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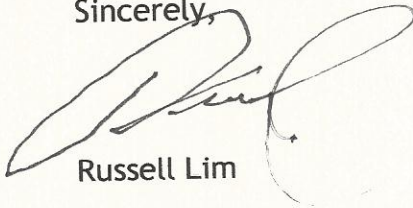
Alameda County Health Care Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

Re: RO #479, Report [REDACTED]

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have further questions I may be reached at 925-381-3608.

Sincerely,

A handwritten signature in black ink, appearing to read "Russell Lim", with a large, stylized flourish extending from the end of the signature.

Russell Lim



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(925) 820-9391 - Fax (925) 837-4853 - [www.aquascienceengineers.com](http://www.aquascienceengineers.com)

August 23, 2013

Mr. Jerry Wickham  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577

**SUBJECT: OZONE-SPARGING AND VAPOR EXTRACTION REMEDIATION  
SYSTEMS SEMI-ANNUAL OPERATION REPORT AND CURRENT  
GROUNDWATER MONITORING WELL ANALYTICAL RESULTS  
Lim Family Property, RO #0000479  
250 8<sup>th</sup> Street  
Oakland, California**

Dear Mr. Wickham:

On behalf of our clients, Alice Ng and May Lee Lim, Aqua Science Engineers, Inc. (ASE) is pleased to submit this report detailing the semi-annual operation of the ozone-sparging and vapor-extraction remediation equipment at the subject site. This report also includes current groundwater monitoring well analytical results.

Should you require any additional information, please feel free to call me at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

A handwritten signature in black ink that reads "David Allen". The signature is written in a cursive, flowing style.

David Allen  
Vice President



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August 23, 2013

REMEDIATION SYSTEMS SEMI-ANNUAL OPERATION REPORT  
AND GROUNDWATER MONITORING RESULTS  
LIM FAMILY PROPERTY  
250 8TH STREET  
OAKLAND, CALIFORNIA  
(ASE JOB NO. 2808)  
(RO #0000479)  
(USTCF Claim Number 7699)

for

Alice Ng Lim & May Lee Lim  
c/o Mr. Russell Lim  
3111 Diablo View Road  
Lafayette, CA 94549

Submitted by:

Aqua Science Engineers  
55 Oak Court, Suite 220  
Danville, CA 94526  
(925) 820-9391



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## **1.0 INTRODUCTION**

This report details Aqua Science Engineers, Inc. (ASE) operation of the ozone-sparging and vapor-extraction remediation systems at the Lim property located at 250 8<sup>th</sup> Street in Oakland, California since January 2013 (Figure 1). This report also provides current groundwater concentrations in the site's on and off-site groundwater monitoring wells.

## **2.0 WEEKLY OPERATION AND MAINTENANCE ACTIVITIES**

ASE personnel visited the site on a regular basis to maintain the remediation equipment and to comply with Bay Area Air Quality Management District (BAAQMD) permit requirements. During most visits, ASE personnel completes the following:

- Record the vacuum influence of the vapor-extraction system,
- Measure and record the influent vapor concentration of each individual vapor-extraction well with ASE's photoionization detector (PID),
- Measure with ASE's PID and record the influent vapor concentration which provides the total hydrocarbon concentration entering the remediation system. This concentration is less than the sum of the individual vapor-extraction wells due to fresh air that enters the system as a safety mechanism by ASE for the granulated activated carbon canisters (GAC's) installed in November 2012,
- Measure with ASE's PID and record hydrocarbon concentrations in the on and off-site utility boxes and the vapor-monitoring points to ensure that hydrocarbon vapors are not being forced to the atmosphere due to the sparging activities,
- Record alarms and information on the sparging remediation equipment,
- Inspect site security fencing.

## **3.0 REMEDIATION SYSTEMS OPERATION**

### **3.1 Ozone-Sparging Remediation System Operation**

Between January and April 2013, the ozone-sparging remediation equipment operated in "low-flow ozone" mode into each of the ten sparging wells that are located on and off-site (Figure 2). Beginning in May 2013, the ozone-sparging remediation equipment operated in "high-flow ozone" mode into each of the ten sparging wells that are located on and off-site (see the attached Ozone Sparging Log). The difference between the two modes are a greater operating pressure and greater airflow (in cfm) in the high-flow mode. The change from "low-flow ozone" to "high-flow ozone" was made due to the elimination of free-phase hydrocarbons at the site. Downtime for the ozone-sparging system only occurred for maintenance purposes and an occasional power failure at the site.

### **3.2 Vapor-Extraction Remediation System Operation**

Since January 2013, the ASE vapor-extraction system has operated continuously. The ASE fixed vapor-extraction system consists of a 100 cfm Rotron blower piped to a moisture knock-out drum. The negative-pressure side of the ASE vapor-extraction system is plumbed to the manifold of vapor-extraction wells. The positive-pressure side of the ASE vapor-extraction system is plumbed to two 200 pound GAC



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canisters filled with virgin, vapor-phase GAC supplied to ASE by Baker Corporation. These GAC canisters are plumbed in series, and are approved for used by Bay Area Air Quality Management District (BAAQMD) Permit To Operate - Plant Number 18100. The ASE vapor-extraction system, plumbed to two 200 pound GAC canisters (ASE VE System), became fully operational on November 12, 2012.

All existing vapor-extraction wells (VE-1 through VE-9) and monitoring wells that were fitted with vapor-extraction plumbing (MW-3 and MW-4R) have been used for vapor-extraction in various percentages of open mode. For the most part, wells with consistent measureable hydrocarbons, using the PID, are in 50% - 100% open mode, with the remainder of the wells in a 15% - 25% open mode to allow for air movement through the entire vadose zone. As shown on the attached Vapor-Extraction System Log, the influent vapor concentrations, when measured using ASE's PID, have been on a slight gradual increasing trend for the overall influent as well as several vapor-extraction wells (VE-2 through VE-5 and MW-3), see the attached Vapor-Extraction System Log. ASE believes this is in part due to the high-flow ozone-sparging that is now occurring at the site. In all likelihood, the greater air-flow volume and pressure is causing a greater amount of hydrocarbons to be sparged off of the polluted groundwater. Note that the total influent concentration measured just prior to the GAC canisters is far less than the sum of the individual vapor-extraction wells. This is due to fresh air that enters the system as a safety mechanism by ASE. The BAAQMD permit requires ASE to measure the influent and effluent on a weekly basis to determine when breakthrough of hydrocarbons occurs on the first and second GAC canisters.

### *3.21 Periodic Influent Vapor Sampling*

Since January 2013, ASE has collected two influent vapor samples, both on August 8, 2013, to determine petroleum hydrocarbon concentrations in the extracted subsurface air.

- The first sample, collected on August 8, 2013, is an influent vapor sample collected from a sample port on the negative side of the blower, and consisted of soil vapors being extracted from only vapor-extraction well MW-3. This sample (sample Id. INF-8.8.13 @ 1230) was collected to determine the worst-case scenario of vapors beneath the subject site. All other VE wells were 0% open for a brief time while the sample was being collected. Also, this sample was taken at the wellhead, and prior to the dilution air valve that brings fresh-air into the ASE VE System. Once this sample was collected, the remaining VE wells were opened back to their pre-sample position.
- The second sample, collected on August 8, 2013, is an influent vapor sample collected from a sample port on the negative side of the blower (on the VE subsurface piping manifold and before the fresh-air dilution point) and consisted of soil vapors being extracted from all the vapor-extraction wells on-site and off-site (VE-1 through VE-9) and monitoring wells MW-3 and MW-4R. This sample (sample Id. INF-8.8.13 @ 1245) was used to calculate the pounds of hydrocarbons removed from the site during the consistent operating parameters of the VE system.

The samples were collected in new 1-liter Tedlar bags, labeled individually, and submitted to McCampbell Analytical of Pittsburg, California under chain of custody procedures. These samples were analyzed by McCampbell for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 8015, and MTBE, benzene, toluene, ethylbenzene, and xylenes (collectively known as MBTEX) by EPA Method 8021. The analytical results are summarized below, and copies of the certified analytical reports from McCampbell are attached in Appendix A.



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- The INF-8.8.13 @ 1230 influent vapor sample contained 20,000 ug/L TPH-G, 250 ug/L benzene, 340 ug/L toluene, 12 ug/L ethylbenzene, 480 ug/L xylenes, and < 350 ug/L MTBE.
- The INF-8.8.13 @ 1245 influent vapor sample contained 1,400 ug/L TPH-G, 12 ug/L benzene, 23 ug/L toluene, 1.3 ug/L ethylbenzene, 47 ug/L xylenes, and < 15 ug/L MTBE.

The influent vapor sample collected when only MW-3 was open is very similar to the January 2013 air bag sample. However, the influent vapor sample collected during typical operating parameters is one order of magnitude higher for TPH-G, and two orders of magnitude higher for benzene when compared to the January 2013 results. This indicates that there still exists moderate levels of hydrocarbons within the vadose zone that require continued removal with the VE system. The higher concentrations are likely related to additional sparging volumes since the system was switched from low-flow to high-flow.

*ASE plans to continue operation of the ASE VE System to (a) reduce the elevated concentration of hydrocarbons identified in well MW-3, (b) continue to alleviate the potential for build-up of vapors due to sparging beneath the off-site properties, and (c) to stimulate air-flow through the polluted zone for assistance in bio-remediation.*

### 3.22 *Estimated TPH-G Extracted from Vadose Zone*

Using an average of the analytical results of the influent vapor samples collected on January 29, 2013, and August 8, 2013 (the 1245 air bag sample representing typical operating parameters), ASE has calculated the volume of gasoline, in gallons, extracted from the subsurface both on and off-site. As shown on the attached Gasoline Extraction Log, and associated Mass Extraction Calculations, ASE estimates that 90.72 gallons of gasoline, in vapor phase, have been removed from the subsurface vadose zone between the time of January 2013 and August 2013. *This volume is over 9-times greater than in the previous period (which was 10.15 gallons).* Since start-up of the VE System, ASE estimates that 915.33 gallons of gasoline, in vapor phase, have been removed from the subsurface vadose zone. These calculations used a typical operating flowrate of 50 cfm (based on the blower curve supplied with the regenerative blower), and used actual days of operation of the system. An average of the two sample concentrations was calculated and used as the daily concentration for calculating the total hydrocarbons removed for the period. For months of operation where actual air bag samples were not collected, ASE estimated the gallons extracted per day by using the actual air bag analytical results of the samples collected prior to and after the months without data, and finding the average between these months. See Appendix B for a copy of the Gasoline Extraction Log.

## **4.0 REMEDIATION SYSTEMS AND SITE MONITORING**

### 4.1 Remediation Equipment Operating Parameters

ASE visits the site on a regular basis to confirm that the remediation equipment, both sparging and vapor-extraction, are working as designed. As the attached Vapor-Extraction Equipment Log shows, ASE logged/measured the system's operating flow in cfm, the overall influent vapor concentration (using a PID), and the individual well influent vapor concentrations. As the attached Sparging Well Log shows, ASE logged the operating parameters of each sparging well, showing the duration and injection media low or high-flow air/ozone). See Appendix B for copies of the Sparging Well Log and Vapor-Extraction System Log.



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## 4.2 Hydrocarbon Vapor Readings from Utility and Well Boxes Using PID

ASE measured for hydrocarbon vapors in the VMP's, remediation well boxes, and sidewalk utility boxes across 8<sup>th</sup> Street using a PID multiple times per month in an effort to determine if stripped hydrocarbons were being forced to the atmosphere by operation of the sparging wells. As shown on the attached Hydrocarbon Vapor Measurement Log, PID readings have always been "0" ppmv since the start-up of the vapor-extraction remediation system. ASE also measured for hydrocarbons in the utility boxes in the sidewalk in front of the subject site and within the well boxes and underground piping manifold box on site. Again, at no time were any PID readings above "0" observed in any sampling point. See Appendix B for a copy of the Hydrocarbon Vapor Measurement Log.

## **5.0 GROUNDWATER MONITORING WELL SAMPLE COLLECTION**

### 5.1 Water levels, Free-Product Thickness, and Flow Direction

On June 18, 2013, ASE measured the depth to water in monitoring wells MW-1 and MW-2 and MW-5 through MW-8 using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen. Free-floating hydrocarbon measurements were taken on vapor-extraction wells MW-3 and MW-4R using an interface probe due to the occasional historic presence of free-floating hydrocarbons. No free floating hydrocarbons were present in any of the wells this sampling period. Groundwater elevation data is presented in Table One.

A groundwater elevation (potentiometric surface) contour map is shown as Figure 3. The groundwater flow direction at the site is generally to the south with an approximate gradient of 0.01 feet/foot during this sampling period. The gradient and flow direction are generally consistent with previous findings.

### 5.2 Groundwater Sample Collection

On June 18, 2013, ASE collected groundwater samples from all monitoring wells for analysis. Prior to sampling, the wells were purged of three well casing volumes of groundwater using disposable polyethylene bailers. The pH, temperature and conductivity of the purge water were monitored during evacuation, and samples were not collected until these parameters stabilized. Samples were collected from each well using disposable polyethylene bailers. The groundwater samples were decanted from the bottom of the bailers using low-flow emptying devices into 40-ml volatile organic analysis (VOA) vials, preserved with hydrochloric acid, sealed without headspace and labeled. All samples were stored on ice for transport to Kiff Analytical, LLC, (KIFF) of Davis, California under appropriate chain of custody documentation. Well sampling purge water was contained in a sealed and labeled 55-gallon steel drum for temporary storage until off-site disposal can be arranged. See Appendix C for copies of the well sampling field logs.

### 5.3 Analytical Results for Groundwater Samples

All groundwater samples were analyzed by KIFF for TPH-G, benzene, toluene, ethylbenzene, total xylenes (collectively known as BTEX), fuel oxygenates including methyl tertiary butyl ether (MTBE), and lead scavengers by EPA Method 8260B, and total petroleum hydrocarbons as diesel (TPH-D) by modified EPA Method 8015. The analytical results are tabulated in Table Two, and copies of the certified





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analytical report and chain of custody form are included in Appendix D. The groundwater analytical results are summarized below:

- Groundwater samples collected from monitoring well MW-1 contained 370 parts per billion (ppb) TPH-G, 84 ppb TPH-D, 1.5 ppb benzene, and 0.52 ppb diisopropyl ether (DIPE). These concentrations are very similar to the previous sampling event and significantly lower than concentrations from one year ago in June 2012.
- Groundwater samples collected from monitoring well MW-2 contained 5,300 ppb TPH-G, 88 ppb total petroleum hydrocarbons as diesel (TPH-D), 2,400 ppb benzene, 7.8 ppb toluene, 80 ppb ethylbenzene, 31 ppb xylenes, 7.8 ppb DIPE, and 17 ppb TBA. Hydrocarbon concentrations in groundwater samples collected from monitoring well MW-2 increased noticeable from the two previous sampling events in 2012, but continue to represent a significant decrease of up to several orders of magnitude from pre-remediation conditions.
- Groundwater samples collected from monitoring well MW-3 did not contain a measurable thickness of free-floating hydrocarbons, nor were free-phase hydrocarbons visible when a bailer was retrieved from the well. The samples collected from MW-3 contained 100,000 ppb TPH-G, 220,000 ppb TPH-D, 6,700 ppb benzene, 7,900 ppb toluene, 2,000 ppb ethylbenzene, and 15,000 ppb xylenes. Although these concentrations are still very high, the fact that free-phase hydrocarbons were not present for a second consecutive sampling event is a positive indicator of the remediation effectiveness.
- Groundwater samples collected from monitoring well MW-4R contained 3,800 ppb TPH-G, 110 ppb TPH-D, 37 ppb benzene, 33 ppb toluene, 10 ppb ethylbenzene, 400 ppb xylenes, 1.5 ppb MTBE, 2.5 ppb DIPE, and 120 ppb TBA. These concentrations are similar to the previous sampling event and continue to represent a significant decrease of up to several orders of magnitude from pre-remediation conditions. The toluene and total xylenes concentrations decreased to a historic low.
- No hydrocarbons or oxygenates were detected in groundwater samples collected from monitoring well MW-5. These concentrations represent a decrease since the previous sampling event.
- No hydrocarbons or oxygenates were detected in groundwater samples collected from monitoring well MW-6.
- Groundwater samples collected from monitoring well MW-7 contained 6,000 ppb TPH-G, 250 ppb TPH-D, 19 ppb benzene, 22 ppb toluene, 310 ppb ethylbenzene, 390 ppb xylenes, and 6.3 ppb TBA. These concentrations represent a significant decrease from the previous sampling event with most compounds at or near historic lows.
- No hydrocarbons or oxygenates were detected in groundwater samples collected from monitoring well MW-8 other than 83 ppb TPH-D. These results continue to indicate that no significant hydrocarbon concentrations exist in the deeper water-bearing zones.

Concentrations in groundwater samples collected from the following wells exceeded Environmental Screening Levels (ESLs) for drinking water as presented in the "Screening For Environmental Concerns



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at Sites With Contaminated Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region dated May 2008:

Concentrations of TPH-G, benzene, toluene, ethylbenzene, and xylenes in groundwater samples collected from monitoring wells MW-2, MW-3, MW-4R, and MW-7 exceeded ESLs.

Concentrations of TPH-G and benzene in groundwater samples collected from monitoring well MW-1, MW-2, and MW-5 exceeded the ESLs.

Current groundwater concentrations are trending lower than in previous sampling events; this is obviously do to the ongoing soil-vapor and groundwater remediation activities. ASE believes that continuation of the remediation systems will have an even greater affect on decreasing the hydrocarbon concentrations in groundwater over the next 12 months.

## **6.0 DISCUSSION OF COST**

The cost for operation of the ozone-sparging and vapor-extraction systems is the largest portion of the annual operating budget set for this site by the USTCF. Typically, continued operation of such remediation systems is based on multiple factors – one being the cost for operation. At the point where diminishing returns are achieved (cost outweighed by remedial effect on the subsurface soil and groundwater), operation of remediation equipment is typically suspended for a period of time to see if a rebounding effect will occur.

- Based on hydrocarbon concentrations in groundwater, it appears that the remedial effect has eliminated free-phase hydrocarbons in wells MW-3 and MW-4R, and total hydrocarbon concentrations on the remaining monitoring wells are showing a decreasing trend due to the ozone-sparging.
- Based on the rising hydrocarbon concentrations in the vadose-zone, it appears that the remedial effect continues to remove hydrocarbons in both soil and groundwater that are being stripped by ozone-sparging.

It is the opinion of ASE that the data within this report supports the continued operation of both the ozone-sparging and vapor-extraction systems until the end of the 2013 fiscal year or until diminishing returns appears to have been achieved. ASE believes that at that time, it may be prudent to shut off the VE system for a period of time to determine if the build-up of stripped hydrocarbons from the groundwater no longer have an effect on the businesses above and adjacent to the plume. If that is found to be true, ASE will recommend shutting off the ASE VE system for a period of time to determine if a rebounding effect occurs.

## **7.0 COMPARISON TO LOW-THREAT CLOSURE POLICY CRITERIA**

A full evaluation on how the current site conditions compare to the California Regional Water Quality Control Board Low-Threat Closure Policy has not been made; however, based on recent groundwater sample analysis data, it is clear that the site does not meet the criteria at this time. In particular, the benzene concentration of 6,700 ppb in groundwater samples collected recently from monitoring well



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MW-3 is over twice what the low-threat closure policy allows for sites with a groundwater plume over 100-feet in length without land use conditions.

## **8.0 RECOMMENDATIONS**

Based on the findings and the details reported within, ASE recommends the following:

Continued operation of the remediation systems at the site. Re-evaluate the need for vapor-extraction remediation in 6 months. Maintain the current remediation system's operating parameters, adjusting the VE wells as necessary based on periodic influent air sampling with the ASE PID. Collect groundwater samples from monitoring wells MW-1 through MW-5 and MW-7 in December 2013. ASE recommends removing monitoring wells MW-6 and MW-8 from the monitoring program since neither has contained a hydrocarbon concentration exceeding an ESL for at least 5 years. Prepare a Remediation Effectiveness and Groundwater Results report within the first quarter of 2014.



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## 9.0 SIGNATURES

Should you require any additional information, please feel free to contact us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

A handwritten signature in black ink that reads "David Allen".

David Allen  
Vice President



A handwritten signature in black ink that reads "Robert E. Kitay".

