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Alameda County
Environmental Health

June 26, 2007

REPORT
of
SOIL, GROUNDWATER, AND SOIL VAPOR ASSESSMENT
(Revised)
ASE JOB NO. 2808
at
Lim Property
250 8th Street
Oakland, California

Submitted by:
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TABLE OF CONTENTS

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TABLE OF CONTENTS
(Continued)

LIST OF TABLES

LIST OF APPENDICES

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1.0 INTRODUCTION

This submittal presents Aqua Science Engineers, Inc. (ASE's) revised report for an additional soil, groundwater and soil vapor assessment at the Lim Family Property located at 250 8th Street in Oakland, California (Figures 1 and 2). This work was requested by the Alameda County Health Care Services Agency (ACHCSA) in their letters dated November 7, 2005 and May 12, 2006. The Remedial Action Plan (RAP) previously submitted on August 4, 2006 contained the other items requested in the letters. This report has been revised to correct the soil vapor concentrations reported in the May 10, 2007 report and associated discussions and recommendations.

2.0 BRIEF SITE HISTORY AND BACKGROUND INFORMATION

2.1 May 1992 Underground Storage Tank Removal

A gasoline service station previously occupied the site. In May 1992, ASE removed ten underground fuel storage tanks (USTs) from the site. The USTs consisted of one (1) 10,000-gallon gasoline tank, one (1) 5,000-gallon diesel tank, three (3) 2,000-gallon gasoline tanks, one (1) 2,000-gallon diesel tank, three (3) 500-gallon gasoline tanks and one (1) 250-gallon waste oil tank. Up to 10,000 parts per million (ppm) total petroleum hydrocarbons as gasoline (TPH-G) and 5,900 ppm total petroleum hydrocarbons as diesel (TPH-D) were detected in soil samples collected during the tank removal.

2.2 December 1992 through March 1993 Soil Overexcavation

Between December 1992 and March 1993, All Environmental of San Ramon, California overexcavated 1,762 cubic yards of soil from the site and off-hauled the soil to the BFI Landfill in Livermore, California for disposal (Figure 2). Analytical results show that all on-site soil with hydrocarbon concentrations greater than 10 ppm was removed from the site with the exception of soil along the 8th Street shoring. Up to 1,800 ppm TPH-G and 120 ppm TPH-D were detected in soil samples collected along the shoring indicating that contamination likely extends below 8th Street. This contamination left in place may still be a source for groundwater contamination.

2.3 January 1995 Monitoring Well Installation

In January 1995, ASE installed monitoring wells MW-1 and MW-2 at the site (Figure 2). High hydrocarbon concentrations were detected in monitoring well MW-2, downgradient of the site. Moderate hydrocarbon concentrations were detected in on-site monitoring well MW-1.

2.4 January 1996 Borings and Groundwater Sampling

In July 1996, ASE collected groundwater samples from each monitoring well and drilled borings BH-C and BH-D to further define the width of the hydrocarbon plume downgradient of the site.

Relatively high hydrocarbon concentrations were detected in groundwater samples collected from monitoring well MW-2, downgradient of the site. Slightly lower but still very high hydrocarbon concentrations were detected in groundwater samples collected from boring BH-D, west of monitoring well MW-2. Very low hydrocarbon concentrations were detected in groundwater samples collected from monitoring well MW-1, located on the site, and boring BH-C, east of monitoring well MW-2. Based on these findings, the plume appeared to be moving to the south of Excavation I.

2.5 Quarterly Groundwater Monitoring

In April 1995, ASE began a quarterly groundwater monitoring program for the site. Since that time, the site has been on either a quarterly or semi-annual sampling schedule. Depth to groundwater data and analytical results for all groundwater sampling periods are tabulated in Tables One through Three.

2.6 June 1997 Remedial Action Plan

On June 5, 1997, ASE prepared a remedial action plan (RAP) addressing the need for groundwater remediation at the site, describing the appropriateness of several remedial options and choosing an option. Low flow hydrogen peroxide injection was chosen as the groundwater remediation option of choice for the site in order to raise dissolved oxygen (DO) concentrations in the groundwater to stimulate in-situ bioremediation.

2.7 February 1999 Hydrogen Peroxide Remediation System Installation

On February 2 and 3, 1999, five (5) injection wells were installed at the site (Figure 2). On February 18, 1999, the injection system began operation. It delivered a water and hydrogen peroxide solution to each injection well on a constant basis. DO concentrations within the injection wells rose to above 20 ppm. Groundwater in downgradient monitoring well MW-2 never showed a measurable increase in DO.

2.8 June 1999 Discovery of Free-Floating Hydrocarbons

On June 22, 1999, while measuring the DO content within the injection wells, ASE discovered that the DO probe had a very strong gasoline odor when removed from injection well IW-5. A clear bailer was inserted into IW-5 to check for the presence of free-floating hydrocarbons. The bailer contained approximately 18-inches of what appeared to be aged gasoline. On June 24, 1999, ASE returned to the site with an interface probe to accurately measure the thickness of the free-floating hydrocarbons. On that day, 1.75-feet of free-floating hydrocarbons was measured on the water surface in IW-5. Injection well IW-4 (15-feet east of IW-5) was measured with the interface probe and did not contain a measurable thickness of floating hydrocarbons. On June 24, 1999, ASE bailed the free-floating hydrocarbons from IW-5 until only a sheen was present

on the water surface. Approximately 3 gallons of product was removed from IW-5. ASE continued to measure and bail the floating product within well IW-5 on a bi-weekly basis.

2.9 January 2000 Monitoring Well Installation

In January 2000, ASE installed groundwater monitoring wells MW-3 and MW-4, east of injection well IW-5 and monitoring well MW-2 (Figure 2). High hydrocarbon concentrations were detected in groundwater samples collected from both of these wells, including up to 140,000 parts per billion (ppb) TPH-G, 13,000 ppb TPH-D and 22,000 ppb benzene.

2.10 April 2000 Groundwater Sampling

In April 2000, ASE collected groundwater samples from all four monitoring wells. Elevated hydrocarbon concentrations were detected in groundwater samples collected from monitoring wells MW-2, MW-3 and MW-4, including up to 240,000 ppb TPH-G, 700,000 ppb TPH-D and 35,000 ppb benzene. Monitoring well MW-3 contained free-floating hydrocarbons.

2.11 Hydrogen Peroxide System Discontinuation

On November 27, 2000, with the approval of the Alameda County Health Care Services Agency, ASE turned off the hydrogen peroxide injection system since there was no noticeable DO increase in downgradient monitoring wells MW-2 and MW-4 on the west side of 8th Street.

2.12 May 2002 Monitoring Well Installation

In May 2002, ASE installed groundwater monitoring wells MW-5 and MW-7 south of the site, across 8th Street, and MW-6 northwest of the site approximately 70 feet west of existing monitoring well MW-3 (Figure 2). Low concentrations of MTBE were identified in groundwater samples collected from wells MW-5 and MW-6. High concentrations of petroleum hydrocarbons were identified in well MW-7, including up to 38,000 ppb TPH-G and 890 ppb benzene.

2.13 October 2004 Duel-Phase Extraction Event

In October 2004, CalClean mobilized to the site with a truck-mounted Dual-Phase Extraction (DPE) system to perform both a DPE pilot test and a 14-day DPE interim remediation event at the site. At the completion of the DPE interim remediation event, a total of 94,470 gallons of free-product and groundwater were removed from three extraction wells. The average TPH-G concentration in the extracted groundwater was 13,900 ppb; the average benzene concentration of that extracted groundwater was 780 ppb. The extracted groundwater was treated on-site with activated carbon vessels, and then discharged, under permit, to the East Bay Municipal Utilities District (EBMUD) sanitary sewer system on-site.

A total of 2.3 million cubic feet of hydrocarbon-laden vapors were extracted from three extraction wells during the 15 day event. Based on field measurements and laboratory analytical data, over 7,000 pounds of petroleum hydrocarbons were extracted from three extraction wells during the 15-day event. This equates to approximately 1,150 gallons of petroleum hydrocarbons. The extracted vapors were treated on-site by CalClean's thermal oxidizer. Based on the success of this DPE event, ASE recommended a second DPE event for the site prior to designing and installing a long-term remediation system.

2.14 Current Quarterly Groundwater Monitoring Program

The site is currently on a quarterly groundwater monitoring program. Depth to groundwater and analytical results for all historical groundwater sampling events are tabulated in Tables One through Three.

2.15 October 2006 Workplan for Additional Assessment, Sensitive Receptor Survey, Area Well Survey, Conduit and Potential Preferential Pathway Survey, and Conceptual Site Model

In October 2006, ASE prepared a workplan to conduct an additional soil and groundwater assessment at the site. Also included in this document were a sensitive receptor survey, an area well survey, a conduit and potential preferential pathway survey, and a conceptual site model.

ASE prepared a map showing property usage within approximately one block of the site, specifically to search for sensitive receptors such as schools, daycare facilities, hospitals, or medical facilities. A summer school (Chinese Presbyterian Church School) is located across 8th Street to the southwest of the site at 265 8th Street. This school has monitoring wells MW-4 and MW-7 just in front of the school, and it is possible that the hydrocarbon plume extends beneath the church and school. No other schools, daycares, or medical facilities were located. None of the buildings across 8th Street downgradient of the site appeared to have basements. The nearest surface water bodies are the Oakland Inner Harbor and Lake Merritt, both over 2,000-feet from the site. It is highly unlikely that the hydrocarbon plume has reached either of these surface water bodies.

A conduit and potential preferential pathway study was conducted by reviewing Underground Service Alert (USA) markings in the site vicinity, reviewing as-built drawings supplied by the city, and contacting individuals that would have knowledge of the individual utility lines. There were no underground utility lines beneath 8th Street directly downgradient of the site that could present a potential preferential pathway for the movement of groundwater. Storm and sanitary sewer lines beneath Alice Street, crossgradient of the site, and beneath 7th Street, a block (approximately 350-feet) downgradient could be potential conduits for the preferential movement of groundwater only during very rare periods of unusually high groundwater levels.

ASE conducted an area well survey to locate water wells within a 2,000-foot radius of the site. A total of 149 wells are located within the study area. Of these wells, 129 are listed as monitoring or test wells, 10 are listed as piezometers, one is listed as a cathodic protection well, two are listed as extraction wells (for remediation), one is an air sparging well, one is listed as a domestic well, one is listed as an abandoned well, two are listed as destroyed wells, and two are of unknown usage. Although listed as a domestic well, the well labeled as domestic is owned by Western Union and has a listed depth of 33-feet. Based on this information, it is highly unlikely that this well is used for groundwater consumption. Based on all of the information known from these wells, (a) no water supply wells are located in the site vicinity, and (b) none of the other wells downgradient of the site appear to present a potential conduit for the downward movement of contamination.

2.16 January 2007 Soil Vapor Sampling Workplan

On January 18, 2007, ASE prepared a workplan to conduct a soil vapor sampling assessment at the site. This work was requested by the ACHCSA in their letter dated November 20, 2006. This soil vapor survey was to be conducted in conjunction with the work described in ASE's October 23, 2007 workplan. This workplan was subsequently approved by the ACHCSA with the addition of three additional soil vapor sample locations.

3.0 SCOPE OF WORK

The purpose of this assessment was to (a) further define the horizontal and vertical extent of soil and groundwater contamination related to the site, and (b) determine the risk related to potential vapor intrusion to indoor air for buildings on-site, adjacent to the site, and downgradient of the site. The scope of work for this project was to:

1) Obtain a drilling permit from the Alameda County Public Works Agency.

2) Obtain excavation permits from the City of Oakland to drill in 7th and 8th Streets.

3) Contract with a subsurface utility locating service to clear drilling locations of underground utility lines.

4) Drill six soil borings in both on-site and off-site locations using a Geoprobe and collect soil and groundwater samples for analysis.

5) Drill one soil boring to a depth of 60-feet bgs using a Geoprobe with a dual-wall sampler collecting soil samples continuously and collecting multi-depth groundwater samples from adjacent borings using a Hydropunch sampler.

6) Following collection of the soil and groundwater samples, backfill the borings described in tasks 4 and 5 with neat cement placed by tremie pipe.

7) Analyze soil and groundwater samples collected from each boring described in tasks 4 and 5 at a CAL-DHS certified analytical laboratory for TPH-D by EPA Method 8015 and TPH-G, BTEX, fuel oxygenates and lead scavengers by EPA Method 8260B.

8) Push seven vapor extraction points to 3-feet bgs in both on and off-site locations and collect soil vapor samples.

9) Analyze one soil vapor sample collected from each point at a CAL-DHS certified analytical laboratory for TPH-G and BTEX.

10) Backfill each boring described in task 8 with neat cement.

11) Prepare a report presenting results from this assessment. This report will present tabulated analytical results, an updated conceptual site model, conclusions, and recommendations for appropriate feasibility tests, as necessary.

4.0 DRILL SOIL BORINGS AND COLLECT SOIL AND GROUNDWATER SAMPLES

4.1 Permits

Prior to drilling, ASE obtained a drilling permit from the Alameda County Public Works Agency (ACPWA). ASE also obtained excavation permits from the City of Oakland to allow for drilling in city streets. Copies of the permits are presented in Appendix A. ASE also notified USA to have underground public utilities in the vicinity of the site marked prior to drilling. Drilling locations were also cleared of utility lines by Subtronic Corporation of Concord, California prior to drilling.

4.2 Drill Deeper Boring and Collect Soil Samples

On March 1, 2007, Vironex, Inc. of San Leandro, California drilled soil boring SB-1 using a Geoprobe direct-push hydraulic sampling rig equipped with a dual-walled sampler. The dual-walled sampler allows the boring to advance with an external conductor casing to minimize potential cross-contamination by sealing off potentially contaminated soil and groundwater outside the external casing from the internal boring opening and sampling equipment. The purpose of this boring was to determine the vertical extent of hydrocarbons at the site in one of the locations where very high hydrocarbon concentrations was expected. The boring location is shown on Figure 3. ASE geologist Mike Rauser directed the drilling. Soil samples were collected by driving a dual-walled sampler into the ground using hydraulic direct-push methods. The internal drive sampler was lined with acetate tubes and this internal sampler was removed and then replaced after each sampling run.

Undisturbed soil samples were collected continuously as drilling progressed for lithologic and hydrogeologic description and for possible chemical analysis. Selective soil samples were immediately cut, sealed with Teflon squares and plastic end caps, and labeled with the site location, sample designation, date and time the sample was collected, and the initials of the person collecting the sample. The samples were placed into an ice chest containing wet ice for delivery under chain of custody to a CAL-DHS certified analytical laboratory under chain of custody documentation.

Soil from the remaining tubes was described by the site geologist using the Unified Soil Classification System (USCS) and was screened for volatile organic compounds (VOCs) using a photoionization detector (PID). The soil was screened by emptying soil from one of the sample tubes into a plastic bag. The bag was then sealed and placed in the sun for approximately 10 minutes. After the volatile compounds were allowed to volatilize, the PID measured the vapor in the bag through a small hole punched in the bag. PID readings are used as a screening tool only, since the procedures are not as rigorous as those used in the laboratory. The PID readings are shown on the boring logs presented in Appendix B.

4.3 Drill Shallow Soil Borings and Collect Soil Samples

On February 27 and 28, 2007, Vironex, Inc. drilled soil borings SB-2 through SB-7 in both on and off-site locations using a Geoprobe direct-push drill rig. The purpose of these borings was to define the extent of elevated hydrocarbon concentrations in soil and groundwater both upgradient to the north and downgradient to the south. The boring locations are shown on Figure 3. ASE geologist Mike Rauser directed the drilling. The soil samples were collected by driving a Macro-Core sampler lined with acetate tables into the ground using hydraulic direct-push.

Undisturbed soil samples were collected continuously as drilling progressed for lithologic and hydrogeologic description and for possible chemical analysis. Selective soil samples were immediately cut, sealed with Teflon squares and plastic end caps, and labeled with the site location, sample designation, date and time the sample was collected, and the initials of the person collecting the sample. The samples were placed into an ice chest containing wet ice for delivery under chain of custody to a CAL-DHS certified analytical laboratory under chain of custody documentation.

Soil from the remaining tubes was described by the site geologist using the USCS and was screened for VOCs using a PID. The soil was screened by emptying soil from one of the sample tubes into a plastic bag. The bag was then sealed and placed in the sun for approximately 10 minutes. After the volatile compounds were allowed to volatilize, the PID measured the vapor in the bag through a small hole punched in the bag. PID readings are used as a screening tool only, since the procedures are not as rigorous as those used in the laboratory. The PID readings are listed on the boring logs presented in Appendix B.

4.4 Collect Groundwater Samples

Once groundwater was encountered, a temporary PVC well casing was driven into place for the collection of groundwater samples. Groundwater samples were removed from the boring with a pre-cleaned bailer. The groundwater samples were contained in 40-ml volatile organic analysis (VOA) vials, preserved with hydrochloric acid, and sealed without headspace. The samples were then labeled and stored in an ice chest with wet ice for transport to the analytical laboratory under chain of custody.

Groundwater samples from deeper water-bearing zones were collected using a Hydropunch. The Hydropunch was driven into the targeted zone in a boring drilled immediately adjacent to the boring drilled for soil samples and lithology. The rods were then checked to verify that there was no leakage of groundwater prior to opening. Once the rods were shown to be dry, the Hydropunch screen was then opened and groundwater was allowed to enter the rods. Groundwater samples were then collected from within the rods using a bailer. Groundwater samples were then decanted from the bailer into 40-ml VOA vials, preserved with hydrochloric acid and sealed without headspace. The samples were then labeled with the site location, sample designation, date and time the samples were collected, and the initials of the person collecting the samples. The samples were then sealed in plastic bags and cooled in an ice chest with wet ice for transport to a state-certified analytical laboratory under chain-of-custody.

Additional deeper water samples were obtained in the same boring by placing a closed Hydropunch back into the same boring and continuing into the next deeper targeted zone for sampling, and then repeating the sampling process.

4.5 Decontamination and Borehole Backfilling

Drilling equipment was cleaned with an Alconox solution between sampling intervals and between borings to prevent potential cross-contamination. Following collection of the soil and groundwater samples, each boring was backfilled with neat cement to the ground surface.

5.0 SOIL VAPOR SAMPLING

5.1 Collect Soil Vapor Samples

On March 5 through 8, 2006, Vironex, Inc. pushed vapor collection points SV-1 through SV-7 in the locations shown on Figure 3. Vapor points were pushed to 3-feet bgs using drilling rods driven with a Geoprobe. The bottom of the rod contained an expendable point. Once at depth, the drive rod was retracted separating the expendable point and the rods and creating the desired void for sample collection. A Geoprobe Point Run Tubing (PRT) system adapter and new, unused polyethylene tubing were then advanced through the inner drive rod and secured to the expendable point holder at the base of the rods. A hydrated bentonite seal was placed around the rods and ground surface to prevent ambient air intrusion into the borehole. The borehole was

then allowed to equilibrate prior to purging and sampling. The tubing was then purged of five volumes to insure that all ambient air was removed from the tubing using the Geoprobe vacuum/volume system. The sample was collected in a 1-liter Summa canister with a rate between 100 to 200-ml per minute. The samples were labeled with the site location, sample designation, date and time the sample was collected, and the initials of the person collecting the sample. The samples were then be delivered under chain of custody to a CAL-EPA certified analytical laboratory. ASE geologist Mike Rauser directed the sampling.

5.2 Decontamination and Borehole Backfilling

Drilling equipment was cleaned with an Alconox solution between borings to prevent potential cross-contamination. Following collection of the soil vapor samples, each boring was backfilled with neat cement to the ground surface.

6.0 LITHOLOGY AND HYDROGEOLOGY

Sediments encountered beneath the site generally consisted of silty sand from beneath the concrete or asphalt surface to approximately 33-feet bgs, silty clay from 33-feet bgs to approximately 42-feet bgs, silty sand from approximately 42-feet to 49-feet bgs, and silty clay from 49-feet to the total depth explored of 60-feet bgs. Groundwater was generally encountered between approximately 16 to 18-feet bgs. Boring logs are presented in Appendix B.

7.0 ANALYTICAL RESULTS FOR SOIL AND GROUNDWATER

7.1 Soil Sample Analysis

Soil samples collected from 5-foot intervals between 20 and 60-feet bgs in boring SB-1 were analyzed by Kiff Analytical, LLC of Davis, California (ELAP #2236) for TPH-G, BTEX and five oxygenates by EPA Method 8260B, and TPH-D by EPA Method 8015. Soil samples collected from 5 and 15-feet bgs in boring SB-2, and from 15-feet bgs in borings SB-3 through SB-7 were also analyzed for TPH-G, BTEX and five oxygenates by EPA Method 8260B, and TPH-D by EPA Method 8015. The analytical results are tabulated in Table Four, and certified analytical report and chain of custody are presented in Appendix C.

Hydrocarbon concentrations from these soil samples were compared to California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) environmental screening levels (ESLs) for soil at residential sites where groundwater is not a current or potential source of drinking water. These ESLs are presented in the "Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater" document dated February 2005 (Volume 1; Table D).

The TPH-G, TPH-D and BTEX concentrations in the soil sample collected from 20-feet bgs in boring SB-1 exceeded the RWQCB ESL for residential soil where groundwater is not a current or potential source of drinking water. The TPH-G, TPH-D and benzene concentrations in the soil

sample collected from 25-feet bgs in boring SB-1 also exceeded ESLs. None of the soil samples collected from boring SB-1 between 30-feet bgs and the total depth of 60-feet contained hydrocarbon concentrations exceeding ESLs.

7.2 Groundwater Sample Analysis

Groundwater samples collected from all borings were analyzed by Kiff Analytical for TPH-G, BTEX and five oxygenates by EPA Method 8260B, and TPH-D by EPA Method 8015. The analytical results are tabulated in Table Five, and certified analytical report and chain of custody are presented in Appendix C.

Groundwater samples collected from all three depths (20-23-feet bgs, 28-31-feet bgs and 51-53-feet bgs) in boring SB-1 contained concentrations of TPH-G, benzene, toluene and total xylenes exceeding ESLs. Ethyl benzene concentrations also exceeded ESLs in samples collected from the 20-23-foot and 28-31-foot depths in this boring. It should be noted that concentrations decreased by an order of magnitude with each successive sample depth. Boring SB-2 contained TPH-G and TPH-D concentrations exceeding ESLs, although none of the BTEX concentrations in this boring exceeded ESLs.

