | AEI Consultants | | | | Date a | and Time Received: | 11/18/2008 | 8:36:03 PM |
|-------------------|---------------------------------|----------------|------------|----------|---------------|--------------------------|--------------|-------------------|
| Project Name: | #280346; Alaska Gas | | | | Check | dist completed and r | eviewed by: | Samantha Arbuckle |
| WorkOrder N°: | 0811575 Matrix | <u>Water</u> | | | Carrie | r: <u>Client Drop-In</u> | | |
| | | Chain o | f Cu | stody (C | OC) Informa | ation | | |
| Chain of custody | present? | ١ | ⁄es | V | No 🗆 | | | |
| Chain of custody | signed when relinquished an | d received? | Yes | V | No 🗆 | | | |
| Chain of custody | agrees with sample labels? | ١ | Yes | ✓ | No 🗌 | | | |
| Sample IDs noted | by Client on COC? | ١ | ⁄es | V | No 🗆 | | | |
| Date and Time of | collection noted by Client on C | OC? | Yes | ~ | No 🗆 | | | |
| Sampler's name r | noted on COC? | ١ | ⁄es | V | No 🗆 | | | |
| | | <u>Sam</u> | nple | Receipt | Information | <u>!</u> | | |
| Custody seals in | tact on shipping container/coc | oler? | Yes - | | No 🗆 | | NA 🗹 | |
| Shipping containe | er/cooler in good condition? | ١ | Yes - | V | No 🗆 | | | |
| Samples in prope | er containers/bottles? | ١ | Yes | V | No 🗆 | | | |
| Sample containe | rs intact? | ١ | Yes | ✓ | No 🗆 | | | |
| Sufficient sample | e volume for indicated test? | ١ | Yes | ✓ | No 🗌 | | | |
| | <u>S</u> | ample Preserva | ation | and Ho | old Time (HT) |) Information | | |
| All samples recei | ived within holding time? | ``` | ⁄es | ✓ | No 🗌 | | | |
| Container/Temp I | Blank temperature | C | Coole | r Temp: | 2.9°C | | NA 🗆 | |
| Water - VOA vial | ls have zero headspace / no l | oubbles? | Yes | V | No 🗆 | No VOA vials subm | itted 🗆 | |
| Sample labels ch | necked for correct preservatio | n? | ⁄es | ~ | No 🗌 | | | |
| TTLC Metal - pH | acceptable upon receipt (pH< | 2)? | Yes | V | No 🗆 | | NA \square | |
| Samples Receive | ed on Ice? | ١ | ⁄es | V | No 🗆 | | | |
| | | (Ice Type: | WE. | TICE |) | | | |
| * NOTE: If the "N | No" box is checked, see comm | nents below. | | | | | | |
| ===== | ======= | ==== | == | === | ==== | ===== | ==== | ====== |
| | | | | | | | | |
| Client contacted: | | Date contacted | i: | | | Contacted | by: | |
| Comments: | | | | | | | | |

| AEI Consultants | Client Project ID: #280346; Alaska Gas | Date Sampled: 11/18/08 |
|-------------------------------|--|-----------------------------------|
| 2500 Camino Diablo, Ste. #200 | | Date Received: 11/18/08 |
| , | Client Contact: Jeremy Smith | Date Extracted: 11/19/08-11/24/08 |
| Walnut Creek, CA 94597 | Client P.O.: | Date Analyzed 11/19/08-11/24/08 |
| | and a representation of the second | |

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

| Extraction Method: SW5030B | 0B | | Work Order: | 0811575 | | | |
|-------------------------------|--------------|------------------|--------------|--------------|-----------------|------|--|
| Lab ID | 0811575-001B | 0811575-002B | 0811575-003B | 0811575-004B | | | |
| Client ID | MW-1R | MW-2 | MW-3 | MW-4 | Reporting DF | | |
| Matrix | W | W | W | W | | | |
| DF | 1 | 1 | 2000 | 100 | S | W | |
| Compound | | Conce | entration | | ug/kg | μg/L | |
| tert-Amyl methyl ether (TAME) | ND | 1.3 | ND<1000 | 260 | NA | 0.5 | |
| t-Butyl alcohol (TBA) | ND | 60 | 290,000 | 9300 | NA | 2.0 | |
| 1,2-Dibromoethane (EDB) | ND | ND | ND<1000 | ND<50 | NA | 0.5 | |
| 1,2-Dichloroethane (1,2-DCA) | ND | ND | ND<1000 | ND<50 | NA | 0.5 | |
| Diisopropyl ether (DIPE) | ND | ND | ND<1000 | ND<50 | NA | 0.5 | |
| Ethyl tert-butyl ether (ETBE) | ND | ND | ND<1000 | ND<50 | NA | 0.5 | |
| Methyl-t-butyl ether (MTBE) | 1.8 | 29 | 29,000 | 1400 | NA | 0.5 | |
| | Surr | ogate Recoveries | s (%) | | | | |
| %SS1: | 104 | 105 | 91 | 94 | | | |
| Comments | | | | | | | |