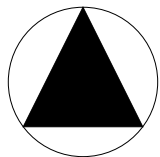
Robert Kitay, P.G.  
Senior Geologist

Cc: Mr. Jerry Wickhman, ACHCSA, electronically  
Mr. Russ Lim, responsible party representative, electronically  
RWQCB Geotracker Database, electronically



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## **FIGURES**



NORTH

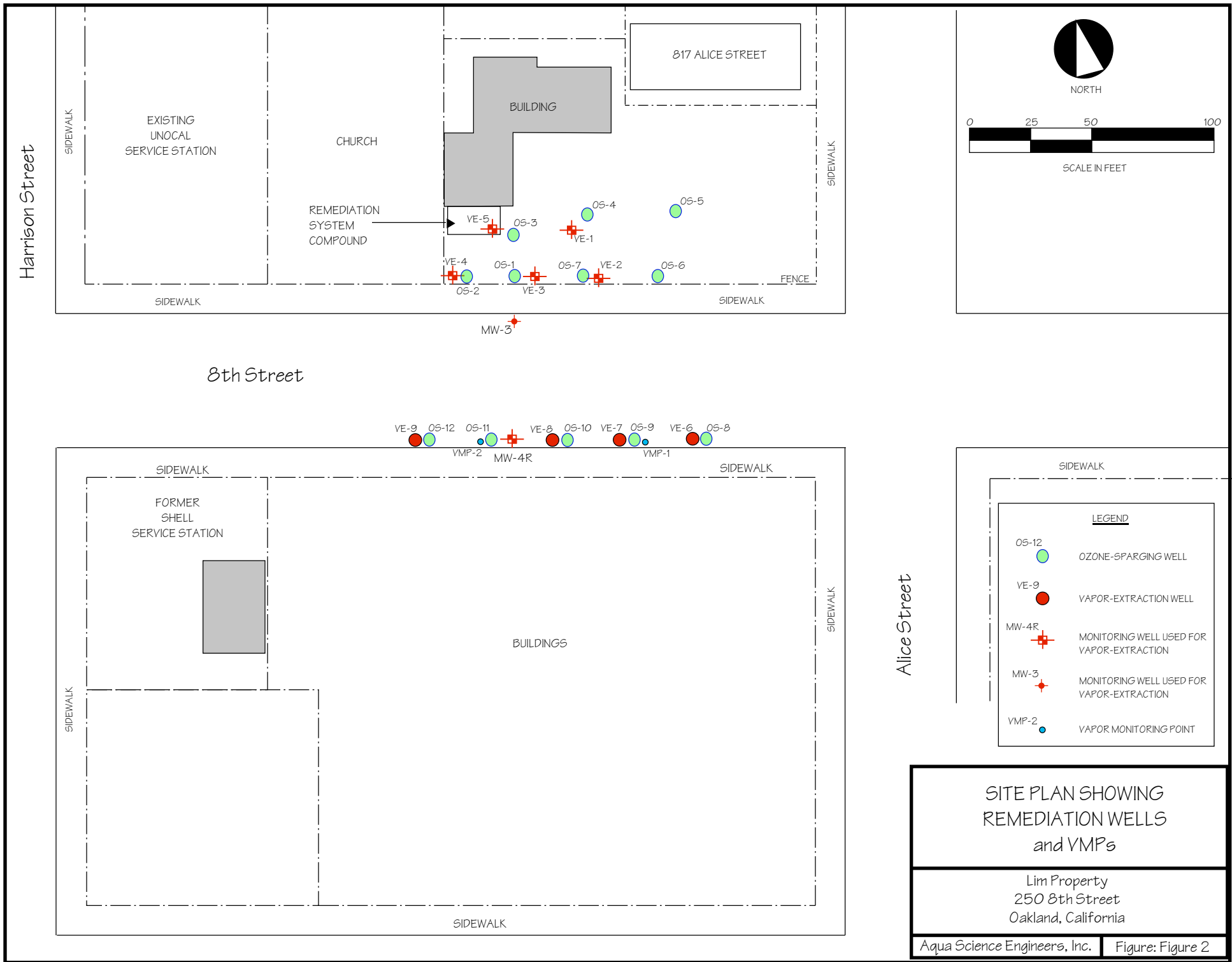
NOT TO SCALE

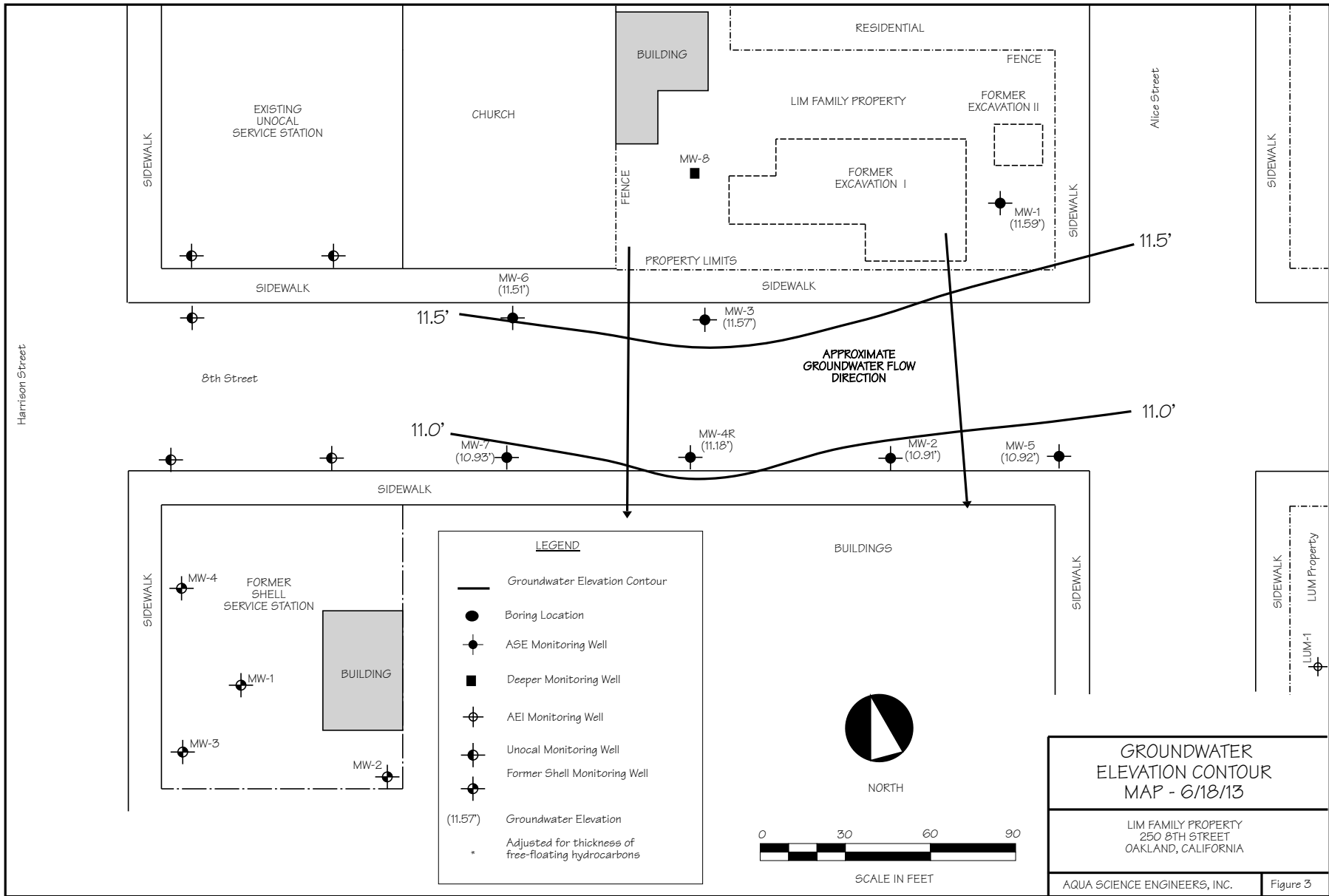
## SITE LOCATION MAP

Lim Family Property  
250 8th Street  
Oakland, California

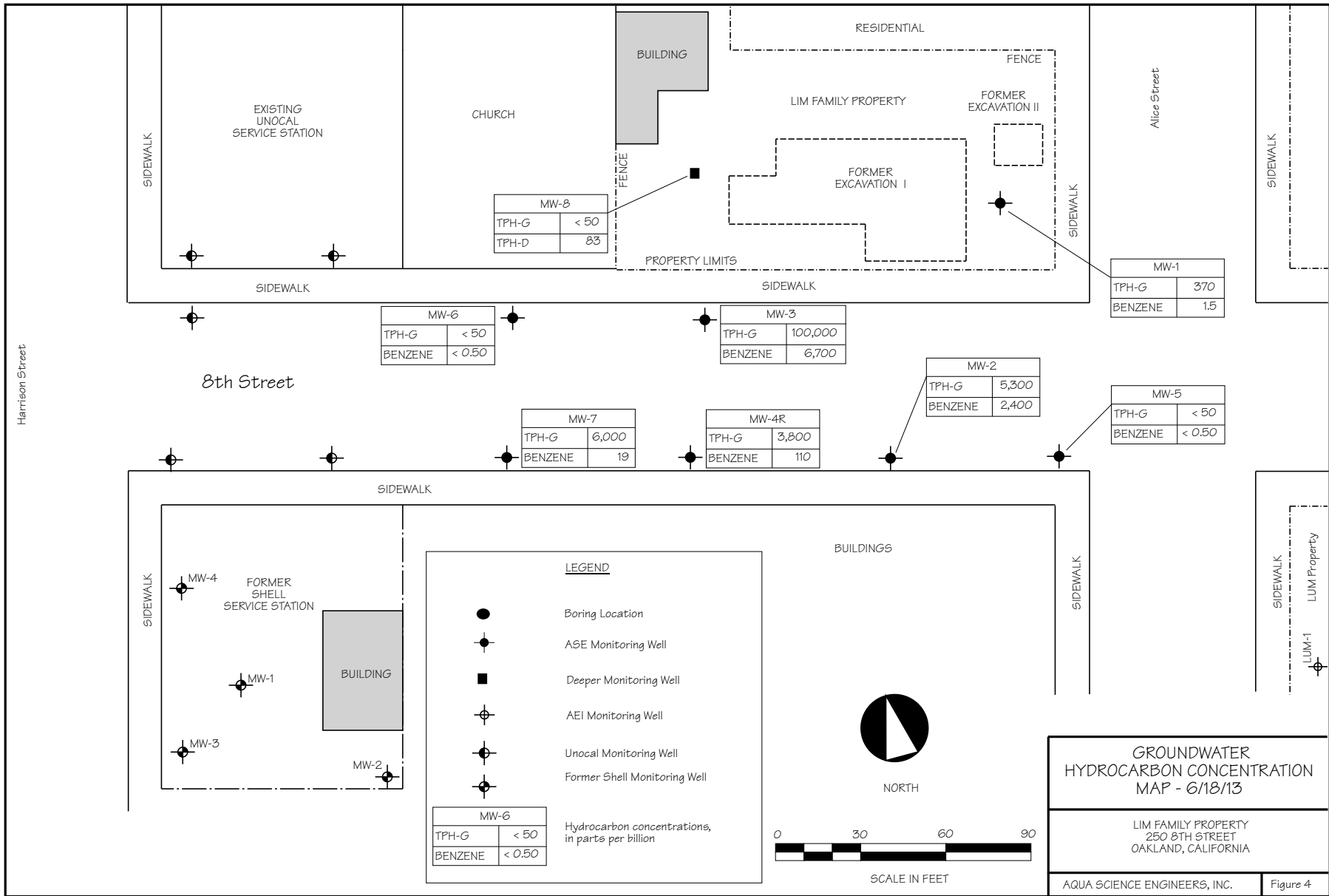
Aqua Science Engineers

Figure 1











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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 Casing Elevation (msl) | Depth to Water (feet) | Product Thickness (feet) | Groundwater Elevation (msl) |
|-----------------|---------------------|-------------------------------|-----------------------|--------------------------|-----------------------------|
| <b>MW-1</b>     | 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                 |                          |                             |
| 05/02/07        | 16.92               |                               | 12.80                 |                          |                             |
| 08/09/07        | 17.58               |                               | 12.14                 |                          |                             |
| 12/06/07        | 18.60               |                               | 11.12                 |                          |                             |
| 02/26/08        | 17.13               |                               | 12.59                 |                          |                             |
| 05/30/08        | 18.17               |                               | 11.55                 |                          |                             |
| 08/28/08        | 18.47               |                               | 11.25                 |                          |                             |
| 12/11/08        | 19.19               |                               | 10.53                 |                          |                             |
| 03/31/09        | 17.59               |                               | 12.13                 |                          |                             |
| 12/31/09        | 18.57               |                               | 11.15                 |                          |                             |
| 06/03/10        | 16.94               |                               | 12.78                 |                          |                             |
| 12/20/10        | 18.21               |                               | 11.51                 |                          |                             |
| 06/30/11        | 17.43               |                               | 12.29                 |                          |                             |
| 06/22/12        | 17.08               |                               | 12.64                 |                          |                             |
| 12/13/12        | 17.32               |                               | 12.40                 |                          |                             |
| <b>06/18/13</b> |                     | <b>18.13</b>                  |                       | <b>11.59</b>             |                             |

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

| Well I.D.       | Date of Measurement | Top of Casing Elevation (msl) | Depth to Water (feet) | Product Thickness (feet) | Groundwater Elevation (msl) |
|-----------------|---------------------|-------------------------------|-----------------------|--------------------------|-----------------------------|
| <b>MW-2</b>     | 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                    |                             |
|                 | 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                 |                          |                             |
| 05/02/07        | 16.12               |                               | 12.07                 |                          |                             |
| 08/09/07        | 16.85               |                               | 11.34                 |                          |                             |
| 12/06/07        | 17.95               |                               | 10.24                 |                          |                             |
| 02/26/08        | 16.15               |                               | 12.04                 |                          |                             |
| 05/30/08        | 17.33               |                               | 10.86                 |                          |                             |
| 08/28/08        | 17.53               |                               | 10.66                 |                          |                             |
| 12/11/08        | 18.28               |                               | 9.91                  |                          |                             |
| 03/31/09        | 16.63               |                               | 11.56                 |                          |                             |
| 12/31/09        | 17.46               |                               | 10.73                 |                          |                             |
| 06/03/10        | 16.00               |                               | 12.19                 |                          |                             |
| 12/20/10        | 17.25               |                               | 10.94                 |                          |                             |
| 06/30/11        | 16.55               |                               | 11.64                 |                          |                             |
| 06/22/12        | 16.36               |                               | 11.83                 |                          |                             |
| 12/13/12        | 16.24               |                               | 11.95                 |                          |                             |
| <b>06/18/13</b> |                     | <b>17.28</b>                  |                       | <b>10.91</b>             |                             |

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

| Well I.D.       | Date of Measurement | Top of Casing Elevation (msl) | Depth to Water (feet) | Product Thickness (feet) | Groundwater Elevation (msl) |        |
|-----------------|---------------------|-------------------------------|-----------------------|--------------------------|-----------------------------|--------|
| <b>MW-3</b>     | 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*                   |                             |        |
|                 | 05/02/07            | 15.11                         | 0.09                  | 13.54*                   |                             |        |
| 08/09/07        | 15.83               | 0.09                          | 12.82*                |                          |                             |        |
| 12/06/07        | 18.10               | 0.50                          | 10.88*                |                          |                             |        |
| 02/26/08        | 16.47               | 0.22                          | 12.29*                |                          |                             |        |
| 05/30/08        | 17.90               | 0.70                          | 11.24*                |                          |                             |        |
| 08/28/08        | 18.05               | 0.54                          | 10.96*                |                          |                             |        |
| 12/11/08        | 18.57               | 0.46                          | 10.38*                |                          |                             |        |
| 03/31/09        | 16.89               | 0.23                          | 11.87*                |                          |                             |        |
| 12/31/09        | 17.64               | sheen                         | 10.94*                |                          |                             |        |
| 06/03/10        | 16.58               | 0.56                          | 12.45*                |                          |                             |        |
| 12/20/10        | 17.20               | 0.45                          | 11.74*                |                          |                             |        |
| 06/30/11        | 15.92               |                               | 12.66                 |                          |                             |        |
| 06/22/12        | 16.64               | 0.69                          | 12.48*                |                          |                             |        |
| 12/13/12        | 16.24               | None                          | 12.34                 |                          |                             |        |
| <b>06/18/13</b> |                     |                               | <b>17.01</b>          |                          | <b>11.57</b>                |        |

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

| Well I.D.    | Date of Measurement | Top of Casing Elevation (msl) | Depth to Water (feet) | Product Thickness (feet) | Groundwater Elevation (msl) |       |
|--------------|---------------------|-------------------------------|-----------------------|--------------------------|-----------------------------|-------|
| <b>MW-4</b>  | 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                    |                             |       |
|              | 05/02/07            | 16.51                         |                       | 12.10                    |                             |       |
|              | 08/09/07            | 17.17                         |                       | 11.44                    |                             |       |
| 12/06/07     | 18.08               |                               | 10.53                 |                          |                             |       |
| 02/26/08     | 16.57               |                               | 12.04                 |                          |                             |       |
| 05/30/08     | 17.66               |                               | 10.95                 |                          |                             |       |
| 08/28/08     | 17.98               |                               | 10.63                 |                          |                             |       |
| 12/11/08     | 18.61               |                               | 10.00                 |                          |                             |       |
| 03/31/09     | 18.75               |                               | 2.00                  | 11.46*                   |                             |       |
| <b>MW-4R</b> | 12/31/09            | 28.78                         | 19.85                 | 2.30                     | 10.77*                      |       |
|              | 06/03/10            |                               | 18.67                 | 2.57                     | 12.17*                      |       |
|              | 12/20/10            |                               | 18.95                 | 2.00                     | 11.43*                      |       |
|              | 06/30/11            |                               | 16.45                 |                          | 12.33                       |       |
|              | 06/22/12            |                               | 16.69                 |                          | 12.09                       |       |
|              | 12/13/12            |                               | 16.61                 |                          | 12.17                       |       |
|              | <b>06/18/13</b>     |                               | <b>17.60</b>          |                          | <b>11.18</b>                |       |

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

| Well I.D.       | Date<br>of<br>Measurement | Top of Casing<br>Elevation<br>(msl) | Depth to<br>Water<br>(feet) | Product<br>Thickness<br>(feet) | Groundwater<br>Elevation<br>(msl) |
|-----------------|---------------------------|-------------------------------------|-----------------------------|--------------------------------|-----------------------------------|
| <b>MW-5</b>     | 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                             |
|                 | 05/02/07                  |                                     | 16.21                       |                                | 12.19                             |
|                 | 08/09/07                  |                                     | 16.97                       |                                | 11.43                             |
|                 | 12/06/07                  |                                     | 18.35                       |                                | 10.05                             |
|                 | 02/26/08                  |                                     | 16.35                       |                                | 12.05                             |
|                 | 05/30/08                  |                                     | 17.62                       |                                | 10.78                             |
|                 | 08/28/08                  |                                     | 17.72                       |                                | 10.68                             |
|                 | 12/11/08                  |                                     | 18.62                       |                                | 9.78                              |
|                 | 03/31/09                  |                                     | 16.94                       |                                | 11.46                             |
|                 | 12/31/09                  |                                     | 17.73                       |                                | 10.67                             |
|                 | 06/03/10                  |                                     | 16.20                       |                                | 12.20                             |
| 12/20/10        | 17.72                     |                                     | 10.68                       |                                |                                   |
| 06/30/11        | 16.75                     |                                     | 11.65                       |                                |                                   |
| 06/22/12        | 16.41                     |                                     | 11.99                       |                                |                                   |
| 12/13/12        | 16.46                     |                                     | 11.94                       |                                |                                   |
| <b>06/18/13</b> |                           |                                     | <b>17.48</b>                | <b>10.92</b>                   |                                   |

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

| Well I.D.       | Date of Measurement | Top of Casing Elevation (msl) | Depth to Water (feet)              | Product Thickness (feet) | Groundwater Elevation (msl) |  |
|-----------------|---------------------|-------------------------------|------------------------------------|--------------------------|-----------------------------|--|
| <b>MW-6</b>     | 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                       |  |
|                 | 05/02/07            |                               | 16.57                              |                          | 12.63                       |  |
|                 | 08/09/07            |                               | 17.19                              |                          | 12.01                       |  |
|                 | 12/06/07            |                               | 17.95                              |                          | 11.25                       |  |
|                 | 02/26/08            |                               | 16.66                              |                          | 12.54                       |  |
|                 | 05/30/08            |                               | 17.64                              |                          | 11.56                       |  |
|                 | 08/28/08            |                               | 18.03                              |                          | 11.17                       |  |
|                 | 12/11/08            |                               | 18.54                              |                          | 10.66                       |  |
|                 | 03/31/09            |                               | 17.10                              |                          | 12.10                       |  |
|                 | 12/31/09            |                               | 18.00                              |                          | 11.20                       |  |
|                 | 06/03/10            |                               | 16.58                              |                          | 12.62                       |  |
|                 | 12/20/10            |                               | 17.40                              |                          | 11.80                       |  |
|                 | 06/30/11            |                               | 17.02                              |                          | 12.18                       |  |
| 06/22/12        | 16.70               |                               | 12.50                              |                          |                             |  |
| 12/13/12        | 16.77               |                               | 12.43                              |                          |                             |  |
| <b>06/18/13</b> | <b>17.69</b>        |                               | <b>11.51</b>                       |                          |                             |  |



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

| Well I.D.   | Date of Measurement | Top of Casing Elevation (msl) | Depth to Water (feet)               | Product Thickness (feet) | Groundwater Elevation (msl) |       |             |
|-------------|---------------------|-------------------------------|-------------------------------------|--------------------------|-----------------------------|-------|-------------|
| <b>MW-7</b> | 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 |             |
|             | 05/02/07            |                               |                                     | 16.93                    |                             | 12.02 |             |
|             | 08/09/07            |                               |                                     | 17.56                    |                             | 11.39 |             |
|             | 12/06/07            |                               |                                     | 18.32                    |                             | 10.63 |             |
|             | 02/26/08            |                               |                                     | 16.93                    |                             | 12.02 |             |
|             | 05/30/08            |                               |                                     | 17.97                    |                             | 10.98 |             |
|             | 08/28/08            |                               |                                     | 18.33                    |                             | 10.62 |             |
|             | 12/11/08            |                               |                                     | 18.86                    |                             | 10.09 |             |
| 03/31/09    |                     | 17.37                         |                                     | 11.58                    |                             |       |             |
| 12/31/09    |                     | 18.26                         |                                     | 10.69                    |                             |       |             |
| 06/03/10    |                     | 16.86                         |                                     | 12.09                    |                             |       |             |
| 12/20/10    |                     | 17.70                         |                                     | 11.25                    |                             |       |             |
| 06/30/11    |                     | 17.36                         |                                     | 11.59                    |                             |       |             |
| 06/22/12    |                     | 17.03                         |                                     | 11.92                    |                             |       |             |
| 12/13/12    |                     | 17.01                         |                                     | 11.94                    |                             |       |             |
|             | <b>06/18/13</b>     |                               | <b>18.02</b>                        |                          | <b>10.93</b>                |       |             |
| <b>MW-8</b> | 02/26/08            | 30.14                         | 21.50                               |                          | 8.64                        |       |             |
|             | 05/30/08            |                               | 22.52                               |                          | 7.62                        |       |             |
|             | 08/28/08            |                               | 23.27                               |                          | 6.87                        |       |             |
|             | 12/11/08            |                               | 23.15                               |                          | 6.99                        |       |             |
|             | 03/31/09            |                               | 21.46                               |                          | 8.68                        |       |             |
|             | 12/31/09            |                               | 22.75                               |                          | 7.39                        |       |             |
|             | 06/03/10            |                               | 21.06                               |                          | 9.08                        |       |             |
|             | 12/20/10            |                               | 22.18                               |                          | 7.96                        |       |             |
|             | 06/30/11            |                               | 21.95                               |                          | 8.19                        |       |             |
|             | 06/22/12            |                               | 21.23                               |                          | 8.91                        |       |             |
|             | 12/13/12            |                               | 21.89                               |                          | 8.25                        |       |             |
|             |                     |                               | <b>06/18/13</b>                     |                          | <b>22.44</b>                |       | <b>7.70</b> |