None of the samples from the remaining borings (SB-3 through SB-7) contained TPH-G or BTEX concentrations exceeding ESLs, although groundwater samples collected from SB-3 and SB-4 contained TPH-D at concentrations exceeding ESLs.

The only oxygenate detected was 9.8 ppb MTBE in the groundwater sample collected from boring SB-7. Given the fact that MTBE hasn't been detected in groundwater at the site at elevated concentrations and since there are several other gas stations within a block of the subject site, it is likely that this MTBE is not related to the subject site.

7.3 Vapor Sample Analysis

The vapor samples were analyzed by Air Toxics Ltd. of Folsom, California (ELAP #2110) for TPH-G and BTEX by Modified Method TO-3. The analytical results are tabulated in Table Six, and certified analytical reports are presented in Appendix D.

The vapor concentrations were compared to both residential and commercial/industrial shallow soil gas screening levels for evaluation of potential vapor intrusion concerns as presented in the "Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater" document prepared by the RWQCB dated February 2005 (Volume 2; Table E-2). Benzene concentrations in all of the vapor samples except SV-5 exceeded both residential and commercial/industrial ESLs. The TPH-G concentrations also exceeded residential ESLs in all samples except SV-5, and exceeded the commercial/industrial ESL in sample SV-6.

8.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the data collected from this assessment, ASE concludes the following:

- The horizontal extent of hydrocarbons is now adequately defined in soil and groundwater in every direction, except for TPH-G and TPH-D in the upgradient direction to the north. ASE recommends borings be drilled on the neighboring property to the north to complete the definition of the extent of hydrocarbons in this direction.

- The vertical extent of hydrocarbons in groundwater is not completely defined to below ESLs. However, there is a significant decrease in hydrocarbon concentrations with increased depth. In addition, although precautions were made to insure that hydrocarbons from shallower water-bearing zones were sealed off from the deeper water-bearing zone, it is possible given the very high concentrations in the shallower water-bearing zone that some of the hydrocarbons detected may be due to cross-contamination since drilling equipment had to pass through the highly contaminated shallow water-bearing zone to reach these deeper depths. It should be noted that no elevated hydrocarbon concentrations were detected in soil samples collected at or below 30-feet bgs. ASE recommends that a monitoring well be constructed to screen the water-bearing zone between 42 and 49-feet bgs. Since there are at least 11-feet of silty clay beneath the deepest water-bearing zone sampled, and since no hydrocarbons were detected in soil samples collected from this low permeability unit, it is unlikely that there has been any significant impacts to soil below 50-feet bgs.

- Soil vapor samples collected from six of the seven borings contained benzene concentrations exceeding the lowest residential and commercial/industrial exposure screening levels for potential vapor intrusion concerns. TPH-G concentrations also exceeded residential ESLs in six of the seven samples, and commercial/industrial ESLs in one of the samples. Based on these results, remediation will be required to address the elevated hydrocarbon concentrations in the vadose zone. ASE also recommends that further soil vapor sampling be conducted on the property north of the site.

- ASE has previously recommended the installation of a dual-phase extraction remediation system for the site. The previous dual-phase extraction events have proven very effective in the removal of a large mass of hydrocarbons. Given the fact that free-floating hydrocarbons still exist beneath the site, as well as beneath 8th Street downgradient of the site, ASE recommends the installation of a permanent dual-phase extraction system for the site. ASE will prepare a remedial action plan for the installation of our proposed system during the next quarter.

- If a deeper groundwater monitoring well proves actual significant impacts to groundwater in a water-bearing zone between 42 and 49-feet bgs, then additional investigation may be needed to assess this water bearing zone.

9.0 UPDATED CONCEPTUAL SITE MODEL

The site has had a release of both gasoline and diesel fuel either from the former USTs, piping or dispensers. Due to the age of the release, little MTBE has been detected in soil and groundwater at the site. Significant overexcavation has taken place at the site, although the excavation apparently did not extend into groundwater and a significant mass of hydrocarbons remain in groundwater and in the capillary zone soils, including free-floating hydrocarbons.

The groundwater flow direction is consistently to the south-southwest, which is consistent with the groundwater flow direction at nearby sites. The extent of hydrocarbons is defined crossgradient (to the east and west) and downgradient to the south. Elevated TPH-G and TPH-D concentrations exist in groundwater in the upgradient most borings, but no BTEX has been detected above ESLs in the upgradient most borings.

One boring (SB-1) has been drilled through one of the most contaminated portions of the site to define the vertical extent of contamination. This boring showed that the shallow silty sand water-bearing zone extends from the surface to 33-feet bgs. A silty clay aquitard separates the shallow water-bearing zone from a deeper silty sand water-bearing zone located between 42.5 and 49-feet bgs. A silty clay was located from beneath the silty sand water-bearing zone to the total depth explored of 60-feet. None of the soil samples collected at 30-feet or below contained hydrocarbon concentrations exceeding ESLs. However, groundwater samples collected from 50 to 53-feet bgs in the deeper water bearing-zone still contained hydrocarbon concentrations exceeding ESLs. Although precautions were made to minimize cross-contamination, ASE speculates that some of these concentrations may be related to cross-contamination since the sampling equipment had to pass through significant contamination to reach this depth.

Due to the depth of groundwater and the depth of the underground utility lines in 8th Street and Alice Street, it does not appear that there are any preferential pathways for the migration of groundwater contamination during normal water table conditions. During very rare periods of very high water levels, it may be possible that the sanitary and storm sewers beneath Alice Street could act as a conduit for the preferential movement of groundwater south of the site near 7th Street. However, Alice Street is generally crossgradient of the site's hydrocarbon plume and it does not seem likely that hydrocarbons related to the site have entered this conduit.

There are also no drinking water wells in the site vicinity. The only sensitive receptor is a small seasonal school southwest of the site across 8th Street. The primary risk related to groundwater contamination at the site appears to be vapor intrusion from soil and groundwater to indoor air in the buildings on and surrounding the site.

10.0 REPORT LIMITATIONS

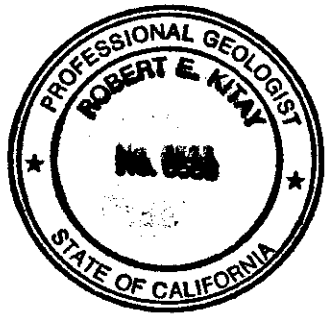
The results presented in this report represent conditions at the time of the soil, groundwater and soil vapor sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory.

It does not fully characterize the site for contamination resulting from unknown sources, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CAL-DHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

Should you have any questions or comments, please call us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.



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cc: Alice and May Lee Lim, c/o Russell Lim,

Mr. Jerry Wickham, Alameda County Health Care Services Agency (via upload to server)

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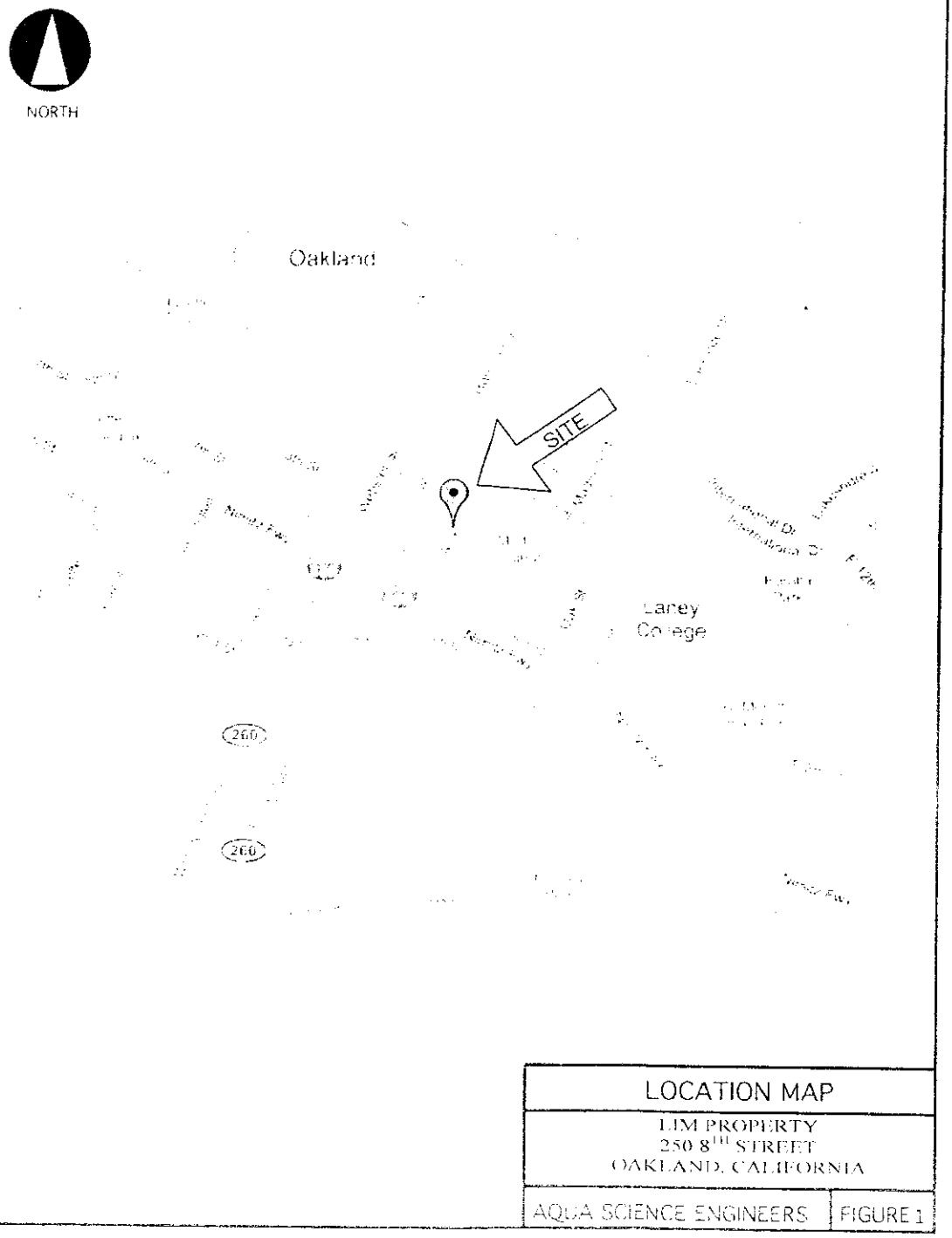
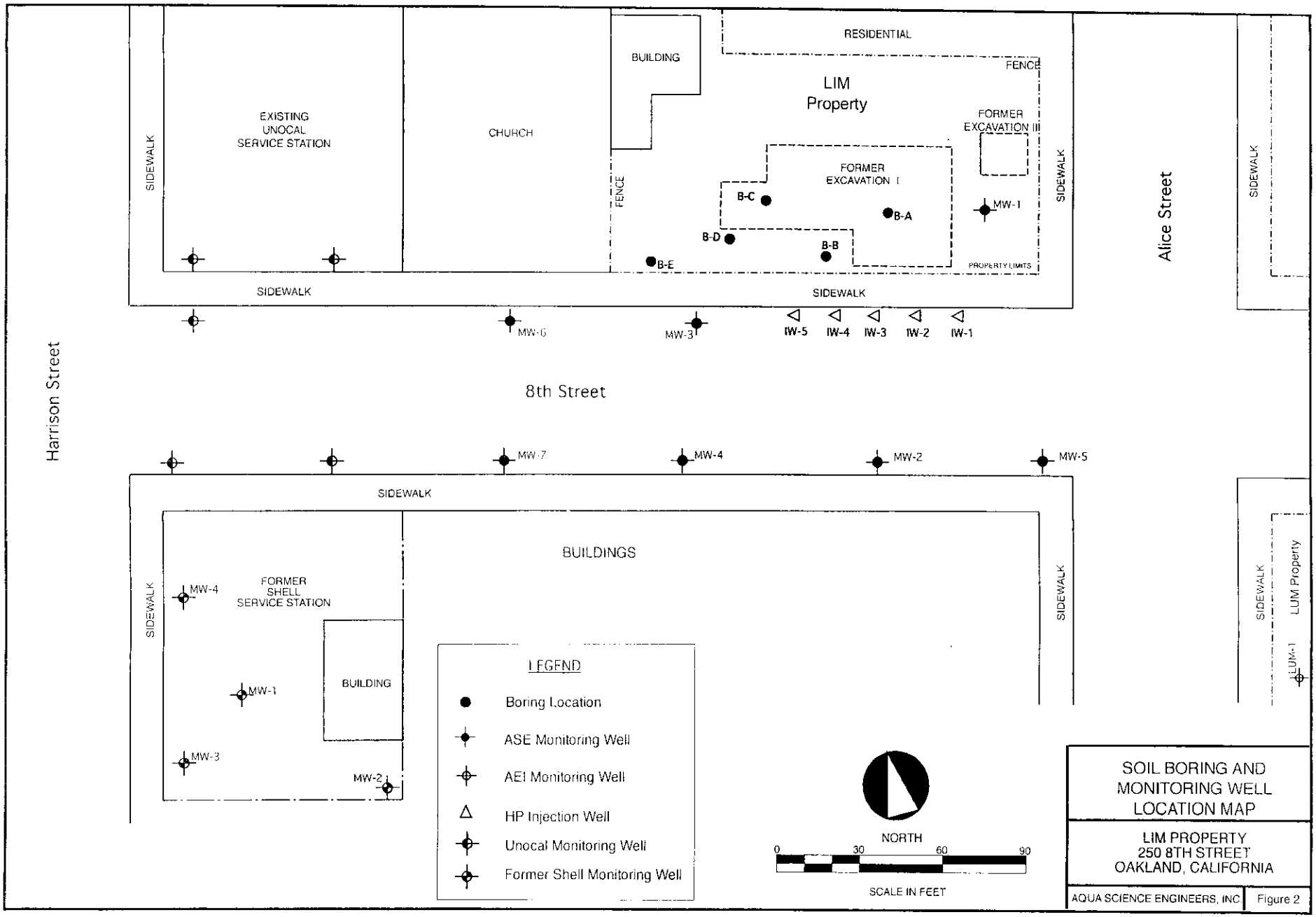
FIGURES



LOCATION MAP

LIM PROPERTY
250 8TH STREET
OAKLAND, CALIFORNIA

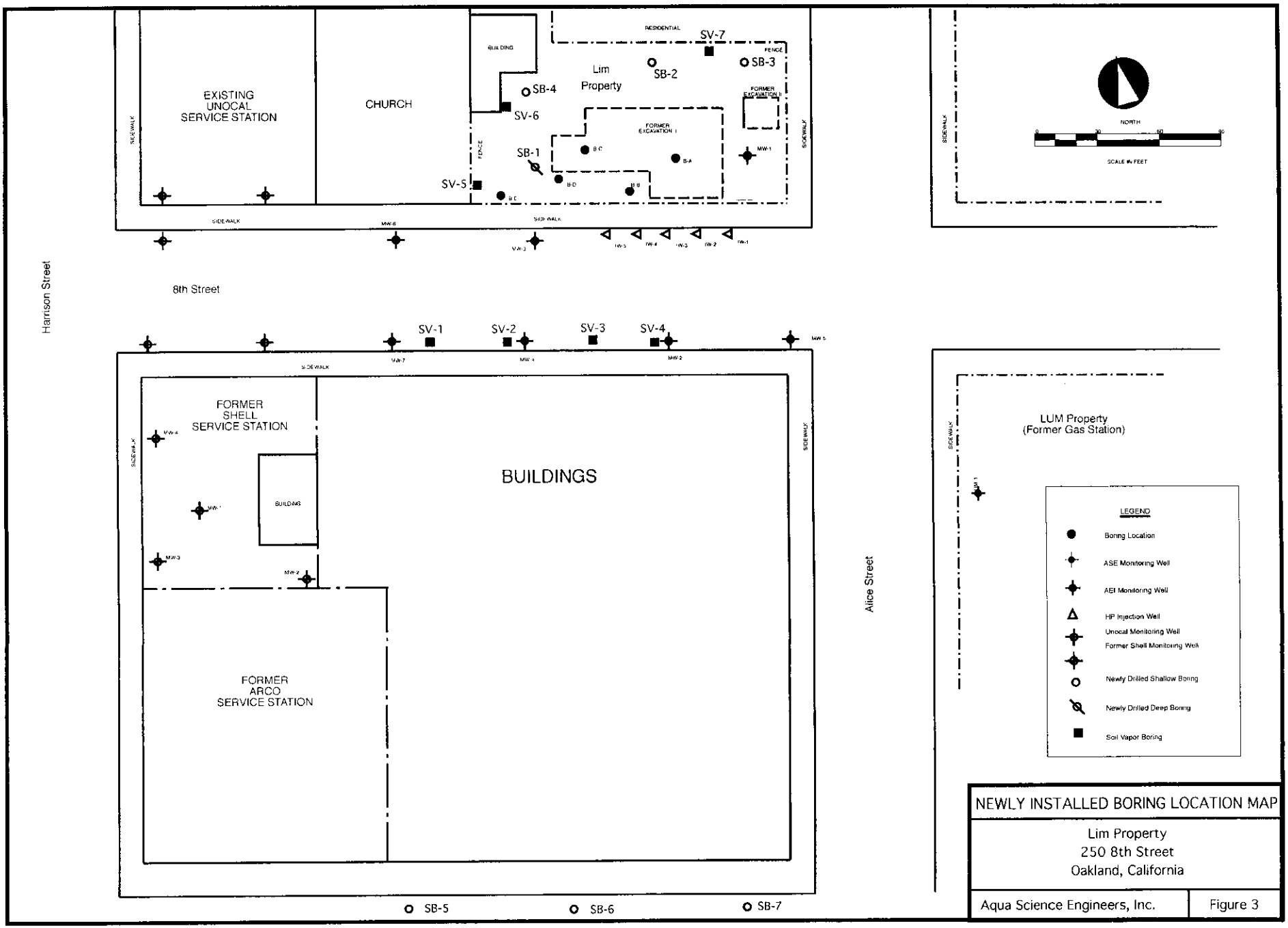
AQUA SCIENCE ENGINEERS | FIGURE 1



SOIL BORING AND MONITORING WELL LOCATION MAP

LIM PROPERTY
250 8TH STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC. | Figure 2



NEWLY INSTALLED BORING LOCATION MAP

Lim Property
250 8th Street
Oakland, California

Aqua Science Engineers, Inc.	Figure 3

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TABLES

TABLE ONE
Groundwater Elevation Data
Lim Family Property
250 8th Street
Oakland, CA

Well I.D.	Date of Measurement	Top of Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)
MW-1	01/30/95	25.51	16.21		9.30
	04/12/95		15.71		9.80
	07/14/95		16.71		8.80
	10/17/95		17.72		7.79
	01/12/96		18.03		7.48
	07/25/96		16.82		8.69
	01/06/97		15.60		9.91
	07/08/97		17.31		8.20
	01/26/98		15.21		10.30
	07/23/98		15.38		10.13
	01/05/99		16.82		8.69
	07/13/99		15.89		9.62
	01/12/00		17.44		8.07
	04/24/00		16.37		9.14
	07/20/00		16.30		9.21
	10/24/00		17.25		8.26
	01/18/01		17.29		8.22
	04/05/01		15.88		9.63
	07/17/01		16.54		8.97
	10/25/01		16.89		8.62
	01/21/02		14.92		10.59
	04/11/02		14.02		11.49
	06/11/02	29.72	15.33		14.39
	09/17/02		15.96		13.76
	12/18/02		16.14		13.58
	03/25/03		16.16		13.56
	06/23/03		16.01		13.71
	09/26/03		16.57		13.15
	12/18/03		16.41		13.31
	03/12/04		14.64		15.08
	06/17/04		15.71		14.01
	09/17/04		16.35		13.37
	12/17/04		16.10		13.62
	04/28/05		14.10		15.62
	07/19/05		15.94		13.78
	10/03/05		16.34		13.38
	12/06/05		16.21		13.51
	03/15/06		16.21		13.51
	06/28/06		14.92		14.80
	08/31/06		15.60		14.12
	11/21/06		17.20		12.52
	02/12/07		16.12		13.60

TABLE ONE
Groundwater Elevation Data
Lim Family Property
250 8th Street
Oakland, CA

Well I.D.	Date of Measurement	Top of Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)
MW-2	01/30/95	23.99	15.02		8.97
	04/12/95		14.75		9.24
	07/14/95		16.02		7.97
	10/17/95		16.94		7.05
	01/12/96		17.05		6.94
	07/25/96		16.02		7.97
	01/06/97		14.34		9.65
	07/08/97		16.52		7.47
	01/26/98		14.10		9.89
	07/23/98		14.70		9.29
	01/05/99		16.01		7.98
	07/13/99		15.40		8.59
	01/12/00		16.76		7.23
	04/24/00		15.67		8.32
	07/20/00		15.70		8.29
	10/24/00		16.56		7.43
	01/18/01		16.47		7.52
	04/05/01		15.88		8.11
	07/17/01		15.35		8.64
	10/25/01		15.63		8.36
	01/21/02		13.55		10.44
	04/11/02		13.74		10.25
	06/11/02	28.19	14.06		14.13
	09/17/02		14.67		13.52
	12/18/02		14.88		13.31
	03/25/03		15.11		13.08
	06/23/03		14.94		13.25
	09/26/03		15.49		12.70
	12/18/03		15.13		13.06
	03/12/04		13.50		14.69
	06/17/04		14.63		13.56
	09/17/04		15.19		13.00
	12/17/04		14.88		13.31
	04/28/05		13.39		14.80
	07/19/05		15.27		12.92
	10/03/05		15.57		12.62
	12/06/05		15.35		12.84
	03/15/06		12.65		15.54
	06/28/06		14.45		13.74
	08/31/06		15.37		12.82
	11/21/06		16.22		11.97
	02/12/07		16.12		12.07

TABLE ONE
Groundwater Elevation Data
Lim Family Property
250 8th Street
Oakland, CA