^{*} water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in $\mu g/\text{wipe}$.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



| "When Quality | Counts | | Telephone: 8 | 77-252-9262 Fax: 92: | 5-252-9269 | | | | |
|-------------------------------|-------------------|--|---------------|----------------------|-------------------|--------------|--|--|--|
| AEI Consultants | Client Pr | roject ID: #28034 | 6; Alaska Gas | Date Sampled: | 11/18/08 | | | | |
| 2500 Camino Diablo, Ste. #200 | | | | Date Received: | 11/18/08 | | | | |
| 2500 Carimo Brasio, Sec. #200 | Client C | ontact: Jeremy Si | mith | Date Extracted: | 11/19/08-1 | 1/24/08 | | | |
| Walnut Creek, CA 94597 | Client P. | O.: | | Date Analyzed | 11/19/08-11/24/08 | | | | |
| Oxygenat | ed Volatile Orgai | atile Organics + EDB and 1,2-DCA by P&T and GC/MS* | | | | | | | |
| Extraction Method: SW5030B | Anai | lytical Method: SW826 | 0B | | Work Order: | 0811575 | | | |
| Lab ID | 0811575-005B | 0811575-006B | 0811575-007B | | | | | | |
| Client ID | MW-5 | MW-6 | EX-1 | | | Limit for =1 | | | |
| Matrix | W | W | W | | | | | | |
| DF | 1 | 2.5 | 200 | | S | W | | | |
| Compound | | Conce | entration | | ug/kg | μg/L | | | |
| tert-Amyl methyl ether (TAME) | ND | 7.2 | 230 | | NA | 0.5 | | | |
| t-Butyl alcohol (TBA) | ND | 180 | 20,000 | | NA | 2.0 | | | |
| 1,2-Dibromoethane (EDB) | ND | ND<1.2 | ND<100 | | NA | 0.5 | | | |
| 1,2-Dichloroethane (1,2-DCA) | ND | ND<1.2 | ND<100 | | NA | 0.5 | | | |
| Diisopropyl ether (DIPE) | ND | ND<1.2 | ND<100 | | NA | 0.5 | | | |
| Ethyl tert-butyl ether (ETBE) | ND | ND<1.2 | ND<100 | | NA | 0.5 | | | |
| Methyl-t-butyl ether (MTBE) | 7.3 | 72 | 840 | | NA | 0.5 | | | |
| | Surr | ogate Recoveries | s (%) | | | | | | |
| %SS1: | 98 | 99 | 93 | | | | | | |
| Comments | | | | | | | | | |

 $^{*\} water\ and\ vapor\ samples\ are\ reported\ in\ \mu g/L,\ soil/sludge/solid\ samples\ in\ mg/kg,\ product/oil/non-aqueous\ liquid\ samples\ and\ all\ TCLP\ \&\ SPLP$ extracts are reported in mg/L, wipe samples in $\mu g/\text{wipe}$.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



| AEI Consultants | Client Project ID: #280346; Alaska Gas | Date Sampled: 11/18/08 |
|-------------------------------|--|-----------------------------------|
| 2500 Camino Diablo, Ste. #200 | | Date Received: 11/18/08 |
| | Client Contact: Jeremy Smith | Date Extracted: 11/21/08-11/22/08 |
| Walnut Creek, CA 94597 | Client P.O.: | Date Analyzed 11/21/08-11/22/08 |

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Analytical methods SW8021B/8015Cm Extraction method SW5030B Lab ID Client ID Matrix TPH(g) MTBE Benzene Toluene Ethylbenzene Xylenes DF % SS 001A MW-1R W 430,d1 ND 4.1 18 12 100 99 002A W MW-2420,d1 27 25 0.7046 47 1 99 003A W 26,000 100 590 MW-3 4500,d1 86 150 50 106 004A MW-4 W 24,000,d1 1500 820 190 1200 5000 50 113 005A MW-5 W 130,d1 ND<15 2.3 1.6 ND ND 1 113 006A MW-6 W ND 66 2.4 ND ND 0.701 97 007A EX-1 W 8900,d1 910 1400 290 360 1300 20 124 Reporting Limit for DF = 1; 0.5 W 5 50 0.5 0.5 0.5 μ g/L ND means not detected at or 1.0 0.05 0.005 0.005 0.005 0.005 mg/Kg above the reporting limit