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/<br>Date<br>Sampled | TPH<br>Gasoline | TPH<br>Diesel | Benzene    | Toluene         | Ethyl-<br>benzene | Total<br>Xylenes | MTBE            | DIFE        | TBA            | Other<br>Oxys   | EDC             | EDB             |
|--------------------------|-----------------|---------------|------------|-----------------|-------------------|------------------|-----------------|-------------|----------------|-----------------|-----------------|-----------------|
| <b>MW-1</b>              |                 |               |            |                 |                   |                  |                 |             |                |                 |                 |                 |
| 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            | ---         | ---            | ---             | <0.5            | <0.5            |
| 01/26/98                 | <50             | <50           | <0.5       | <0.5            | <0.5              | <0.5             | <5.0            | ---         | ---            | ---             | <0.5            | <0.5            |
| 07/23/98                 | 190             | <50           | 0.54       | 2.8             | 2                 | 1.8              | <5.0            | ---         | ---            | ---             | <2              | <2              |
| 01/05/99                 | 200             | <50           | 1.8        | 1.6             | 3.3               | <0.5             | <5.0            | ---         | ---            | ---             | <0.5            | <0.5            |
| 07/13/99                 | 340             | <50           | <0.5       | <0.5            | 2.6               | <0.5             | <5.0            | ---         | ---            | ---             | <0.5            | <0.5            |
| 01/12/00                 | 300             | 1,000         | 22         | 36              | 5.5               | 24               | <5.0            | ---         | ---            | ---             | <0.5            | <0.5            |
| 04/24/00                 | 360             | 280*          | <0.5       | <0.5            | <0.5              | 2.1              | <5.0            | ---         | ---            | ---             | <0.5            | <0.5            |
| 07/20/00                 | 290             | 150*          | 1.8        | <0.5            | <0.5              | <0.5             | <5.0            | ---         | ---            | ---             | <0.5            | <0.5            |
| 10/24/00                 | 170**           | 280*          | <0.5       | <0.5            | <0.5              | <0.5             | <5.0            | ---         | ---            | ---             | <0.5            | <0.5            |
| 01/18/01                 | 170**           | 150*          | <0.5       | <0.5            | <0.5              | 2.1              | <5.0            | ---         | ---            | ---             | <0.5            | <0.5            |
| 04/05/01                 | 350**           | 190*          | <0.5       | <0.5            | <0.5              | <0.5             | <5.0            | ---         | ---            | ---             | <0.5            | <0.5            |
| 07/17/01                 | 310             | 570           | <0.5       | <0.5            | <0.5              | <0.5             | <5.0            | ---         | ---            | ---             | <0.5            | <0.5            |
| 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             | 350           | <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            | ---         | ---            | ---             | <0.5            | <0.5            |
| 12/18/03                 | 150             | 340           | <0.5       | <0.5            | <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            | ---         | ---            | ---             | <0.5            | <0.5            |
| 06/17/04                 | 250             | 490           | <0.5       | <0.5            | <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            | ---         | ---            | ---             | <0.5            | <0.5            |
| 04/28/05                 | 250             | 190           | <0.5       | <0.5            | <0.5              | <0.5             | <0.5            | 0.67        | <0.5           | <0.5            | <0.5            | <0.5            |
| 07/19/05                 | 340             | na            | <0.5       | <0.5            | <0.5              | <0.5             | <0.5            | 0.76        | <5.0           | <0.5            | <0.5            | <0.5            |
| 10/03/05                 | 170             | <100          | <0.5       | <0.5            | <0.5              | <0.5             | <0.5            | <0.50       | <5.0           | <0.5            | <0.5            | <0.5            |
| 12/06/05                 | 140             | 67            | <0.5       | <0.5            | <0.5              | <0.5             | <0.5            | ---         | ---            | ---             | ---             | ---             |
| 03/15/06                 | 170             | <80           | <0.5       | <0.5            | <0.5              | <0.5             | <0.5            | <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            | <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           | <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           | <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           | 1.2         | <5.0           | <0.50           | <0.50           | <0.50           |
| 05/02/07                 | 180             | 140           | <0.50      | <0.50           | <0.50             | <0.50            | <0.50           | 1.3         | <5.0           | <0.50           | <0.50           | <0.50           |
| 08/09/07                 | 130             | 120           | <0.50      | <0.50           | <0.50             | <0.50            | <0.50           | 0.85        | <5.0           | <0.50           | <0.50           | <0.50           |
| 12/06/07                 | 53              | 160           | <0.50      | <0.50           | <0.50             | <0.50            | <0.50           | <5.0        | <5.0           | <0.50           | <0.50           | <0.50           |
| 02/26/08                 | 93              | <50           | <0.50      | <0.50           | <0.50             | <0.50            | <0.50           | 1.1         | <5.0           | <0.50           | <0.50           | <0.50           |
| 05/30/08                 | 200             | 240           | <0.50      | <0.50           | <0.50             | <0.50            | <0.50           | 0.95        | <5.0           | <0.50           | <0.50           | <0.50           |
| 08/28/08                 | 150             | 200           | <0.50      | <0.50           | <0.50             | <0.50            | <0.50           | 1.2         | <5.0           | <0.50           | ---             | ---             |
| 12/11/08                 | 110             | 140           | <0.50      | <0.50           | <0.50             | <0.50            | <0.50           | 0.92        | <5.0           | <0.50           | ---             | ---             |
| 03/31/09                 | 160             | <200          | <0.50      | <0.50           | <0.50             | <0.50            | <0.50           | 1.8         | <5.0           | <0.50           | <0.50           | <0.50           |
| 12/31/09                 | 140             | 200           | <0.50      | <0.50           | <0.50             | <0.50            | <0.50           | 0.84        | <5.0           | <0.50           | <0.50           | <0.50           |
| 06/03/10                 | 300             | 140           | <0.50      | <0.50           | <0.50             | <0.50            | <0.50           | 0.72        | <5.0           | <0.50           | <0.50           | <0.50           |
| 12/20/10                 | 140             | 180           | <0.50      | <0.50           | <0.50             | <0.50            | <0.50           | <0.50       | <5.0           | <0.50           | <0.50           | <0.50           |
| 06/30/11                 | 650             | <200          | 1.9        | <0.50           | <0.50             | <0.50            | <0.50           | 0.78        | <5.0           | <0.50           | <0.50           | <0.50           |
| 06/22/12                 | 750             | <200          | 23         | <0.50           | 1.1               | 2.3              | <0.50           | 0.80        | 12             | <0.50           | <0.50           | <0.50           |
| 12/13/12                 | 180             | 90            | 2.6        | <0.50           | <0.50             | <0.50            | <0.50           | <0.50       | <5.0           | <0.50           | <0.50           | <0.50           |
| <b>06/18/13</b>          | <b>370</b>      | <b>84</b>     | <b>1.5</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b>   | <b>&lt;0.50</b>  | <b>&lt;0.50</b> | <b>0.52</b> | <b>&lt;5.0</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> | <b>&lt;0.50</b> |

TABLE TWO

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

| Well/<br>Date<br>Sampled | TPH<br>Gasoline | TPH<br>Diesel | Benzene      | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | MTBE            | DIFE       | TBA       | Other<br>Oxys   | EDC             | EDB             |
|--------------------------|-----------------|---------------|--------------|------------|-------------------|------------------|-----------------|------------|-----------|-----------------|-----------------|-----------------|
| <u>MW-2</u>              |                 |               |              |            |                   |                  |                 |            |           |                 |                 |                 |
| 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         | ---        | ---       | ---             | < 0.5           | < 0.5           |
| 01/26/98                 | 50,000          | 11,000        | 12,000       | 12,000     | 1,600             | 6,700            | < 250           | ---        | ---       | ---             | 11              | < 0.5           |
| 07/23/98                 | 50,000          | 8,100#        | 11,000       | 8,300      | 1,800             | 7,000            | 1,100           | ---        | ---       | ---             | 9.9             | < 0.5           |
| 01/05/99                 | 50,000          | 7,600#        | 12,000       | 12,000     | 2,300             | 9,600            | 1,300           | ---        | ---       | ---             | < 50            | < 50            |
| 07/13/99                 | 73,000          | 8,500         | 11,000       | 13,000     | 2,200             | 9,800            | < 500           | ---        | ---       | ---             | 7.7             | < 0.5           |
| 01/12/00                 | 63,000          | 11,000        | 10,000       | 12,000     | 1,800             | 7,800            | < 500           | ---        | ---       | ---             | 8.8             | < 1.0           |
| 04/24/00                 | 76,000          | 23,000*       | 7,100        | 14,000     | 2,000             | 9,400            | < 500           | ---        | ---       | ---             | 5.9             | < 5.0           |
| 07/20/00                 | 68,000          | 5,300#        | 11,000       | 14,000     | 2,300             | 11,000           | < 1,000         | ---        | ---       | ---             | 6.7             | < 5.0           |
| 10/24/00                 | 48,000          | 6,400*        | 11,000       | 9,400      | 1,500             | 7,300            | < 500           | ---        | ---       | ---             | < 5.0           | < 5.0           |
| 01/18/01                 | 37,000          | 4,600*        | 6,900        | 5,600      | 1,200             | 5,300            | < 500           | ---        | ---       | ---             | < 5.0           | < 5.0           |
| 04/05/01                 | 59,000          | 4,600*        | 7,100        | 9,800      | 1,600             | 7,600            | < 500           | ---        | ---       | ---             | 4.6             | < 5.0           |
| 07/17/01                 | 90,000          | < 10,000      | 9,200        | 14,000     | 2,700             | 11,000           | < 50            | ---        | ---       | ---             | < 50            | ---             |
| 10/25/01                 | 79,000          | < 3,800       | 9,200        | 14,000     | 2,400             | 11,000           | < 50            | ---        | ---       | ---             | < 50            | < 50            |
| 01/22/02                 | 76,000          | < 2,300       | 7,000        | 13,000     | 2,200             | 9,600            | < 50            | ---        | ---       | ---             | < 50            | < 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            | ---        | ---       | ---             | < 20            | < 20            |
| 12/18/02                 | 46,000          | < 6,000       | 2,900        | 3,000      | 1,800             | 7,600            | 22              | ---        | ---       | ---             | < 10            | < 10            |
| 03/25/03                 | 87,000          | < 8,000       | 7,900        | 9,300      | 2,900             | 12,000           | < 50            | ---        | ---       | ---             | < 50            | < 50            |
| 06/23/03                 | 46,000          | < 3000        | 7,800        | 4,000      | 1,900             | 6,600            | < 50            | ---        | ---       | ---             | < 50            | < 50            |
| 09/26/03                 | 52,000          | < 3000        | 9,100        | 3,500      | 1,300             | 5,000            | < 50            | ---        | ---       | ---             | < 50            | < 50            |
| 12/18/03                 | 61,000          | < 4,000       | 13,000       | 3,500      | 1,600             | 5,600            | < 20            | ---        | ---       | ---             | < 20            | < 20            |
| 03/12/04                 | 53,000          | < 4,000       | 9,100        | 3,500      | 1,700             | 5,700            | < 25            | ---        | ---       | ---             | < 25            | < 25            |
| 06/17/04                 | 59,000          | < 3,000       | 7,100        | 4,000      | 1,700             | 7,300            | < 25            | ---        | ---       | ---             | < 25            | < 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            | ---        | ---       | ---             | < 15            | < 15            |
| 04/28/05                 | 81,000          | < 3,000       | 7,000        | 6,000      | 2,100             | 8,700            | < 15            | 90         | < 15      | < 15            | < 15            | < 15            |
| 07/19/05                 | 59,000          | na            | 7,900        | 4,400      | 1,900             | 7,000            | < 15            | < 15       | 77        | < 15            | < 15            | < 15            |
| 10/03/05                 | 34,000          | < 800         | 7,800        | 810        | 1,000             | 2,800            | < 15            | < 15       | < 70      | < 15            | < 15            | < 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            | < 15       | < 15      | < 15            | < 15            | < 15            |
| 06/28/06                 | 96,000          | < 4,000       | 10,000       | 14,000     | 2,900             | 12,000           | < 15            | < 15       | < 5.0     | < 15            | 33              | < 15            |
| 8/31/06                  | 47,000          | < 3,000       | 5,800        | 5,100      | 2,200             | 8,700            | < 15            | < 15       | 81        | < 15            | < 15            | < 15            |
| 11/21/06                 | 51,000          | < 1,500       | 6,800        | 3,400      | 1,700             | 6,200            | < 15            | < 15       | 82        | < 15            | < 15            | < 15            |
| 02/23/07                 | 38,000          | < 1,500       | 7,800        | 2,000      | 1,500             | 4,600            | < 15            | < 15       | 190       | < 15            | < 15            | < 15            |
| 05/02/07                 | 55,000          | < 3,000       | 6,500        | 5,100      | 2,400             | 8,600            | < 15            | < 15       | 110       | < 15            | < 15            | < 15            |
| 08/09/07                 | 39,000          | < 3,000       | 6,600        | 2,200      | 1,600             | 4,900            | < 15            | < 15       | 81        | < 15            | < 15            | < 15            |
| 12/06/07                 | 20,000          | < 1,500       | 7,400        | 510        | 680               | 1,200            | < 15            | < 15       | 120       | < 15            | < 15            | < 15            |
| 02/26/08                 | 43,000          | < 4,000       | 8,200        | 940        | 1,400             | 3,700            | < 15            | < 15       | 70        | < 15            | < 15            | < 15            |
| 05/30/08                 | 31,000          | < 1,000       | 11,000       | 620        | 1,100             | 2,300            | < 15            | < 15       | 84        | < 15            | < 15            | < 15            |
| 08/28/08                 | 38,000          | < 3,000       | 11,000       | 630        | 1,400             | 3,800            | < 25            | < 25       | < 150     | < 25            | ---             | ---             |
| 12/11/08                 | 32,000          | < 2,000       | 11,000       | 610        | 1,000             | 2,700            | < 25            | < 25       | < 150     | < 25            | ---             | ---             |
| 03/31/09                 | 44,000          | < 4,000       | 6,500        | 3,300      | 1,700             | 5,600            | < 9.0           | < 9.0      | 56        | < 9.0           | < 9.0           | < 9.0           |
| 12/31/09                 | 36,000          | < 4,000       | 9,700        | 350        | 1,600             | 3,800            | < 9.0           | 13         | 56        | < 9.0           | < 9.0           | < 9.0           |
| 06/03/10                 | 53,000          | < 10,000      | 8,600        | 2,600      | 2,500             | 8,000            | < 5.0           | 8.9        | 69        | < 5.0           | < 5.0           | < 5.0           |
| 12/20/10                 | 39,000          | < 4,000       | 13,000       | 530        | 1,600             | 3,600            | < 15            | 21         | < 70      | < 15            | < 15            | < 15            |
| 06/30/11                 | 65,000          | < 6,000       | 7,300        | 5,900      | 2,400             | 10,000           | < 20            | < 20       | < 90      | < 20            | < 20            | < 20            |
| 06/22/12                 | 1,200           | 140           | 50           | 56         | 4.0               | 160              | < 0.50          | 1.6        | 17        | < 0.50          | 1.1             | < 0.50          |
| 12/13/12                 | 2,400           | 66            | 890          | 4.1        | 9.6               | 16               | < 0.50          | 5.4        | 17        | < 0.50          | 1.4             | < 0.50          |
| <b>06/18/13</b>          | <b>5,300</b>    | <b>88</b>     | <b>2,400</b> | <b>7.8</b> | <b>80</b>         | <b>31</b>        | <b>&lt; 1.5</b> | <b>7.8</b> | <b>17</b> | <b>&lt; 1.5</b> | <b>&lt; 1.5</b> | <b>&lt; 1.5</b> |

**TABLE TWO**

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

| Well/<br>Date<br>Sampled | TPH<br>Gasoline   | TPH<br>Diesel  | Benzene      | Toluene      | Ethyl-<br>benzene | Total<br>Xylenes | MTBE           | DIFE           | TBA            | Other<br>Oxys  | EDC            | EDB            |
|--------------------------|---|----------------|--------------|--------------|-------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <u>MW-3</u>              |   |                |              |              |                   |                  |                |                |                |                |                |                |
| 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/      | 52,000/      | 5,700/            | 28,000/          | < 5,000        | ---            | ---            | ---            | ---            | ---            |
|                          |   |                | 35,000       | 87,000       | 18,000            | 84,000           |                |                |                |                |                |                |
| 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             |                |              |              |                   |                  |                |                |                |                |                |                |
| 05/02/07                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |                |              |              |                   |                  |                |                |                |                |                |                |
| 08/09/07                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |                |              |              |                   |                  |                |                |                |                |                |                |
| 12/06/07                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |                |              |              |                   |                  |                |                |                |                |                |                |
| 02/26/08                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |                |              |              |                   |                  |                |                |                |                |                |                |
| 05/30/08                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |                |              |              |                   |                  |                |                |                |                |                |                |
| 08/28/08                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |                |              |              |                   |                  |                |                |                |                |                |                |
| 12/11/08                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |                |              |              |                   |                  |                |                |                |                |                |                |
| 03/31/09                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |                |              |              |                   |                  |                |                |                |                |                |                |
| 12/31/09                 | 60,000  | < 25,000       | 7,500        | 6,500        | 1,000             | 6,600            | < 20           | < 20           | < 90           | < 20           | < 20           | < 20           |
| 06/03/10                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |                |              |              |                   |                  |                |                |                |                |                |                |
| 12/20/10                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |                |              |              |                   |                  |                |                |                |                |                |                |
| 06/30/11                 | 140,000   | < 40,000       | 12,000       | 21,000       | 4,000             | 17,000           | < 20           | < 20           | < 90           | < 20           | < 20           | < 20           |
| 06/22/12                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS (0.69-feet) |                |              |              |                   |                  |                |                |                |                |                |                |
| 12/13/12                 | 99,000  | < 12,000       | 5,800        | 5,800        | 2,100             | 11,000           | < 10           | < 10           | 60             | < 10           | < 10           | < 10           |
| <b>06/18/13</b>          | <b>100,000</b>  | <b>220,000</b> | <b>6,700</b> | <b>7,900</b> | <b>2,000</b>      | <b>15,000</b>    | <b>&lt; 10</b> | <b>&lt; 10</b> | <b>&lt; 50</b> | <b>&lt; 10</b> | <b>&lt; 10</b> | <b>&lt; 10</b> |

TABLE TWO

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

| Well/<br>Date<br>Sampled | TPH<br>Gasoline                               | TPH<br>Diesel | Benzene           | Toluene           | Ethyl-<br>benzene | Total<br>Xylenes  | MTBE       | DIFE       | TBA        | Other<br>Oxys   | EDC        | EDB             |
|--------------------------|---|---------------|-------------------|-------------------|-------------------|-------------------|------------|------------|------------|-----------------|------------|-----------------|
| <b>MW-4</b>              |   |               |                   |                   |                   |                   |            |            |            |                 |            |                 |
| 01/12/00                 | 99,000  | 7,900*        | 16,000            | 20,000            | 2,100             | 12,000            | <2,500     | ---        | ---        | ---             | <50        | <50             |
| 04/24/00                 | 54,000  | 44,000*       | 3,400/<br>4,500   | 13,000/<br>20,000 | 1,800/<br>2,800   | 8,800/<br>14,000  | <1,300     | ---        | ---        | ---             | <250       | <250            |
| 07/20/00                 | 8,000   | 3,500         | 9,200/<br>11,000  | 20,000/<br>22,000 | 2,500/<br>3,400   | 12,000/<br>13,000 | <1,000     | ---        | ---        | ---             | <200       | <200            |
| 10/24/00                 | 98,000  | 8,000*        | 21,000            | 29,000            | 2,700             | 15,000            | <1,000     | ---        | ---        | ---             | <250       | <250            |
| 01/18/01                 | 91,000  | 12,000        | 17,000/<br>15,000 | 21,000/<br>21,000 | 2,500/<br>2,800   | 13,000/<br>11,000 | <1,000     | ---        | ---        | ---             | <250       | <250            |
| 04/05/01                 | 88,000  | 7,500*        | 6,900/<br>3,200   | 18,000/<br>9,000  | 2,500/<br>1,300   | 12,000/<br>6,400  | <1,000     | ---        | ---        | ---             | <50        | <50             |
| 07/17/01                 | 95,000  | <3,000        | 8,000             | 16,000            | 2,900             | 11,000            | 49         | ---        | ---        | ---             | 69         | ---             |
| 10/25/01                 | 89,000  | <2,200        | 9,300             | 18,000            | 2,400             | 12,000            | 66         | ---        | ---        | ---             | 72         | <50             |
| 01/22/02                 | 80,000  | <2,300        | 4,600             | 15,000            | 2,500             | 11,000            | <50        | ---        | ---        | ---             | <50        | <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       | ---        | ---        | ---             | <100       | <100            |
| 09/17/02                 | 110,000                                       | <3,000        | 9,600             | 21,000            | 2,800             | 13,000            | <100       | ---        | ---        | ---             | <100       | <100            |
| 12/18/02                 | 97,000  | <4,000        | 8,000             | 20,000            | 2,600             | 12,000            | <50        | ---        | ---        | ---             | <50        | <50             |
| 03/25/03                 | 97,000  | <7,500        | 7,600             | 22,000            | 2,500             | 12,000            | <100       | ---        | ---        | ---             | <100       | <100            |
| 06/23/03                 | 100,000                                       | <3,000        | 9,600             | 22,000            | 3,300             | 15,000            | <100       | ---        | ---        | ---             | <100       | <100            |
| 09/26/03                 | 110,000                                       | <4,000        | 9,300             | 17,000            | 2,100             | 10,000            | <50        | ---        | ---        | ---             | 87         | <50             |
| 12/18/03                 | 110,000                                       | <2,000        | 8,900             | 19,000            | 2,500             | 12,000            | <25        | ---        | ---        | ---             | 46         | <25             |
| 03/12/04                 | 96,000  | <4,000        | 6,500             | 18,000            | 2,700             | 12,000            | <40        | ---        | ---        | ---             | <40        | <40             |
| 06/17/04                 | 110,000                                       | <4,000        | 10,000            | 20,000            | 2,900             | 13,000            | <50        | ---        | ---        | ---             | 93         | <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        | ---        | ---        | ---             | 53         | <25             |
| 04/28/05                 | 110,000                                       | <3,000        | 7,800             | 14,000            | 2,200             | 10,000            | <25        | <25        | <25        | <25             | 46         | <25             |
| 07/19/05                 | 90,000  | na            | 10,000            | 13,000            | 2,300             | 10,000            | <40        | <20        | <20        | <20             | 73         | <40             |
| 10/03/05                 | 68,000  | <800          | 9,400             | 4,000             | 1,800             | 8,700             | 23         | 23         | <5.0       | <20             | 62         | <20             |
| 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        | <20        | <20        | <20             | <20        | <20             |
| 06/28/06                 | 61,000  | <3,000        | 8,500             | 4,100             | 2,600             | 11,000            | <20        | <20        | <5.0       | <20             | 20         | <20             |
| 08/31/06                 | 68,000  | <2,000        | 9,500             | 9,600             | 2,500             | 12,000            | <20        | <20        | <5.0       | <20             | 36         | <20             |
| 11/21/06                 | 68,000  | <1,500        | 9,000             | 5,000             | 2,000             | 9,300             | <20        | <20        | 230        | <20             | 42         | <20             |
| 02/23/07                 | 90,000  | <2,000        | 11,000            | 11,000            | 2,800             | 12,000            | <20        | <20        | 290        | <20             | 36         | <20             |
| 05/02/07                 | 56,000  | <2,000        | 7,300             | 6,300             | 2,500             | 11,000            | <15        | <15        | 160        | <15             | 20         | <15             |
| 08/09/07                 | 52,000  | <2,000        | 7,600             | 2,600             | 2,100             | 8,400             | <15        | 15         | 170        | <15             | 31         | <15             |
| 12/06/07                 | 60,000  | <2,000        | 13,000            | 2,000             | 2,800             | 11,000            | <15        | 22         | 150        | <15             | <15        | <15             |
| 02/26/08                 | 42,000  | <2,000        | 3,700             | 2,300             | 2,300             | 8,900             | <15        | <15        | 90         | <15             | <15        | <15             |
| 05/30/08                 | 64,000  | <3,000        | 9,200             | 5,100             | 3,000             | 12,000            | <15        | <15        | 83         | <15             | 19         | <15             |
| 08/28/08                 | 73,000  | <5,000        | 9,700             | 5,500             | 3,300             | 12,000            | <15        | <15        | <70        | <15             | ---        | ---             |
| 12/11/08                 | 120,000                                       | <40,000       | 14,000            | 12,000            | 4,400             | 19,000            | <25        | <25        | <150       | <25             | ---        | ---             |
| 03/31/09                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS |               |                   |                   |                   |                   |            |            |            |                 |            |                 |
| <b>MW-4R</b>             |   |               |                   |                   |                   |                   |            |            |            |                 |            |                 |
| 12/31/09                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS |               |                   |                   |                   |                   |            |            |            |                 |            |                 |
| 06/03/10                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS |               |                   |                   |                   |                   |            |            |            |                 |            |                 |
| 12/20/10                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS |               |                   |                   |                   |                   |            |            |            |                 |            |                 |
| 06/30/11                 | 190,000                                       | <30,000       | 3,800             | 11,000            | 2,900             | 20,000            | <25        | <25        | <150       | <25             | <25        | <25             |
| 06/22/12                 | 4,500   | <200          | 31                | 53                | 5.0               | 500               | 6.3        | 6.1        | 180        | <0.5            | 21         | <0.5            |
| 12/13/12                 | 3,700   | <200          | 97                | 76                | 50                | 590               | <0.50      | 1.0        | 41         | <0.50           | 2.5        | <0.50           |
| <b>06/18/13</b>          | <b>3,800</b>                                  | <b>110</b>    | <b>37</b>         | <b>33</b>         | <b>10</b>         | <b>400</b>        | <b>1.5</b> | <b>2.5</b> | <b>120</b> | <b>&lt;0.50</b> | <b>7.2</b> | <b>&lt;0.50</b> |