Well I.D.	Date of Measurement	Top of Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)
MW-3	01/12/00	24.25	16.68	0.01	7.58*
	04/24/00		15.58	0.15	8.79*
	07/20/00		16.01	0.41	8.57*
	10/24/00		16.95	0.21	7.47*
	01/18/01		16.63	0.21	7.79*
	04/05/01		15.16	0.23	9.27*
	07/17/01		15.92	0.39	8.64*
	10/25/01		16.26	0.38	8.29*
	01/21/02		14.08	0.16	10.30*
	04/11/02		14.59	0.54	10.09*
	06/11/02	28.58	15.16	0.90	14.14*
	09/17/02		16.04	1.24	13.53*
	10/01/02		16.14	1.23	13.42*
	10/25/02		15.80	0.60	13.26*
	11/12/02		15.87	0.47	13.09*
	12/18/02		15.42	0.47	13.54*
	03/25/03		16.11	1.14	13.38*
	06/23/03		16.58	1.86	13.49*
	09/26/03		16.11	0.66	13.00*
	12/18/03		15.83	0.59	13.22*
	03/12/04		14.51	1.21	15.04*
	06/17/04		15.25	0.68	13.87*
	09/17/04		16.14	0.96	13.21*
	12/17/04		15.05	0.25	13.73*
	01/13/05		13.40	0.45	15.54*
	04/28/05		15.31	2.43	15.21*
	07/19/05		16.29	1.67	13.63*
	10/03/05		16.10	1.47	13.66*
	12/06/05		15.04	1.17	14.48*
	03/15/06		12.65	2.41	15.49*
	06/28/06		13.55	2.61	16.16*
	08/31/06		14.85	2.20	15.49*
	11/21/06		16.05	1.10	13.41*
	02/12/07		15.96	0.35	12.90*

TABLE ONE
Groundwater Elevation Data
Lim Family Property
250 8th Street
Oakland, CA

Well I.D.	Date of Measurement	Top of Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)
MW-4	01/12/00	23.71	17.24		6.47
	04/24/00		16.18		7.53
	07/20/00		16.18		7.53
	10/24/00		17.03		6.68
	01/18/01		16.87		6.84
	04/05/01		15.28		8.43
	07/17/01		15.92		7.79
	10/25/01		16.23		7.48
	01/21/01		14.14		9.57
	04/11/02		14.43		9.28
	06/11/02	28.61	14.72		13.89
	09/17/02		15.29		13.32
	12/18/02		15.20		13.41
	03/25/03		15.53		13.08
	06/23/03		15.35		13.26
	09/26/03		15.91		12.70
	12/18/03		15.63		12.98
	03/12/04		13.88		14.73
	06/17/04		15.03		13.58
	09/17/04		15.61		13.00
	12/17/04		15.32		13.29
	04/28/05		13.82		14.79
	07/19/05		15.44		13.17
	10/03/05		15.91		12.70
	12/06/05		15.71		12.90
	03/15/06		13.05		15.56
	06/28/06		14.49		14.12
	08/31/06		15.75		12.86
	11/21/06		16.70		11.91
	02/12/07		16.51		12.10

TABLE ONE
Groundwater Elevation Data
Lim Family Property
250 8th Street
Oakland, CA

Well I.D.	Date of Measurement	Top of Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)
MW-5	06/11/02	28.40	14.23		14.17
	09/17/02		14.80		13.60
	12/18/02		15.08		13.32
	03/25/03		15.31		13.09
	06/23/03		15.16		13.24
	09/26/03		15.72		12.68
	12/18/03		15.47		12.93
	03/12/04		13.44		14.96
	06/17/04		14.90		13.50
	09/17/04		15.45		12.95
	12/17/04		15.12		13.28
	04/28/05		13.63		14.77
	07/19/05		15.67		12.73
	10/03/05		15.81		12.59
	12/06/05		15.60		12.80
	03/15/06		12.81		15.59
	06/28/06		15.21		13.19
	08/31/06		15.55		12.85
	11/21/06		17.09		11.31
	02/12/07		16.29		12.11
MW-6	06/11/02	29.20	14.95		14.25
	09/17/02		15.47		13.73
	12/18/02		15.43		13.77
	03/25/03		15.67		13.53
	06/23/03		15.48		13.72
	09/26/03		NOT MEASURED - SOUNDER MALFUNCTION		
	12/18/03		15.79		13.41
	03/12/04		14.04		15.16
	06/17/04		15.13		14.07
	09/17/04		15.74		13.46
	12/17/04		15.54		13.66
	04/28/05		13.91		15.29
	07/19/05		15.30		13.90
	10/03/05		15.35		13.85
	12/06/05		15.69		13.51
	03/15/06		13.14		16.06
	06/28/06		14.44		14.76
	08/31/06		16.25		12.95
	11/21/06		16.69		12.51
	02/12/07		16.63		12.57

TABLE ONE
Groundwater Elevation Data
Lim Family Property
250 8th Street
Oakland, CA

Well I.D.	Date of Measurement	Top of Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)
MW-7	06/11/02	28.95	15.19		13.76
	09/17/02		15.73		13.22
	12/18/02		NOT MEASURED - CAR PARKED OVER WELL		
	03/25/03		15.96		12.99
	06/23/03		15.75		13.20
	09/26/03		16.29		12.66
	12/18/03		16.03		12.92
	03/12/04		14.28		14.67
	06/17/04		15.42		13.53
	09/17/04		16.02		12.93
	12/17/04		15.45		13.50
	04/28/05		14.15		14.80
	07/19/05		15.30		13.65
	10/03/05		16.25		12.70
	12/06/05		16.05		12.90
	03/15/06		13.36		15.59
	06/28/06		14.81		14.14
	08/31/06		16.13		12.82
	11/21/06		17.06		11.89
	02/12/07		16.97		11.98

Notes:
* = Adjusted for the presence of free-floating oil by the equation: Top of Casing Elevation - Depth to Water + (0.8 x Floating Hydrocarbon Thickness) = Groundwater Elevation (Adjusted).

Top of casing elevations resurveyed by Mid Coast Engineers on 6/27/02 and 7/11/02.

TABLE TWO

Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-1							
01/30/95	740	200	3	5	1	4	--
04/12/95	400	500	< 0.5	< 0.5	3	< 2	--
07/14/95	520	400	1	< 0.5	2	3	--
10/17/95	400	200	0.5	1	3	< 2	--
01/12/96	120	890	< 0.5	< 0.5	< 0.5	< 1.0	< 2.0
07/08/96	320	300	0.52	2.7	1.2	2.3	< 5.0
01/06/97	110	75	< 0.5	0.68	< 0.5	< 0.5	< 5.0
07/08/97	380	290	< 0.5	1.5	1.4	1.9	< 5.0
01/26/98	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
07/23/98	190	< 50	0.54	2.8	2	1.8	< 5.0
01/05/99	200	< 50	1.8	1.6	3.3	< 0.5	< 5.0
07/13/99	340	<50	<0.5	<0.5	2.6	<0.5	< 5.0
01/12/00	300	1,000	22	36	5.5	24	< 5.0
04/24/00	360	280*	< 0.5	< 0.5	< 0.5	2.1	< 5.0
07/20/00	290	150*	1.8	< 0.5	< 0.5	< 0.5	< 5.0
10/24/00	170**	280*	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
01/18/01	170**	150*	< 0.5	<0.5	< 0.5	2.1	< 5.0
04/05/01	350**	190*	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
07/17/01	310	570	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
10/25/01	250	260	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
01/22/02	200	250	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
04/11/02	260	300	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
06/11/02	270	330	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
09/17/02	320	1,700	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
12/18/02	170	320	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
03/25/03	320	< 500	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
06/23/03	240	310	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
09/26/03	110	300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
12/18/03	150	340	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
03/12/04	220	510	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
06/17/04	250	490	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/17/04	110	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
11/10/04***	180	400	0.68	< 0.5	1.7	< 0.5	< 5.0
12/17/04	77	130	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
04/28/05	250	190	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
07/19/05	340	na	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
10/03/05	170	< 100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
12/06/05	140	67	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
03/15/06	170	< 80	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
06/28/06	230	130	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
08/31/06	310	< 200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
11/21/06	220	160	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
02/23/07	**140**	**120**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**

TABLE TWO

Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-2							
01/30/95	88,000	800	19,000	18,000	2,400	10,000	--
04/12/95	110,000	990	21,000	28,000	2,800	14,000	--
07/14/95	120,000	5,000	20,000	25,000	3,200	15,000	--
10/17/95	190,000	4,000	15,000	26,000	4,900	23,000	--
01/12/96	32,000	2,600	10,000	8,000	1,100	4,800	< 2
07/08/96	110,000	2,500	20,000	18,000	2,500	12,000	< 500
01/06/97	230,000	37,000	11,000	19,000	4,300	20,000	< 1,200
07/08/97	91,000	35,000	16,000	20,000	2,700	13,000	< 1,000
01/26/98	50,000	11,000	12,000	12,000	1,600	6,700	< 250
07/23/98	50,000	8,100#	11,000	8,300	1,800	7,000	1,100
01/05/99	50,000	7,600#	12,000	12,000	2,300	9,600	1,300
07/13/99	73,000	8,500	11,000	13,000	2,200	9,800	< 500
01/12/00	63,000	11,000	10,000	12,000	1,800	7,800	< 500
04/24/00	76,000	23,000*	7,100	14,000	2,000	9,400	< 500
07/20/00	68,000	5,300#	11,000	14,000	2,300	11,000	< 1,000
10/24/00	48,000	6,400*	11,000	9,400	1,500	7,300	< 500
01/18/01	37,000	4,600*	6,900	5,600	1,200	5,300	< 500
04/05/01	59,000	4,600*	7,100	9,800	1,600	7,600	< 500
07/17/01	90,000	< 10,000	9,200	14,000	2,700	11,000	< 50
10/25/01	79,000	< 3,800	9,200	14,000	2,400	11,000	< 50
01/22/02	76,000	< 2,300	7,000	13,000	2,200	9,600	< 50
04/11/02	76,000	< 1,500	7,800	11,000	2,900	12,000	< 50
06/11/02	72,000	< 2,500	7,300	9,600	2,500	12,000	< 50
09/17/02	52,000	< 3,000	5,000	5,400	2,100	9,100	< 20
12/18/02	46,000	< 6,000	2,900	3,000	1,800	7,600	22
03/25/03	87,000	< 8,000	7,900	9,300	2,900	12,000	< 50
06/23/03	46,000	< 3000	7,800	4,000	1,900	6,600	< 50
09/26/03	52,000	< 3000	9,100	3,500	1,300	5,000	< 50
12/18/03	61,000	< 4,000	13,000	3,500	1,600	5,600	< 20
03/12/04	53,000	< 4,000	9,100	3,500	1,700	5,700	< 25
06/17/04	59,000	< 3,000	7,100	4,000	1,700	7,300	< 25
09/17/04	33,000	--	9,800	1,200	1,300	4,000	< 20
11/10/04***	44,000	3,600	13,000	4,400	1,600	6,000	< 1000
12/17/04	54,000	< 3,000	7,900	2,200	1,700	3,900	< 15
04/28/05	81,000	< 3,000	7,000	6,000	2,100	8,700	< 15
07/19/05	59,000	na	7,900	4,400	1,900	7,000	< 15
10/03/05	34,000	< 800	7,800	810	1,000	2,800	< 15
12/06/05	26,000	< 800	6,100	940	770	2,000	< 15
03/15/06	33,000	< 1,500	7,700	2,600	1,400	4,200	< 15
06/28/06	96,000	< 4,000	10,000	14,000	2,900	12,000	< 15
8/31/06	47,000	< 3,000	5,800	5,100	2,200	8,700	< 15
11/21/06	51,000	< 1,500	6,800	3,400	1,700	6,200	< 15
02/23/07	**38,000**	**< 1,500**	**7,800**	**2,000**	**1,500**	**4,600**	**< 15**

TABLE TWO

Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-3							
01/12/00	140,000	13,000*	22,000	19,000	2,400	11,000	< 500
04/24/00	240,000	700,000*	33,000/ 35,000	52,000/ 87,000	5,700/ 18,000	28,000/ 84,000	< 5,000
07/20/00	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
10/24/00	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
01/18/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
04/05/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
07/17/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
10/25/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
01/22/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
04/11/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
06/11/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
09/17/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
12/18/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
03/25/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
06/23/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
09/26/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
12/18/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
03/12/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
06/17/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
09/17/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
11/10/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
12/17/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
04/28/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
07/19/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
10/03/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
12/06/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
03/15/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
06/28/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
8/31/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
11/21/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
02/23/07	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						

TABLE TWO

Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-3							
01/12/00	140,000	13,000*	22,000	19,000	2,400	11,000	< 500
04/24/00	240,000	700,000*	33,000/ 35,000	52,000/ 87,000	5,700/ 18,000	28,000/ 84,000	< 5,000
07/20/00	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
10/24/00	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
01/18/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
04/05/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
07/17/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
10/25/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
01/22/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
04/11/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
06/11/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
09/17/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
12/18/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
03/25/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
06/23/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
09/26/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
12/18/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
03/12/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
06/17/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
09/17/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
11/10/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
12/17/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
04/28/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
07/19/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
10/03/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
12/06/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
03/15/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
06/28/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
8/31/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
11/21/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						
02/23/07	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS						

TABLE TWO

Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-4							
01/12/00	99,000	7,900*	16,000	20,000	2,100	12,000	< 2,500
04/24/00	54,000	44,000*	3,400/ 4,500	13,000/ 20,000	1,800/ 2,800	8,800/ 14,000	< 1,300
07/20/00	8,000	3,500	9,200/ 11,000	20,000 22,000	2,500 3,400	12,000/ 13,000	< 1,000
10/24/00	98,000	8,000*	21,000	29,000	2,700	15,000	< 1,000
01/18/01	91,000	12,000	17,000/ 15,000	21,000/ 21,000	2,500/ 2,800	13,000/ 11,000	<1,000 <5,000
04/05/01	88,000	7,500*	6,900/ 3,200	18,000/ 9,000	2,500/ 1,300	12,000/ 6,400	< 1,000 < 500
07/17/01	95,000	< 3,000	8,000	16,000	2,900	11,000	49
10/25/01	89,000	< 2,200	9,300	18,000	2,400	12,000	66
01/22/02	80,000	< 2,300	4,600	15,000	2,500	11,000	< 50
04/11/02	90,000	< 900	6,600	18,000	2,800	12,000	55
06/25/02	110,000	< 3,000	10,000	20,000	2,900	13,000	< 100
09/17/02	110,000	< 3,000	9,600	21,000	2,800	13,000	< 100
12/18/02	97,000	< 4,000	8,000	20,000	2,600	12,000	< 50
03/25/03	97,000	< 7,500	7,600	22,000	2,500	12,000	< 100
06/23/03	100,000	< 3,000	9,600	22,000	3,300	15,000	< 100
09/26/03	110,000	< 4,000	9,300	17,000	2,100	10,000	< 50
12/18/03	110,000	< 2,000	8,900	19,000	2,500	12,000	< 25
03/12/04	96,000	< 4,000	6,500	18,000	2,700	12,000	< 40
06/17/04	110,000	< 4,000	10,000	20,000	2,900	13,000	< 50
09/17/04	78,000	--	9,300	15,000	2,400	11,000	<50
11/10/04***	87,000	4,300	15,000	21,000	3,000	16,000	< 1300
12/17/04	88,000	< 3,000	8,500	16,000	2,800	12,000	< 25
04/28/05	110,000	< 3,000	7,800	14,000	2,200	10,000	< 25
07/19/05	90,000	na	10,000	13,000	2,300	10,000	< 40
10/03/05	68,000	< 800	9,400	4,000	1,800	8,700	23
12/06/05	81,000	< 1,500	8,900	7,200	2,200	9,500	< 20
03/15/06	68,000	< 3,000	7,300	14,000	2,500	10,000	< 20
06/28/06	61,000	< 3,000	8,500	4,100	2,600	11,000	< 20
08/31/06	68,000	< 2,000	9,500	9,600	2,500	12,000	< 20
11/21/06	68,000	< 1,500	9,000	5,000	2,000	9,300	< 20
02/23/07	**90,000**	**< 2,000**	**11,000**	**11,000**	**2,800**	**12,000**	**< 20**

TABLE TWO

Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-5							
06/11/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	28
09/17/02	< 50	110	< 0.5	< 0.5	< 0.5	< 0.5	4.8
12/18/02	< 50	140	< 0.5	< 0.5	< 0.5	< 0.5	1.8
03/25/03	< 50	130	< 0.5	< 0.5	< 0.5	< 0.5	7.4
06/23/03	< 50	390	< 0.5	< 0.5	< 0.5	< 0.5	17
09/26/03	< 50	700	< 0.5	< 0.5	< 0.5	< 0.5	21
12/18/03	< 50	550	< 0.5	< 0.5	< 0.5	< 0.5	16
03/12/04	< 50	490	< 0.5	< 0.5	< 0.5	< 0.5	9.1
06/17/04	< 50	510	< 0.5	< 0.5	< 0.5	< 0.5	9.8
09/17/04	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	5.5
11/10/04***	< 50	370	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
12/17/04	< 50	120	< 0.5	< 0.5	< 0.5	< 0.5	9.2
04/28/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	2.2
07/19/05	< 50	na	< 0.5	< 0.5	< 0.5	< 0.5	6.1
10/03/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	2.4
12/06/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
03/15/06	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	3.3
06/28/06	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1.8
08/31/06	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	3.4
12/05/06	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	5.2
02/23/07	**< 50**	**< 50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**6.0**

TABLE TWO

Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-6							
06/11/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1.2
09/17/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1.0
12/18/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	0.90
03/25/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
06/23/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/26/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
12/18/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
03/12/04	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
06/17/04	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/17/04	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
11/10/04***	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
12/17/04	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
04/28/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
07/19/05	< 50	na	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
10/03/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
12/06/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
03/15/06	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
06/28/06	< 50	< 50	< 0.5	< 0.5	< 0.5	0.65	< 0.5
08/31/06	< 50	< 50	< 0.50	2.4	0.90	4.0	< 0.50
11/21/06	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
02/23/07	**< 50**	**< 50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**

TABLE TWO

Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-6							
06/11/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1.2
09/17/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1.0
12/18/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	0.90
03/25/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
06/23/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/26/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
12/18/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
03/12/04	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
06/17/04	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/17/04	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
11/10/04***	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
12/17/04	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
04/28/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
07/19/05	< 50	na	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
10/03/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
12/06/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
03/15/06	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
06/28/06	< 50	< 50	< 0.5	< 0.5	< 0.5	0.65	< 0.5
08/31/06	< 50	< 50	< 0.50	2.4	0.90	4.0	< 0.50
11/21/06	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
02/23/07	**< 50**	**< 50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**	**< 0.50**

TABLE TWO

Summary of Chemical Analysis of Groundwater Samples
Petroleum Hydrocarbon Concentrations
All results are in parts per billion

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-7							
06/25/02	38,000	< 2,000	890	5,100	1,200	5,200	< 20
09/17/02	26,000	< 2,000	590	3,600	880	4,000	< 20
12/18/02	NOT SAMPLED - CAR PARKED OVER WELL						
03/25/03	39,000	< 2,900	410	7,700	1,000	6,400	< 5.0
06/23/03	17,000	< 1,000	440	2,600	630	2,600	< 10
09/26/03	17,000	< 1,000	230	1,800	470	2,200	< 5.0
12/18/03	20,000	< 1,000	290	2,500	590	2,900	< 5.0
03/12/04	20,000	< 1,500	300	3,000	760	3,200	< 10
06/17/04	12,000	< 800	250	1,800	450	1,900	< 5.0
09/17/04	9,900	--	200	1,500	450	1,800	< 5.0
11/10/04***	20,000	1,900	550	4,200	920	4,000	< 500
12/17/04	14,000	< 800	220	1,700	530	2,000	< 3.0
04/28/05	13,000	< 300	84	1,000	660	2,200	< 2.5
07/19/05	16,000	na	170	1,800	540	2,200	< 2.5
10/03/05	7,400	< 200	140	710	350	1,100	< 0.50
12/06/05	22,000	< 600	240	2,300	800	3,400	< 5.0
03/15/06	3,800	< 200	4.6	160	120	620	< 0.50
06/28/06	6,400	< 500	19.0	340	490	940	< 0.90
08/31/06	20,000	< 600	160	2,200	1,300	3,500	< 2.5
11/21/06	21,000	< 1,000	240	2,500	880	3,400	< 5.0
02/23/07	**10,000**	**< 200**	**150**	**1,300**	**580**	**2,400**	**< 2.5**
ESL	500	640	46	130	290	13	1,800

Notes:
* = Hydrocarbons reported are in the early diesel range, and do not match the laboratory standard.
** = Hydrocarbons reported do not match the laboratory gasoline standard.
***= Grab sample - Not purged
= Estimated concentration reported due to overlapping fuel patterns.
/ = Results separated by a slash represent results from two different laboratory methods : 8020/8260i.
na = not analyzed

Non-detectable concentrations noted by the less than sign (<) followed by the detection limit.
Most recent data in bold.
ESL = Environmental screening levels presented in the "Screening For Environmental Concerns

TABLE THREE
Groundwater Analytical Results
Oil & Grease and Volatile Organic Compounds
All results are in parts per billion