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in μ g/wipe, product/oil/non-aqueous liquid samples in mg/L.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8260B

QC Matrix: Water BatchID: 39748 WorkOrder: 0811575 W.O. Sample Matrix: Water

| EPA Method: SW8260B Extraction: SW5030B Spiked Sample ID: 0 | | | | | | | | | | 0811574-0 | 09A | |
|---|--------|--------|--------|--------|--------|--------|--------|---------------------------------|----------|-----------|----------|-----|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD Acceptance Criteria (9 | | | | |
| Anayo | μg/L | μg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| tert-Amyl methyl ether (TAME) | ND | 10 | 109 | 94.8 | 14.2 | 108 | 111 | 2.14 | 70 - 130 | 30 | 70 - 130 | 30 |
| t-Butyl alcohol (TBA) | ND | 50 | 102 | 86.8 | 15.8 | 94.5 | 99.8 | 5.42 | 70 - 130 | 30 | 70 - 130 | 30 |
| 1,2-Dibromoethane (EDB) | ND | 10 | 115 | 97.9 | 15.6 | 112 | 113 | 1.12 | 70 - 130 | 30 | 70 - 130 | 30 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 10 | 129 | 113 | 14.0 | 129 | 125 | 3.30 | 70 - 130 | 30 | 70 - 130 | 30 |
| Diisopropyl ether (DIPE) | 3.2 | 10 | 121 | 106 | 10.1 | 116 | 117 | 1.13 | 70 - 130 | 30 | 70 - 130 | 30 |
| Ethyl tert-butyl ether (ETBE) | ND | 10 | 125 | 108 | 14.4 | 124 | 126 | 1.74 | 70 - 130 | 30 | 70 - 130 | 30 |
| Methyl-t-butyl ether (MTBE) | ND | 10 | 104 | 90.3 | 14.4 | 101 | 105 | 3.63 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS1: | 93 | 25 | 106 | 105 | 0.171 | 106 | 107 | 1.10 | 70 - 130 | 30 | 70 - 130 | 30 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 39748 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 0811575-001B | 11/18/08 1:05 PM | 11/19/08 | 11/19/08 2:38 PM | 0811575-002B | 11/18/08 1:20 PM | 11/19/08 | 11/19/08 3:17 PM |
| 0811575-003B | 11/18/08 1:10 PM | 11/21/08 | 11/21/08 3:30 PM | 0811575-004B | 11/18/08 | 11/24/08 | 11/24/08 4:52 PM |
| 0811575-005B | 11/18/08 12:50 PM | 11/22/08 | 11/22/08 6:08 AM | 0811575-006B | 11/18/08 12:55 PM | 11/22/08 | 11/22/08 6:51 AM |
| 0811575-007B | 11/18/08 1:25 PM | 11/24/08 | 11/24/08 5:38 PM | | | | |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 39662 WorkOrder: 0811575

| EPA Method: SW8021B/8015Cm Extraction: SW5030B Spiked Sample ID: 08 | | | | | | | | | | 0811451-0 | 01A | |
|---|--------|--------|--------|--------|--------|--------|--------|----------|----------|-----------|--------------|-----|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acc | eptance | Criteria (%) | |
| Analyte | μg/L | μg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| TPH(btex) [£] | ND | 60 | 88.8 | 92.2 | 3.76 | 108 | 98.8 | 9.21 | 70 - 130 | 20 | 70 - 130 | 20 |
| MTBE | ND | 10 | 107 | 112 | 5.31 | 116 | 110 | 5.57 | 70 - 130 | 20 | 70 - 130 | 20 |
| Benzene | ND | 10 | 91.2 | 94.5 | 3.54 | 89.6 | 92.1 | 2.81 | 70 - 130 | 20 | 70 - 130 | 20 |
| Toluene | ND | 10 | 101 | 104 | 3.21 | 102 | 103 | 0.943 | 70 - 130 | 20 | 70 - 130 | 20 |
| Ethylbenzene | ND | 10 | 99.5 | 103 | 3.05 | 99.5 | 101 | 1.52 | 70 - 130 | 20 | 70 - 130 | 20 |
| Xylenes | ND | 30 | 110 | 113 | 2.87 | 111 | 111 | 0 | 70 - 130 | 20 | 70 - 130 | 20 |
| %SS: | 97 | 10 | 94 | 94 | 0 | 93 | 94 | 1.16 | 70 - 130 | 20 | 70 - 130 | 20 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 39662 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|------------------|----------------|------------------|--------|--------------|----------------|---------------|
| 0811575-001A | 11/18/08 1:05 PM | f 11/21/08 | 11/21/08 3:50 AM | | | | |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = <math>100 * (MS - MSD) / ((MS + MSD) / 2).