TABLE TWO

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

| Well/<br>Date<br>Sampled | TPH<br>Gasoline | TPH<br>Diesel  | Benzene          | Toluene          | Ethyl-<br>benzene | Total<br>Xylenes | MTBE             | DIFE             | TBA             | Other<br>Oxys    | EDC              | EDB              |
|--------------------------|-----------------|----------------|------------------|------------------|-------------------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|
| <u>MW-5</u>              |                 |                |                  |                  |                   |                  |                  |                  |                 |                  |                  |                  |
| 06/11/02                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 2.8              | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 09/17/02                 | < 50            | 110            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 4.8              | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 12/18/02                 | < 50            | 140            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 1.8              | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 03/25/03                 | < 50            | 130            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 7.4              | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 06/23/03                 | < 50            | 390            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 17               | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 09/26/03                 | < 50            | 700            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 21               | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 12/18/03                 | < 50            | 550            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 16               | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 03/12/04                 | < 50            | 490            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 9.1              | ---              | ---             | ---              | < 40             | < 40             |
| 06/17/04                 | < 50            | 510            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 9.8              | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 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              | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 04/28/05                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 2.2              | < 0.5            | < 0.5           | < 0.5            | < 0.5            | < 0.5            |
| 07/19/05                 | < 50            | na             | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 6.1              | 2.1              | < 5.0           | < 0.5            | < 0.5            | < 0.5            |
| 10/03/05                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 2.4              | 1.7              | < 5.0           | < 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            | 3.3              | < 0.5            | < 5.0           | < 0.5            | < 0.5            | < 0.5            |
| 06/28/06                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 1.8              | < 0.5            | < 5.0           | < 0.5            | < 0.5            | < 0.5            |
| 08/31/06                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 3.4              | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 12/05/06                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 5.2              | 1.7              | 5.4             | < 0.50           | < 0.50           | < 0.50           |
| 02/23/07                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 6.0              | 1.4              | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 05/02/07                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 3.8              | 1.3              | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 08/09/07                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 5.5              | 1.3              | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 12/06/07                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 1.8              | 1.5              | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 02/26/08                 | 260             | < 50           | 32               | 1.3              | 0.62              | 0.92             | 3.4              | 5.6              | 7.7             | < 0.50           | 0.60             | < 0.50           |
| 05/30/08                 | 71              | < 50           | 1.8              | < 0.50           | < 0.50            | < 0.50           | 2.4              | 3.1              | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 08/28/08                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 2.1              | 2.2              | < 5.0           | < 0.50           | ---              | ---              |
| 12/11/08                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 2.2              | 2.5              | < 5.0           | < 0.50           | ---              | ---              |
| 03/31/09                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 1.2              | 1.3              | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 12/31/09                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 1.9              | 1.5              | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 06/03/10                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 0.56             | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 12/20/10                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 0.61             | 0.67             | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 06/30/11                 | < 50            | < 50           | 1.6              | < 0.50           | < 0.50            | < 0.50           | < 0.50           | 1.0              | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 06/22/12                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 12/13/12                 | 79              | < 50           | 2.7              | < 0.50           | 0.86              | 0.74             | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| <b>06/18/13</b>          | <b>&lt; 50</b>  | <b>&lt; 50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b>  | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 5.0</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> |

TABLE TWO

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

| Well/<br>Date<br>Sampled | TPH<br>Gasoline | TPH<br>Diesel  | Benzene          | Toluene          | Ethyl-<br>benzene | Total<br>Xylenes | MTBE             | DIFE             | TBA             | Other<br>Oxys    | EDC              | EDB              |
|--------------------------|-----------------|----------------|------------------|------------------|-------------------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|
| <u>MW-6</u>              |                 |                |                  |                  |                   |                  |                  |                  |                 |                  |                  |                  |
| 06/11/02                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 1.2              | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 09/17/02                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 1.0              | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 12/18/02                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 0.90             | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 03/25/03                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | < 5.0            | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 06/23/03                 | < 50            | < 50           | < 0.5            | < 0.5            | < 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            | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 12/18/03                 | < 50            | < 50           | < 0.5            | < 0.5            | < 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            | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 06/17/04                 | < 50            | < 50           | < 0.5            | < 0.5            | < 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            | ---              | ---             | ---              | < 0.5            | < 0.5            |
| 04/28/05                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | < 0.5            | < 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            | < 0.5            | < 5.0           | < 0.5            | < 0.5            | < 0.5            |
| 10/03/05                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | < 0.5            | < 0.5            | < 5.0           | < 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            | < 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            | < 0.5            | < 5.0           | < 0.5            | < 0.5            | < 0.5            |
| 08/31/06                 | < 50            | < 50           | < 0.50           | 2.4              | 0.90              | 4.0              | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 11/21/06                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | < 5.0            | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 02/23/07                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 05/02/07                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 08/09/07                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 12/06/07                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 02/26/08                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 05/30/08                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 08/28/08                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | ---              | ---              |
| 12/11/08                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | ---              | ---              |
| 03/31/09                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 12/31/09                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 06/03/10                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 12/20/10                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 06/30/11                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 06/22/12                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 12/13/12                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| <b>06/18/13</b>          | <b>&lt; 50</b>  | <b>&lt; 50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b>  | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 5.0</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> |

**TABLE TWO**

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

| Well/<br>Date<br>Sampled | TPH<br>Gasoline                    | TPH<br>Diesel | Benzene   | Toluene   | Ethyl-<br>benzene | Total<br>Xylenes | MTBE            | DIFE            | TBA        | Other<br>Oxys   | EDC             | EDB             |
|--------------------------|------------------------------------|---------------|-----------|-----------|-------------------|------------------|-----------------|-----------------|------------|-----------------|-----------------|-----------------|
| <u>MW-7</u>              |                                    |               |           |           |                   |                  |                 |                 |            |                 |                 |                 |
| 06/25/02                 | 38,000                             | <2,000        | 890       | 5,100     | 1,200             | 5,200            | <20             | ---             | ---        | ---             | <20             | <20             |
| 09/17/02                 | 26,000                             | <2,000        | 590       | 3,600     | 880               | 4,000            | <20             | ---             | ---        | ---             | <20             | <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            | ---             | ---        | ---             | <2.5            | <2.5            |
| 06/23/03                 | 17,000                             | <1,000        | 440       | 2,600     | 630               | 2,600            | <10             | ---             | ---        | ---             | <10             | <10             |
| 09/26/03                 | 17,000                             | <1,000        | 230       | 1,800     | 470               | 2,200            | <5.0            | ---             | ---        | ---             | <5.0            | <5.0            |
| 12/18/03                 | 20,000                             | <1,000        | 290       | 2,500     | 590               | 2,900            | <5.0            | ---             | ---        | ---             | <5.0            | <5.0            |
| 03/12/04                 | 20,000                             | <1,500        | 300       | 3,000     | 760               | 3,200            | <10             | ---             | ---        | ---             | <10             | <10             |
| 06/17/04                 | 12,000                             | <800          | 250       | 1,800     | 450               | 1,900            | <5.0            | ---             | ---        | ---             | <5.0            | <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            | ---             | ---        | ---             | <3.0            | <3.0            |
| 04/28/05                 | 13,000                             | <300          | 84        | 1,000     | 660               | 2,200            | <2.5            | <2.5            | <2.5       | <2.5            | <2.5            | <2.5            |
| 07/19/05                 | 16,000                             | na            | 170       | 1,800     | 540               | 2,200            | <2.5            | <2.5            | <5.0       | <2.5            | <2.5            | <2.5            |
| 10/03/05                 | 7,400                              | <200          | 140       | 710       | 350               | 1,100            | <0.50           | <0.50           | <5.0       | <0.50           | <0.50           | <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           | <0.50           | <5.0       | <0.50           | <0.50           | <0.50           |
| 06/28/06                 | 6,400                              | <500          | 19.0      | 340       | 490               | 940              | <0.90           | <0.50           | <5.0       | <0.50           | <0.90           | <0.90           |
| 08/31/06                 | 20,000                             | <600          | 160       | 2,200     | 1,300             | 3,500            | <2.5            | 1.4             | <15        | <5.0            | <2.5            | <2.5            |
| 11/21/06                 | 21,000                             | <1,000        | 240       | 2,500     | 880               | 3,400            | <5.0            | <5.0            | <25        | <5.0            | <5.0            | <5.0            |
| 02/23/07                 | 10,000                             | <200          | 150       | 1,300     | 580               | 2,400            | <2.5            | <2.5            | <15        | <2.5            | <2.5            | <2.5            |
| 05/02/07                 | 26,000                             | <1,000        | 300       | 2,400     | 1,800             | 6,700            | <2.5            | <2.5            | <50        | <2.5            | <2.5            | <2.5            |
| 08/09/07                 | 13,000                             | <800          | 250       | 800       | 1,000             | 3,000            | <2.5            | <2.5            | <15        | <2.5            | <2.5            | <2.5            |
| 12/06/07                 | 9,600                              | <1,000        | 160       | 850       | 530               | 2,000            | <2.5            | <2.5            | 45         | <2.5            | <2.5            | <2.5            |
| 02/26/08                 | 14,000                             | <800          | 190       | 1,000     | 740               | 3,000            | <2.5            | <2.5            | 69         | <2.5            | <2.5            | <2.5            |
| 05/30/08                 | 9,900                              | <200          | 160       | 620       | 590               | 2,300            | <2.5            | <2.5            | <15        | <2.5            | <2.5            | <2.5            |
| 08/28/08                 | 11,000                             | <800          | 180       | 500       | 650               | 2,400            | <2.5            | <2.5            | <15        | <2.5            | ---             | ---             |
| 12/11/08                 | 8,000                              | <500          | 160       | 300       | 540               | 1,600            | <2.5            | <2.5            | <15        | <2.5            | ---             | ---             |
| 03/31/09                 | 5,600                              | <300          | 82        | 190       | 360               | 1,000            | <1.5            | <1.5            | <7.0       | <1.5            | <1.5            | <1.5            |
| 12/31/09                 | 16,000                             | <800          | 140       | 1,200     | 750               | 2,800            | <0.5            | <0.50           | 10         | <0.50           | <0.50           | <0.50           |
| 06/03/10                 | 22,000                             | <2,000        | 160       | 1,000     | 1,300             | 3,500            | <5.0            | <5.0            | <25        | <5.0            | <5.0            | <5.0            |
| 12/20/10                 | 23,000                             | <1,000        | 230       | 820       | 1,500             | 4,900            | <5.0            | <5.0            | <25        | <5.0            | <5.0            | <5.0            |
| 06/30/11                 | 26,000                             | <4,000        | 190       | 310       | 1,800             | 3,900            | <5.0            | <5.0            | <25        | <5.0            | <5.0            | <5.0            |
| 06/22/12                 | 10,000                             | <600          | 120       | 52        | 1,100             | 310              | <2.0            | <2.0            | 43         | <2.0            | <2.0            | <2.0            |
| 12/13/12                 | 16,000                             | 610           | 78        | 80        | 1,000             | 940              | <2.5            | <2.5            | <15        | <2.5            | <2.5            | <2.5            |
| <b>06/18/13</b>          | <b>6,000</b>                       | <b>250</b>    | <b>19</b> | <b>22</b> | <b>310</b>        | <b>390</b>       | <b>&lt;0.90</b> | <b>&lt;0.90</b> | <b>6.3</b> | <b>&lt;0.90</b> | <b>&lt;0.90</b> | <b>&lt;0.90</b> |



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

| Well/<br>Date<br>Sampled | TPH<br>Gasoline | TPH<br>Diesel | Benzene | Toluene | Ethyl-<br>benzene | Total<br>Xylenes | MTBE   | DIFE   | TBA   | Other<br>Oxys | EDC    | EDB    |
|--------------------------|-----------------|---------------|---------|---------|-------------------|------------------|--------|--------|-------|---------------|--------|--------|
| <u>MW-8</u>              |                 |               |         |         |                   |                  |        |        |       |               |        |        |
| 02/26/08                 | < 50            | < 50          | 0.51    | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 05/30/08                 | < 50            | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 08/28/08                 | < 50            | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | ---    | ---    |
| 12/11/08                 | < 50            | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | ---    | ---    |
| 03/31/09                 | < 50            | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 12/31/09                 | < 50            | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 06/03/10                 | < 50            | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 12/20/10                 | < 50            | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 06/30/11                 | < 50            | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 06/22/12                 | < 50            | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 12/13/12                 | < 50            | 56            | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| <b>06/18/13</b>          | < 50            | <b>83</b>     | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| ESL                      | 100             | 100           | 1       | 40      | 30                | 20               | 5      |        |       |               |        |        |

Notes:

\* = Hydrocarbons reported are in the early diesel range, and do not match the laboratory standards.  
 \*\* = 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 (B020/B260)  
 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 at Sites With Contaminated Soil and Groundwater (May 2008)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

TPH = Total petroleum hydrocarbons                      EDC = 1,2-Dichloroethane  
 MTBE = Methyl tertiary butyl ether                      EDB = 1,2-Dibromoethane  
 DIFE = Diisopropyl ether  
 TBA = Tery-butanol  
 Oxy = Oxygenates



Aqua Science Engineers, Inc. 55 Oak Court, Danville, CA 94526  
(925) 820-9391 - Fax (925) 837-4853 - [www.aquascienceengineers.com](http://www.aquascienceengineers.com)

## **APPENDIX A**

Certified Analytical Report  
and  
Chain of Custody Documentation  
for  
Air Bag Samples



## Analytical Report

|  |                               |                          |
|--|-------------------------------|--------------------------|
| Aqua Science Engineers, Inc.<br><br>55 Oak Court Suite 220<br><br>Danville, CA 94526 | Client Project ID: #2808; LIM | Date Sampled: 08/08/13   |
|  |                               | Date Received: 08/08/13  |
|  | Client Contact: Dave Allen    | Date Reported: 08/09/13  |
|  | Client P.O.:                  | Date Completed: 08/09/13 |

**WorkOrder: 1308299**

August 09, 2013

Dear Dave:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **#2808; LIM,**
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

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

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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

*The analytical results relate only to the items tested.*

1308299

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

# RUSH Chain of Custody

PAGE 1 of 1

SAMPLER (SIGNATURE)

*David Allen*

PROJECT NAME LIM

JOB NO. 2808

ADDRESS 250 8TH STREET, OAKLAND

## ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

| SAMPLE ID. | DATE | TIME | MATRIX | QUANTITY | TPH-GAS / MTBE & BTEX<br>(EPA 5030/6015-8020) | TPH-DIESEL<br>(EPA 3510/6015) | TPH-DIESEL & MOTOR OIL<br>(EPA 3510/6015) | CAM 17 METALS<br>(EPA 6010+7000) | SEMI-VOLATILE ORGANICS<br>(EPA 625/6270) | Pb (TOTAL or DISSOLVED)<br>(EPA 6010) | PESTICIDES<br>(EPA 6081) | FUEL OXYGENATES<br>(EPA 8260) | PURGEABLE HALOCARBONS<br>(EPA 601/6010) | TPH-G/BTEX/5 OXYS<br>(EPA METHOD 8260) | MULTIRANGE<br>HYDROCARBONS WITH SILICA<br>GEL CLEANUP (EPA 8015) | VOLATILE ORGANICS<br>(EPA 824/6240/8260) | LUFT METALS (5)<br>(EPA 6010+7000) | COMPOSITE 4:1 | EDF |            |
|------------|------|------|--------|----------|---|-------------------------------|---|----------------------------------|--|---------------------------------------|--------------------------|-------------------------------|---|--|--|--|------------------------------------|---------------|-----|------------|
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     | INF-8-8-13 |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |  |  |                                    |               |     |            |

RELINQUISHED BY:  
*David Allen*

RECEIVED BY:  
*Ben Yslas* 1745

RELINQUISHED BY:  
*Ben Yslas* 1850

RECEIVED BY LABORATORY:

COMMENTS:

David Allen 8/8/13

Ben Yslas 8/8/13

*Ben Yslas* 8/8

(signature) (time)

TURN AROUND TIME  
STANDARD 24Hr 48Hr **72Hr**

Company-ASE, INC.

Company-ruc/campbell

Company-

Company-

OTHER:



1534 Willow Pass Rd  
 Pittsburg, CA 94565-1701  
 (925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1308299

ClientCode: ASED

WaterTrax  
  WriteOn  
  EDF  
  Excel  
  EQuIS  
 Email  
  HardCopy  
  ThirdParty  
  J-flag

**Report to:**  
 Dave Allen  
 Aqua Science Engineers, Inc.  
 55 Oak Court Suite 220  
 Danville, CA 94526  
 (925) 820-9391    FAX: (925) 837-4853

Email: dallen@aquascienceengineers.com  
 cc:  
 PO:  
 ProjectNo: #2808; LIM

**Bill to:**  
 Diane Schiell  
 Aqua Science Engineers, Inc.  
 217 Wild Flower Drive  
 Roseville, CA 95678  
 deezthng22@yahoo.com

**Requested TAT: 3 days**

*Date Received:* 08/08/2013

*Date Printed:* 08/08/2013

| Lab ID      | Client ID  | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |  |
|-------------|------------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|--|
|             |            |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |  |
| 1308299-001 | INF-8.8.13 | Air    | 8/8/2013 12:30  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |  |

**Test Legend:**

|    |            |    |  |   |  |   |  |    |  |
|----|------------|----|--|---|--|---|--|----|--|
| 1  | G-MBTX_AIR | 2  |  | 3 |  | 4 |  | 5  |  |
| 6  |            | 7  |  | 8 |  | 9 |  | 10 |  |
| 11 |            | 12 |  |   |  |   |  |    |  |

The following SampID: 001A contains testgroup.

**Prepared by: Jena Alfaro**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



### Sample Receipt Checklist

Client Name: **Aqua Science Engineers, Inc.**

Date and Time Received: **8/8/2013 7:28:38 PM**

Project Name: **#2808; LIM**

LogIn Reviewed by: **Jena Alfaro**

WorkOrder N°: **1308299** Matrix: Air

Carrier: Benjamin Yslas (MAI Courier)

#### Chain of Custody (COC) Information

|   |   |                             |
|---|---|-----------------------------|
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sample IDs noted by Client on COC?                      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Date and Time of collection noted by Client on COC?     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sampler's name noted on COC?                            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

#### Sample Receipt Information

|  |   |                             |  |
|--|---|-----------------------------|--|
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping container/cooler in good condition?       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| Samples in proper containers/bottles?              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| Sample containers intact?                          | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| Sufficient sample volume for indicated test?       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |

#### Sample Preservation and Hold Time (HT) Information

|   |   |  |  |
|---|---|--|--|
| All samples received within holding time?           | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| Container/Temp Blank temperature                    | Cooler Temp:                            |  | NA <input checked="" type="checkbox"/>                     |
| Water - VOA vials have zero headspace / no bubbles? | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | No VOA vials submitted <input checked="" type="checkbox"/> |
| Sample labels checked for correct preservation?     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| Metal - pH acceptable upon receipt (pH<2)?          | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | NA <input checked="" type="checkbox"/>                     |
| Samples Received on Ice?                            | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |  |

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



|  |                               |                          |
|--|-------------------------------|--------------------------|
| Aqua Science Engineers, Inc.<br><br>55 Oak Court Suite 220<br><br>Danville, CA 94526 | Client Project ID: #2808; LIM | Date Sampled: 08/08/13   |
|  |                               | Date Received: 08/08/13  |
|  | Client Contact: Dave Allen    | Date Extracted: 08/09/13 |
|  | Client P.O.:                  | Date Analyzed: 08/09/13  |

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1308299

| Lab ID | Client ID  | Matrix | TPH(g) | MTBE   | Benzene | Toluene | Ethylbenzene | Xylenes | DF  | % SS | Comments |
|--------|------------|--------|--------|--------|---------|---------|--------------|---------|-----|------|----------|
| 001A   | INF-8.8.13 | A      | 20,000 | ND<350 | 250     | 340     | 12           | 480     | 6.7 | ---# | d1       |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |
|        |            |        |        |        |         |         |              |         |     |      |          |

|  |   |     |      |       |       |       |       |       |       |
|--|---|-----|------|-------|-------|-------|-------|-------|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | A | 25  | 2.5  | 0.25  | 0.25  | 0.25  | 0.25  | 0.25  | µg/L  |
|  | S | 1.0 | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | mg/Kg |

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:  
 d1) weakly modified or unmodified gasoline is significant



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
http://www.mcccampbell.com / E-mail: main@mcccampbell.com

|  |                               |                          |
|--|-------------------------------|--------------------------|
| Aqua Science Engineers, Inc.<br><br>55 Oak Court Suite 220<br><br>Danville, CA 94526 | Client Project ID: #2808; LIM | Date Sampled: 08/08/13   |
|  |                               | Date Received: 08/08/13  |
|  | Client Contact: Dave Allen    | Date Extracted: 08/09/13 |
|  | Client P.O.:                  | Date Analyzed: 08/09/13  |

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1308299

| Lab ID | Client ID  | Matrix | TPH(g) | MTBE  | Benzene | Toluene | Ethylbenzene | Xylenes | DF  | % SS | Comments |
|--------|------------|--------|--------|-------|---------|---------|--------------|---------|-----|------|----------|
| 001A   | INF-8.8.13 | A      | 5600   | ND<90 | 78      | 89      | 2.7          | 110     | 6.7 | --#  | d1       |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |
|        |            |        |        |       |         |         |              |         |     |      |          |

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

|  |   |     |      |       |       |       |       |   |       |
|--|---|-----|------|-------|-------|-------|-------|---|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | A | 7.0 | 0.68 | 0.077 | 0.065 | 0.057 | 0.057 | 1 | uL/L  |
|  | S | NA  | NA   | NA    | NA    | NA    | NA    | 1 | mg/Kg |

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

# cluttered chromatogram; sample peak coelutes with surrogate peak; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

d1) weakly modified or unmodified gasoline is significant





**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Air

QC Matrix: Water

BatchID: 80379

WorkOrder: 1308299

| EPA Method: SW8021B/8015Bm |        | Extraction: SW5030B |        |        |        | Spiked Sample ID: N/A |                         |     |          |
|----------------------------|--------|---------------------|--------|--------|--------|-----------------------|-------------------------|-----|----------|
| Analyte                    | Sample | Spiked              | MS     | MSD    | MS-MSD | LCS                   | Acceptance Criteria (%) |     |          |
|                            | µg/L   | µg/L                | % Rec. | % Rec. | % RPD  | % Rec.                | MS / MSD                | RPD | LCS      |
| TPH(btex) £                | N/A    | 60                  | N/A    | N/A    | N/A    | 102                   | N/A                     | N/A | 70 - 130 |
| MTBE                       | N/A    | 10                  | N/A    | N/A    | N/A    | 94.3                  | N/A                     | N/A | 70 - 130 |
| Benzene                    | N/A    | 10                  | N/A    | N/A    | N/A    | 103                   | N/A                     | N/A | 70 - 130 |
| Toluene                    | N/A    | 10                  | N/A    | N/A    | N/A    | 105                   | N/A                     | N/A | 70 - 130 |
| Ethylbenzene               | N/A    | 10                  | N/A    | N/A    | N/A    | 105                   | N/A                     | N/A | 70 - 130 |
| Xylenes                    | N/A    | 30                  | N/A    | N/A    | N/A    | 106                   | N/A                     | N/A | 70 - 130 |
| %SS:                       | N/A    | 10                  | N/A    | N/A    | N/A    | 99                    | N/A                     | N/A | 70 - 130 |

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

BATCH 80379 SUMMARY

| Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|------------------|--------|--------------|----------------|---------------|
| 1308299-001A | 08/08/13 12:30 PM | 08/09/13       | 08/09/13 6:56 AM |        |              |                |               |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 % Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).  
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 £ TPH(btex) = sum of BTEX areas from the FID.  
 # cluttered chromatogram; sample peak coelutes with surrogate peak.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



## Analytical Report

|  |                               |                          |
|--|-------------------------------|--------------------------|
| Aqua Science Engineers, Inc.<br><br>55 Oak Court Suite 220<br><br>Danville, CA 94526 | Client Project ID: #2808; LIM | Date Sampled: 08/08/13   |
|  |                               | Date Received: 08/08/13  |
|  | Client Contact: Dave Allen    | Date Reported: 08/09/13  |
|  | Client P.O.:                  | Date Completed: 08/09/13 |

**WorkOrder: 1308300**

August 09, 2013

Dear Dave:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **#2808; LIM,**
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

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

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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

*The analytical results relate only to the items tested.*

1308300

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

# RUSH Chain of Custody

PAGE 1 of 1

SAMPLER (SIGNATURE)  
*David Allen*

PROJECT NAME LIM JOB NO. 2808  
ADDRESS 250 8th STREET, OAKLAND

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

| SAMPLE ID. | DATE | TIME | MATRIX | QUANTITY | TPH-GAS / MTBE & BTEX<br>(EPA 5030/6015-8020) | TPH-DIESEL<br>(EPA 3510/8015) | TPH-DIESEL & MOTOR OIL<br>(EPA 3510/8015) | CAM 17 METALS<br>(EPA 6010+7000) | SEMI-VOLATILE ORGANICS<br>(EPA 625/6270) | Pb (TOTAL or DISSOLVED)<br>(EPA 6010) | PESTICIDES<br>(EPA 8081) | FUEL OXYGENATES<br>(EPA 8260) | PURGEABLE HALOCARBONS<br>(EPA 601/8010) | TPH-G/BTEX/5 OXYS<br>(EPA METHOD 8260) | MULTI-RANGE<br>HYDROCARBONS WITH SILICA<br>GEL CLEANUP (EPA 9015) | VOLATILE ORGANICS<br>(EPA 624/6240/6260) | LUFT METALS (5)<br>(EPA 6010+7000) | COMPOSITE 4:1 | EDF |            |
|------------|------|------|--------|----------|---|-------------------------------|---|----------------------------------|--|---------------------------------------|--------------------------|-------------------------------|---|--|---|--|------------------------------------|---------------|-----|------------|
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |   |  |                                    |               |     | INF-8.8.13 |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |   |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |   |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |   |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |   |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |   |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |   |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |   |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |   |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |   |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |   |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |   |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |   |  |                                    |               |     |            |
|            |      |      |        |          |   |                               |   |                                  |  |                                       |                          |                               |   |  |   |  |                                    |               |     |            |

RELINQUISHED BY:  
*David Allen* 1745  
(signature) (time)  
DAVID ALLEN 8/8/13  
(printed name) (date)  
Company-ASE, INC.