Date Sampled & Compound Analyzed	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
7/8/97							
Hydrocarbon Oil and Grease	-	< 1,000	-	-	-	-	-
Tetrachloroethane (PCE)	0.9	< 0.5	-	-	-	-	-
Other VOCs	< 0.5 - < 3	< 0.5 - < 3	-	-	-	-	-
1/26/98							
Hydrocarbon Oil and Grease	-	< 1,000	-	-	-	-	-
Trichloroethene	0.7	< 5.0	-	-	-	-	-
Tetrachloroethene	10	< 5.0	-	-	-	-	-
1,2-Dichloroethane	< 0.5	11	-	-	-	-	-
Other VOCs	< 0.5 - < 50	< 0.5 - < 50	-	-	-	-	-
7/23/98							
Hydrocarbon Oil and Grease	-	< 1,000	-	-	-	-	-
Tetrachloroethene	4	4.6	-	-	-	-	-
1,2-Dichloroethane	< 2	9.9	-	-	-	-	-
Other VOCs	< 2 - < 10	< 0.5 - < 5.0	-	-	-	-	-
1/5/99							
Hydrocarbon Oil and Grease	-	< 1,000	-	-	-	-	-
Tetrachloroethene	5.1	< 50	-	-	-	-	-
Trichloroethene	0.52	< 50	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.58	< 50	-	-	-	-	-
Chloroform	8.2	< 50	-	-	-	-	-
Other VOCs	< 0.5 - < 5	< 50 - < 500	-	-	-	-	-
7/13/99							
Hydrocarbon Oil and Grease	-	< 1,000	-	-	-	-	-
Tetrachloroethene	1.5	0.68	-	-	-	-	-
Chloroform	4.6	< 50	-	-	-	-	-
1,2-Dichloroethane	<0.50	7.7	-	-	-	-	-
Other VOCs	< 0.5 - < 5	< 0.5 - < 500	-	-	-	-	-
1/12/00							
Hydrocarbon Oil and Grease	-	< 1,000	< 1,000	< 1,000	-	-	-
Tetrachloroethene	0.8	< 1.0	< 100	< 50	-	-	-
Chloroform	3.2	< 1.0	< 100	< 50	-	-	-
1,2-Dichloroethane	<0.50	8.8	120	140	-	-	-
Acetone	-	-	25,000	6,400	-	-	-
Naphthalene	-	-	550	540	-	-	-
Isopropylbenzene	-	-	120	89	-	-	-
Other VOCs	< 0.5 - < 5.0	< 1.0 - < 4.0	< 100 - < 10,000	< 50 - < 5,000	-	-	-
4/24/00							
Hydrocarbon Oil and Grease	-	<1,000	4,100	< 1,000	-	-	-
1,2-Dichloroethane	< 0.5	5.9	< 1,000	< 250	-	-	-
Naphthalene	-	-	3,800	590	-	-	-
Isopropylbenzene	-	-	1,200	< 250	-	-	-
Other VOCs	< 0.5 - < 5.0	< 5.0 - < 20	< 1,000 - < 100,000	< 250 - < 25,000	-	-	-
7/20/00							
Hydrocarbon Oil and Grease	-	< 1,000		< 1,000	-	-	-
Tetrachloroethene	0.55	< 5.0	FREE	< 200	-	-	-
Chloroform	2.1	< 5.0	PRODUCT	< 200	-	-	-
1,2-Dichloroethane	< 0.5	6.7	---	< 200	-	-	-
Acetone	-	-	NOT	< 20,000	-	-	-
Naphthalene	-	-	SAMPLED	730	-	-	-
Other VOCs	< 0.5 - < 20	< 5.0 - < 20		< 250 - < 20,000	-	-	-
10/24/00			FREE				
Hydrocarbon Oil and Grease	-	< 1,000	PRODUCT	< 1,000	-	-	-
Tetrachloroethene	< 0.5	< 5.0	---	< 250	-	-	-
Chloroform	1.0	< 5.0	NOT	< 250	-	-	-
Other VOCs	< 0.5 - < 20	< 5.0 - < 20	SAMPLED	< 250 - < 25,000	-	-	-
1/18/01			FREE				
Hydrocarbon Oil and Grease	-	2,100	PRODUCT	1,300	-	-	-
Tetrachloroethene	1.3	< 5.0	---	< 250	-	-	-
Chloroform	6.4	< 5.0	NOT	< 250	-	-	-
Other VOCs	< 0.5 - < 20	< 5.0 - < 20	SAMPLED	< 250 - < 25,000	-	-	-

TABLE THREE
Groundwater Analytical Results
Oil & Grease and Volatile Organic Compounds
All results are in parts per billion

Date Sampled & Compound Analyzed	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
4/5/01							
Hydrocarbon Oil and Grease	-	< 1.0	FREE	1,100.0	-	-	-
Tetrachloroethene	< 0.5	1.1	PRODUCT	< 50	-	-	-
1,2 dichloroethane	< 0.5	4.6	---	< 50	-	-	-
Trichloroethene	< 0.5	0.58	NOT	< 50	-	-	-
Naphthalene	-	-	---	320	-	-	-
Other VOCs	< 0.5 - < 2.0	< 5.0 - < 20	SAMPLED	< 50 - < 5,000	-	-	-
7/17/01							
Hydrocarbon Oil and Grease	-	< 500	FREE	< 500	-	-	-
Tetrachloroethene	-	-	PRODUCT	-	-	-	-
1,2 dichloroethane	< 0.5	< 50	---	69.0	-	-	-
Trichloroethene	-	-	NOT	-	-	-	-
Naphthalene	-	-	---	-	-	-	-
Other VOCs	-	-	SAMPLED	-	-	-	-
10/25/01							
Hydrocarbon Oil and Grease	-	< 5,000	FREE	< 5,000	-	-	-
1,2 dichloroethane	-	< 50	PRODUCT	72	-	-	-
1,2 dibromoethane	-	< 50	NOT	< 50	-	-	-
Other VOCs	-	-	SAMPLED	---	-	-	-
1/22/02							
Hydrocarbon Oil and Grease	-	< 5,000	FREE	< 5,000	-	-	-
1,2 dichloroethane	-	< 50	PRODUCT	< 50	-	-	-
1,2 dibromoethane	-	< 50	NOT	< 50	-	-	-
Other VOCs	-	-	SAMPLED	---	-	-	-
6/11/02							
Oil and Grease	-	1,100	FREE	-	< 1,000	< 1,000	-
1,2 dichloroethane	-	< 50	PRODUCT	-	< 0.5	< 0.5	-
1,2 dibromoethane	-	< 50	NOT	-	< 0.5	< 0.5	-
Other VOCs	-	-	SAMPLED	-	-	-	-
6/25/02							
Oil and Grease	-	-	FREE	1,400	-	-	< 1,000
1,2 dichloroethane	-	-	PRODUCT	< 100	-	-	< 20
1,2 dibromoethane	-	-	NOT	< 100	-	-	< 20
Other VOCs	-	-	SAMPLED	-	-	-	-
9/17/02							
Oil and Grease	-	< 1,000	FREE	< 1,000	< 1,000	< 1,000	< 1,000
1,2 dichloroethane	-	< 20	PRODUCT	< 100	< 0.50	< 0.50	< 20
1,2 dibromoethane	-	< 20	NOT	< 100	< 0.50	< 0.50	< 20
Other VOCs	-	-	SAMPLED	-	-	-	-
12/18/02							
Oil and Grease	-	1,200	FREE	< 1,000	< 1,000	< 1,000	CAR PARKED
1,2 dichloroethane	-	< 10	PRODUCT	< 50	< 0.50	< 0.50	OVER WELL
1,2 dibromoethane	-	< 10	NOT	< 50	< 0.50	< 0.50	NOT
Other VOCs	-	-	SAMPLED	-	-	-	SAMPLED
3/25/03							
Oil and Grease	-	< 1,000	FREE	< 1,000	< 1,000	< 1,000	< 1,000
1,2 dichloroethane	-	< 50	PRODUCT	< 100	< 0.50	< 0.50	< 2.5
1,2 dibromoethane	-	< 50	NOT	< 100	< 0.50	< 0.50	< 2.5
Other VOCs	-	-	SAMPLED	-	-	-	-
6/23/03							
Oil and Grease	-	< 1,000	FREE	< 1,000	< 1,000	< 1,000	< 1,000
1,2 dichloroethane	< 0.5	< 50	PRODUCT	< 100	< 0.50	< 0.50	< 10
1,2 dibromoethane	< 0.5	< 50	NOT	< 100	< 0.50	< 0.50	< 10
Other VOCs	-	-	SAMPLED	-	-	-	-

TABLE THREE
Groundwater Analytical Results
Oil & Grease and Volatile Organic Compounds
All results are in parts per billion

Date Sampled & Compound Analyzed	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
9/26/03							
Oil and Grease	-	< 1,000	FREE	< 1,000	< 1,000	< 1,000	< 1,000
1,2 dichloroethane	< 0.5	< 50	PRODUCT	87	< 0.50	< 0.50	< 5.0
1,2 dibromoethane	< 0.5	< 50	NOT	< 50	< 0.50	< 0.50	< 5.0
Other VOCs	-	-	SAMPLED	-	-	-	-
12/18/03							
Oil and Grease	-	-	FREE	-	-	-	-
1,2 dichloroethane	< 0.5	< 20	PRODUCT	46	< 0.50	< 0.50	< 5.0
1,2 dibromoethane	< 0.5	< 20	NOT	< 25	< 0.50	< 0.50	< 5.0
Other VOCs	-	-	SAMPLED	-	-	-	-
3/12/04							
Oil and Grease	-	-	FREE	-	-	-	-
1,2 dichloroethane	< 0.5	< 25	PRODUCT	< 40	< 0.50	< 0.50	< 10
1,2 dibromoethane	< 0.5	< 25	NOT	< 40	< 0.50	< 0.50	< 10
Other VOCs	-	-	SAMPLED	-	-	-	-
6/17/04							
Oil and Grease	-	-	FREE	-	-	-	-
1,2 dichloroethane	< 0.5	< 25	PRODUCT	93	< 0.50	< 0.50	< 5.0
1,2 dibromoethane	< 0.5	< 25	NOT	< 50	< 0.50	< 0.50	< 5.0
Other VOCs	-	-	SAMPLED	-	-	-	-
9/17/04							
Oil and Grease	-	-	FREE	-	-	-	-
1,2 dichloroethane	-	-	PRODUCT	-	-	-	-
1,2 dibromoethane	-	-	NOT	-	-	-	-
Other VOCs	-	-	SAMPLED	-	-	-	-
12/17/04							
Oil and Grease	-	-	FREE	-	-	-	-
1,2 dichloroethane	< 0.5	< 15	PRODUCT	53	< 0.50	< 0.50	< 3.0
1,2 dibromoethane	< 0.5	< 15	NOT	< 25	< 0.50	< 0.50	< 3.0
Other VOCs	-	-	SAMPLED	-	-	-	-
4/28/05							
Oil and Grease	-	-	FREE	-	-	-	-
1,2 dichloroethane	< 0.5	< 15	PRODUCT	46	< 0.50	< 0.50	< 2.5
1,2 dibromoethane	< 0.5	< 15	NOT	< 25	< 0.50	< 0.50	< 2.5
DIPE	0.67	90	SAMPLED	< 25	< 0.50	< 0.50	< 2.5
Other VOCs	< 0.5	< 15		< 25	< 0.50	< 0.50	< 2.5
7/19/05							
Oil and Grease	-	-	FREE	-	-	-	-
1,2 dichloroethane	< 0.5	< 15	PRODUCT	73	< 0.50	< 0.50	< 2.5
1,2 dibromoethane	< 0.5	< 15	NOT	< 40	< 0.50	< 0.50	< 2.5
DIPE	0.76	< 15	SAMPLED	< 20	2.1	< 0.50	< 2.5
TBA	< 5.0	77	-	< 20	< 5.0	< 5.0	< 5.0
Other VOCs	< 0.50	< 15	-	< 20	< 0.50	< 0.50	< 2.5
10/3/05							
Oil and Grease	-	-	-	-	-	-	-
1,2 dichloroethane	< 0.5	< 15	FREE	53	< 0.50	< 0.50	< 0.50
1,2 dibromoethane	< 0.5	< 15	PRODUCT	< 20	< 0.50	< 0.50	< 0.50
DIPE	< 0.5	< 15	NOT	23	1.7	< 0.50	< 0.50
TBA	< 5.0	< 70	SAMPLED	< 5.0	< 5.0	< 5.0	< 5.0
Other VOCs	< 0.5	< 15		< 20	< 0.50	< 0.50	< 0.50
3/15/06							
Oil and Grease	-	-	FREE	-	-	-	-
1,2 dichloroethane	< 0.5	< 15	PRODUCT	< 20	< 0.50	< 0.50	< 0.50
1,2 dibromoethane	< 0.5	< 15	NOT	< 20	< 0.50	< 0.50	< 0.50
Other VOCs	< 0.5	< 15	SAMPLED	< 20	< 0.50	< 0.50	< 0.50
6/28/06							
Oil and Grease	-	-	-	-	-	-	-
1,2 dichloroethane	< 0.5	33	FREE	20	< 0.50	< 0.50	< 0.90
1,2 dibromoethane	< 0.5	< 15	PRODUCT	< 20	< 0.50	< 0.50	< 0.90
TBA	< 5.0	< 5.0	NOT	< 5.0	< 5.0	< 5.0	< 5.0
Other VOCs	< 0.5	< 15	SAMPLED	< 20	< 0.50	< 0.50	< 0.50
8/31/06							
Oil and Grease	-	-	-	-	-	-	-
1,2 dichloroethane	< 0.50	< 15	FREE	36	< 0.50	< 0.50	< 2.5
1,2 dibromoethane	< 0.50	< 15	PRODUCT	< 20	< 0.50	< 0.50	< 2.5
DIPE	< 0.50	< 15	NOT	< 20	< 0.50	< 0.50	3.4
TBA	< 5.0	81	SAMPLED	< 5.0	< 5.0	< 5.0	< 15
Other VOCs	< 0.50	< 15		< 20	< 0.50	< 0.50	< 5.0
11/21/06							
Oil and Grease	-	-	-	-	-	-	-
1,2 dichloroethane	< 0.50	< 15	FREE	42	< 0.50	< 0.50	< 5.0
1,2 dibromoethane	< 0.50	< 15	PRODUCT	< 20	< 0.50	< 0.50	< 5.0
DIPE	< 0.50	< 15	NOT	< 20	1.7	< 0.50	< 5.0
TBA	< 5.0	82	SAMPLED	230	5.4	< 5.0	< 25
Other VOCs	< 0.50	< 15	-	< 20	< 0.50	< 0.50	< 5.0

TABLE THREE
Groundwater Analytical Results
Oil & Grease and Volatile Organic Compounds
All results are in parts per billion

Date Sampled & Compound Analyzed	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
2/12/07							
Oil and Grease	-	-	-	-	-	-	-
1,2 dichloroethane	< 0.50	< 15	FREE	36	< 0.50	< 0.50	< 2.5
1,2 dibromoethane	< 0.50	< 15	PRODUCT	< 20	< 0.50	< 0.50	< 2.5
DIPE	1.2	< 15	NOT	< 20	1.4	< 0.50	< 2.5
TBA	< 5.0	190	SAMPLED	290	< 5.0	< 5.0	< 15
Other VOCs	< 0.50	< 15	-	< 20	< 0.50	< 0.50	< 2.5

TABLE FOUR

Summary of Chemical Analysis of SOIL Samples
Petroleum Hydrocarbons
All results are in parts per million

Well ID	Depth (ft)	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	EDC	EDB
SB - 1	20'	**3,600**	**1100***	**19**	170	**99**	**420**	< 0.25	< 0.25	< 0.25	< 0.25	< 1.5	< 0.25	< 0.25
SB - 1	25'	**270**	**820**	**1.1**	0.27	**0.96**	**2.4**	< 0.025	< 0.025	< 0.025	< 0.025	**0.21**	< 0.025	< 0.025
SB - 1	30'	< 1.0	**2.9****	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SB - 1	35'	< 1.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SB - 1	40'	< 1.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SB - 1	50'	< 1.0	**3.9****	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SB - 1	55'	< 1.0	**6.4****	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SB - 1	60'	< 1.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SB - 2	5'	< 1.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SB - 2	15'	< 1.0	**2.6****	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SB - 3	15'	< 1.0	**16****	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SB - 4	15'	< 1.0	**4.2****	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SB - 5	15'	< 1.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SB - 6	15'	< 1.0	**1.2****	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SB - 7	15'	< 1.0	< 1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
ESL		400	500	0.18	9.3	32	11	2.0	NE	NE	NE	110	NE	NE

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.
Detectable concentrations are in **bold.**

* = Hydrocarbons reported as TPH-D do not exhibit a typical chromatographic pattern. These hydrocarbons are lower boiling than typical diesel fuel.

** = Hydrocarbons reported as TPH-D do not exhibit a typical chromatographic pattern. These hydrocarbons are higher boiling than typical diesel fuel.

ESL = Environmental screening level for residential soil where groundwater is not a current or potential source of drinking water as presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (February 2005)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

NE = ESL not established.

TABLE FIVE

Summary of Chemical Analysis of WATER Samples
Petroleum Hydrocarbons
All results are in parts per billion

Well ID	Depth (ft)	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA	EDC	EDB
SB - 1	20-23'	**160,000**	< 200,000	**33,000**	**39,000**	**2,900**	**13,000**	< 25	< 25	< 25	< 25	< 150	< 25	< 25
SB - 1	28-31'	**37,000**	< 1,500	**1,300**	**3,500**	**1,500**	**4,400**	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0
SB - 1	51-53'	**5,200**	< 800	**120**	320	160	**500**	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50
SB - 2	20-25'	**5,200**	**190,000**	**0.60**	**2.8**	< 0.50	**0.77**	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50
SB - 3	20-25'	< 50	**700**	< 0.50	2.6	< 0.50	**0.88**	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50
SB - 4	20-25'	**260**	**7,900**	< 0.50	**2.7**	**6.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50
SB - 5	20-25'	< 50	< 50	< 0.50	**2.8**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50
SB - 6	20-25'	< 50	< 50	< 0.50	**2.3**	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50
SB - 7	20-25'	< 50	**190****	**0.72**	**1.6**	< 0.50	< 0.50	**9.8**	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50
ESL		500	640	46	130	290	100	1,800	NE	NE	NE	18,000	NE	NE

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.
Detectable concentrations are in **bold**.

* = Hydrocarbons reported as TPH-D do not exhibit a typical chromatographic pattern. These hydrocarbons are lower boiling than typical diesel fuel.

** = Hydrocarbons reported as TPH-D do not exhibit a typical chromatographic pattern. These hydrocarbons are higher boiling than typical diesel fuel.

ESL = Environmental screening level for groundwater where groundwater is not a current or potential source of drinking water as presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (February 2005)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

NE = ESL not established.

TABLE SIX

Summary of Chemical Analysis of SOIL VAPOR Samples
Petroleum Hydrocarbon Concentrations
All results are in uG/L

Sample Location	TPH Gasoline	Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene
SV-1	30	1.3	0.78	0.13	0.32	0.19
SV-2	42	0.62	0.62	0.25	0.36	0.18
SV-3	47	0.42	0.83	0.55	0.74	0.32
SV-4	64	0.36	0.86	0.59	0.77	0.21*
SV-5	4.2	0.070	0.071	0.017	0.038	0.020
SV-6	110	1.8*	0.13*	0.085*	0.13*	0.073
SV-6 (Dupl)	110	1.8*	0.14*	0.087*	0.12*	0.072
SV-7	64	2.7	1.4	0.25	0.59	0.35
ESL (Residential)	26	0.085	63	420	150	150
ESL (Commercial)	72	0.29	180	1,200	410	410

Notes:
ESL = Environmental screening levels (lowest exposure for indoor air) presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (February 2005)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region (Volume 2; Table E-3).

* = Reported value may be biased due to apparent matrix interferences.

Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526
(925) 820-9391 - Fax (925) 837-4853 - www.aquascienceengineers.com

APPENDIX A

Permits

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 02/21/2007 By jamesy

Permit Numbers: W2007-0189
Permits Valid from 02/27/2007 to 03/09/2007

Application Id: 1171589079031
Site Location: 250 8th street
Project Start Date: 02/27/2007
Extension Start Date: 02/27/2007
Extension Count: 2

City of Project Site: Oakland

Completion Date: 03/09/2007
Extension End Date: 03/09/2007
Extended By: vickyh1

Applicant: Aqua Science Engineers - Mike Rauser
208 W. El Pintado, Suite C, Danville, CA 94526
Phone: 925-820-9391

Property Owner: Russell Lim
3111 Diablo View road, Lafayette, CA 94549
Phone: --

Client: ** same as Property Owner **

Contact: Mike Rauser
Phone: 925-413-8603
Cell: --

Total Due: $200.00
Receipt Number: WR2007-0091 **Total Amount Paid:** $200.00
Payer Name : Diane Schiell Paid By: VISA **PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 13 Boreholes
Driller: vironex - Lic #: 705927 - Method: DP

Work Total: $200.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2007-0189	02/21/2007	05/29/2007	13	2.00 in.	30.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

6. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this

permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

CITY OF OAKLAND
Office of Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERING

Permit valid for 90 days from date of issuance.

PERMIT NUMBER	SITE ADDRESS/LOCATION
X 0 7 0 0 1 8 5 *	250 8th Street, Oakland
APPROX. START DATE: 2-20-07 / APPROX. END DATE: 4-20-07	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number)
CONTRACTOR'S LICENSE # AND CLASS: 487000	CITY BUSINESS TAX #: 240532

ATTENTION:

1- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # _____

2- 48 hours prior to starting work, you MUST CALL (510) 238-3651 to schedule an inspection.

3- 48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than $500):

☐ I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

☐ I am exempt under Sec. _____, B&PC for this reason _____

WORKER'S COMPENSATION

☐ I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # ENV0093220501 Company Name Clarendon National Insurance

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars ($100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

Michael Lauer — 2-15-07

Signature of Permittee ☒ Agent for ☐ Contractor ☐ Owner — Date

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? ☐ YES ☐ NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) ☐ YES ☐ NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) ☐ YES ☐ NO
ISSUED BY		DATE ISSUED	

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

Job Site 250 8TH ST Parcel# 001 -0185-011-00 Appl# X0700185

Descr soil boring on 7th St between Harrison & Alice St Permit Issued 02/15/07

Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # Acctg#:
Util Fund #:

		Applcnt	Phone#	Lic#	--License Classes--
Owner	LIM MAY L TR & ALICE TR				
Contractor	AQUA SCIENCE ENGINEERS, INC.	X	(925)820-9391	487000 A	C57
Arch/Engr					
Agent					

Applic Addr 208 WEST EL PINTADO, DANVILLE, CA., 94526

$414.25 TOTAL FEES PAID AT ISSUANCE

$61.00	Applic	$300.00	Permit
$.00	Process	$34.30	Rec Mgmt
$.00	Gen Plan	$.00	Invstg
$.00	Other	$18.95	Tech Enh

JOB SITE

ADDRESS:

DIST.