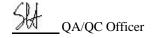
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 39719 WorkOrder: 0811575

| EPA Method: SW8021B/8015Cm Extraction: SW5030B Spiked Sample ID: 08 | | | | | | | | | 0811572-0 | 01A | | |
|---|--------|--------|--------|--------|--------|--------|--------|----------|-----------|---------|--------------|-----|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acc | eptance | Criteria (%) | |
| Attalyte | μg/L | μg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| TPH(btex) [£] | ND | 60 | 102 | 104 | 2.12 | 92.4 | 87.4 | 5.57 | 70 - 130 | 20 | 70 - 130 | 20 |
| MTBE | ND | 10 | 109 | 112 | 2.29 | 90 | 99.2 | 9.69 | 70 - 130 | 20 | 70 - 130 | 20 |
| Benzene | ND | 10 | 96.9 | 97.7 | 0.763 | 94.2 | 90.4 | 4.14 | 70 - 130 | 20 | 70 - 130 | 20 |
| Toluene | ND | 10 | 104 | 104 | 0 | 85.5 | 80.6 | 5.92 | 70 - 130 | 20 | 70 - 130 | 20 |
| Ethylbenzene | ND | 10 | 105 | 106 | 1.22 | 94.9 | 90.1 | 5.11 | 70 - 130 | 20 | 70 - 130 | 20 |
| Xylenes | ND | 30 | 116 | 115 | 0.736 | 89.9 | 88 | 2.13 | 70 - 130 | 20 | 70 - 130 | 20 |
| %SS: | 98 | 10 | 96 | 95 | 0.878 | 102 | 97 | 4.37 | 70 - 130 | 20 | 70 - 130 | 20 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 39719 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|------------------|----------------|------------------|--------|--------------|----------------|---------------|
| 0811575-002A | 11/18/08 1:20 PM | f 11/21/08 | 11/21/08 3:16 AM | | | | |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

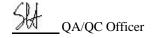
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 39749 WorkOrder: 0811575

| EPA Method: SW8021B/8015Cm Extraction: SW5030B Spiked Sample ID: 081 | | | | | | | | | | 0811593-0 | 01A | |
|--|--------|--------|--------|--------|--------|--------|--------|----------|----------|-----------|--------------|-----|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acc | eptance | Criteria (%) | |
| Attalyte | μg/L | μg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| TPH(btex) [£] | ND | 60 | 103 | 106 | 2.80 | 82.8 | 80.6 | 2.76 | 70 - 130 | 20 | 70 - 130 | 20 |
| MTBE | ND | 10 | 93.8 | 94.9 | 1.15 | 92 | 98.8 | 7.11 | 70 - 130 | 20 | 70 - 130 | 20 |
| Benzene | ND | 10 | 88.4 | 90.2 | 2.04 | 83.6 | 91.3 | 8.76 | 70 - 130 | 20 | 70 - 130 | 20 |
| Toluene | ND | 10 | 88.2 | 90.2 | 2.10 | 83 | 90.2 | 8.28 | 70 - 130 | 20 | 70 - 130 | 20 |
| Ethylbenzene | ND | 10 | 94.5 | 95.6 | 1.19 | 85.6 | 92.9 | 8.16 | 70 - 130 | 20 | 70 - 130 | 20 |
| Xylenes | ND | 30 | 108 | 100 | 7.41 | 93.3 | 83 | 11.7 | 70 - 130 | 20 | 70 - 130 | 20 |
| %SS: | 95 | 10 | 103 | 100 | 3.36 | 91 | 97 | 7.39 | 70 - 130 | 20 | 70 - 130 | 20 |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 39749 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 0811575-003A | 11/18/08 1:10 PM | 11/21/08 | 11/21/08 8:52 AM | 0811575-003A | 11/18/08 1:10 PM | 11/22/08 | 11/22/08 2:44 AM |
| 0811575-004A | 11/18/08 | 11/21/08 | 11/21/08 6:53 AM | 0811575-005A | 11/18/08 12:50 PM | 11/21/08 | 11/21/08 2:43 AM |
| 0811575-006A | 11/18/08 12:55 PM | 11/21/08 | 11/21/08 2:10 AM | 0811575-007A | 11/18/08 1:25 PM | 11/21/08 | 11/21/08 6:23 AM |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