RECEIVED BY:  
*Ben YSLAS* 1745  
(signature) (time)  
Ben YSLAS 8/8  
(printed name) (date)  
Company-

RELINQUISHED BY:  
*Ben YSLAS* 1850  
(signature) (time)  
(printed name) (date)  
Company-

RECEIVED BY LABORATORY:  
*MAI* 5/8  
(signature) (time)  
(printed name) (date)  
Company-MAI

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



1534 Willow Pass Rd  
 Pittsburg, CA 94565-1701  
 (925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 1308300

ClientCode: ASED

- WaterTrax  
  WriteOn  
  EDF  
  Excel  
  EQUIS  
 Email  
  HardCopy  
  ThirdParty  
  J-flag

Report to:  
 Dave Allen  
 Aqua Science Engineers, Inc.  
 55 Oak Court Suite 220  
 Danville, CA 94526  
 (925) 820-9391    FAX: (925) 837-4853

Email: dallen@aquascienceengineers.com  
 cc:  
 PO:  
 ProjectNo: #2808; LIM

Bill to:  
 Diane Schiell  
 Aqua Science Engineers, Inc.  
 217 Wild Flower Drive  
 Roseville, CA 95678  
 deezthng22@yahoo.com

Requested TAT: 3 days

Date Received: 08/08/2013

Date Printed: 08/08/2013

| Lab ID      | Client ID  | Matrix | Collection Date | Hold                     | Requested Tests (See legend below) |   |   |   |   |   |   |   |   |    |    |    |  |  |
|-------------|------------|--------|-----------------|--------------------------|------------------------------------|---|---|---|---|---|---|---|---|----|----|----|--|--|
|             |            |        |                 |                          | 1                                  | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |  |
| 1308300-001 | INF-8.8.13 | Air    | 8/8/2013 12:45  | <input type="checkbox"/> | A                                  |   |   |   |   |   |   |   |   |    |    |    |  |  |

**Test Legend:**

|    |            |    |  |   |  |   |  |    |  |
|----|------------|----|--|---|--|---|--|----|--|
| 1  | G-MBTX_AIR | 2  |  | 3 |  | 4 |  | 5  |  |
| 6  |            | 7  |  | 8 |  | 9 |  | 10 |  |
| 11 |            | 12 |  |   |  |   |  |    |  |

The following SampID: 001A contains testgroup.

Prepared by: Zoraida Cortez

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
 Hazardous samples will be returned to client or disposed of at client expense.



### Sample Receipt Checklist

Client Name: **Aqua Science Engineers, Inc.**

Date and Time Received: **8/8/2013 7:30:45 PM**

Project Name: **#2808; LIM**

LogIn Reviewed by: **Zoraida Cortez**

WorkOrder N°: **1308300** Matrix: Air

Carrier: Benjamin Yslas (MAI Courier)

#### Chain of Custody (COC) Information

|   |   |                             |
|---|---|-----------------------------|
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sample IDs noted by Client on COC?                      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Date and Time of collection noted by Client on COC?     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sampler's name noted on COC?                            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

#### Sample Receipt Information

|  |   |                             |  |
|--|---|-----------------------------|--|
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping container/cooler in good condition?       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| Samples in proper containers/bottles?              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| Sample containers intact?                          | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| Sufficient sample volume for indicated test?       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |

#### Sample Preservation and Hold Time (HT) Information

|   |   |  |  |
|---|---|--|--|
| All samples received within holding time?           | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| Container/Temp Blank temperature                    | Cooler Temp:                            |  | NA <input checked="" type="checkbox"/>                     |
| Water - VOA vials have zero headspace / no bubbles? | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | No VOA vials submitted <input checked="" type="checkbox"/> |
| Sample labels checked for correct preservation?     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| Metal - pH acceptable upon receipt (pH<2)?          | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | NA <input checked="" type="checkbox"/>                     |
| Samples Received on Ice?                            | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |  |

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



|  |                               |                          |
|--|-------------------------------|--------------------------|
| Aqua Science Engineers, Inc.<br><br>55 Oak Court Suite 220<br><br>Danville, CA 94526 | Client Project ID: #2808; LIM | Date Sampled: 08/08/13   |
|  |                               | Date Received: 08/08/13  |
|  | Client Contact: Dave Allen    | Date Extracted: 08/09/13 |
|  | Client P.O.:                  | Date Analyzed: 08/09/13  |

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1308300

| Lab ID | Client ID  | Matrix | TPH(g) | MTBE  | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS | Comments |
|--------|------------|--------|--------|-------|---------|---------|--------------|---------|----|------|----------|
| 001A   | INF-8.8.13 | A      | 1400   | ND<15 | 12      | 23      | 1.3          | 47      | 1  | ---# | d1       |
|        |            |        |        |       |         |         |              |         |    |      |          |
|        |            |        |        |       |         |         |              |         |    |      |          |
|        |            |        |        |       |         |         |              |         |    |      |          |
|        |            |        |        |       |         |         |              |         |    |      |          |
|        |            |        |        |       |         |         |              |         |    |      |          |
|        |            |        |        |       |         |         |              |         |    |      |          |
|        |            |        |        |       |         |         |              |         |    |      |          |
|        |            |        |        |       |         |         |              |         |    |      |          |
|        |            |        |        |       |         |         |              |         |    |      |          |
|        |            |        |        |       |         |         |              |         |    |      |          |
|        |            |        |        |       |         |         |              |         |    |      |          |
|        |            |        |        |       |         |         |              |         |    |      |          |
|        |            |        |        |       |         |         |              |         |    |      |          |
|        |            |        |        |       |         |         |              |         |    |      |          |
|        |            |        |        |       |         |         |              |         |    |      |          |

|  |   |     |      |       |       |       |       |       |       |       |
|--|---|-----|------|-------|-------|-------|-------|-------|-------|-------|
| Reporting Limit for DF =1;<br>ND means not detected at or<br>above the reporting limit | A | 25  | 2.5  | 0.25  | 0.25  | 0.25  | 0.25  | 0.25  | 0.25  | µg/L  |
|  | S | 1.0 | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | mg/Kg |

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:  
d1) weakly modified or unmodified gasoline is significant



**McC Campbell Analytical, Inc.**  
*"When Quality Counts"*

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
 http://www.mcccampbell.com / E-mail: main@mcccampbell.com

|  |                               |                          |
|--|-------------------------------|--------------------------|
| Aqua Science Engineers, Inc.<br><br>55 Oak Court Suite 220<br><br>Danville, CA 94526 | Client Project ID: #2808; LIM | Date Sampled: 08/08/13   |
|  |                               | Date Received: 08/08/13  |
|  | Client Contact: Dave Allen    | Date Extracted: 08/09/13 |
|  | Client P.O.:                  | Date Analyzed: 08/09/13  |

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1308300

| Lab ID | Client ID  | Matrix | TPH(g) | MTBE   | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS | Comments |
|--------|------------|--------|--------|--------|---------|---------|--------------|---------|----|------|----------|
| 001A   | INF-8.8.13 | A      | 380    | ND<5.0 | 3.7     | 6.0     | 0.30         | 11      | 1  | --#  | d1       |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |
|        |            |        |        |        |         |         |              |         |    |      |          |

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

|   |   |     |      |       |       |       |       |   |       |
|---|---|-----|------|-------|-------|-------|-------|---|-------|
| Reporting Limit for DF=1;<br>ND means not detected at or<br>above the reporting limit | A | 7.0 | 0.68 | 0.077 | 0.065 | 0.057 | 0.057 | 1 | uL/L  |
|   | S | NA  | NA   | NA    | NA    | NA    | NA    | 1 | mg/Kg |

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

# cluttered chromatogram; sample peak coelutes with surrogate peak; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:  
 d1) weakly modified or unmodified gasoline is significant



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Air

QC Matrix: Water

BatchID: 80379

WorkOrder: 1308300

| EPA Method: SW8021B/8015Bm |        | Extraction: SW5030B |        |        |        | Spiked Sample ID: N/A |                         |     |          |
|----------------------------|--------|---------------------|--------|--------|--------|-----------------------|-------------------------|-----|----------|
| Analyte                    | Sample | Spiked              | MS     | MSD    | MS-MSD | LCS                   | Acceptance Criteria (%) |     |          |
|                            | µg/L   | µg/L                | % Rec. | % Rec. | % RPD  | % Rec.                | MS / MSD                | RPD | LCS      |
| TPH(btex) £                | N/A    | 60                  | N/A    | N/A    | N/A    | 102                   | N/A                     | N/A | 70 - 130 |
| MTBE                       | N/A    | 10                  | N/A    | N/A    | N/A    | 94.3                  | N/A                     | N/A | 70 - 130 |
| Benzene                    | N/A    | 10                  | N/A    | N/A    | N/A    | 103                   | N/A                     | N/A | 70 - 130 |
| Toluene                    | N/A    | 10                  | N/A    | N/A    | N/A    | 105                   | N/A                     | N/A | 70 - 130 |
| Ethylbenzene               | N/A    | 10                  | N/A    | N/A    | N/A    | 105                   | N/A                     | N/A | 70 - 130 |
| Xylenes                    | N/A    | 30                  | N/A    | N/A    | N/A    | 106                   | N/A                     | N/A | 70 - 130 |
| %SS:                       | N/A    | 10                  | N/A    | N/A    | N/A    | 99                    | N/A                     | N/A | 70 - 130 |

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

BATCH 80379 SUMMARY

| Lab ID       | Date Sampled      | Date Extracted | Date Analyzed    | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|------------------|--------|--------------|----------------|---------------|
| 1308300-001A | 08/08/13 12:45 PM | 08/09/13       | 08/09/13 6:26 AM |        |              |                |               |

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 % Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).  
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 £ TPH(btex) = sum of BTEX areas from the FID.  
 # cluttered chromatogram; sample peak coelutes with surrogate peak.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.





Aqua Science Engineers, Inc. 55 Oak Court, Danville, CA 94526  
(925) 820-9391 - Fax (925) 837-4853 - [www.aquascienceengineers.com](http://www.aquascienceengineers.com)

## **APPENDIX B**

Remediation Systems  
Field Logs

**LIM PROPERTY - 250 8TH STREET, OAKLAND, CALIFORNIA  
VAPOR-EXTRACTION SYSTEM LOG**

| DATE    | CAT-OX SYSTEM |                      | VAPOR-EXTRACTION WELLS OVM CONCENTRATION IN PPMV* |      |      |      |      |      |      |      |      |      |      |
|---------|---------------|----------------------|---|------|------|------|------|------|------|------|------|------|------|
|         | FLOW IN CFM   | INFLUENT IN PPMV*C35 | VE-1  | VE-2 | VE-3 | VE-4 | VE-5 | VE-6 | VE-7 | VE-8 | VE-9 | MW-3 | MW-4 |
| 4/22/11 | 130           | 1096                 | 240   | 34   | 119  | 125  | 440  |      |      |      |      | 465  | 570  |
| 4/25/11 | 130           | 986                  | 185   | 28   | 95   | 130  | 400  |      |      |      |      | 390  | 565  |
| 4/25/11 | 100           | 923                  | 210   | 26   | 100  | 100  | 350  |      |      |      |      | 450  | 442  |
| 4/26/11 | 90            | 912                  | 230   | 25   | 98   | 86   | 410  |      |      |      |      | 422  | 388  |
| 4/27/11 | 78            | 747                  | 210   | 32   | 112  | 56   | 360  |      |      |      |      | 364  | 224  |
| 4/29/11 | 65            | 790                  | 320   | 30   | 90   | 45   | 320  |      |      |      |      | 320  | 312  |
| 5/2/11  | 58            | 879                  | 350   | 28   | 88   | 66   | 400  |      |      |      |      | 420  | 246  |
| 5/4/11  | 52            | 916                  | 520   | 25   | 98   | 48   | 365  |      |      |      |      | 310  | 300  |
| 5/6/11  | 52            | 892                  | 590   | 26   | 119  | 30   | 328  |      |      |      |      | 263  | 265  |
| 5/9/11  | 52            | 1079                 | 610   | 22   | 234  | 45   | 290  | 85   | 80   | 140  | 15   | 200  | 240  |
| 5/12/11 | 50            | 1016                 | 556   | 40   | 185  | 40   | 265  | 80   | 84   | 135  | 11   | 216  | 235  |
| 5/16/11 | 48            | 1155                 | 764   | 32   | 156  | 36   | 213  | 75   | 70   | 124  | 10   | 310  | 310  |
| 5/20/11 | 52            | 1158                 | 810   | 26   | 164  | 38   | 312  | 92   | 88   | 156  | 14   | 186  | 220  |
| 5/23/11 | 50            | 1013                 | 564   | 26   | 242  | 28   | 286  | 94   | 102  | 140  | 9    | 165  | 186  |
| 5/25/11 | 46            | 1169                 | 686   | 28   | 310  | 42   | 310  | 90   | 95   | 125  | 15   | 220  | 205  |
| 5/27/11 | 52            | 1031                 | 712   | 35   | 126  | 58   | 268  | 110  | 115  | 120  | 22   | 165  | 143  |
| 5/30/11 | 50            | 923                  | 572   | 34   | 164  | 29   | 345  | 102  | 99   | 133  | 13   | 120  | 68   |
| 6/3/11  | 48            | 948                  | 660   | 30   | 135  | 20   | 320  | 86   | 95   | 144  | 11   | 110  | 112  |
| 6/6/11  | 43            | 981                  | 742   | 25   | 133  | 14   | 285  | 95   | 90   | 126  | 8    | 123  | 142  |
| 6/8/11  | 48            | 983                  | 762   | 26   | 142  | 25   | 246  | 84   | 84   | 139  | 7    | 120  | 152  |
| 6/10/11 | 48            | 944                  | 688   | 22   | 139  | 28   | 288  | 116  | 96   | 120  | 8    | 105  | 106  |
| 6/13/11 | 52            | 1152                 | 884   | 24   | 115  | 32   | 296  | 125  | 102  | 144  | 9    | 134  | 229  |
| 6/16/11 | 50            | 1183                 | 920   | 24   | 135  | 18   | 305  | 102  | 114  | 152  | 5    | 130  | 245  |
| 6/20/11 | 46            | 1277                 | 1122  | 28   | 128  | 22   | 308  | 96   | 84   | 132  | 11   | 125  | 266  |
| 6/22/11 | 42            | 1180                 | 952   | 18   | 130  | 24   | 264  | 85   | 98   | 130  | 6    | 128  | 310  |
| 6/24/11 | 55            | 1105                 | 878   | 20   | 134  | 26   | 277  | 118  | 102  | 148  | 5    | 106  | 195  |
| 6/27/11 | 52            | 1141                 | 765   | 26   | 127  | 26   | 263  | 102  | 100  | 122  | 6    | 144  | 393  |
| 7/8/11  | 49            | 926                  | 555   | 25   | 130  | 18   | 298  | 99   | 90   | 130  | 9    | 132  | 222  |
| 7/12/11 | 45            | 788                  | 500   | 24   | 125  | 15   | 287  | 101  | 89   | 133  | 8    | 124  | 252  |
| 7/18/11 | 46            | 745                  | 541   | 21   | 124  | 14   | 302  | 85   | 88   | 125  | 8    | 142  | 244  |
| 7/25/11 | 47            | 688                  | 488   | 22   | 124  | 17   | 278  | 87   | 95   | 126  | 7    | 133  | 232  |

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**LIM PROPERTY - 250 8TH STREET, OAKLAND, CALIFORNIA  
VAPOR-EXTRACTION SYSTEM LOG**

| DATE     | CAT-OX SYSTEM  |                            | VAPOR-EXTRACTION WELLS OVM CONCENTRATION IN PPMV* |      |      |      |      |      |      |      |      |      |      |
|----------|----------------|----------------------------|---|------|------|------|------|------|------|------|------|------|------|
|          | FLOW IN<br>CFM | INFLUENT<br>IN<br>PPMV*C84 | VE-1  | VE-2 | VE-3 | VE-4 | VE-5 | VE-6 | VE-7 | VE-8 | VE-9 | MW-3 | MW-4 |
| 8/1/11   | 52             | 655                        | 600   | 26   | 132  | 12   | 273  | 96   | 93   | 144  | 6    | 125  | 235  |
| 8/9/11   | 51             | 725                        | 553   | 21   | 111  | 14   | 263  | 80   | 93   | 112  | 5    | 126  | 226  |
| 8/15/11  | 53             | 718                        | 523   | 21   | 110  | 13   | 255  | 75   | 92   | 132  | 5    | 131  | 212  |
| 8/24/11  | 45             | 802                        | 514   | 24   | 141  | 14   | 264  | 68   | 88   | 123  | 6    | 134  | 238  |
| 8/29/11  | 46             | 644                        | 506   | 21   | 123  | 15   | 270  | 88   | 89   | 130  | 4    | 129  | 230  |
| 9/7/11   | 56             | 640                        | 488   | 26   | 111  | 11   | 266  | 99   | 96   | 112  | 6    | 111  | 211  |
| 9/12/11  | 55             | 636                        | 478   | 25   | 100  | 10   | 255  | 90   | 95   | 11   | 5    | 110  | 212  |
| 9/20/11  | 52             | 632                        | 465   | 24   | 102  | 12   | 254  | 88   | 95   | 123  | 4    | 122  | 210  |
| 9/27/11  | 50             | 622                        | 412   | 25   | 101  | 14   | 232  | 87   | 96   | 120  | 6    | 114  | 223  |
| 10/3/11  | 55             | 612                        | 400   | 22   | 98   | 9    | 211  | 96   | 90   | 119  | 5    | 100  | 232  |
| 10/10/11 | 50             | 621                        | 412   | 21   | 114  | 11   | 224  | 92   | 90   | 11   | 3    | 98   | 216  |
| 10/18/11 | 51             | 602                        | 388   | 23   | 121  | 12   | 222  | 98   | 91   | 114  | 6    | 103  | 222  |
| 10/25/11 | 51             | 611                        | 377   | 22   | 102  | 15   | 200  | 87   | 91   | 102  | 7    | 110  | 232  |
| 11/1/11  | 49             | 598                        | 366   | 20   | 100  | 8    | 214  | 78   | 88   | 90   | 6    | 105  | 208  |
| 11/7/11  | 48             | 588                        | 365   | 13   | 98   | 8    | 211  | 74   | 88   | 90   | 5    | 106  | 214  |
| 11/14/11 | 48             | 586                        | 385   | 19   | 97   | 7    | 225  | 78   | 88   | 95   | 5    | 105  | 210  |
| 11/22/11 | 48             | 574                        | 364   | 17   | 106  | 11   | 223  | 89   | 87   | 92   | 5    | 99   | 211  |
| 11/30/11 | 47             | 545                        | 344   | 22   | 97   | 10   | 208  | 95   | 88   | 81   | 4    | 98   | 219  |
| 12/5/11  | 47             | 588                        | 355   | 20   | 99   | 9    | 211  | 95   | 85   | 81   | 3    | 100  | 203  |
| 12/12/11 | 49             | 541                        | 323   | 18   | 111  | 9    | 195  | 90   | 83   | 83   | 4    | 111  | 200  |
| 12/20/11 | 48             | 540                        | 311   | 17   | 105  | 7    | 196  | 91   | 81   | 75   | 4    | 99   | 201  |
| 12/30/11 | 48             | 532                        | 302   | 18   | 101  | 7    | 188  | 83   | 76   | 78   | 5    | 92   | 199  |
| 1/5/12   | 49             | 485                        | 302   | 11   | 99   | 6    | 174  | 88   | 77   | 85   | 6    | 92   | 199  |
| 1/10/12  | 51             | 487                        | 311   | 14   | 99   | 6    | 175  | 84   | 74   | 77   | 5    | 92   | 203  |
| 1/16/12  | 50             | 465                        | 312   | 15   | 98   | 8    | 165  | 85   | 77   | 74   | 3    | 95   | 195  |
| 1/23/12  | 48             | 455                        | 310   | 14   | 98   | 7    | 166  | 87   | 78   | 78   | 4    | 94   | 188  |
| 1/31/12  | 47             | 444                        | 311   | 11   | 95   | 7    | 152  | 78   | 75   | 86   | 5    | 99   | 187  |
| 2/7/12   | 47             | 420                        | 299   | 9    | 93   | 8    | 140  | 70   | 77   | 85   | 6    | 95   | 177  |
| 2/13/12  | 44             | 388                        | 290   | 8    | 90   | 7    | 141  | 66   | 71   | 88   | 5    | 96   | 165  |
| 2/20/12  | 41             | 355                        | 295   | 9    | 77   | 8    | 133  | 62   | 71   | 81   | 4    | 95   | 158  |
| 2/27/12  | 45             | 356                        | 295   | 9    | 75   | 8    | 132  | 63   | 71   | 84   | 6    | 88   | 145  |