Application #

11715894794031

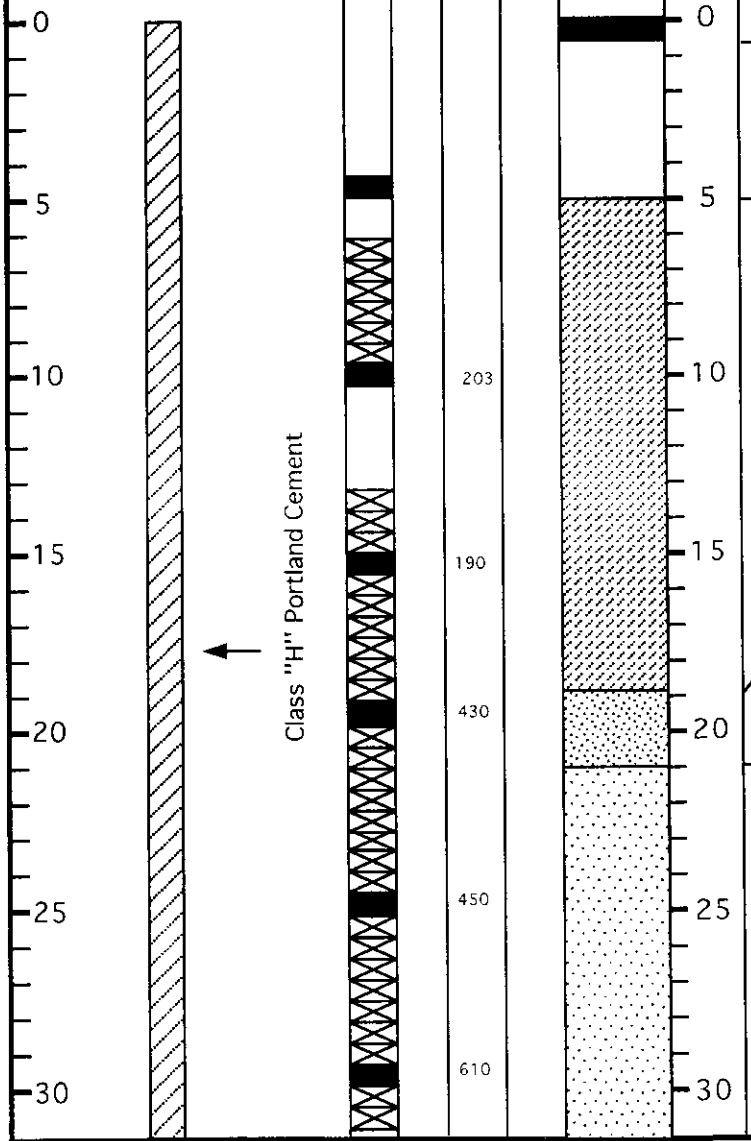
Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526
(925) 820-9391 - Fax (925) 837-4853 - www.aquascienceengineers.com

APPENDIX B

Boring Logs

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS		BORING: SB-I
Project Name: Lim	Project Location: 250 8th Street, Oakland, CA	Page 1 of 2
Driller: Vironex Drilling	Type of Rig: Geoprobe	Size of Drill: Macro Core Sampler
Logged By: Michael Rauser	Date Drilled: March 1, 2007	Checked By: Robert E. Kitay, P.G.

WATER AND WELL DATA	
Depth of Water First Encountered: 18'	Total Depth of Well Completed: NA
Static Depth of Water in Well: NA	Well Screen Type and Diameter: NA
Total Depth of Boring: 60'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: NA



DESCRIPTION OF LITHOLOGY

standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.

0 — Asphalt

Hand Auger to 5'

5 — pea-gravel (GP); dark brown; loose; damp; slight odor

10 — wet; slight odor at 18'

15

20 — Silty SAND (SM); gray; medium dense; wet; 70% sand, 30% silt; non-plastic; high estimated K; strong hydrocarbon odor

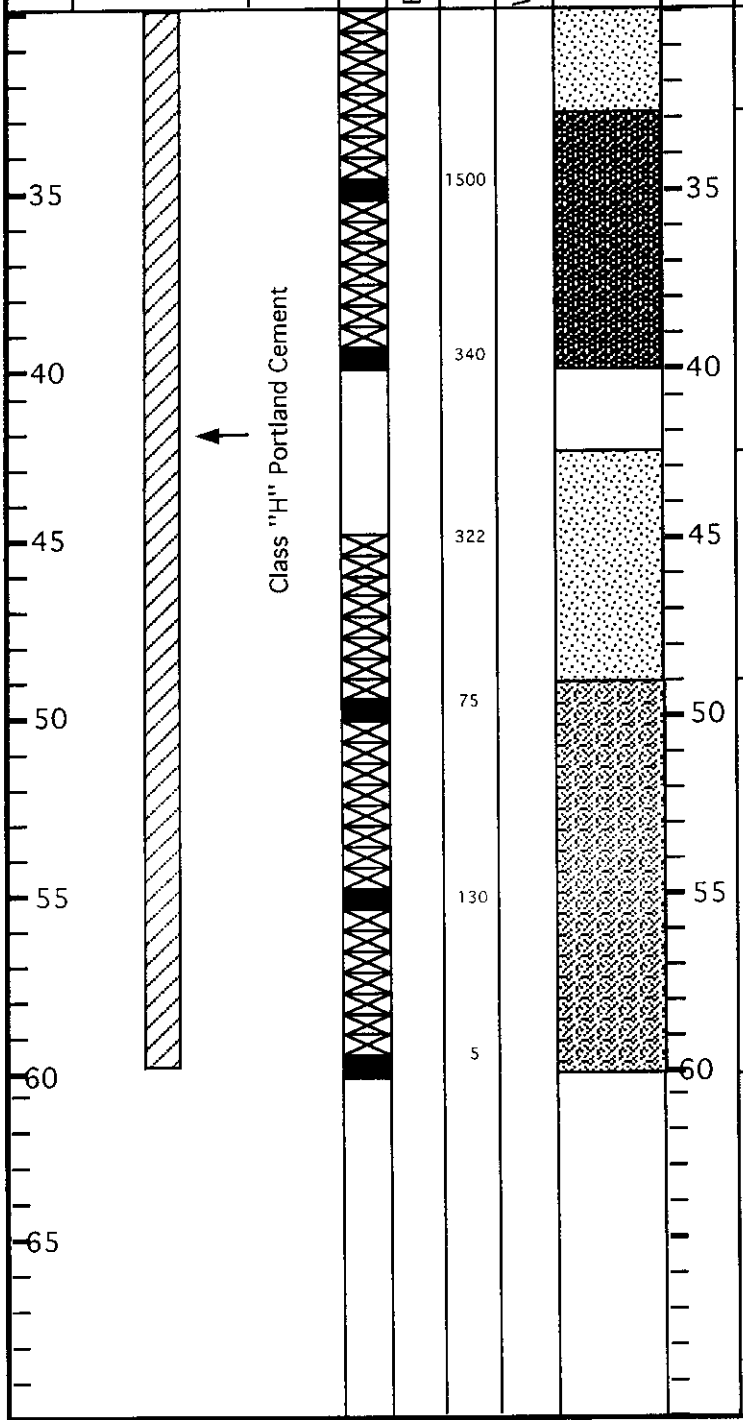
SAND (SP); gray; loose; wet; 100% fine sand; non-plastic; high estimated K; strong hydrocarbon odor

25 — brown; damp at 26'

30 — gray; loose; wet at 30'

AQUA SCIENCE ENGINEERS, INC.

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS	BORING: SB-I
Project Name: Lim	Project Location: 250 8 th Street, Oakland, CA



DESCRIPTION OF LITHOLOGY

standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.

brown; stiff at 31'

Silty CLAY (CH); brown; very stiff; damp; 70% clay, 30% silt; high plasticity; low estimated K; no odor

light brown; hard at 34'

wet at 36'

no recovery 40' - 45'

Silty SAND (SP); brown; stiff; wet; 90% sand; 10% silt; non-plastic; high estimated K; no odor

Silty CLAY (CH); brown; stiff; wet; 60% clay; 40% silt; trace gravel; high plasticity; very low estimated K; no odor

trace sand at 51' -52'

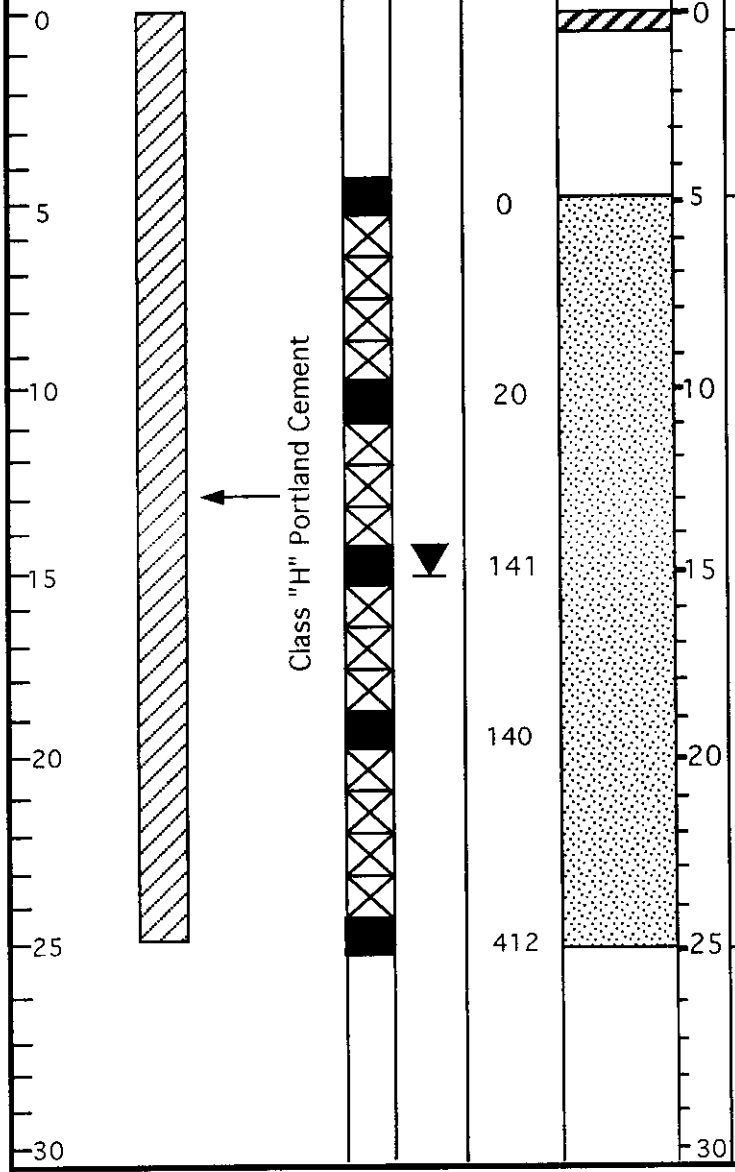
hard; damp at 53'

trace gravel at 53' -55'

Boring total depth of 60'

SOIL BORING LOG AND WELL COMPLETION DETAILS		Soil Boring: SB-2
Project Name: Lim	Project Location: 250 8th Street, Oakland, CA	Page 1 of 1
Driller: Vironex Drilling	Type of Rig: Geoprobe	Size of Drill: Macro Core Sampler
Logged By: Mike Rauser	Date Drilled: February 27, 2007	Checked By: Robert E. Kitay, P.G.

WATER AND WELL DATA	
Depth of Water First Encountered: 15'	Total Depth of Well Completed: NA
Static Depth of Water in Well: Unknown	Well Screen Type and Diameter: NA
Total Depth of Boring: 25'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: Macro Core Sampler

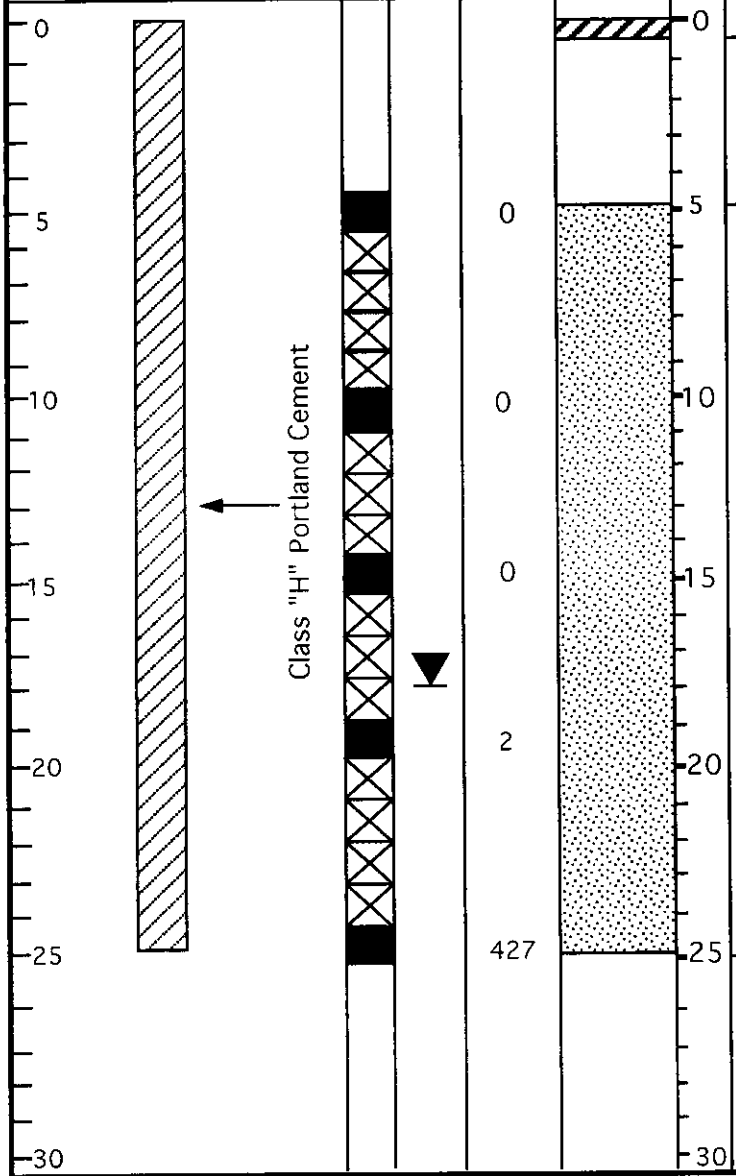


Depth in Feet	DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	Asphalt
	Hand Auger to 5'
5	Silty SAND (SM); brown; dense; dry; 60% sand; 40% silt; non-plastic; medium estimated K; no odor
10	80% sand; 20% silt at 12'
	damp at 14'
15	grey; dense; 90% sand; 10% silt; no odor at 17'
	wet; loose at 19'
20	dense; strong hydrocarbon odor at 23'
	strong hydrocarbon odor at 25'
25	End of boring at 25'
30	

SOIL BORING LOG AND WELL COMPLETION DETAILS		Soil Boring: SB-3
Project Name: Lim	Project Location: 250 8th Street, Oakland, CA	Page 1 of 1
Driller: Vironex Drilling	Type of Rig: Geoprobe	Size of Drill: Macro Core Sampler
Logged By: Mike Rauser	Date Drilled: February 27, 2007	Checked By: Robert E. Kitay, P.G.

WATER AND WELL DATA

Depth of Water First Encountered: 18'	Total Depth of Well Completed: NA
Static Depth of Water in Well: Unknown	Well Screen Type and Diameter: NA
Total Depth of Boring: 25'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: Macro Core Sampler

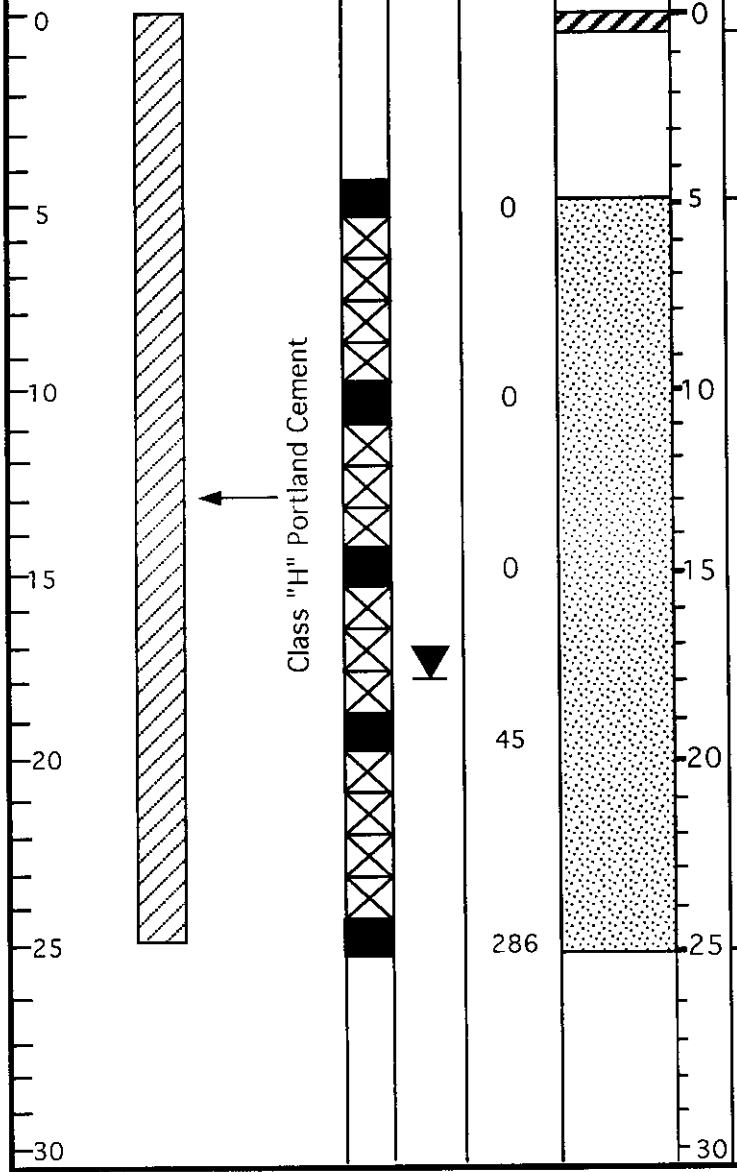


Depth in Feet	DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	Asphalt
	Hand Auger to 5'
5	Silty SAND (SM); brown; stiff; dry; 80% sand; 20% silt; moderate plasticity; medium estimated K; no odor
10	
	very stiff at 14'
15	
	60% sand; 40% silt at 18'
20	dense at 20' wet; loose at 21' 80% sand; 20% silt; non-plastic at 22'
25	End of boring at 25'
30	

SOIL BORING LOG AND WELL COMPLETION DETAILS		Soil Boring: SB-4
Project Name: Lim	Project Location: 250 8th Street, Oakland, CA	Page 1 of 1
Driller: Vironex Drilling	Type of Rig: Geoprobe	Size of Drill: Macro Core Sampler
Logged By: Mike Rauser	Date Drilled: February 27, 2007	Checked By: Robert E. Kitay, P.G.

WATER AND WELL DATA

Depth of Water First Encountered: 18'	Total Depth of Well Completed: NA
Static Depth of Water in Well: Unknown	Well Screen Type and Diameter: NA
Total Depth of Boring: 25'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: Macro Core Sampler



DESCRIPTION OF LITHOLOGY

standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.

0 — Asphalt

Hand Auger to 5'

5 — Silty SAND (SM); red-brown; dense; dry; 80% sand; 20% silt; low plasticity; high estimated K; no odor

90% sand; non-plastic at 8'

10

low plasticity at 12'

pale-brown; very stiff at 14'

15

80% sand; 20% silt at 16'

90% sand; 10% silt; non-plastic; damp at 18'

20

gray-brown; slight odor at 21'

gray; very stiff at 22'

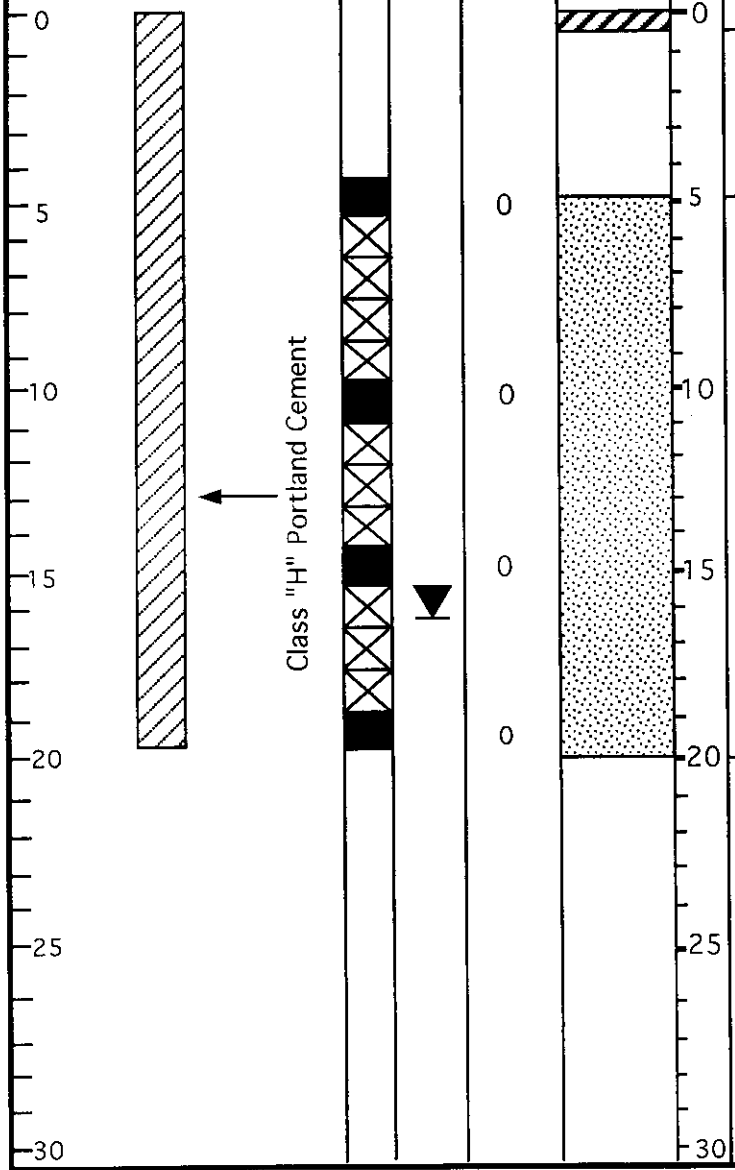
25 — End of boring at 25'

30

SOIL BORING LOG AND WELL COMPLETION DETAILS		Soil Boring: SB-5
Project Name: Lim	Project Location: 250 8th Street, Oakland, CA	Page 1 of 1
Driller: Vironex Drilling	Type of Rig: Geoprobe	Size of Drill: Macro Core Sampler
Logged By: Mike Rauser	Date Drilled: February 28, 2007	Checked By: Robert E. Kitay, P.G.