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**LIM PROPERTY - 250 8TH STREET, OAKLAND, CALIFORNIA  
VAPOR-EXTRACTION SYSTEM LOG**

| DATE    | CAT-OX SYSTEM  |                             | VAPOR-EXTRACTION WELLS OVM CONCENTRATION IN PPMV* |      |      |      |      |      |      |      |      |      |      |
|---------|----------------|-----------------------------|---|------|------|------|------|------|------|------|------|------|------|
|         | FLOW IN<br>CFM | INFLUENT<br>IN<br>PPMV*C121 | VE-1  | VE-2 | VE-3 | VE-4 | VE-5 | VE-6 | VE-7 | VE-8 | VE-9 | MW-3 | MW-4 |
| 3/6/12  | 42             | 354                         | 288   | 11   | 77   | OFF  | 125  | 61   | 68   | 84   | 6    | 87   | 165  |
| 3/12/12 | 40             | 338                         | 290   | 9    | 74   | OFF  | 125  | 60   | 68   | 81   | 5    | 87   | 157  |
| 3/19/12 | 41             | 334                         | 290   | 7    | 75   | OFF  | 111  | 55   | 71   | 78   | 5    | 85   | 180  |
| 3/26/12 | 43             | 321                         | 277   | 9    | 77   | OFF  | 105  | 58   | 70   | 77   | 7    | 84   | 174  |
| 4/2/12  | 45             | 333                         | 255   | 8    | 68   | OFF  | 99   | 61   | 59   | 78   | 5    | 81   | 166  |
| 4/9/12  | 41             | 311                         | 255   | 8    | 68   | OFF  | 95   | 61   | 59   | 72   | 4    | 80   | 165  |
| 4/16/12 | 39             | 310                         | 241   | 7    | 74   | OFF  | 95   | 62   | 58   | 71   | 4    | 86   | 184  |
| 4/25/12 | 39             | 300                         | 243   | OFF  | 73   | OFF  | 96   | 60   | 57   | 74   | 4    | 77   | 177  |
| 5/4/12  | 40             | 288                         | 225   | OFF  | 71   | OFF  | 88   | 60   | 56   | 74   | 4    | 78   | 174  |
| 5/8/12  | 40             | 275                         | 233   | OFF  | 65   | OFF  | 87   | 55   | 55   | 75   | 5    | 78   | 175  |
| 5/14/12 | 40             | 280                         | 241   | OFF  | 58   | OFF  | 95   | 57   | 58   | 74   | 6    | 79   | 181  |
| 5/22/12 | 41             | 256                         | 211   | OFF  | 55   | OFF  | 75   | 58   | 61   | 69   | 5    | 95   | 166  |
| 5/29/12 | 41             | 255                         | 205   | OFF  | 54   | OFF  | 77   | 51   | 62   | 69   | 4    | 94   | 158  |
| 6/4/12  | 40             | 241                         | 195   | OFF  | 54   | OFF  | 81   | 51   | 60   | 63   | 4    | 99   | 144  |
| 6/12/12 | 38             | 222                         | 188   | OFF  | 52   | OFF  | 66   | 50   | 60   | 62   | 4    | 103  | 158  |
| 6/18/12 | 38             | 232                         | 175   | OFF  | 51   | OFF  | 63   | 52   | 61   | 60   | 4    | 102  | 180  |
| 6/28/12 | 38             | 195                         | 170   | OFF  | 46   | OFF  | 51   | 48   | 55   | 58   | 4    | 111  | 165  |
| 7/9/12  | 37             | 180                         | 150   | OFF  | 36   | OFF  | 44   | 44   | 50   | 55   | 4    | 99   | 144  |
| 7/18/12 | 35             | 175                         | 144   | OFF  | 41   | OFF  | 43   | 39   | 44   | 54   | 5    | 94   | 128  |
| 7/26/12 | 37             | 165                         | 143   | OFF  | 29   | OFF  | 29   | 40   | 41   | 49   | 4    | 96   | 180  |
| 8/2/12  | 35             | 152                         | 129   | OFF  | 44   | OFF  | 32   | 44   | 41   | 48   | 4    | 102  | 119  |
| 8/10/12 | 38             | 144                         | 111   | OFF  | 34   | OFF  | 25   | 38   | 37   | 44   | 3    | 101  | 120  |
| 8/15/12 | 40             | 141                         | 113   | OFF  | 38   | OFF  | 19   | 29   | 32   | 47   | 4    | 92   | 87   |
| 8/23/12 | 41             | 129                         | 109   | OFF  | 29   | OFF  | 21   | 31   | 29   | 36   | 3    | 88   | 83   |
| 9/7/12  | 38             | 116                         | 65  | OFF  | 33   | OFF  | 13   | 22   | 18   | 28   | 4    | 101  | 81   |
| 9/13/12 | 41             | 96                          | 71  | OFF  | 28   | OFF  | 11   | 24   | 16   | 22   | 3    | 95   | 75   |
| 9/21/12 | 40             | 79                          | 58  | OFF  | 26   | OFF  | 9    | 19   | 12   | 20   | 4    | 93   | 73   |
| 9/28/12 | 39             | 58                          | 44  | OFF  | 24   | OFF  | 10   | 15   | 14   | 18   | 5    | 102  | 68   |

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**LIM PROPERTY - 250 8TH STREET, OAKLAND, CALIFORNIA  
VAPOR-EXTRACTION SYSTEM LOG**

| DATE     | ASE VE SYSTEM |                   | VAPOR-EXTRACTION WELLS OVM CONCENTRATION IN PPMV*D167 |      |      |      |      |      |      |      |      |      |      |
|----------|---------------|-------------------|---|------|------|------|------|------|------|------|------|------|------|
|          | FLOW IN CFM   | INFLUENT IN PPMV* | VE-1  | VE-2 | VE-3 | VE-4 | VE-5 | VE-6 | VE-7 | VE-8 | VE-9 | MW-3 | MW-4 |
| 11/12/12 | 50            | 12                | 33  | 4    | 20   | 5    | 8    | 15   | 11   | 22   | 6    | 111  | 75   |
| 11/28/12 | 50            | 14                | 29  | 4    | 18   | 2    | 6    | 12   | 15   | 19   | 4    | 109  | 72   |
| 12/5/12  | 50            | 11                | 27  | 6    | 18   | 2    | 7    | 13   | 15   | 17   | 4    | 99   | 64   |
| 12/13/12 | 50            | 11                | 23  | 3    | 15   | 2    | 5    | 19   | 18   | 21   | 5    | 87   | 62   |
| 12/20/12 | 50            | 9                 | 19  | 3    | 11   | 4    | 8    | 12   | 21   | 17   | 4    | 113  | 66   |
| 1/7/13   | 50            | 19                | 17  | 2    | 9    | 2    | 7    | 11   | 12   | 16   | 3    | 101  | 71   |
| 1/14/13  | 50            | 11                | 16  | 5    | 9    | 3    | 5    | 16   | 13   | 15   | 4    | 99   | 66   |
| 1/24/13  | 50            | 8                 | 12  | 3    | 10   | 2    | 6    | 18   | 13   | 15   | 4    | 97   | 69   |
| 1/29/13  | 50            | 12                | 11  | 4    | 9    | 3    | 5    | 17   | 15   | 12   | 3    | 96   | 70   |
| 2/6/13   | 50            | 16                | 12  | 3    | 6    | 3    | 5    | 9    | 9    | 12   | 3    | 94   | 68   |
| 2/15/13  | 50            | 18                | 13  | 5    | 6    | 3    | 6    | 7    | 9    | 10   | 4    | 89   | 66   |
| 2/21/13  | 50            | 17                | 13  | 4    | 7    | 2    | 6    | 9    | 8    | 12   | 4    | 93   | 62   |
| 2/28/13  | 50            | 14                | 14  | 5    | 7    | 3    | 5    | 8    | 8    | 11   | 3    | 99   | 70   |
| 3/4/13   | 50            | 15                | 13  | 5    | 12   | 4    | 11   | 8    | 7    | 9    | 5    | 111  | 71   |
| 3/8/13   | 50            | 15                | 14  | 5    | 12   | 4    | 14   | 7    | 7    | 10   | 5    | 123  | 74   |
| 3/15/13  | 50            | 15                | 11  | 11   | 14   | 5    | 15   | 7    | 7    | 11   | 5    | 128  | 75   |
| 3/19/13  | 50            | 16                | 10  | 4    | 14   | 5    | 21   | 6    | 6    | 8    | 6    | 135  | 66   |
| 3/22/13  | 50            | 16                | 8   | 7    | 15   | 7    | 28   | 5    | 6    | 7    | 4    | 144  | 68   |
| 4/5/13   | 50            | 17                | 8   | 8    | 14   | 9    | 28   | 5    | 3    | 7    | 7    | 175  | 60   |
| 4/12/13  | 50            | 14                | 12  | 8    | 16   | 11   | 26   | 6    | 4    | 7    | 5    | 199  | 65   |
| 4/19/13  | 50            | 12                | 11  | 9    | 18   | 10   | 24   | 5    | 5    | 6    | 7    | 167  | 64   |
| 4/26/30  | 50            | 18                | 11  | 11   | 17   | 9    | 27   | 6    | 4    | 5    | 5    | 188  | 62   |
| 5/3/13   | 50            | 18                | 10  | 10   | 20   | 11   | 33   | 5    | 4    | 7    | 6    | 198  | 58   |
| 5/10/13  | 50            | 18                | 10  | 8    | 20   | 12   | 33   | 7    | 6    | 7    | 6    | 223  | 65   |
| 5/17/13  | 50            | 19                | 9   | 11   | 21   | 14   | 34   | 5    | 3    | 8    | 5    | 245  | 59   |
| 5/24/13  | 50            | 12                | 11  | 11   | 24   | 13   | 35   | 5    | 4    | 7    | 5    | 255  | 63   |
| 5/31/13  | 50            | 11                | 8   | 12   | 23   | 18   | 33   | 5    | 5    | 7    | 5    | 215  | 66   |
| 6/7/13   | 50            | 12                | 8   | 12   | 33   | 18   | 44   | 6    | 4    | 5    | 6    | 222  | 67   |
| 6/14/13  | 50            | 13                | 8   | 14   | 33   | 17   | 49   | 4    | 4    | 4    | 5    | 266  | 67   |
| 6/21/13  | 50            | 18                | 7   | 12   | 34   | 17   | 41   | 6    | 5    | 6    | 5    | 199  | 66   |
| 6/28/13  | 50            | 21                | 8   | 11   | 36   | 19   | 48   | 4    | 6    | 5    | 6    | 228  | 61   |

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**LIM PROPERTY - 250 8TH STREET, OAKLAND, CALIFORNIA  
VAPOR-EXTRACTION SYSTEM LOG**

| DATE    | ASE VE SYSTEM  |                      | VAPOR-EXTRACTION WELLS OVM CONCENTRATION IN PPMV* |      |      |      |      |      |      |      |      |      |      |
|---------|----------------|----------------------|---|------|------|------|------|------|------|------|------|------|------|
|         | FLOW IN<br>CFM | INFLUENT<br>IN PPMV* | VE-1  | VE-2 | VE-3 | VE-4 | VE-5 | VE-6 | VE-7 | VE-8 | VE-9 | MW-3 | MW-4 |
| 7/5/13  | 50             | 22                   | 7   | 10   | 44   | 20   | 50   | 4    | 6    | 7    | 6    | 265  | 65   |
| 7/12/13 | 50             | 21                   | 7   | 11   | 38   | 21   | 57   | 5    | 7    | 5    | 7    | 281  | 62   |
| 7/19/13 | 50             | 26                   | 5   | 11   | 39   | 24   | 55   | 4    | 8    | 6    | 7    | 244  | 63   |
| 7/26/13 | 50             | 24                   | 6   | 12   | 49   | 28   | 49   | 6    | 8    | 7    | 7    | 254  | 66   |
| 7/31/13 | 50             | 25                   | 5   | 11   | 56   | 19   | 50   | 7    | 9    | 6    | 7    | 310  | 59   |
| 8/2/13  | 50             | 27                   | 7   | 11   | 57   | 22   | 59   | 7    | 7    | 6    | 8    | 315  | 60   |
| 8/8/13  | 50             | 27                   | 6   | 13   | 68   | 27   | 55   | 8    | 9    | 7    | 8    | 330  | 67   |

NOTE:

The asterisk symbol (\*) denotes influent vapor concentrations using a photoionization detector.











# LIM PROPERTY - 250 8TH STREET, OAKLAND, CALIFORNIA

## HYDROCARBON VAPOR MEASUREMENT LOG

| HYDROCARBON CONCENTRATIONS IN PPMV* MEASURED WITH ORGANIC VAPOR METER |                         |       |                                       |          |           |   |                |                |                |                |                       |                       |                        |                   |                        |    |
|---|-------------------------|-------|---------------------------------------|----------|-----------|---|----------------|----------------|----------------|----------------|-----------------------|-----------------------|------------------------|-------------------|------------------------|----|
| DATE  | VAPOR MONITORING POINTS |       | METER BOXES (SITE SIDE OF 8TH STREET) |          |           | METER BOXES (OPPOSITE SIDE OF 8TH STREET) |                |                |                |                |                       |                       |                        |                   |                        |    |
|   | VMP-1                   | VMP-1 | PIPING<br>MANIFOLD                    | PG&E BOX | EBMUD BOX | GAS METER<br>1                            | GAS METER<br>2 | GAS METER<br>3 | EBMUD BOX<br>1 | EBMUD BOX<br>2 | OS-8/VE-6<br>WELL BOX | OS-9/VE-7<br>WELL BOX | OS-10/VE-8<br>WELL BOX | OS-11<br>WELL BOX | OS-12/VE-9<br>WELL BOX |    |
| 1/18/11   | 0                       | 0     | NM                                    | NM       | NM        | NM  | NM             | NM             | NM             | NM             | NM                    | NM                    | NM                     | NM                | NM                     | NM |
| 1/19/11   | 0                       | 0     | NM                                    | NM       | NM        | NM  | NM             | NM             | NM             | NM             | NM                    | NM                    | NM                     | NM                | NM                     | NM |
| 1/20/11   | 0                       | 0     | NM                                    | NM       | NM        | NM  | NM             | NM             | NM             | NM             | NM                    | NM                    | NM                     | NM                | NM                     | NM |
| 1/21/11   | 11                      | 21    | NM                                    | NM       | NM        | 10  | 8              | 11             | 5              | 7              | NM                    | NM                    | NM                     | NM                | NM                     | NM |
| 1/22/11   | 3                       | 7     | NM                                    | NM       | NM        | 12  | 11             | 8              | 4              | 6              | NM                    | NM                    | NM                     | NM                | NM                     | NM |
| 1/23/11   | 0                       | 0     | NM                                    | NM       | NM        | 0   | 0              | 0              | 0              | 0              | NM                    | NM                    | NM                     | NM                | NM                     | NM |
| 1/28/11   | 0                       | 0     | NM                                    | NM       | NM        | 0   | 0              | 0              | 0              | 0              | NM                    | NM                    | NM                     | NM                | NM                     | NM |
| 2/15/11   | 0                       | 0     | NM                                    | NM       | NM        | 0   | 0              | 0              | 0              | 0              | NM                    | NM                    | NM                     | NM                | NM                     | NM |
| 2/28/11   | 0                       | 0     | NM                                    | NM       | NM        | 0   | 0              | 0              | 0              | 0              | NM                    | NM                    | NM                     | NM                | NM                     | NM |
| 3/8/11  | 0                       | 0     | NM                                    | NM       | NM        | 0   | 0              | 0              | 0              | 0              | NM                    | NM                    | NM                     | NM                | NM                     | NM |
| 3/29/11   | 0                       | 0     | NM                                    | NM       | NM        | 0   | 0              | 0              | 0              | 0              | NM                    | NM                    | NM                     | NM                | NM                     | NM |
| 4/12/11   | 0                       | 0     | NM                                    | NM       | NM        | 0   | 0              | 0              | 0              | 0              | NM                    | NM                    | NM                     | NM                | NM                     | NM |
| 4/25/11   | 0                       | 0     | NM                                    | NM       | NM        | 0   | 0              | 0              | 0              | 0              | NM                    | NM                    | NM                     | NM                | NM                     | NM |
| 5/13/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 5/16/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 5/20/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 5/23/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 5/25/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 5/27/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 5/30/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 6/3/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 6/6/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 6/8/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 6/10/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 6/13/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 6/16/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 6/20/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 6/22/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 6/24/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 6/27/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 7/8/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 7/12/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 7/18/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 7/25/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 8/1/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 8/9/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 8/15/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 8/24/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |
| 8/29/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      | 0  |

Continued on Next Page

# LIM PROPERTY - 250 8TH STREET, OAKLAND, CALIFORNIA

## HYDROCARBON VAPOR MEASUREMENT LOG

| HYDROCARBON CONCENTRATIONS IN PPMV* MEASURED WITH ORGANIC VAPOR METER |                         |       |                                       |          |           |   |                |                |                |                |                       |                       |                        |                   |                        |
|---|-------------------------|-------|---------------------------------------|----------|-----------|---|----------------|----------------|----------------|----------------|-----------------------|-----------------------|------------------------|-------------------|------------------------|
| DATE  | VAPOR MONITORING POINTS |       | METER BOXES (SITE SIDE OF 8TH STREET) |          |           | METER BOXES (OPPOSITE SIDE OF 8TH STREET) |                |                |                |                |                       |                       |                        |                   |                        |
|   | VMP-1                   | VMP-1 | PIPING<br>MANIFOLD                    | PG&E BOX | EBMUD BOX | GAS METER<br>1                            | GAS METER<br>2 | GAS METER<br>3 | EBMUD BOX<br>1 | EBMUD BOX<br>2 | OS-8/VE-6<br>WELL BOX | OS-9/VE-7<br>WELL BOX | OS-10/VE-8<br>WELL BOX | OS-11<br>WELL BOX | OS-12/VE-9<br>WELL BOX |
| 9/7/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 9/12/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 9/20/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 9/27/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 10/3/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 10/10/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 10/18/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 10/25/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 11/1/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 11/7/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 11/14/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 11/22/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 11/30/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 12/5/11   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 12/12/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 12/20/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 12/30/11  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 1/5/12  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 1/10/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 1/16/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 1/23/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 1/31/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 2/7/12  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 2/13/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 2/20/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 2/27/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 3/6/12  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 3/12/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 3/19/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 3/26/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 4/2/12  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 4/9/12  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 4/16/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 4/25/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 5/4/12  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 5/8/12  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 5/14/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 5/22/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 5/29/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 6/4/12  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |

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# LIM PROPERTY - 250 8TH STREET, OAKLAND, CALIFORNIA

## HYDROCARBON VAPOR MEASUREMENT LOG

| HYDROCARBON CONCENTRATIONS IN PPMV* MEASURED WITH ORGANIC VAPOR METER |                         |       |                                       |          |           |   |                |                |                |                |                       |                       |                        |                   |                        |
|---|-------------------------|-------|---------------------------------------|----------|-----------|---|----------------|----------------|----------------|----------------|-----------------------|-----------------------|------------------------|-------------------|------------------------|
| DATE  | VAPOR MONITORING POINTS |       | METER BOXES (SITE SIDE OF 8TH STREET) |          |           | METER BOXES (OPPOSITE SIDE OF 8TH STREET) |                |                |                |                |                       |                       |                        |                   |                        |
|   | VMP-1                   | VMP-1 | PIPING<br>MANIFOLD                    | PG&E BOX | EBMUD BOX | GAS METER<br>1                            | GAS METER<br>2 | GAS METER<br>3 | EBMUD BOX<br>1 | EBMUD BOX<br>2 | OS-8/VE-6<br>WELL BOX | OS-9/VE-7<br>WELL BOX | OS-10/VE-8<br>WELL BOX | OS-11<br>WELL BOX | OS-12/VE-9<br>WELL BOX |
| 6/12/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 6/18/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 6/28/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 7/9/12  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 7/18/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 7/26/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 8/2/12  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 8/10/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 8/15/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 8/23/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 9/7/12  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 9/13/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 9/21/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 9/28/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 11/12/12  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 11/28/12  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 12/5/12   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 12/13/12  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 12/20/12  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 1/7/13  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 1/14/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 1/24/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 1/29/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 2/6/13  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 2/15/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 2/21/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 2/28/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 3/4/13  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 3/8/13  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 3/15/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 3/19/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 3/22/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 4/5/13  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 4/12/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 4/19/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 4/26/30   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 5/3/13  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 5/10/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |
| 5/17/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0              | 0              | 0              | 0              | 0                     | 0                     | 0                      | 0                 | 0                      |

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# LIM PROPERTY - 250 8TH STREET, OAKLAND, CALIFORNIA

## HYDROCARBON VAPOR MEASUREMENT LOG

| HYDROCARBON CONCENTRATIONS IN PPMV* MEASURED WITH ORGANIC VAPOR METER |                         |       |                                       |          |           |   |             |             |             |             |                    |                    |                     |                |                     |
|---|-------------------------|-------|---------------------------------------|----------|-----------|---|-------------|-------------|-------------|-------------|--------------------|--------------------|---------------------|----------------|---------------------|
| DATE  | VAPOR MONITORING POINTS |       | METER BOXES (SITE SIDE OF 8TH STREET) |          |           | METER BOXES (OPPOSITE SIDE OF 8TH STREET) |             |             |             |             |                    |                    |                     |                |                     |
|   | VMP-1                   | VMP-1 | PIPING MANIFOLD                       | PG&E BOX | EBMUD BOX | GAS METER 1                               | GAS METER 2 | GAS METER 3 | EBMUD BOX 1 | EBMUD BOX 2 | OS-8/VE-6 WELL BOX | OS-9/VE-7 WELL BOX | OS-10/VE-8 WELL BOX | OS-11 WELL BOX | OS-12/VE-9 WELL BOX |
| 5/24/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0           | 0           | 0           | 0           | 0                  | 0                  | 0                   | 0              | 0                   |
| 5/31/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0           | 0           | 0           | 0           | 0                  | 0                  | 0                   | 0              | 0                   |
| 6/7/13  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0           | 0           | 0           | 0           | 0                  | 0                  | 0                   | 0              | 0                   |
| 6/14/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0           | 0           | 0           | 0           | 0                  | 0                  | 0                   | 0              | 0                   |
| 6/21/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0           | 0           | 0           | 0           | 0                  | 0                  | 0                   | 0              | 0                   |
| 6/28/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0           | 0           | 0           | 0           | 0                  | 0                  | 0                   | 0              | 0                   |
| 7/5/13  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0           | 0           | 0           | 0           | 0                  | 0                  | 0                   | 0              | 0                   |
| 7/12/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0           | 0           | 0           | 0           | 0                  | 0                  | 0                   | 0              | 0                   |
| 7/19/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0           | 0           | 0           | 0           | 0                  | 0                  | 0                   | 0              | 0                   |
| 7/26/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0           | 0           | 0           | 0           | 0                  | 0                  | 0                   | 0              | 0                   |
| 7/31/13   | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0           | 0           | 0           | 0           | 0                  | 0                  | 0                   | 0              | 0                   |
| 8/2/13  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0           | 0           | 0           | 0           | 0                  | 0                  | 0                   | 0              | 0                   |
| 8/8/13  | 0                       | 0     | 0                                     | 0        | 0         | 0   | 0           | 0           | 0           | 0           | 0                  | 0                  | 0                   | 0              | 0                   |