WATER AND WELL DATA

Depth of Water First Encountered: 16'	Total Depth of Well Completed: NA
Static Depth of Water in Well: Unknown	Well Screen Type and Diameter: NA
Total Depth of Boring: 20'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: Macro Core Sampler



DESCRIPTION OF LITHOLOGY

standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.

0 — Asphalt

Hand Auger to 5'

5 — Silty SAND (SP); red-brown; dense; dry; 70% sand; 30% silt; low plasticity; high estimated K; no odor

pale-grey; very stiff at 7'

10 — 60% sand; 40% silt; dense; damp at 12'

15 — wet at 16'

hard at 17'

brown; 80% sand; 20% silt at 18'

20 — End of boring at 20'

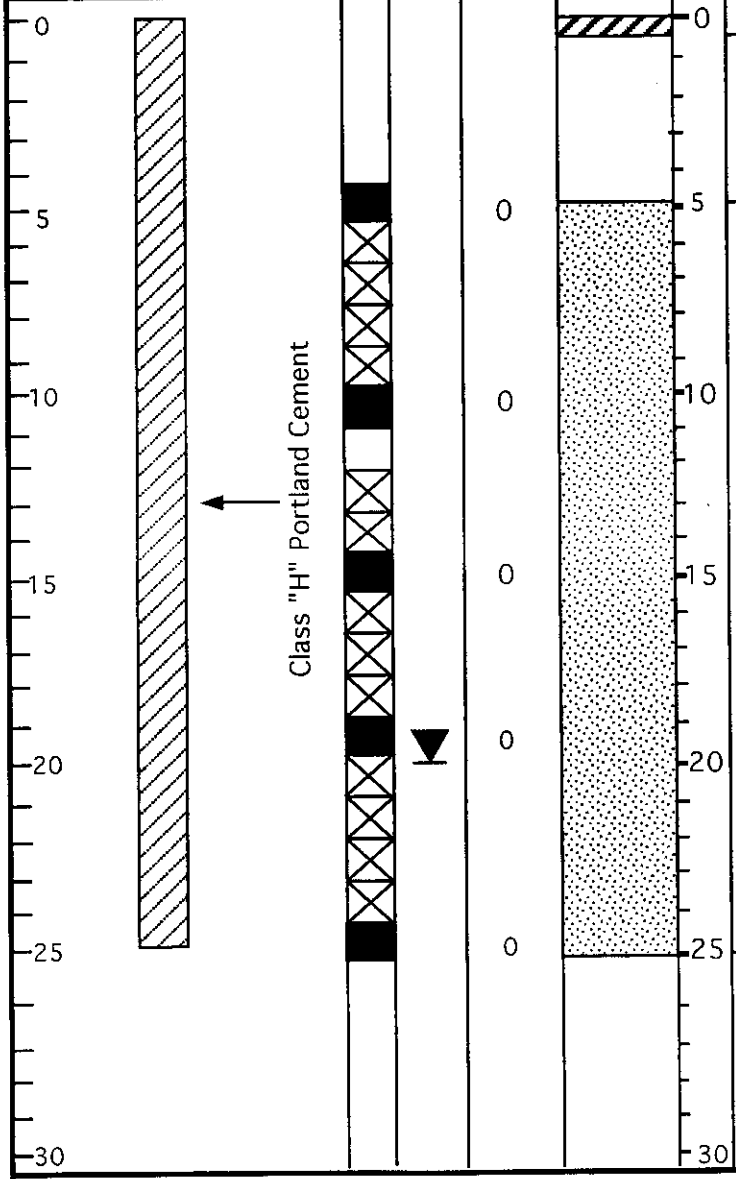
25

30

SOIL BORING LOG AND WELL COMPLETION DETAILS		Soil Boring: SB-6
Project Name: Lim	Project Location: 250 8th Street, Oakland, CA	Page 1 of 1
Driller: Vironex Drilling	Type of Rig: Geoprobe	Size of Drill: Macro Core Sampler
Logged By: Mike Rauser	Date Drilled: February 28, 2007	Checked By: Robert E. Kitay, P.G.

WATER AND WELL DATA

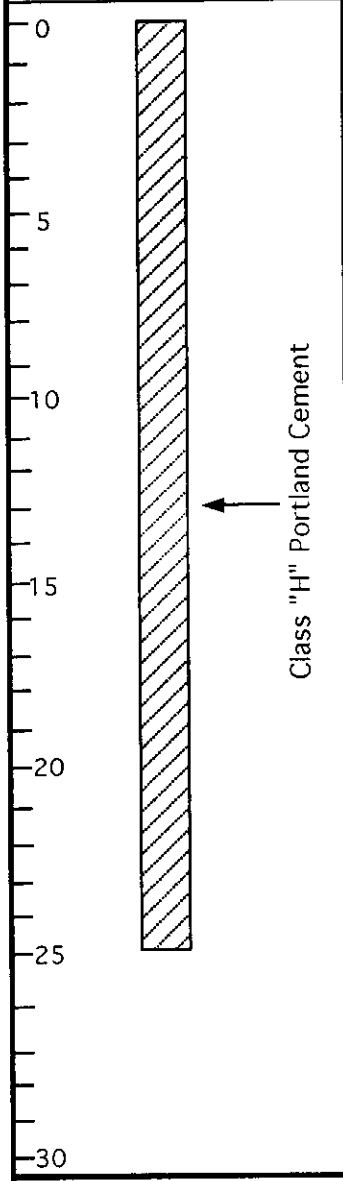
Depth of Water First Encountered: 20'	Total Depth of Well Completed: NA
Static Depth of Water in Well: Unknown	Well Screen Type and Diameter: NA
Total Depth of Boring: 25'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: Macro Core Sampler

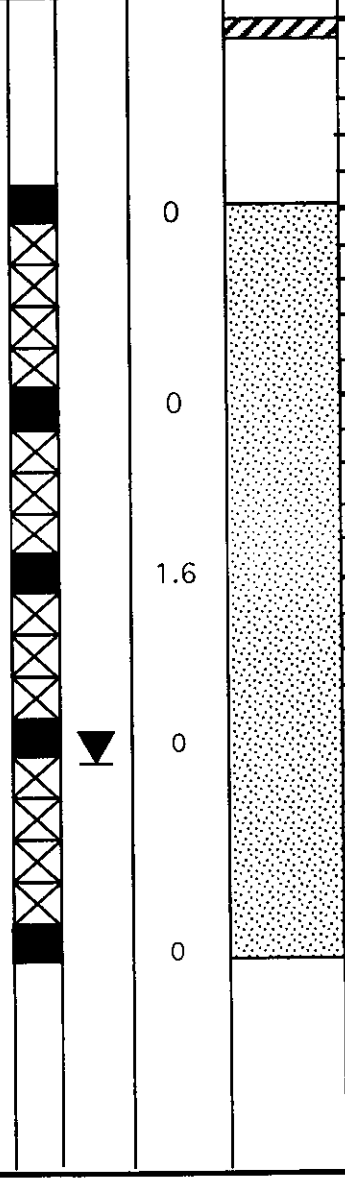


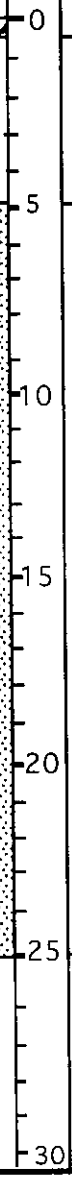
DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.	Depth in Feet
Asphalt	0
Hand Auger to 5'	
Silty SAND (SP); brown; dense; wet; 60% sand; 40% silt; low plasticity; high estimated K; no odor	5
damp at 8'	
70% sand; 30% silt at 12'	10
grey-green at 14'	
80% sand; 20% silt; non-plastic at 16'	15
grey-brown at 18'	
soft; wet at 20'	20
hard at 22'	
End of boring at 25'	25
	30

SOIL BORING LOG AND WELL COMPLETION DETAILS		Soil Boring: SB-7
Project Name: Lim	Project Location: 250 8th Street, Oakland, CA	Page 1 of 1
Driller: Vironex Drilling	Type of Rig: Geoprobe	Size of Drill: Macro Core Sampler
Logged By: Mike Rauser	Date Drilled: February 28, 2007	Checked By: Robert E. Kitay, P.G.

WATER AND WELL DATA	
Depth of Water First Encountered: 20'	Total Depth of Well Completed: NA
Static Depth of Water in Well: Unknown	Well Screen Type and Diameter: NA
Total Depth of Boring: 25'	Well Screen Slot Size: NA
	Type and Size of Soil Sampler: Macro Core Sampler







DESCRIPTION OF LITHOLOGY

standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.

0 Asphalt

Hand Auger to 5'

5 Silty SAND (SP); brown; dense; damp; 90% sand; 10% silt; non-plastic; high estimated K; no odor

10 80% sand; 20% silt; low plasticity at 12'

15 70% sand; 30% silt; hard at 17'

grey-brown at 18'

20 brown, 80% sand; 20% silt; wet at 20'

25 End of boring at 25'

30

Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526
(925) 820-9391 - Fax (925) 837-4853 - www.aquascienceengineers.com

APPENDIX C

Analytical Reports
And Chain of Custody Records
For Soil and Groundwater Samples

KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Mike Rauser
Aqua Science Engineers, Inc.
208 West El Pintado Rd.
Danville, CA 94526

Subject : 15 Soil Samples and 9 Water Samples
Project Name : Lim
Project Number : 2808

Dear Mr. Rauser,

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

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

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Subject : 15 Soil Samples and 9 Water Samples
Project Name : Lim
Project Number : 2808

Case Narrative

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for samples SB-1-20-23', SB-1-28-31' and SB-1-51-53'.

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for sample SB-1-20. These hydrocarbons are lower boiling than typical diesel fuel.

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples SB-1-30', SB-1-50', SB-1-55', SB-2-15', SB-3-15', SB-4-15', SB-6-15' and SB-7. These hydrocarbons are higher boiling than typical diesel fuel.

Surrogate Recovery for sample SB-3 for test method Mod. EPA 8015 was outside of control limits. This may indicate a bias in the analysis due to the sample's matrix or an interference from compounds present in the sample.

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-1-20'** Matrix : Soil Lab Number : 55109-03

Sample Date :3/1/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**19**	0.25	mg/Kg	EPA 8260B	3/3/2007
Toluene	**170**	0.25	mg/Kg	EPA 8260B	3/3/2007
Ethylbenzene	**99**	0.25	mg/Kg	EPA 8260B	3/3/2007
Total Xylenes	**420**	0.50	mg/Kg	EPA 8260B	3/3/2007
Methyl-t-butyl ether (MTBE)	**< 0.25**	0.25	mg/Kg	EPA 8260B	3/3/2007
Diisopropyl ether (DIPE)	**< 0.25**	0.25	mg/Kg	EPA 8260B	3/3/2007
Ethyl-t-butyl ether (ETBE)	**< 0.25**	0.25	mg/Kg	EPA 8260B	3/3/2007
Tert-amyl methyl ether (TAME)	**< 0.25**	0.25	mg/Kg	EPA 8260B	3/3/2007
Tert-Butanol	**< 1.5**	1.5	mg/Kg	EPA 8260B	3/3/2007
TPH as Gasoline	**3600**	50	mg/Kg	EPA 8260B	3/3/2007
1,2-Dichloroethane	**< 0.25**	0.25	mg/Kg	EPA 8260B	3/3/2007
1,2-Dibromoethane	**< 0.25**	0.25	mg/Kg	EPA 8260B	3/3/2007
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	3/3/2007
4-Bromofluorobenzene (Surr)	94.9		% Recovery	EPA 8260B	3/3/2007
1,2-Dichloroethane-d4 (Surr)	95.8		% Recovery	EPA 8260B	3/3/2007
TPH as Diesel (Silica Gel)	**1100**	1.0	mg/Kg	M EPA 8015	3/3/2007
1-Chlorooctadecane (Silica Gel Surr)	90.5		% Recovery	M EPA 8015	3/3/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55109

Date : 3/12/2007

Project Name : **Lim**

Project Number : **2808**

Sample : **SB-1-25'** Matrix : Soil Lab Number : 55109-04

Sample Date :3/1/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1.1**	0.025	mg/Kg	EPA 8260B	3/5/2007
Toluene	**0.27**	0.025	mg/Kg	EPA 8260B	3/5/2007
Ethylbenzene	**0.96**	0.025	mg/Kg	EPA 8260B	3/5/2007
Total Xylenes	**2.4**	0.025	mg/Kg	EPA 8260B	3/5/2007
Methyl-t-butyl ether (MTBE)	**< 0.025**	0.025	mg/Kg	EPA 8260B	3/5/2007
Diisopropyl ether (DIPE)	**< 0.025**	0.025	mg/Kg	EPA 8260B	3/5/2007
Ethyl-t-butyl ether (ETBE)	**< 0.025**	0.025	mg/Kg	EPA 8260B	3/5/2007
Tert-amyl methyl ether (TAME)	**< 0.025**	0.025	mg/Kg	EPA 8260B	3/5/2007
Tert-Butanol	**0.21**	0.15	mg/Kg	EPA 8260B	3/5/2007
TPH as Gasoline	**270**	25	mg/Kg	EPA 8260B	3/3/2007
1,2-Dichloroethane	**< 0.025**	0.025	mg/Kg	EPA 8260B	3/5/2007
1,2-Dibromoethane	**< 0.025**	0.025	mg/Kg	EPA 8260B	3/5/2007
Toluene - d8 (Surr)	95.5		% Recovery	EPA 8260B	3/5/2007
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	3/5/2007
1,2-Dichloroethane-d4 (Surr)	91.8		% Recovery	EPA 8260B	3/5/2007
TPH as Diesel (Silica Gel)	**820**	1.0	mg/Kg	M EPA 8015	3/3/2007
1-Chlorooctadecane (Silica Gel Surr)	87.0		% Recovery	M EPA 8015	3/3/2007

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-1-30'** Matrix : Soil Lab Number : 55109-05
Sample Date :3/1/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	3/6/2007
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	3/6/2007
4-Bromofluorobenzene (Surr)	95.8		% Recovery	EPA 8260B	3/6/2007
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	3/6/2007
TPH as Diesel (Silica Gel)	**2.9**	1.0	mg/Kg	M EPA 8015	3/3/2007
1-Chlorooctadecane (Silica Gel Surr)	92.8		% Recovery	M EPA 8015	3/3/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-1-35'** Matrix : Soil Lab Number : 55109-06

Sample Date :3/1/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	3/6/2007
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	3/6/2007
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	3/6/2007
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	3/6/2007
TPH as Diesel (Silica Gel)	**< 1.0**	1.0	mg/Kg	M EPA 8015	3/7/2007
1-Chlorooctadecane (Silica Gel Surr)	94.7		% Recovery	M EPA 8015	3/7/2007

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-1-40'** Matrix : Soil Lab Number : 55109-07
Sample Date :3/1/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	3/3/2007
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene - d8 (Surr)	108		% Recovery	EPA 8260B	3/3/2007
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	3/3/2007
1,2-Dichloroethane-d4 (Surr)	98.9		% Recovery	EPA 8260B	3/3/2007
TPH as Diesel (Silica Gel)	**< 1.0**	1.0	mg/Kg	M EPA 8015	3/3/2007
1-Chlorooctadecane (Silica Gel Surr)	97.7		% Recovery	M EPA 8015	3/3/2007

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2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-1-50'** Matrix : Soil Lab Number : 55109-08
Sample Date :3/1/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	3/3/2007
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene - d8 (Surr)	108		% Recovery	EPA 8260B	3/3/2007
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	3/3/2007
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	3/3/2007
TPH as Diesel (Silica Gel)	**3.9**	1.0	mg/Kg	M EPA 8015	3/3/2007
1-Chlorooctadecane (Silica Gel Surr)	84.5		% Recovery	M EPA 8015	3/3/2007

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-1-55'** Matrix : Soil Lab Number : 55109-09
Sample Date :3/1/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	3/3/2007
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene - d8 (Surr)	108		% Recovery	EPA 8260B	3/3/2007
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	3/3/2007
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	3/3/2007
TPH as Diesel (Silica Gel)	**6.4**	1.0	mg/Kg	M EPA 8015	3/3/2007
1-Chlorooctadecane (Silica Gel Surr)	87.1		% Recovery	M EPA 8015	3/3/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-1-60'** Matrix : Soil Lab Number : 55109-10
Sample Date :3/1/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	3/3/2007
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene - d8 (Surr)	108		% Recovery	EPA 8260B	3/3/2007
4-Bromofluorobenzene (Surr)	111		% Recovery	EPA 8260B	3/3/2007
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	3/3/2007
TPH as Diesel (Silica Gel)	**< 1.0**	1.0	mg/Kg	M EPA 8015	3/7/2007
1-Chlorooctadecane (Silica Gel Surr)	96.7		% Recovery	M EPA 8015	3/7/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-2-5'** Matrix : Soil Lab Number : 55109-11
Sample Date :2/27/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	3/6/2007
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/6/2007
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	3/6/2007
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	3/6/2007
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	3/6/2007
TPH as Diesel (Silica Gel)	**< 1.0**	1.0	mg/Kg	M EPA 8015	3/7/2007
1-Chlorooctadecane (Silica Gel Surr)	92.5		% Recovery	M EPA 8015	3/7/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-2-15'** Matrix : Soil Lab Number : 55109-13
Sample Date :2/27/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	3/3/2007
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	3/3/2007
4-Bromofluorobenzene (Surr)	109		% Recovery	EPA 8260B	3/3/2007
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	3/3/2007
TPH as Diesel (Silica Gel)	**2.6**	1.0	mg/Kg	M EPA 8015	3/8/2007
1-Chlorooctadecane (Silica Gel Surr)	109		% Recovery	M EPA 8015	3/8/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-3-15'** Matrix : Soil Lab Number : 55109-17
Sample Date :2/27/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	3/3/2007
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	3/3/2007
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	3/3/2007
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	3/3/2007
TPH as Diesel (Silica Gel)	**16**	1.0	mg/Kg	M EPA 8015	3/3/2007
1-Chlorooctadecane (Silica Gel Surr)	73.2		% Recovery	M EPA 8015	3/3/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-4-15'** Matrix : Soil Lab Number : 55109-22

Sample Date :2/27/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	3/3/2007
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	3/3/2007
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	3/3/2007
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	3/3/2007
TPH as Diesel (Silica Gel)	**4.2**	1.0	mg/Kg	M EPA 8015	3/3/2007
1-Chlorooctadecane (Silica Gel Surr)	97.3		% Recovery	M EPA 8015	3/3/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-5-15'** Matrix : Soil Lab Number : 55109-26
Sample Date :2/28/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	3/3/2007
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	3/3/2007
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	3/3/2007
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	3/3/2007
TPH as Diesel (Silica Gel)	**< 1.0**	1.0	mg/Kg	M EPA 8015	3/3/2007
1-Chlorooctadecane (Silica Gel Surr)	77.9		% Recovery	M EPA 8015	3/3/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-6-15'** Matrix : Soil Lab Number : 55109-29
Sample Date :2/28/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	3/3/2007
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	3/3/2007
4-Bromofluorobenzene (Surr)	99.3		% Recovery	EPA 8260B	3/3/2007
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	3/3/2007
TPH as Diesel (Silica Gel)	**1.2**	1.0	mg/Kg	M EPA 8015	3/3/2007
1-Chlorooctadecane (Silica Gel Surr)	78.4		% Recovery	M EPA 8015	3/3/2007

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-7-15'** Matrix : Soil Lab Number : 55109-33
Sample Date :2/28/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethylbenzene	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Total Xylenes	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Methyl-t-butyl ether (MTBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Diisopropyl ether (DIPE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethyl-t-butyl ether (ETBE)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-amyl methyl ether (TAME)	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-Butanol	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	3/3/2007
1,2-Dichloroethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
1,2-Dibromoethane	**< 0.0050**	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	3/3/2007
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	3/3/2007
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	3/3/2007
TPH as Diesel (Silica Gel)	**< 1.0**	1.0	mg/Kg	M EPA 8015	3/3/2007
1-Chlorooctadecane (Silica Gel Surr)	74.2		% Recovery	M EPA 8015	3/3/2007

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-1-20-23'** Matrix : Water Lab Number : 55109-36
Sample Date :3/1/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**33000**	100	ug/L	EPA 8260B	3/7/2007
Toluene	**39000**	100	ug/L	EPA 8260B	3/7/2007
Ethylbenzene	**2900**	25	ug/L	EPA 8260B	3/6/2007
Total Xylenes	**13000**	25	ug/L	EPA 8260B	3/6/2007
Methyl-t-butyl ether (MTBE)	**< 25**	25	ug/L	EPA 8260B	3/6/2007
Diisopropyl ether (DIPE)	**< 25**	25	ug/L	EPA 8260B	3/6/2007
Ethyl-t-butyl ether (ETBE)	**< 25**	25	ug/L	EPA 8260B	3/6/2007
Tert-amyl methyl ether (TAME)	**< 25**	25	ug/L	EPA 8260B	3/6/2007
Tert-Butanol	**< 150**	150	ug/L	EPA 8260B	3/6/2007
TPH as Gasoline	**160000**	2500	ug/L	EPA 8260B	3/6/2007
1,2-Dichloroethane	**< 25**	25	ug/L	EPA 8260B	3/6/2007
1,2-Dibromoethane	**< 25**	25	ug/L	EPA 8260B	3/6/2007
Toluene - d8 (Surr)	94.3		% Recovery	EPA 8260B	3/6/2007
4-Bromofluorobenzene (Surr)	96.6		% Recovery	EPA 8260B	3/6/2007
1,2-Dichloroethane-d4 (Surr)	98.9		% Recovery	EPA 8260B	3/6/2007
TPH as Diesel (Silica Gel)	**< 200000**	200000	ug/L	M EPA 8015	3/6/2007
Octacosane (Diesel Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	3/6/2007

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-1-28-31'** Matrix : Water Lab Number : 55109-37
Sample Date :3/1/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1300**	5.0	ug/L	EPA 8260B	3/6/2007
Toluene	**3500**	5.0	ug/L	EPA 8260B	3/6/2007
Ethylbenzene	**1500**	5.0	ug/L	EPA 8260B	3/6/2007
Total Xylenes	**4400**	5.0	ug/L	EPA 8260B	3/6/2007
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	3/6/2007
Diisopropyl ether (DIPE)	**< 5.0**	5.0	ug/L	EPA 8260B	3/6/2007
Ethyl-t-butyl ether (ETBE)	**< 5.0**	5.0	ug/L	EPA 8260B	3/6/2007
Tert-amyl methyl ether (TAME)	**< 5.0**	5.0	ug/L	EPA 8260B	3/6/2007
Tert-Butanol	**< 25**	25	ug/L	EPA 8260B	3/6/2007
TPH as Gasoline	**37000**	500	ug/L	EPA 8260B	3/6/2007
1,2-Dichloroethane	**< 5.0**	5.0	ug/L	EPA 8260B	3/6/2007
1,2-Dibromoethane	**< 5.0**	5.0	ug/L	EPA 8260B	3/6/2007
Toluene - d8 (Surr)	95.3		% Recovery	EPA 8260B	3/6/2007
4-Bromofluorobenzene (Surr)	96.6		% Recovery	EPA 8260B	3/6/2007
1,2-Dichloroethane-d4 (Surr)	97.6		% Recovery	EPA 8260B	3/6/2007
TPH as Diesel (Silica Gel)	**< 1500**	1500	ug/L	M EPA 8015	3/5/2007
Octacosane (Diesel Silica Gel Surr)	114		% Recovery	M EPA 8015	3/5/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-1-51-53'** Matrix : Water Lab Number : 55109-38
Sample Date :3/1/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**120**	0.50	ug/L	EPA 8260B	3/6/2007
Toluene	**320**	0.50	ug/L	EPA 8260B	3/6/2007
Ethylbenzene	**160**	0.50	ug/L	EPA 8260B	3/6/2007
Total Xylenes	**500**	0.50	ug/L	EPA 8260B	3/6/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/6/2007
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/6/2007
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/6/2007
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	3/6/2007
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	3/6/2007
TPH as Gasoline	**5200**	200	ug/L	EPA 8260B	3/6/2007
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	3/6/2007
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	3/6/2007
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	3/6/2007
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	3/6/2007
1,2-Dichloroethane-d4 (Surr)	99.9		% Recovery	EPA 8260B	3/6/2007
TPH as Diesel (Silica Gel)	**< 800**	800	ug/L	M EPA 8015	3/5/2007
Octacosane (Diesel Silica Gel Surr)	102		% Recovery	M EPA 8015	3/5/2007

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-2** Matrix : Water Lab Number : 55109-39

Sample Date :2/27/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.60**	0.50	ug/L	EPA 8260B	3/5/2007
Toluene	**2.8**	0.50	ug/L	EPA 8260B	3/5/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Total Xylenes	**0.77**	0.50	ug/L	EPA 8260B	3/5/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	3/5/2007
TPH as Gasoline	**5200**	200	ug/L	EPA 8260B	3/6/2007
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Toluene - d8 (Surr)	90.7		% Recovery	EPA 8260B	3/5/2007
4-Bromofluorobenzene (Surr)	89.6		% Recovery	EPA 8260B	3/5/2007
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	3/5/2007
TPH as Diesel (Silica Gel)	**190000**	500	ug/L	M EPA 8015	3/9/2007
Octacosane (Diesel Silica Gel Surr)	Diluted Out		% Recovery	M EPA 8015	3/9/2007

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-3** Matrix : Water Lab Number : 55109-40

Sample Date :2/27/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/6/2007
Toluene	**2.6**	0.50	ug/L	EPA 8260B	3/6/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/6/2007
Total Xylenes	**0.88**	0.50	ug/L	EPA 8260B	3/6/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/6/2007
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/6/2007
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/6/2007
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	3/6/2007
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	3/6/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	3/6/2007
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	3/6/2007
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	3/6/2007
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	3/6/2007
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	3/6/2007
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	3/6/2007
TPH as Diesel (Silica Gel)	**700**	50	ug/L	M EPA 8015	3/9/2007
Octacosane (Diesel Silica Gel Surr)	132		% Recovery	M EPA 8015	3/9/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-4** Matrix : Water Lab Number : 55109-41
Sample Date :2/27/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Toluene	**2.7**	0.50	ug/L	EPA 8260B	3/5/2007
Ethylbenzene	**6.8**	0.50	ug/L	EPA 8260B	3/5/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	3/5/2007
TPH as Gasoline	**260**	50	ug/L	EPA 8260B	3/5/2007
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Toluene - d8 (Surr)	96.0		% Recovery	EPA 8260B	3/5/2007
4-Bromofluorobenzene (Surr)	95.7		% Recovery	EPA 8260B	3/5/2007
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	3/5/2007
TPH as Diesel (Silica Gel)	**7900**	50	ug/L	M EPA 8015	3/3/2007
Octacosane (Diesel Silica Gel Surr)	102		% Recovery	M EPA 8015	3/3/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-5** Matrix : Water Lab Number : 55109-42

Sample Date :2/28/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Toluene	**2.8**	0.50	ug/L	EPA 8260B	3/5/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	3/5/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	3/5/2007
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	3/5/2007
4-Bromofluorobenzene (Surr)	99.3		% Recovery	EPA 8260B	3/5/2007
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	3/5/2007
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	3/6/2007
Octacosane (Diesel Silica Gel Surr)	127		% Recovery	M EPA 8015	3/6/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55109
Date : 3/12/2007

Project Name : **Lim**
Project Number : **2808**

Sample : **SB-6** Matrix : Water Lab Number : 55109-43
Sample Date :2/28/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Toluene	**2.3**	0.50	ug/L	EPA 8260B	3/5/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	3/5/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	3/5/2007
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Toluene - d8 (Surr)	95.7		% Recovery	EPA 8260B	3/5/2007
4-Bromofluorobenzene (Surr)	96.3		% Recovery	EPA 8260B	3/5/2007
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	3/5/2007
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	3/9/2007
Octacosane (Diesel Silica Gel Surr)	99.2		% Recovery	M EPA 8015	3/9/2007

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 55109

Date : 3/12/2007

Project Name : **Lim**

Project Number : **2808**

Sample : **SB-7** Matrix : Water Lab Number : 55109-44

Sample Date :2/28/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.72**	0.50	ug/L	EPA 8260B	3/5/2007
Toluene	**1.6**	0.50	ug/L	EPA 8260B	3/5/2007
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Methyl-t-butyl ether (MTBE)	**9.8**	0.50	ug/L	EPA 8260B	3/5/2007
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	3/5/2007
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	3/5/2007
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	3/5/2007
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	3/5/2007
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	3/5/2007
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	3/5/2007
TPH as Diesel (Silica Gel)	**190**	50	ug/L	M EPA 8015	3/6/2007
Octacosane (Diesel Silica Gel Surr)	107		% Recovery	M EPA 8015	3/6/2007

Approved By: Joel Kiff

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Report Number : 55109

Date : 3/12/2007

QC Report : Method Blank Data

Project Name : **Lim**

Project Number : **2808**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	3/3/2007
1-Chlorooctadecane (Silica Gel Surr)	90.3		%	M EPA 8015	3/3/2007
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/3/2007
Octacosane (Diesel Silica Gel Surr)	93.2		%	M EPA 8015	3/3/2007
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	3/6/2007
1-Chlorooctadecane (Silica Gel Surr)	75.4		%	M EPA 8015	3/6/2007
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/6/2007
Octacosane (Diesel Silica Gel Surr)	94.8		%	M EPA 8015	3/6/2007
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/7/2007
Octacosane (Diesel Silica Gel Surr)	93.8		%	M EPA 8015	3/7/2007
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	3/9/2007
Octacosane (Diesel Silica Gel Surr)	93.5		%	M EPA 8015	3/9/2007
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/2/2007
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/2/2007
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/2/2007
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/2/2007
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/2/2007
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/2/2007
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/2/2007
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/2/2007
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/2/2007
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	3/2/2007
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/2/2007
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/2/2007
Toluene - d8 (Surr)	97.9		%	EPA 8260B	3/2/2007
4-Bromofluorobenzene (Surr)	97.1		%	EPA 8260B	3/2/2007
1,2-Dichloroethane-d4 (Surr)	105		%	EPA 8260B	3/2/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/3/2007
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/3/2007
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/3/2007
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/3/2007
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/3/2007
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/3/2007
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	3/3/2007
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/3/2007
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/3/2007
Toluene - d8 (Surr)	101		%	EPA 8260B	3/3/2007
4-Bromofluorobenzene (Surr)	97.4		%	EPA 8260B	3/3/2007
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	3/3/2007
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/6/2007
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/6/2007
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/6/2007
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/6/2007
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/6/2007
Diisopropyl ether (DIPE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/6/2007
Ethyl-t-butyl ether (ETBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/6/2007
Tert-amyl methyl ether (TAME)	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/6/2007
Tert-Butanol	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/6/2007
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	3/6/2007
1,2-Dichloroethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/6/2007
1,2-Dibromoethane	< 0.0050	0.0050	mg/Kg	EPA 8260B	3/6/2007
Toluene - d8 (Surr)	99.3		%	EPA 8260B	3/6/2007
4-Bromofluorobenzene (Surr)	96.9		%	EPA 8260B	3/6/2007
1,2-Dichloroethane-d4 (Surr)	106		%	EPA 8260B	3/6/2007

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 55109

Date : 3/12/2007

QC Report : Method Blank Data

Project Name : **Lim**

Project Number : **2808**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/6/2007
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/5/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/5/2007
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Toluene - d8 (Surr)	95.5		%	EPA 8260B	3/5/2007
4-Bromofluorobenzene (Surr)	94.7		%	EPA 8260B	3/5/2007
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	3/5/2007
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/6/2007
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Toluene - d8 (Surr)	102		%	EPA 8260B	3/6/2007
4-Bromofluorobenzene (Surr)	108		%	EPA 8260B	3/6/2007
1,2-Dichloroethane-d4 (Surr)	104		%	EPA 8260B	3/6/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/6/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/6/2007
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Toluene - d8 (Surr)	103		%	EPA 8260B	3/6/2007
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	3/6/2007
1,2-Dichloroethane-d4 (Surr)	103		%	EPA 8260B	3/6/2007
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/5/2007
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/5/2007
Toluene - d8 (Surr)	89.7		%	EPA 8260B	3/5/2007
4-Bromofluorobenzene (Surr)	97.4		%	EPA 8260B	3/5/2007
1,2-Dichloroethane-d4 (Surr)	106		%	EPA 8260B	3/5/2007

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 55109

Date : 3/12/2007

QC Report : Method Blank Data

Project Name : **Lim**

Project Number : **2808**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/6/2007
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/6/2007
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Toluene - d8 (Surr)	96.9		%	EPA 8260B	3/6/2007
4-Bromofluorobenzene (Surr)	105		%	EPA 8260B	3/6/2007
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	3/6/2007
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/6/2007

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

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KIFF ANALYTICAL, LLC

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

Report Number : 55109

Date : 3/12/2007

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Lim**

Project Number : **2808**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	882	945	ug/L	M EPA 8015	3/3/07	88.2	94.5	6.91	70-130	25
TPH as Diesel	Blank	<50	1000	1000	850	857	ug/L	M EPA 8015	3/6/07	85.0	85.7	0.852	70-130	25
TPH as Diesel	Blank	<50	1000	1000	843	903	ug/L	M EPA 8015	3/7/07	84.3	90.3	6.86	70-130	25
Benzene	55062-04	<0.0050	0.0400	0.0393	0.0413	0.0398	mg/Kg	EPA 8260B	3/2/07	103	101	1.88	70-130	25
Toluene	55062-04	<0.0050	0.0400	0.0393	0.0414	0.0394	mg/Kg	EPA 8260B	3/2/07	103	100	2.94	70-130	25
Tert-Butanol	55062-04	<0.0050	0.200	0.196	0.203	0.192	mg/Kg	EPA 8260B	3/2/07	102	97.6	4.07	70-130	25
Methyl-t-Butyl Ether	55062-04	<0.0050	0.0400	0.0393	0.0402	0.0389	mg/Kg	EPA 8260B	3/2/07	100	99.0	1.43	70-130	25
Benzene	55109-29	<0.0050	0.0395	0.0394	0.0408	0.0414	mg/Kg	EPA 8260B	3/3/07	103	105	1.82	70-130	25
Toluene	55109-29	<0.0050	0.0395	0.0394	0.0403	0.0404	mg/Kg	EPA 8260B	3/3/07	102	103	0.794	70-130	25
Tert-Butanol	55109-29	<0.0050	0.198	0.197	0.186	0.185	mg/Kg	EPA 8260B	3/3/07	94.0	94.1	0.0538	70-130	25
Methyl-t-Butyl Ether	55109-29	<0.0050	0.0395	0.0394	0.0398	0.0407	mg/Kg	EPA 8260B	3/3/07	101	103	2.65	70-130	25
Benzene	55109-05	<0.0050	0.0394	0.0398	0.0382	0.0373	mg/Kg	EPA 8260B	3/6/07	96.8	93.8	3.11	70-130	25
Toluene	55109-05	<0.0050	0.0394	0.0398	0.0372	0.0362	mg/Kg	EPA 8260B	3/6/07	94.4	90.9	3.74	70-130	25
Tert-Butanol	55109-05	<0.0050	0.197	0.199	0.164	0.169	mg/Kg	EPA 8260B	3/6/07	83.1	85.0	2.22	70-130	25
Methyl-t-Butyl Ether	55109-05	<0.0050	0.0394	0.0398	0.0374	0.0370	mg/Kg	EPA 8260B	3/6/07	94.9	92.9	2.12	70-130	25
Benzene	55151-08	<0.50	40.0	39.8	41.0	42.0	ug/L	EPA 8260B	3/6/07	102	106	3.06	70-130	25

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KIFF ANALYTICAL, LLC

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

Report Number : 55109

Date : 3/12/2007

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Lim**

Project Number : **2808**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Toluene	55151-08	<0.50	40.0	39.8	40.6	40.4	ug/L	EPA 8260B	3/6/07	102	102	0.0552	70-130	25
Tert-Butanol	55151-08	11	200	199	200	203	ug/L	EPA 8260B	3/6/07	94.8	96.7	2.01	70-130	25
Methyl-t-Butyl Ether	55151-08	1.9	40.0	39.8	41.0	43.3	ug/L	EPA 8260B	3/6/07	97.8	104	6.23	70-130	25
Benzene	55151-01	<0.50	40.0	40.0	39.1	38.3	ug/L	EPA 8260B	3/5/07	97.8	95.8	2.16	70-130	25
Toluene	55151-01	<0.50	40.0	40.0	37.2	36.3	ug/L	EPA 8260B	3/5/07	93.0	90.8	2.30	70-130	25
Tert-Butanol	55151-01	<5.0	200	200	196	193	ug/L	EPA 8260B	3/5/07	98.2	96.7	1.59	70-130	25
Methyl-t-Butyl Ether	55151-01	<0.50	40.0	40.0	39.6	39.8	ug/L	EPA 8260B	3/5/07	98.9	99.6	0.698	70-130	25
Benzene	55108-03	<0.50	40.0	40.0	37.9	36.7	ug/L	EPA 8260B	3/6/07	94.9	91.8	3.26	70-130	25
Toluene	55108-03	<0.50	40.0	40.0	39.0	37.1	ug/L	EPA 8260B	3/6/07	97.6	92.8	5.08	70-130	25
Tert-Butanol	55108-03	<5.0	200	200	211	203	ug/L	EPA 8260B	3/6/07	105	102	3.63	70-130	25
Methyl-t-Butyl Ether	55108-03	<0.50	40.0	40.0	38.8	39.6	ug/L	EPA 8260B	3/6/07	97.1	98.9	1.81	70-130	25
Benzene	55151-03	<0.50	40.0	40.0	42.5	41.6	ug/L	EPA 8260B	3/5/07	106	104	2.05	70-130	25
Toluene	55151-03	<0.50	40.0	40.0	41.7	41.0	ug/L	EPA 8260B	3/5/07	104	102	1.87	70-130	25
Tert-Butanol	55151-03	240	200	200	439	430	ug/L	EPA 8260B	3/5/07	101	97.2	4.24	70-130	25
Methyl-t-Butyl Ether	55151-03	1.9	40.0	40.0	42.9	42.7	ug/L	EPA 8260B	3/5/07	102	102	0.433	70-130	25
Benzene	55151-02	6.0	40.0	40.0	45.3	43.7	ug/L	EPA 8260B	3/5/07	98.3	94.3	4.16	70-130	25
Toluene	55151-02	2.6	40.0	40.0	39.2	38.5	ug/L	EPA 8260B	3/5/07	91.6	89.8	1.96	70-130	25
Tert-Butanol	55151-02	<5.0	200	200	201	215	ug/L	EPA 8260B	3/5/07	101	107	6.61	70-130	25
Methyl-t-Butyl Ether	55151-02	<0.50	40.0	40.0	39.7	39.8	ug/L	EPA 8260B	3/5/07	99.2	99.5	0.329	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 55109

Date : 3/12/2007

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Lim**

Project Number : **2808**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	55108-02	<0.50	40.0	40.0	39.0	37.6	ug/L	EPA 8260B	3/6/07	97.5	93.9	3.77	70-130	25
Toluene	55108-02	<0.50	40.0	40.0	37.2	35.8	ug/L	EPA 8260B	3/6/07	93.1	89.5	3.94	70-130	25
Tert-Butanol	55108-02	<5.0	200	200	190	193	ug/L	EPA 8260B	3/6/07	94.9	96.4	1.54	70-130	25
Methyl-t-Butyl Ether	55108-02	<0.50	40.0	40.0	37.9	37.2	ug/L	EPA 8260B	3/6/07	94.7	93.0	1.78	70-130	25
Benzene	55171-09	<0.50	40.0	40.0	40.4	38.7	ug/L	EPA 8260B	3/6/07	101	96.9	4.22	70-130	25
Toluene	55171-09	<0.50	40.0	40.0	41.8	40.3	ug/L	EPA 8260B	3/6/07	105	101	3.82	70-130	25
Tert-Butanol	55171-09	<5.0	200	200	202	206	ug/L	EPA 8260B	3/6/07	101	103	1.82	70-130	25
Methyl-t-Butyl Ether	55171-09	<0.50	40.0	40.0	44.9	45.0	ug/L	EPA 8260B	3/6/07	112	112	0.372	70-130	25
TPH as Diesel	55109-09	6.4	20.0	20.0	18.0	18.1	mg/Kg	M EPA 8015	3/3/07	68.0	68.4	0.643	60-140	25
TPH as Diesel	55068-02	1.5	20.0	20.0	19.2	19.6	mg/Kg	M EPA 8015	3/7/07	89.4	91.1	1.91	60-140	25
TPH as Diesel	Blank	<50	1000	1000	838	883	ug/L	M EPA 8015	3/9/07	83.8	88.3	5.16	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 55109

Date : 3/12/2007

QC Report : Laboratory Control Sample (LCS)

Project Name : **Lim**

Project Number : **2808**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0399	mg/Kg	EPA 8260B	3/2/07	104	70-130
Toluene	0.0399	mg/Kg	EPA 8260B	3/2/07	101	70-130
Tert-Butanol	0.200	mg/Kg	EPA 8260B	3/2/07	95.6	70-130
Methyl-t-Butyl Ether	0.0399	mg/Kg	EPA 8260B	3/2/07	99.3	70-130
Benzene	0.0398	mg/Kg	EPA 8260B	3/3/07	108	70-130
Toluene	0.0398	mg/Kg	EPA 8260B	3/3/07	105	70-130
Tert-Butanol	0.199	mg/Kg	EPA 8260B	3/3/07	98.8	70-130
Methyl-t-Butyl Ether	0.0398	mg/Kg	EPA 8260B	3/3/07	110	70-130
Benzene	0.0396	mg/Kg	EPA 8260B	3/6/07	101	70-130
Toluene	0.0396	mg/Kg	EPA 8260B	3/6/07	97.6	70-130
Tert-Butanol	0.198	mg/Kg	EPA 8260B	3/6/07	98.5	70-130
Methyl-t-Butyl Ether	0.0396	mg/Kg	EPA 8260B	3/6/07	104	70-130
Benzene	40.0	ug/L	EPA 8260B	3/6/07	104	70-130
Toluene	40.0	ug/L	EPA 8260B	3/6/07	100	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/6/07	99.1	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/6/07	104	70-130
Benzene	40.0	ug/L	EPA 8260B	3/5/07	96.0	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 55109

QC Report : Laboratory Control Sample (LCS)

Date : 3/12/2007

Project Name : **Lim**

Project Number : **2808**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Toluene	40.0	ug/L	EPA 8260B	3/5/07	93.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/5/07	97.1	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/5/07	96.9	70-130
Benzene	40.0	ug/L	EPA 8260B	3/6/07	92.5	70-130
Toluene	40.0	ug/L	EPA 8260B	3/6/07	97.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/6/07	105	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/6/07	94.0	70-130
Benzene	40.0	ug/L	EPA 8260B	3/5/07	104	70-130
Toluene	40.0	ug/L	EPA 8260B	3/5/07	105	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/5/07	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/5/07	106	70-130
Benzene	40.0	ug/L	EPA 8260B	3/5/07	99.8	70-130
Toluene	40.0	ug/L	EPA 8260B	3/5/07	93.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/5/07	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/5/07	102	70-130
Benzene	40.0	ug/L	EPA 8260B	3/6/07	98.6	70-130
Toluene	40.0	ug/L	EPA 8260B	3/6/07	96.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/6/07	97.2	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 55109

QC Report : Laboratory Control Sample (LCS)