**NOTE:**

NM = Not Measured

MASS EXTRACTION CALCULATIONS  
 LIM PROPERTY VAPOR EXTRACTION SYSTEM  
 250 8TH STREET, OAKLAND, CALIFORNIA

AIR BAG SAMPLE COLLECTED ON 1/29/13

| AVERAGE VAPOR EXTRACTION FLOW RATE | MULTIPLY | VOLUME CONVERSION FACTOR | MULTIPLY | TIME CONVERSION FACTOR | MULTIPLY | TPH-G CONCENTRATION IN INFLUENT SAMPLE | DIVIDE | MASS CONVERSION FACTOR | DIVIDE | MASS CONVERSION FACTOR | EQUALS | MASS TPH-G EXTRACTION RATE | EQUALS | MASS TPH-G EXTRACTION RATE |
|------------------------------------|----------|--------------------------|----------|------------------------|----------|--|--------|------------------------|--------|------------------------|--------|----------------------------|--------|----------------------------|
| CFM                                |          | l/cu. ft.                |          | min/day                |          | ug/l                                   |        | ugs/gm                 |        | gms/lb                 |        | lbs/day                    |        | gallons/day                |
| 50                                 |          | 28.32                    |          | 1,200                  |          | 190                                    |        | 1,000,000              |        | 454                    |        | 0.71                       |        | 0.11                       |

AIR BAG SAMPLE COLLECTED ON 8/8/13

| AVERAGE VAPOR EXTRACTION FLOW RATE | MULTIPLY | VOLUME CONVERSION FACTOR | MULTIPLY | TIME CONVERSION FACTOR | MULTIPLY | TPH-G CONCENTRATION IN INFLUENT SAMPLE | DIVIDE | MASS CONVERSION FACTOR | DIVIDE | MASS CONVERSION FACTOR | EQUALS | MASS TPH-G EXTRACTION RATE | EQUALS | MASS TPH-G EXTRACTION RATE |
|------------------------------------|----------|--------------------------|----------|------------------------|----------|--|--------|------------------------|--------|------------------------|--------|----------------------------|--------|----------------------------|
| CFM                                |          | l/cu. ft.                |          | min/day                |          | ug/l                                   |        | ugs/gm                 |        | gms/lb                 |        | lbs/day                    |        | gallons/day                |
| 50                                 |          | 28.32                    |          | 1,200                  |          | 1,400                                  |        | 1,000,000              |        | 454                    |        | 5.24                       |        | 0.84                       |

USING AN AVERAGE OF THE JANUARY 2013 AND AUGUST 2013 ANALYTICAL RESULTS

AIR BAG SAMPLE COLLECTED ON 8/8/13

| AVERAGE VAPOR EXTRACTION FLOW RATE | MULTIPLY | VOLUME CONVERSION FACTOR | MULTIPLY | TIME CONVERSION FACTOR | MULTIPLY | TPH-G CONCENTRATION IN INFLUENT SAMPLE | DIVIDE | MASS CONVERSION FACTOR | DIVIDE | MASS CONVERSION FACTOR | EQUALS | MASS TPH-G EXTRACTION RATE | EQUALS | MASS TPH-G EXTRACTION RATE |
|------------------------------------|----------|--------------------------|----------|------------------------|----------|--|--------|------------------------|--------|------------------------|--------|----------------------------|--------|----------------------------|
| CFM                                |          | l/cu. ft.                |          | min/day                |          | ug/l                                   |        | ugs/gm                 |        | gms/lb                 |        | lbs/day                    |        | gallons/day                |
| 50                                 |          | 28.32                    |          | 1,200                  |          | 795                                    |        | 1,000,000              |        | 454                    |        | 2.98                       |        | 0.48                       |

# GASOLINE EXTRACTION LOG

LIM FAMILY PROPERTY  
250 8th Street, Oakland, CA

| DATE   | TPH-G CONCENTRATION (ug/l) IN INFLUENT VAPOR SAMPLE | GALLONS OF GASOLINE EXTRACTED, PER DAY | NUMBER OF DAYS VE SYSTEM OPERATED IN MONTH | GALLONS OF GASOLINE EXTRACTED IN MONTH |
|--|---|--|--|--|
| 4/28/11  | 4600  | 2.75                                   | 30   | 82.5                                   |
| 5/26/11  | 4100  | 2.45                                   | 31   | 75.95                                  |
| 6/30/11  | 4900  | 2.93                                   | 30   | 87.9                                   |
| 7/31/11  | NA  | 2.75*                                  | 31   | 85.25                                  |
| 8/31/11  | NA  | 2.57*                                  | 31   | 79.67                                  |
| 9/30/11  | NA  | 2.39*                                  | 30   | 71.7                                   |
| 10/31/11   | NA  | 2.21*                                  | 31   | 68.51                                  |
| 11/30/11   | NA  | 2.03*                                  | 30   | 60.9                                   |
| 12/20/11   | 3100  | 1.85                                   | 31   | 57.38                                  |
| 1/31/12  | NA  | 1.55*                                  | 31   | 48.05                                  |
| 2/29/12  | NA  | 1.25*                                  | 29   | 36.25                                  |
| 3/31/12  | NA  | 0.95*                                  | 31   | 29.45                                  |
| 4/30/12  | NA  | 0.65*                                  | 30   | 19.5                                   |
| 5/31/12  | NA  | 0.35*                                  | 31   | 10.85                                  |
| 6/20/12  | 38  | 0.02                                   | 30   | 0.6                                    |
| TOTAL GALLONS OF GASOLINE REMOVED FROM VADOSE ZONE SINCE START-UP TO JUNE 2012 |   |  |  | <b>814.46</b>                          |

|   |      |       |     |              |
|---|------|-------|-----|--------------|
| 6/20/12   | 38   | 0.02  |     |              |
| 1/29/13   | 190  | 0.11  |     |              |
| AVERAGE OF 6/20/12 AND 1/29/13 AIR BAG RESULTS  | 114* | 0.07* | 145 | 10.15        |
| TOTAL GALLONS OF GASOLINE REMOVED FROM VADOSE ZONE SINCE BETWEEN JUNE 2012 AND JANUARY 2013 |      |       |     | <b>10.15</b> |

|   |      |       |     |              |
|---|------|-------|-----|--------------|
| 1/29/13   | 190  | 0.11  |     |              |
| 8/8/13  | 1400 | 0.84  |     |              |
| AVERAGE OF 1/29/13 AND 8/8/13 AIR BAG RESULTS   | 795* | 0.48* | 189 | 90.72        |
| TOTAL GALLONS OF GASOLINE REMOVED FROM VADOSE ZONE SINCE BETWEEN JANUARY 2013 AND AUGUST 2013 |      |       |     | <b>90.72</b> |

|  |  |  |  |               |
|--|--|--|--|---------------|
| <b>GRAND TOTAL, TO DATE, OF GALLONS OF GASOLINE REMOVED FROM THE VADOSE ZONE</b> |  |  |  | <b>915.33</b> |
|--|--|--|--|---------------|

NOTES:

1. NA means "not applicable." This is due to the fact that an air bag sample of the influent vapor stream was not collected on a monthly basis.
2. The asterisk symbol (\*) means this number is an estimate. Actual air bag TPH-G concentrations were not available due to lack of sampling
3. A flowrate of 50 cubic feet per minute was used to calculate daily extraction quantities





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## **APPENDIX C**

### Monitoring Well Sampling Logs

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

PROJECT NAME LIM

---

JOB NUMBER 2808 DATE OF SAMPLING 6.18.13

---

WELL ID. MW-1 SAMPLER DA

---

TOTAL DEPTH OF WELL 26.8 WELL DIAMETER 2

---

DEPTH TO WATER PRIOR TO PURGING 18.13 TIME OF MEASUREMENT

---

PRODUCT THICKNESS 0

---

DEPTH OF WELL CASING IN WATER 8.67

---

NUMBER OF GALLONS PER WELL CASING VOLUME 1.38

---

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

---

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 4

---

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

---

TIME EVACUATION STARTED 1115 TIME EVACUATION COMPLETED 1122

---

TIME SAMPLES WERE COLLECTED 1125

---

DID WELL GO DRY NO AFTER HOW MANY GALLONS -

---

VOLUME OF GROUNDWATER PURGED 4

---

SAMPLING DEVICE NEW DISPOSABLE BAILER

---

SAMPLE COLOR LT BRN ODOR/SEDIMENT SL HZ / SL

### CHEMICAL DATA

| VOLUME PURGED | TEMPERATURE | PH  | CONDUCTIVITY |
|---------------|-------------|-----|--------------|
| 1             | 19.9        | 6.1 | 660          |
| 2             | 17.9        | 6.3 |              |
| 3             | 20.2        | 6.0 | 640          |

### SAMPLES COLLECTED

| SAMPLE | # OF CONTAINERS | SIZE AND TYPE OF CONTAINER | ANALYSIS   | PRESERVED |
|--------|-----------------|----------------------------|------------|-----------|
| MW-1   | 5               | 40ml VOF                   | 82608/8011 | ✓         |
|        |                 |                            |            |           |
|        |                 |                            |            |           |

1

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

PROJECT NAME LIM

JOB NUMBER 2808 DATE OF SAMPLING 6.18.13

WELL ID. MW-2 SAMPLER DA

TOTAL DEPTH OF WELL 26.8 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 17.28 TIME OF MEASUREMENT

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 9.82

NUMBER OF GALLONS PER WELL CASING VOLUME 1.52

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 4.5

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 0945 TIME EVACUATION COMPLETED 0957

TIME SAMPLES WERE COLLECTED 1000

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 5

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR URBAN ODOR/SEDIMENT None / SLIGHT

### CHEMICAL DATA

| VOLUME PURGED | TEMPERATURE | PH  | CONDUCTIVITY |
|---------------|-------------|-----|--------------|
| 1             | 19.1        | 6.5 | 590          |
| 2             | 19.4        | 6.3 | 590          |
| 3             | 19.6        | 6.1 | 600          |

### SAMPLES COLLECTED

| SAMPLE | # OF CONTAINERS | SIZE AND TYPE OF CONTAINER | ANALYSIS   | PRESERVED |
|--------|-----------------|----------------------------|------------|-----------|
| MW-2   | 5               | 40ml VOF                   | 8260B/8015 | ✓         |
|        |                 |                            |            |           |
|        |                 |                            |            |           |

Brown orange purple water. No odor.

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

PROJECT NAME LIM

JOB NUMBER 2808 DATE OF SAMPLING 6.18.13

WELL ID. MW-3 SAMPLER DA

TOTAL DEPTH OF WELL 30.0 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 17.01 TIME OF MEASUREMENT

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 12.99

NUMBER OF GALLONS PER WELL CASING VOLUME 2.07

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 6.2

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 0835 TIME EVACUATION COMPLETED 0845

TIME SAMPLES WERE COLLECTED 0850

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 6.2

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR LT GRAY ODOR/SEDIMENT NO ODR / SLIGHT

### CHEMICAL DATA

| VOLUME PURGED | TEMPERATURE | PH  | CONDUCTIVITY |
|---------------|-------------|-----|--------------|
| 1             | 18.8        | 6.5 | 610          |
| 2             | 18.8        | 6.4 | 620          |
| 3             | 18.9        | 6.4 | 610          |

### SAMPLES COLLECTED

| SAMPLE | # OF CONTAINERS | SIZE AND TYPE OF CONTAINER | ANALYSIS   | PRESERVED |
|--------|-----------------|----------------------------|------------|-----------|
| MW-3   | 5               | 40 ml VOF                  | 8260B/8015 | ✓         |
|        |                 |                            |            |           |
|        |                 |                            |            |           |

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

PROJECT NAME LIM

JOB NUMBER 2808 DATE OF SAMPLING 6.18.13

WELL ID. MW-4R SAMPLER DA

TOTAL DEPTH OF WELL 28.0 WELL DIAMETER 4

DEPTH TO WATER PRIOR TO PURGING 17.60 TIME OF MEASUREMENT

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 10.4

NUMBER OF GALLONS PER WELL CASING VOLUME 1.66

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 5

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 0805 TIME EVACUATION COMPLETED 0825

TIME SAMPLES WERE COLLECTED 0830

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR LT GRAY ODOR/SEDIMENT SL HZ / SL

### CHEMICAL DATA

| VOLUME PURGED | TEMPERATURE | PH   | CONDUCTIVITY |
|---------------|-------------|------|--------------|
| 1             | 18.8        | 6.50 | 510          |
| 2             | 18.8        | 6.6  | 520          |
| 3             | 18.8        | 6.6  | 520          |

### SAMPLES COLLECTED

| SAMPLE | # OF CONTAINERS | SIZE AND TYPE OF CONTAINER | ANALYSIS   | PRESERVED |
|--------|-----------------|----------------------------|------------|-----------|
| MW-4R  | 5               | 40 ml VOF                  | 8260B/8015 | ✓         |
|        |                 |                            |            |           |
|        |                 |                            |            |           |

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

PROJECT NAME LIM

---

JOB NUMBER 2808 DATE OF SAMPLING 6.18.13

---

WELL ID. MW-5 SAMPLER DA

---

TOTAL DEPTH OF WELL 29.6 WELL DIAMETER 2

---

DEPTH TO WATER PRIOR TO PURGING 17.48 TIME OF MEASUREMENT

---

PRODUCT THICKNESS 0

---

DEPTH OF WELL CASING IN WATER 12.12

---

NUMBER OF GALLONS PER WELL CASING VOLUME 1.93

---

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

---

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 5.8

---

EQUIPMENT USED TO PURGE WELL 0 NEW DISPOSABLE BAILER

---

TIME EVACUATION STARTED 0900 TIME EVACUATION COMPLETED 0912

---

TIME SAMPLES WERE COLLECTED 0915

---

DID WELL GO DRY No AFTER HOW MANY GALLONS —

---

VOLUME OF GROUNDWATER PURGED 6

---

SAMPLING DEVICE NEW DISPOSABLE BAILER

---

SAMPLE COLOR CLEAR ODOR/SEDIMENT N-O-N-O

### CHEMICAL DATA

| VOLUME PURGED | TEMPERATURE | PH  | CONDUCTIVITY |
|---------------|-------------|-----|--------------|
| 1             | 18.9        | 6.7 | 560          |
| 2             | 18.9        | 6.5 | 540          |
| 3             | 18.9        | 6.5 | 540          |

### SAMPLES COLLECTED

| SAMPLE | # OF CONTAINERS | SIZE AND TYPE OF CONTAINER | ANALYSIS  | PRESERVED |
|--------|-----------------|----------------------------|-----------|-----------|
| MW-5   | 5               | 40 ml VOF                  | 8260B/SOL | ✓         |
|        |                 |                            |           |           |
|        |                 |                            |           |           |

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

PROJECT NAME LIM

JOB NUMBER 2808 DATE OF SAMPLING 6.18.13

WELL ID. MW-6 SAMPLER DA

TOTAL DEPTH OF WELL 29.5 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 17.69 TIME OF MEASUREMENT

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 11.81

NUMBER OF GALLONS PER WELL CASING VOLUME 1.88

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 5.66

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 1015 TIME EVACUATION COMPLETED 1025

TIME SAMPLES WERE COLLECTED 1030

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 0

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR LTBN ODOR/SEDIMENT NO/SC

### CHEMICAL DATA

| VOLUME PURGED | TEMPERATURE | PH  | CONDUCTIVITY |
|---------------|-------------|-----|--------------|
| 1             | 18.9        | 6.7 | 76           |
| 2             | 19.1        | 6.5 | 70           |
| 3             | 19.1        | 6.6 | 70           |

### SAMPLES COLLECTED

| SAMPLE | # OF CONTAINERS | SIZE AND TYPE OF CONTAINER | ANALYSIS   | PRESERVED |
|--------|-----------------|----------------------------|------------|-----------|
| MW-6   | 5               | 40ml VOF                   | 8260B/8015 | ✓         |
|        |                 |                            |            |           |
|        |                 |                            |            |           |

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

|   |                       |                           |            |
|---|-----------------------|---------------------------|------------|
| PROJECT NAME  | LIM                   |                           |            |
| JOB NUMBER  | 2808                  | DATE OF SAMPLING          | 6.18.13    |
| WELL ID.  | MW-7                  | SAMPLER                   | DA         |
| TOTAL DEPTH OF WELL   | 28.0                  | WELL DIAMETER             | 2          |
| DEPTH TO WATER PRIOR TO PURGING                               | 18.02                 | TIME OF MEASUREMENT       |            |
| PRODUCT THICKNESS   | Ø                     |                           |            |
| DEPTH OF WELL CASING IN WATER                                 | 9.98                  |                           |            |
| NUMBER OF GALLONS PER WELL CASING VOLUME                      | 1.6                   |                           |            |
| NUMBER OF WELL CASING VOLUMES TO BE REMOVED                   | 3                     |                           |            |
| REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING | 4.8                   |                           |            |
| EQUIPMENT USED TO PURGE WELL                                  | NEW DISPOSABLE BAILER |                           |            |
| TIME EVACUATION STARTED                                       | 0920                  | TIME EVACUATION COMPLETED | 0932       |
| TIME SAMPLES WERE COLLECTED                                   | 0935                  |                           |            |
| DID WELL GO DRY   | NO                    | AFTER HOW MANY GALLONS    | —          |
| VOLUME OF GROUNDWATER PURGED                                  | 5                     |                           |            |
| SAMPLING DEVICE   | NEW DISPOSABLE BAILER |                           |            |
| SAMPLE COLOR  | LT GRAY               | ODOR/SEDIMENT             | SL HC / SL |

### CHEMICAL DATA

| VOLUME PURGED | TEMPERATURE | PH  | CONDUCTIVITY |
|---------------|-------------|-----|--------------|
| 1             | 18.9        | 6.6 | 770          |
| 2             | 18.9        | 6.5 | 740          |
| 3             | 18.9        | 6.5 | 710          |

### SAMPLES COLLECTED

| SAMPLE | # OF CONTAINERS | SIZE AND TYPE OF CONTAINER | ANALYSIS   | PRESERVED |
|--------|-----------------|----------------------------|------------|-----------|
| MW-7   | 5               | 40 ml VOF                  | 8260B/8015 | ✓         |
|        |                 |                            |            |           |
|        |                 |                            |            |           |

BLACK, SULFUR ODOR WHILE PURGING



# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

PROJECT NAME LIM

JOB NUMBER 2808 DATE OF SAMPLING 6.18.13

WELL ID. MW-8 SAMPLER DA

TOTAL DEPTH OF WELL 49.0 WELL DIAMETER 1.2

DEPTH TO WATER PRIOR TO PURGING 22.44 TIME OF MEASUREMENT

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 26.56

NUMBER OF GALLONS PER WELL CASING VOLUME 4.25

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 12.75

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 1040 TIME EVACUATION COMPLETED 1055

TIME SAMPLES WERE COLLECTED 1100

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 13

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR Clear ODOR/SEDIMENT NO/NO

14

### CHEMICAL DATA

| VOLUME PURGED | TEMPERATURE | PH  | CONDUCTIVITY |
|---------------|-------------|-----|--------------|
| 1             | 21.1        | 6.8 | 360          |
| 2             | 21.2        | 6.7 | 370          |
| 3             | 21.2        | 6.7 | 360          |

### SAMPLES COLLECTED

| SAMPLE | # OF CONTAINERS | SIZE AND TYPE OF CONTAINER | ANALYSIS   | PRESERVED |
|--------|-----------------|----------------------------|------------|-----------|
| MW-8   | 5               | 40 ml VOF                  | 82608/8015 | ✓         |
|        |                 |                            |            |           |
|        |                 |                            |            |           |



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## **APPENDIX D**

Certified Analytical Report  
and  
Chain of Custody Documentation  
for  
Groundwater Samples

## Laboratory Results


David Allen  
Aqua Science Engineers, Inc.  
55 Oak Court, Suite 220  
Danville, CA 94526

Subject : 8 Water Samples  
Project Name : LIM  
Project Number : 2808

Dear Mr. Allen,

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. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Troy Turpen



Report Number : 85194

Date : 06/27/2013

Project Name : **LIM**

Project Number : **2808**

Sample : **MW-1**

Matrix : Water

Lab Number : 85194-01

Sample Date :06/18/2013

| Parameter                         | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date/Time Analyzed |
|-----------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| <b>Benzene</b>                    | <b>1.5</b>     | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:03     |
| Toluene                           | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:03     |
| Ethylbenzene                      | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:03     |
| Total Xylenes                     | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:03     |
| Methyl-t-butyl ether (MTBE)       | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:03     |
| <b>Diisopropyl ether (DIPE)</b>   | <b>0.52</b>    | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:03     |
| Ethyl-t-butyl ether (ETBE)        | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:03     |
| Tert-amyl methyl ether (TAME)     | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:03     |
| Tert-Butanol                      | < 5.0          | 5.0                    | ug/L       | EPA 8260B       | 06/21/13 22:03     |
| <b>TPH as Gasoline</b>            | <b>370</b>     | 50                     | ug/L       | EPA 8260B       | 06/21/13 22:03     |
| 1,2-Dichloroethane                | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:03     |
| 1,2-Dibromoethane                 | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:03     |
| 1,2-Dichloroethane-d4 (Surr)      | 95.2           |                        | % Recovery | EPA 8260B       | 06/21/13 22:03     |
| Toluene - d8 (Surr)               | 97.4           |                        | % Recovery | EPA 8260B       | 06/21/13 22:03     |
| <b>TPH as Diesel (Silica Gel)</b> | <b>84</b>      | 50                     | ug/L       | M EPA 8015      | 06/27/13 01:07     |
| Octacosane (Silica Gel Surr)      | 116            |                        | % Recovery | M EPA 8015      | 06/27/13 01:07     |

Project Name : **LIM**

Project Number : **2808**

Sample : **MW-2**

Matrix : Water

Lab Number : 85194-02

Sample Date :06/18/2013

| Parameter                         | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date/Time Analyzed |
|-----------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| <b>Benzene</b>                    | <b>2400</b>    | 4.0                    | ug/L       | EPA 8260B       | 06/26/13 15:51     |
| <b>Toluene</b>                    | <b>7.8</b>     | 4.0                    | ug/L       | EPA 8260B       | 06/26/13 15:51     |
| <b>Ethylbenzene</b>               | <b>80</b>      | 4.0                    | ug/L       | EPA 8260B       | 06/26/13 15:51     |
| <b>Total Xylenes</b>              | <b>31</b>      | 4.0                    | ug/L       | EPA 8260B       | 06/26/13 15:51     |
| Methyl-t-butyl ether (MTBE)       | < 1.5          | 1.5                    | ug/L       | EPA 8260B       | 06/25/13 04:59     |
| <b>Diisopropyl ether (DIPE)</b>   | <b>7.8</b>     | 1.5                    | ug/L       | EPA 8260B       | 06/25/13 04:59     |
| Ethyl-t-butyl ether (ETBE)        | < 1.5          | 1.5                    | ug/L       | EPA 8260B       | 06/25/13 04:59     |
| Tert-amyl methyl ether (TAME)     | < 1.5          | 1.5                    | ug/L       | EPA 8260B       | 06/25/13 04:59     |
| <b>Tert-Butanol</b>               | <b>17</b>      | 7.0                    | ug/L       | EPA 8260B       | 06/25/13 04:59     |
| <b>TPH as Gasoline</b>            | <b>5300</b>    | 150                    | ug/L       | EPA 8260B       | 06/25/13 04:59     |
| 1,2-Dichloroethane                | < 1.5          | 1.5                    | ug/L       | EPA 8260B       | 06/25/13 04:59     |
| 1,2-Dibromoethane                 | < 1.5          | 1.5                    | ug/L       | EPA 8260B       | 06/25/13 04:59     |
| 1,2-Dichloroethane-d4 (Surr)      | 93.9           |                        | % Recovery | EPA 8260B       | 06/25/13 04:59     |
| Toluene - d8 (Surr)               | 95.8           |                        | % Recovery | EPA 8260B       | 06/25/13 04:59     |
| <b>TPH as Diesel (Silica Gel)</b> | <b>88</b>      | 50                     | ug/L       | M EPA 8015      | 06/27/13 01:41     |
| Octacosane (Silica Gel Surr)      | 92.7           |                        | % Recovery | M EPA 8015      | 06/27/13 01:41     |