Date : 3/12/2007

Project Name : **Lim**

Project Number : **2808**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/6/07	96.7	70-130
Benzene	40.0	ug/L	EPA 8260B	3/6/07	96.2	70-130
Toluene	40.0	ug/L	EPA 8260B	3/6/07	99.3	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/6/07	100	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/6/07	104	70-130
TPH as Diesel	20.0	mg/Kg	M EPA 8015	3/3/07	88.3	70-130
TPH as Diesel	20.0	mg/Kg	M EPA 8015	3/6/07	86.2	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

55109

Aqua Science Engineers, Inc.
208 W. El Pintado Road
Danville, CA 94526
(925) 820-9391
FAX (925) 837-4853

Chain of Custody

SAMPLER (SIGNATURE) M. Rauser

PAGE 1 OF 5

PROJECT NAME Lim

ADDRESS 250 8th Street, Oakland, CA

JOB NO. 2808

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	QUANTITY	TPH-GAS / MTBE & BTEX (EPA 5030/8015-6020)	TPH-DIESEL (EPA 3510/8015) w/silica gel cleanup	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	VOLATILE ORGANICS (EPA 624/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520) ———	LUFT METALS (5) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140 EPA 608/8080)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	PURGEABLE HALOCARBONS (EPA 601/8010)	MULTI-RANGE HYDROCARBONS	SILICA-GEL CLEANUP	TPH-G/BTEX/5 oxy's 16 scan	HOLD	EDF
SB-1-10'	3-1-07	940	S	1																	X	
SB-1-15'		950	S	1																	X	
SB-1-20'		1000	S	1		X																
SB-1-25'		1010	S	1		X															X	
SB-1-30'		1015	S	1		X															X	
SB-1-35'		1040	S	1		X															X	
SB-1-40'		1050	S	1		X															X	
SB-1-50'		1145	S	1		X															X	
SB-1-55'		1220	S	1		X															X	
SB-1-60'		1230	S	1		X															X	
SB-2-5'	2-27-07	1050	S	1		X															X	

SAMPLE RECEIPT
Temp °C 2.8 Therm. ID# IR-5
Initial RL Date 03 02 07
Time 1652 Coolant present: (Yes) No

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
(signature) (time) 1800	(signature) (time)	(signature) (time)	(signature) (time) 1154	H&L = VOA's
M. Rauser (printed name) 3-1-07 (date)	(printed name) (date)	(printed name) (date)	Ron McGee (printed name) 030207 (date)	TURN AROUND TIME: (STANDARD) 24Hr 48Hr 72Hr
Company- ASE, INC.	Company	Company-	Company- Kiff Analytical	OTHER:

Aqua Science Engineers, Inc.
208 W. El Pintado Road
Danville, CA 94526
(925) 820-9391
FAX (925) 837-4853

Chain of Custody

2-105

PAGE 2-5

SAMPLER (SIGNATURE) M. Rauser

PROJECT NAME Lim JOB NO. 2808

ADDRESS 250 8th Street, Oakland, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	# CONTAINERS	TPH-G/BTEX/ 5 Oxys/ Pb scav	TPH-D w/silica gel cleanup	HOLD	
SB-2-10'	2-27-07	1100	S	1			X	12
SB-2-15'		1110			X	X		13
SB-2-20'		1120					X	14
SB-2-25'		1130					X	15
SB-3-10'		900					X	16
SB-3-15'		910			X	X		17
SB-3-20'		940					X	18
SB-3-25'		1000					X	19
SB-4-5'		1200					X	20
SB-4-10'		1210					X	21
SB-4-15'		1220			X	X		22

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
M. Rauser 1800			Ron McGee 1154	HL = VOA
(signature) (time)	(signature) (time)	(signature) (time)	(signature) (time)	
M. Rauser 3-1-07			Ron McGee 030207	TURN AROUND TIME
(printed name) (date)	(printed name) (date)	(printed name) (date)	(printed name) (date)	STANDARD 24Hr 48Hr 72Hr
Company-ASE, INC.	Company-	Company-	Kiff Analytical Company-	OTHER:

Aqua Science Engineers, Inc.
208 W. El Pintado Road
Danville, CA 94526
(925) 820-9391
FAX (925) 837-4853

55109

Chain of Custody

PAGE 3-5

SAMPLER (SIGNATURE) M. Rauser

PROJECT NAME Lim JOB NO. 2808

ADDRESS 250 8th Street, Oakland, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	QUANTITY	TPH-G/BTEX/ 5 oxy + Pb scav.	TPH-D w/ Silica cad cleanup	PESTICIDES (EPA 8081)	HOLD	
SB-4-20'	2-27-07	1225	S	1				X	23
SB-4-25'	2-27-07	1230						X	24
SB-5-10'	2-28-07	900						X	25
SB-5-15'		910			X	X			26
SB-5-20'		930						X	27
SB-6-10'		1050						X	28
SB-6-15'		1110			X	X			29
SB-6-20'		1130						X	30
SB-6 25'		1140						X	31
SB-7-10'		1300						X	32
SB-7-15'		1310			X	X			33

RELINQUISHED BY: M. Rauser 1800 (signature) (time) M. Rauser 3-1-07 (printed name) (date) Company-ASE, INC.

RECEIVED BY: (signature) (time) (printed name) (date) Company-

RELINQUISHED BY: (signature) (time) (printed name) (date) Company-

RECEIVED BY LABORATORY: Ron McGee 1154 (signature) (time) Ron McGee 030207 (printed name) (date) Kiff Analytical Company-

COMMENTS: HCl = VOA

TURN AROUND TIME: STANDARD 24Hr 48Hr 72Hr OTHER:

Aqua Science Engineers, Inc.
208 W. El Pintado Road
Danville, CA 94526
(925) 820-9391
FAX (925) 837-4853

Chain of Custody

SAMPLER (SIGNATURE) M. Rauser

PROJECT NAME Lim

ADDRESS 250 8th Street, Oakland, CA

JOB NO. 2808

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	WATER	QUANTITY	TPH-G/BTEX/ 5 Oxys/ PB scav	TPH-D w/ Silica Gel cleanup	HOLD	
SB-7-20'	2-28-07	1330	S	1			X	34
SB-7-25'	2-28-07	1340	S	1			X	35
SB-1-20-23'	3-1-07	1500	W	5	X	X		36
SB-1-28-31'	3-1-07	1520	W	5	X	X		37
~~SB-1~~			W					~~38~~ RM
SB-1-51-53'	↓	1630	W	5	X	X		39 38
SB-2	2-27-07	1140	W	5	X	X		40 39
SB-3	↓	1010	W	5	X	X		41 40
SB-4	↓	1240	W	5	X	X		42 41
SB-5	2-28-07	1000	W	5	X	X		43 42
SB-6	↓	1200	W	5	X	X		44 43

RLM

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
M. Rauser 1800			Ron McGee 1154	HL = VOA
(signature) (time)	(signature) (time)	(signature) (time)	(signature) (time)	
M. Rauser 3-1-07			Ron McGee 030207	TURN AROUND TIME
(printed name) (date)	(printed name) (date)	(printed name) (date)	(printed name) (date)	STANDARD 24Hr 48Hr 72Hr
Company-ASE, INC.	Company-	Company-	Kiff Analytical Company-	OTHER:

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Chain of Custody

PAGE 5-5

SAMPLER (SIGNATURE) M. Rauser

PROJECT NAME Lim JOB NO. 2808

ADDRESS 250 87th Street, Oakland, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	QUANTITY	TPH-G/BTEX/5 oxy/Pb scan	TPH-D w/ Silica Gel cleanup	HOLD
SB-7	2-28-07	1400	W	5	X	X	

RLM 45.4

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
M. Rauser 1800			Ron McGee 1154	HOLD = VOA's
(signature) (time)	(signature) (time)	(signature) (time)	(signature) (time)	
M. Rauser 3-1-07			Ron McGee 030207	TURN AROUND TIME
(printed name) (date)	(printed name) (date)	(printed name) (date)	(printed name) (date)	STANDARD 24Hr 48Hr 72Hr
Company-ASE, INC.	Company-	Company-	Kiff Analytical Company-	OTHER:

Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526
(925) 820-9391 - Fax (925) 837-4853 - www.aquascienceengineers.com

APPENDIX D

Analytical Reports for Soil Vapor Samples

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0703294

Work Order Summary

CLIENT:	Mr. Robert Kitay Aqua Science Engineering 208 West El Pintado Danville, CA 95426	**BILL TO:**	Mr. Robert Kitay Aqua Science Engineering 208 West El Pintado Danville, CA 95426
PHONE:	925-820-9391	**P.O. #**	
FAX:	925-837-4853	**PROJECT #**	2808 Lim
DATE RECEIVED:	03/12/2007	**CONTACT:**	Sarah Nguyen
DATE COMPLETED:	03/23/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	SV-1	Modified TO-3	1.0 "Hg
02A	SV-2	Modified TO-3	5.5 "Hg
03A	SV-3	Modified TO-3	3.0 "Hg
04A	SV-4	Modified TO-3	5.5 "Hg
05A	SV-5	Modified TO-3	4.5 "Hg
06A	SV-7	Modified TO-3	5.0 "Hg
07A	Lab Blank	Modified TO-3	NA
08A	LCS	Modified TO-3	NA
08B	LCS	Modified TO-3	NA

CERTIFIED BY: _____ DATE: 03/23/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
Aqua Science Engineering
Workorder# 0703294

Six 1 Liter Summa Canister samples were received on March 12, 2007. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with photo ionization and flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline and correspond to the range of hydrocarbons from C5 to C10. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L.

See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The recovery of surrogate Fluorobenzene in samples SV-1, SV-2, SV-3, SV-4 and SV-7 was outside control limits due to high level hydrocarbon matrix interference. Data is reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/PID/FID

Client Sample ID: SV-1

Lab ID#: 0703294-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0021	0.0067	0.40	1.3
Toluene	0.0021	0.0079	0.21	0.78
Ethyl Benzene	0.0021	0.0091	0.031	0.13
m,p-Xylene	0.0021	0.0091	0.074	0.32
o-Xylene	0.0021	0.0091	0.044	0.19
TPH (Gasoline Range)	0.052	0.21	7.3	30

Client Sample ID: SV-2

Lab ID#: 0703294-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0025	0.0079	0.19	0.62
Toluene	0.0025	0.0093	0.16	0.62
Ethyl Benzene	0.0025	0.011	0.058	0.25
m,p-Xylene	0.0025	0.011	0.082	0.36
o-Xylene	0.0025	0.011	0.042	0.18
TPH (Gasoline Range)	0.062	0.25	10	42

Client Sample ID: SV-3

Lab ID#: 0703294-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0022	0.0072	0.13	0.42
Toluene	0.0022	0.0084	0.22	0.83
Ethyl Benzene	0.0022	0.0097	0.12	0.55
m,p-Xylene	0.0022	0.0097	0.17	0.74
o-Xylene	0.0022	0.0097	0.075	0.32
TPH (Gasoline Range)	0.056	0.23	12	47

Client Sample ID: SV-4

Lab ID#: 0703294-04A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0025	0.0079	0.11	0.36
Toluene	0.0025	0.0093	0.23	0.86

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/PID/FID

Client Sample ID: SV-4

Lab ID#: 0703294-04A

Ethyl Benzene	0.0025	0.011	0.14	0.59
m,p-Xylene	0.0025	0.011	0.18	0.77
o-Xylene	0.0025	0.011	0.048 M	0.21 M
TPH (Gasoline Range)	0.062	0.25	16	64

Client Sample ID: SV-5

Lab ID#: 0703294-05A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0024	0.0076	0.022	0.070
Toluene	0.0024	0.0090	0.019	0.071
Ethyl Benzene	0.0024	0.010	0.0040	0.017
m,p-Xylene	0.0024	0.010	0.0086	0.038
o-Xylene	0.0024	0.010	0.0047	0.020
TPH (Gasoline Range)	0.060	0.24	1.0	4.2

Client Sample ID: SV-7

Lab ID#: 0703294-06A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0032	0.010	0.83	2.7
Toluene	0.0032	0.012	0.36	1.4
Ethyl Benzene	0.0032	0.014	0.057	0.25
m,p-Xylene	0.0032	0.014	0.14	0.59
o-Xylene	0.0032	0.014	0.081	0.35
TPH (Gasoline Range)	0.081	0.33	16	64

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV-1

Lab ID#: 0703294-01A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6031411**	**Date of Collection: 3/5/07**	
Dil. Factor:	**2.09**	**Date of Analysis: 3/14/07 01:32 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0021.	0.0067	0.40	1.3
Toluene	0.0021	0.0079	0.21	0.78
Ethyl Benzene	0.0021	0.0091	0.031	0.13
m,p-Xylene	0.0021	0.0091	0.074	0.32
o-Xylene	0.0021	0.0091	0.044	0.19
TPH (Gasoline Range)	0.052	0.21	7.3	30

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	151 Q	75-150
Fluorobenzene (PID)	153 Q	75-125

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV-2

Lab ID#: 0703294-02A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6031412**	**Date of Collection: 3/5/07**	
Dil. Factor:	**2.47**	**Date of Analysis: 3/14/07 01:59 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0025	0.0079	0.19	0.62
Toluene	0.0025	0.0093	0.16	0.62
Ethyl Benzene	0.0025	0.011	0.058	0.25
m,p-Xylene	0.0025	0.011	0.082	0.36
o-Xylene	0.0025	0.011	0.042	0.18
TPH (Gasoline Range)	0.062	0.25	10	42

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	134	75-150
Fluorobenzene (PID)	127 Q	75-125

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV-3

Lab ID#: 0703294-03A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6031413**	**Date of Collection: 3/5/07**	
Dil. Factor:	**2.24**	**Date of Analysis: 3/14/07 02:25 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0022	0.0072	0.13	0.42
Toluene	0.0022	0.0084	0.22	0.83
Ethyl Benzene	0.0022	0.0097	0.12	0.55
m,p-Xylene	0.0022	0.0097	0.17	0.74
o-Xylene	0.0022	0.0097	0.075	0.32
TPH (Gasoline Range)	0.056	0.23	12	47

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	137	75-150
Fluorobenzene (PID)	137 Q	75-125

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV-4

Lab ID#: 0703294-04A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6031414**	**Date of Collection: 3/5/07**	
Dil. Factor:	**2.47**	**Date of Analysis: 3/14/07 02:58 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0025	0.0079	0.11	0.36
Toluene	0.0025	0.0093	0.23	0.86
Ethyl Benzene	0.0025	0.011	0.14	0.59
m,p-Xylene	0.0025	0.011	0.18	0.77
o-Xylene	0.0025	0.011	0.048 M	0.21 M
TPH (Gasoline Range)	0.062	0.25	16	64

M = Reported value may be biased due to apparent matrix interferences.
Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	128	75-150
Fluorobenzene (PID)	130 Q	75-125

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV-5

Lab ID#: 0703294-05A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6031415**	**Date of Collection: 3/5/07**	
Dil. Factor:	**2.38**	**Date of Analysis: 3/14/07 03:28 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0024	0.0076	0.022	0.070
Toluene	0.0024	0.0090	0.019	0.071
Ethyl Benzene	0.0024	0.010	0.0040	0.017
m,p-Xylene	0.0024	0.010	0.0086	0.038
o-Xylene	0.0024	0.010	0.0047	0.020
TPH (Gasoline Range)	0.060	0.24	1.0	4.2

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	98	75-150
Fluorobenzene (PID)	100	75-125

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV-7

Lab ID#: 0703294-06A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6031416**	**Date of Collection: 3/5/07**	
Dil. Factor:	**3.23**	**Date of Analysis: 3/14/07 04:00 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0032	0.010	0.83	2.7
Toluene	0.0032	0.012	0.36	1.4
Ethyl Benzene	0.0032	0.014	0.057	0.25
m,p-Xylene	0.0032	0.014	0.14	0.59
o-Xylene	0.0032	0.014	0.081	0.35
TPH (Gasoline Range)	0.081	0.33	16	64

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	165 Q	75-150
Fluorobenzene (PID)	162 Q	75-125

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0703294-07A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6031403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/07 08:47 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0010	0.0032	Not Detected	Not Detected
Toluene	0.0010	0.0038	Not Detected	Not Detected
Ethyl Benzene	0.0010	0.0043	Not Detected	Not Detected
m,p-Xylene	0.0010	0.0043	Not Detected	Not Detected
o-Xylene	0.0010	0.0043	Not Detected	Not Detected
TPH (Gasoline Range)	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	89	75-150
Fluorobenzene (PID)	90	75-125

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0703294-08A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6031417b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/07 04:33 PM**	

Compound	%Recovery
Benzene	88
Toluene	86
Ethyl Benzene	82
m,p-Xylene	81
o-Xylene	80

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	91	75-125

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0703294-08B

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6031418**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/14/07 05:06 PM**	

Compound	%Recovery
TPH (Gasoline Range)	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	99	75-150

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/PID/FID

Client Sample ID: SV-6

Lab ID#: 0703262-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0022	0.0072	0.56 M	1.8 M
Toluene	0.0022	0.0084	0.035 M	0.13 M
Ethyl Benzene	0.0022	0.0097	0.020 M	0.085 M
m,p-Xylene	0.0022	0.0097	0.030 M	0.13 M
o-Xylene	0.0022	0.0097	0.017	0.073
TPH (Gasoline Range)	0.056	0.23	28	110

Client Sample ID: SV-6 Duplicate

Lab ID#: 0703262-01AA

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0022	0.0072	0.55 M	1.8 M
Toluene	0.0022	0.0084	0.036 M	0.14 M
Ethyl Benzene	0.0022	0.0097	0.020 M	0.087 M
m,p-Xylene	0.0022	0.0097	0.028 M	0.12 M
o-Xylene	0.0022	0.0097	0.016	0.072
TPH (Gasoline Range)	0.056	0.23	28	110

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0703262

Work Order Summary

CLIENT:	Mr. Robert Kitay Aqua Science Engineering 208 West El Pintado Danville, CA 95426	**BILL TO:**	Mr. Robert Kitay Aqua Science Engineering 208 West El Pintado Danville, CA 95426
PHONE:	925-820-9391	**P.O. #**	
FAX:	925-837-4853	**PROJECT #**	2808 Lim
DATE RECEIVED:	03/12/2007	**CONTACT:**	Sarah Nguyen
DATE COMPLETED:	03/23/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	SV-6	Modified TO-3	3.0 "Hg
01AA	SV-6 Duplicate	Modified TO-3	3.0 "Hg
02A	Lab Blank	Modified TO-3	NA
03A	LCS	Modified TO-3	NA
03B	LCS	Modified TO-3	NA

CERTIFIED BY: _____ DATE: 03/23/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/06, Expiration date: 06/30/07
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
Aqua Science Engineering
Workorder# 0703262

One 1 Liter Summa Canister sample was received on March 12, 2007. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with photo ionization and flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The recovery of surrogate Fluorobenzene in samples SV-6 and SV-6 Duplicate was outside control limits due to high level hydrocarbon matrix interference. Data is reported as qualified.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

B - Compound present in laboratory blank greater than reporting limit.
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File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/PID/FID

Client Sample ID: SV-6

Lab ID#: 0703262-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0022	0.0072	0.56 M	1.8 M
Toluene	0.0022	0.0084	0.035 M	0.13 M
Ethyl Benzene	0.0022	0.0097	0.020 M	0.085 M
m,p-Xylene	0.0022	0.0097	0.030 M	0.13 M
o-Xylene	0.0022	0.0097	0.017	0.073
TPH (Gasoline Range)	0.056	0.23	28	110

Client Sample ID: SV-6 Duplicate

Lab ID#: 0703262-01AA

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0022	0.0072	0.55 M	1.8 M
Toluene	0.0022	0.0084	0.036 M	0.14 M
Ethyl Benzene	0.0022	0.0097	0.020 M	0.087 M
m,p-Xylene	0.0022	0.0097	0.028 M	0.12 M
o-Xylene	0.0022	0.0097	0.016	0.072
TPH (Gasoline Range)	0.056	0.23	28	110

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV-6

Lab ID#: 0703262-01A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6031508**	**Date of Collection: 3/8/07**	
Dil. Factor:	**2.24**	**Date of Analysis: 3/15/07 12:52 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0022	0.0072	0.56 M	1.8 M
Toluene	0.0022	0.0084	0.035 M	0.13 M
Ethyl Benzene	0.0022	0.0097	0.020 M	0.085 M
m,p-Xylene	0.0022	0.0097	0.030 M	0.13 M
o-Xylene	0.0022	0.0097	0.017	0.073
TPH (Gasoline Range)	0.056	0.23	28	110

M = Reported value may be biased due to apparent matrix interferences.
Q = Exceeds Quality Control limits, due to matrix effects. Matrix effects confirmed by re-analysis.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	175 Q	75-150
Fluorobenzene (PID)	152 Q	75-125

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SV-6 Duplicate

Lab ID#: 0703262-01AA

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6031509**	**Date of Collection: 3/8/07**	
Dil. Factor:	**2.24**	**Date of Analysis: 3/15/07 01:26 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0022	0.0072	0.55 M	1.8 M
Toluene	0.0022	0.0084	0.036 M	0.14 M
Ethyl Benzene	0.0022	0.0097	0.020 M	0.087 M
m,p-Xylene	0.0022	0.0097	0.028 M	0.12 M
o-Xylene	0.0022	0.0097	0.016	0.072
TPH (Gasoline Range)	0.056	0.23	28	110

M = Reported value may be biased due to apparent matrix interferences.
Q = Exceeds Quality Control limits, due to matrix effects. Matrix effects confirmed by re-analysis.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	177 Q	75-150
Fluorobenzene (PID)	154 Q	75-125

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0703262-02A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6031503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/15/07 09:05 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Benzene	0.0010	0.0032	Not Detected	Not Detected
Toluene	0.0010	0.0038	Not Detected	Not Detected
Ethyl Benzene	0.0010	0.0043	Not Detected	Not Detected
m,p-Xylene	0.0010	0.0043	Not Detected	Not Detected
o-Xylene	0.0010	0.0043	Not Detected	Not Detected
TPH (Gasoline Range)	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	86	75-150
Fluorobenzene (PID)	88	75-125

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0703262-03A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6031510b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/15/07 02:55 PM**	

Compound	%Recovery
Benzene	88
Toluene	87
Ethyl Benzene	82
m,p-Xylene	81
o-Xylene	80

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	97	75-125

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0703262-03B

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	**6031511**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/15/07 03:35 PM**	

Compound	%Recovery
TPH (Gasoline Range)	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	122	75-150