Project Name : **LIM**

Project Number : **2808**

Sample : **MW-3**

Matrix : Water

Lab Number : 85194-03

Sample Date :06/18/2013

| Parameter   | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date/Time Analyzed |
|---|----------------|------------------------|------------|-----------------|--------------------|
| <b>Benzene</b>  | <b>6700</b>    | 10                     | ug/L       | EPA 8260B       | 06/25/13 13:43     |
| <b>Toluene</b>  | <b>7900</b>    | 10                     | ug/L       | EPA 8260B       | 06/25/13 13:43     |
| <b>Ethylbenzene</b>   | <b>2000</b>    | 10                     | ug/L       | EPA 8260B       | 06/25/13 13:43     |
| <b>Total Xylenes</b>  | <b>15000</b>   | 25                     | ug/L       | EPA 8260B       | 06/26/13 00:21     |
| Methyl-t-butyl ether (MTBE)   | < 10           | 10                     | ug/L       | EPA 8260B       | 06/25/13 13:43     |
| Diisopropyl ether (DIPE)  | < 10           | 10                     | ug/L       | EPA 8260B       | 06/25/13 13:43     |
| Ethyl-t-butyl ether (ETBE)  | < 10           | 10                     | ug/L       | EPA 8260B       | 06/25/13 13:43     |
| Tert-amyl methyl ether (TAME)   | < 10           | 10                     | ug/L       | EPA 8260B       | 06/25/13 13:43     |
| Tert-Butanol  | < 50           | 50                     | ug/L       | EPA 8260B       | 06/25/13 13:43     |
| <b>TPH as Gasoline</b>  | <b>100000</b>  | 2500                   | ug/L       | EPA 8260B       | 06/26/13 00:21     |
| 1,2-Dichloroethane  | < 10           | 10                     | ug/L       | EPA 8260B       | 06/25/13 13:43     |
| 1,2-Dibromoethane   | < 10           | 10                     | ug/L       | EPA 8260B       | 06/25/13 13:43     |
| 1,2-Dichloroethane-d4 (Surr)  | 89.6           |                        | % Recovery | EPA 8260B       | 06/25/13 13:43     |
| Toluene - d8 (Surr)   | 95.9           |                        | % Recovery | EPA 8260B       | 06/25/13 13:43     |
| <b>TPH as Diesel (Silica Gel)</b>                                     | <b>220000</b>  | 1000                   | ug/L       | M EPA 8015      | 06/27/13 13:28     |
| (Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.) |                |                        |            |                 |                    |
| Octacosane (Silica Gel Surr)  | Diluted Out    |                        | % Recovery | M EPA 8015      | 06/27/13 13:28     |



Report Number : 85194

Date : 06/27/2013

Project Name : **LIM**

Project Number : **2808**

Sample : **MW-4R**

Matrix : Water

Lab Number : 85194-04

Sample Date :06/18/2013

| Parameter                          | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date/Time Analyzed |
|------------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| <b>Benzene</b>                     | <b>37</b>      | 0.50                   | ug/L       | EPA 8260B       | 06/26/13 02:41     |
| <b>Toluene</b>                     | <b>33</b>      | 0.50                   | ug/L       | EPA 8260B       | 06/26/13 02:41     |
| <b>Ethylbenzene</b>                | <b>10</b>      | 0.50                   | ug/L       | EPA 8260B       | 06/26/13 02:41     |
| <b>Total Xylenes</b>               | <b>400</b>     | 0.50                   | ug/L       | EPA 8260B       | 06/26/13 02:41     |
| <b>Methyl-t-butyl ether (MTBE)</b> | <b>1.5</b>     | 0.50                   | ug/L       | EPA 8260B       | 06/26/13 02:41     |
| <b>Diisopropyl ether (DIPE)</b>    | <b>2.5</b>     | 0.50                   | ug/L       | EPA 8260B       | 06/26/13 02:41     |
| Ethyl-t-butyl ether (ETBE)         | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/26/13 02:41     |
| Tert-amyl methyl ether (TAME)      | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/26/13 02:41     |
| <b>Tert-Butanol</b>                | <b>120</b>     | 5.0                    | ug/L       | EPA 8260B       | 06/26/13 02:41     |
| <b>TPH as Gasoline</b>             | <b>3800</b>    | 50                     | ug/L       | EPA 8260B       | 06/26/13 02:41     |
| <b>1,2-Dichloroethane</b>          | <b>7.2</b>     | 0.50                   | ug/L       | EPA 8260B       | 06/26/13 02:41     |
| 1,2-Dibromoethane                  | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/26/13 02:41     |
| 1,2-Dichloroethane-d4 (Surr)       | 96.3           |                        | % Recovery | EPA 8260B       | 06/26/13 02:41     |
| Toluene - d8 (Surr)                | 98.0           |                        | % Recovery | EPA 8260B       | 06/26/13 02:41     |
| <b>TPH as Diesel (Silica Gel)</b>  | <b>110</b>     | 50                     | ug/L       | M EPA 8015      | 06/27/13 02:16     |
| Octacosane (Silica Gel Surr)       | 105            |                        | % Recovery | M EPA 8015      | 06/27/13 02:16     |

Project Name : **LIM**

Project Number : **2808**

Sample : **MW-5**

Matrix : Water

Lab Number : 85194-05

Sample Date :06/18/2013

| Parameter                     | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date/Time Analyzed |
|-------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene                       | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:35     |
| Toluene                       | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:35     |
| Ethylbenzene                  | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:35     |
| Total Xylenes                 | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:35     |
| Methyl-t-butyl ether (MTBE)   | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:35     |
| Diisopropyl ether (DIPE)      | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:35     |
| Ethyl-t-butyl ether (ETBE)    | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:35     |
| Tert-amyl methyl ether (TAME) | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:35     |
| Tert-Butanol                  | < 5.0          | 5.0                    | ug/L       | EPA 8260B       | 06/21/13 22:35     |
| TPH as Gasoline               | < 50           | 50                     | ug/L       | EPA 8260B       | 06/21/13 22:35     |
| 1,2-Dichloroethane            | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:35     |
| 1,2-Dibromoethane             | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 22:35     |
| 1,2-Dichloroethane-d4 (Surr)  | 96.2           |                        | % Recovery | EPA 8260B       | 06/21/13 22:35     |
| Toluene - d8 (Surr)           | 97.1           |                        | % Recovery | EPA 8260B       | 06/21/13 22:35     |
| TPH as Diesel (Silica Gel)    | < 50           | 50                     | ug/L       | M EPA 8015      | 06/27/13 13:13     |
| Octacosane (Silica Gel Surr)  | 105            |                        | % Recovery | M EPA 8015      | 06/27/13 13:13     |



Project Name : **LIM**

Project Number : **2808**

Sample : **MW-6**

Matrix : Water

Lab Number : 85194-06

Sample Date :06/18/2013

| Parameter                     | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date/Time Analyzed |
|-------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene                       | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 23:08     |
| Toluene                       | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 23:08     |
| Ethylbenzene                  | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 23:08     |
| Total Xylenes                 | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 23:08     |
| Methyl-t-butyl ether (MTBE)   | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 23:08     |
| Diisopropyl ether (DIPE)      | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 23:08     |
| Ethyl-t-butyl ether (ETBE)    | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 23:08     |
| Tert-amyl methyl ether (TAME) | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 23:08     |
| Tert-Butanol                  | < 5.0          | 5.0                    | ug/L       | EPA 8260B       | 06/21/13 23:08     |
| TPH as Gasoline               | < 50           | 50                     | ug/L       | EPA 8260B       | 06/21/13 23:08     |
| 1,2-Dichloroethane            | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 23:08     |
| 1,2-Dibromoethane             | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/21/13 23:08     |
| 1,2-Dichloroethane-d4 (Surr)  | 96.2           |                        | % Recovery | EPA 8260B       | 06/21/13 23:08     |
| Toluene - d8 (Surr)           | 97.6           |                        | % Recovery | EPA 8260B       | 06/21/13 23:08     |
| TPH as Diesel (Silica Gel)    | < 50           | 50                     | ug/L       | M EPA 8015      | 06/27/13 13:42     |
| Octacosane (Silica Gel Surr)  | 87.0           |                        | % Recovery | M EPA 8015      | 06/27/13 13:42     |

Project Name : **LIM**

Project Number : **2808**

Sample : **MW-7**

Matrix : Water

Lab Number : 85194-07

Sample Date :06/18/2013

| Parameter   | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date/Time Analyzed |
|---|----------------|------------------------|------------|-----------------|--------------------|
| <b>Benzene</b>  | <b>19</b>      | 0.90                   | ug/L       | EPA 8260B       | 06/26/13 01:24     |
| <b>Toluene</b>  | <b>22</b>      | 0.90                   | ug/L       | EPA 8260B       | 06/26/13 01:24     |
| <b>Ethylbenzene</b>   | <b>310</b>     | 0.90                   | ug/L       | EPA 8260B       | 06/26/13 01:24     |
| <b>Total Xylenes</b>  | <b>390</b>     | 0.90                   | ug/L       | EPA 8260B       | 06/26/13 01:24     |
| Methyl-t-butyl ether (MTBE)   | < 0.90         | 0.90                   | ug/L       | EPA 8260B       | 06/26/13 01:24     |
| Diisopropyl ether (DIPE)  | < 0.90         | 0.90                   | ug/L       | EPA 8260B       | 06/26/13 01:24     |
| Ethyl-t-butyl ether (ETBE)  | < 0.90         | 0.90                   | ug/L       | EPA 8260B       | 06/26/13 01:24     |
| Tert-amyl methyl ether (TAME)   | < 0.90         | 0.90                   | ug/L       | EPA 8260B       | 06/26/13 01:24     |
| <b>Tert-Butanol</b>   | <b>6.3</b>     | 5.0                    | ug/L       | EPA 8260B       | 06/26/13 01:24     |
| <b>TPH as Gasoline</b>  | <b>6000</b>    | 90                     | ug/L       | EPA 8260B       | 06/26/13 01:24     |
| 1,2-Dichloroethane  | < 0.90         | 0.90                   | ug/L       | EPA 8260B       | 06/26/13 01:24     |
| 1,2-Dibromoethane   | < 0.90         | 0.90                   | ug/L       | EPA 8260B       | 06/26/13 01:24     |
| 1,2-Dichloroethane-d4 (Surr)  | 99.2           |                        | % Recovery | EPA 8260B       | 06/26/13 01:24     |
| Toluene - d8 (Surr)   | 99.2           |                        | % Recovery | EPA 8260B       | 06/26/13 01:24     |
| <b>TPH as Diesel (Silica Gel)</b>   | <b>250</b>     | 50                     | ug/L       | M EPA 8015      | 06/27/13 04:00     |
| (Note: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.) |                |                        |            |                 |                    |
| Octacosane (Silica Gel Surr)  | 110            |                        | % Recovery | M EPA 8015      | 06/27/13 04:00     |

Project Name : **LIM**

Project Number : **2808**

Sample : **MW-8**

Matrix : Water

Lab Number : 85194-08

Sample Date :06/18/2013

| Parameter                         | Measured Value | Method Reporting Limit | Units      | Analysis Method | Date/Time Analyzed |
|-----------------------------------|----------------|------------------------|------------|-----------------|--------------------|
| Benzene                           | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/24/13 11:38     |
| Toluene                           | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/24/13 11:38     |
| Ethylbenzene                      | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/24/13 11:38     |
| Total Xylenes                     | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/24/13 11:38     |
| Methyl-t-butyl ether (MTBE)       | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/24/13 11:38     |
| Diisopropyl ether (DIPE)          | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/24/13 11:38     |
| Ethyl-t-butyl ether (ETBE)        | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/24/13 11:38     |
| Tert-amyl methyl ether (TAME)     | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/24/13 11:38     |
| Tert-Butanol                      | < 5.0          | 5.0                    | ug/L       | EPA 8260B       | 06/24/13 11:38     |
| TPH as Gasoline                   | < 50           | 50                     | ug/L       | EPA 8260B       | 06/24/13 11:38     |
| 1,2-Dichloroethane                | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/24/13 11:38     |
| 1,2-Dibromoethane                 | < 0.50         | 0.50                   | ug/L       | EPA 8260B       | 06/24/13 11:38     |
| 1,2-Dichloroethane-d4 (Surr)      | 103            |                        | % Recovery | EPA 8260B       | 06/24/13 11:38     |
| Toluene - d8 (Surr)               | 96.9           |                        | % Recovery | EPA 8260B       | 06/24/13 11:38     |
| <b>TPH as Diesel (Silica Gel)</b> | <b>83</b>      | 50                     | ug/L       | M EPA 8015      | 06/27/13 04:34     |
| Octacosane (Silica Gel Surr)      | 102            |                        | % Recovery | M EPA 8015      | 06/27/13 04:34     |

## QC Report : Method Blank Data

Project Name : LIM

Project Number : 2808

| Parameter                     | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed | Parameter                     | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-------------------------------|----------------|------------------------|-------|-----------------|---------------|-------------------------------|----------------|------------------------|-------|-----------------|---------------|
| TPH as Diesel (Silica Gel)    | < 50           | 50                     | ug/L  | M EPA 8015      | 06/26/2013    | Benzene                       | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/26/2013    |
| Octacosane (Silica Gel Surr)  | 119            |                        | %     | M EPA 8015      | 06/26/2013    | Ethylbenzene                  | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/26/2013    |
| TPH as Diesel (Silica Gel)    | < 50           | 50                     | ug/L  | M EPA 8015      | 06/27/2013    | Toluene                       | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/26/2013    |
| Octacosane (Silica Gel Surr)  | 107            |                        | %     | M EPA 8015      | 06/27/2013    | Total Xylenes                 | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/26/2013    |
| Benzene                       | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/24/2013    | Benzene                       | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| Ethylbenzene                  | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/24/2013    | Ethylbenzene                  | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| Toluene                       | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/24/2013    | Toluene                       | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| Total Xylenes                 | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/24/2013    | Total Xylenes                 | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| Diisopropyl ether (DIPE)      | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/24/2013    | Diisopropyl ether (DIPE)      | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| Ethyl-t-butyl ether (ETBE)    | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/24/2013    | Ethyl-t-butyl ether (ETBE)    | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| Methyl-t-butyl ether (MTBE)   | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/24/2013    | Methyl-t-butyl ether (MTBE)   | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| Tert-Butanol                  | < 5.0          | 5.0                    | ug/L  | EPA 8260B       | 06/24/2013    | Tert-Butanol                  | < 5.0          | 5.0                    | ug/L  | EPA 8260B       | 06/25/2013    |
| Tert-amyl methyl ether (TAME) | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/24/2013    | Tert-amyl methyl ether (TAME) | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| TPH as Gasoline               | < 50           | 50                     | ug/L  | EPA 8260B       | 06/24/2013    | TPH as Gasoline               | < 50           | 50                     | ug/L  | EPA 8260B       | 06/25/2013    |
| 1,2-Dibromoethane             | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/24/2013    | 1,2-Dibromoethane             | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| 1,2-Dichloroethane            | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/24/2013    | 1,2-Dichloroethane            | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| 1,2-Dichloroethane-d4 (Surr)  | 98.7           |                        | %     | EPA 8260B       | 06/24/2013    | 1,2-Dichloroethane-d4 (Surr)  | 99.7           |                        | %     | EPA 8260B       | 06/25/2013    |
| Toluene - d8 (Surr)           | 97.0           |                        | %     | EPA 8260B       | 06/24/2013    | Toluene - d8 (Surr)           | 99.2           |                        | %     | EPA 8260B       | 06/25/2013    |
|                               |                |                        |       |                 |               | Benzene                       | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/21/2013    |
|                               |                |                        |       |                 |               | Ethylbenzene                  | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/21/2013    |
|                               |                |                        |       |                 |               | Toluene                       | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/21/2013    |
|                               |                |                        |       |                 |               | Total Xylenes                 | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/21/2013    |
|                               |                |                        |       |                 |               | Diisopropyl ether (DIPE)      | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/21/2013    |
|                               |                |                        |       |                 |               | Ethyl-t-butyl ether (ETBE)    | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/21/2013    |
|                               |                |                        |       |                 |               | Methyl-t-butyl ether (MTBE)   | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/21/2013    |
|                               |                |                        |       |                 |               | Tert-Butanol                  | < 5.0          | 5.0                    | ug/L  | EPA 8260B       | 06/21/2013    |
|                               |                |                        |       |                 |               | Tert-amyl methyl ether (TAME) | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/21/2013    |
|                               |                |                        |       |                 |               | TPH as Gasoline               | < 50           | 50                     | ug/L  | EPA 8260B       | 06/21/2013    |
|                               |                |                        |       |                 |               | 1,2-Dibromoethane             | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/21/2013    |
|                               |                |                        |       |                 |               | 1,2-Dichloroethane            | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/21/2013    |
|                               |                |                        |       |                 |               | 1,2-Dichloroethane-d4 (Surr)  | 95.6           |                        | %     | EPA 8260B       | 06/21/2013    |

**QC Report : Method Blank Data**Project Name : **LIM**Project Number : **2808**

| Parameter                     | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-------------------------------|----------------|------------------------|-------|-----------------|---------------|
| Toluene - d8 (Surr)           | 97.3           |                        | %     | EPA 8260B       | 06/21/2013    |
| Benzene                       | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| Ethylbenzene                  | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| Toluene                       | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| Total Xylenes                 | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| Diisopropyl ether (DIPE)      | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| Ethyl-t-butyl ether (ETBE)    | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| Methyl-t-butyl ether (MTBE)   | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| Tert-Butanol                  | < 5.0          | 5.0                    | ug/L  | EPA 8260B       | 06/25/2013    |
| Tert-amyl methyl ether (TAME) | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| TPH as Gasoline               | < 50           | 50                     | ug/L  | EPA 8260B       | 06/25/2013    |
| 1,2-Dibromoethane             | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| 1,2-Dichloroethane            | < 0.50         | 0.50                   | ug/L  | EPA 8260B       | 06/25/2013    |
| 1,2-Dichloroethane-d4 (Surr)  | 99.4           |                        | %     | EPA 8260B       | 06/25/2013    |
| Toluene - d8 (Surr)           | 99.7           |                        | %     | EPA 8260B       | 06/25/2013    |

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|-----------|----------------|------------------------|-------|-----------------|---------------|
|-----------|----------------|------------------------|-------|-----------------|---------------|

## 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-D (Si Gel)         | BLANK         | <50          | 1000        | 1000             | 1000                | 1060                          | ug/L  | M EPA 8015      | 6/26/13       | 100                          | 106                                    | 5.06                   | 70-130                             | 25                           |
| 1,2-Dibromoethane      | 85194-08      | <0.50        | 40.0        | 39.9             | 36.4                | 38.8                          | ug/L  | EPA 8260B       | 6/24/13       | 91.0                         | 97.1                                   | 6.45                   | 70.0-130                           | 25                           |
| 1,2-Dichloroethane     | 85194-08      | <0.50        | 39.9        | 39.8             | 32.7                | 34.1                          | ug/L  | EPA 8260B       | 6/24/13       | 81.9                         | 85.6                                   | 4.46                   | 70.0-130                           | 25                           |
| Benzene                | 85194-08      | <0.50        | 39.9        | 39.8             | 35.1                | 35.6                          | ug/L  | EPA 8260B       | 6/24/13       | 88.0                         | 89.3                                   | 1.48                   | 70.0-130                           | 25                           |
| Diisopropyl ether      | 85194-08      | <0.50        | 39.9        | 39.8             | 35.2                | 35.4                          | ug/L  | EPA 8260B       | 6/24/13       | 88.3                         | 89.0                                   | 0.798                  | 70.0-130                           | 25                           |
| Ethyl-tert-butyl ether | 85194-08      | <0.50        | 39.0        | 39.0             | 35.3                | 35.9                          | ug/L  | EPA 8260B       | 6/24/13       | 90.5                         | 92.2                                   | 1.83                   | 70.0-130                           | 25                           |
| Ethylbenzene           | 85194-08      | <0.50        | 39.9        | 39.8             | 37.5                | 37.8                          | ug/L  | EPA 8260B       | 6/24/13       | 93.8                         | 94.8                                   | 0.975                  | 70.0-130                           | 25                           |
| Methyl-t-butyl ether   | 85194-08      | <0.50        | 39.3        | 39.3             | 34.7                | 36.4                          | ug/L  | EPA 8260B       | 6/24/13       | 88.2                         | 92.7                                   | 5.02                   | 70.0-130                           | 25                           |
| P + M Xylene           | 85194-08      | <0.50        | 39.9        | 39.8             | 38.1                | 38.7                          | ug/L  | EPA 8260B       | 6/24/13       | 95.4                         | 97.1                                   | 1.75                   | 70.0-130                           | 25                           |

## 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 |
|------------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| Tert-Butanol           | 85194-08      | <5.0         | 200         | 200              | 174                 | 172                           | ug/L  | EPA 8260B       | 6/24/13       | 86.8                         | 85.9                                   | 0.948                  | 70.0-130                           | 25                           |
| Tert-amyl-methyl ether | 85194-08      | <0.50        | 39.2        | 39.1             | 35.0                | 36.4                          | ug/L  | EPA 8260B       | 6/24/13       | 89.1                         | 93.1                                   | 4.34                   | 70.0-130                           | 25                           |
| Toluene                | 85194-08      | <0.50        | 39.9        | 39.8             | 36.3                | 36.6                          | ug/L  | EPA 8260B       | 6/24/13       | 90.8                         | 92.0                                   | 1.23                   | 70.0-130                           | 25                           |
| Benzene                | 85234-05      | 5.4          | 40.0        | 40.0             | 42.6                | 40.8                          | ug/L  | EPA 8260B       | 6/26/13       | 92.8                         | 88.4                                   | 4.95                   | 70.0-130                           | 25                           |
| Ethylbenzene           | 85234-05      | 0.76         | 40.0        | 40.0             | 42.4                | 41.0                          | ug/L  | EPA 8260B       | 6/26/13       | 104                          | 100                                    | 3.51                   | 70.0-130                           | 25                           |
| P + M Xylene           | 85234-05      | 6.0          | 40.0        | 40.0             | 47.0                | 45.2                          | ug/L  | EPA 8260B       | 6/26/13       | 102                          | 97.9                                   | 4.62                   | 70.0-130                           | 25                           |
| Toluene                | 85234-05      | 1.1          | 40.0        | 40.0             | 38.4                | 36.9                          | ug/L  | EPA 8260B       | 6/26/13       | 93.2                         | 89.4                                   | 4.17                   | 70.0-130                           | 25                           |
| 1,2-Dibromoethane      | 85244-03      | <0.50        | 40.3        | 40.3             | 45.3                | 41.7                          | ug/L  | EPA 8260B       | 6/25/13       | 112                          | 104                                    | 8.08                   | 70.0-130                           | 25                           |
| 1,2-Dichloroethane     | 85244-03      | <0.50        | 40.0        | 40.0             | 41.3                | 40.0                          | ug/L  | EPA 8260B       | 6/25/13       | 103                          | 99.9                                   | 3.29                   | 70.0-130                           | 25                           |

## 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                | 85244-03      | <0.50        | 40.0        | 40.0             | 40.6                | 39.8                          | ug/L  | EPA 8260B       | 6/25/13       | 101                          | 99.5                                   | 1.96                   | 70.0-130                           | 25                           |
| Diisopropyl ether      | 85244-03      | <0.50        | 39.3        | 39.3             | 42.2                | 41.8                          | ug/L  | EPA 8260B       | 6/25/13       | 107                          | 106                                    | 0.910                  | 70.0-130                           | 25                           |
| Ethyl-tert-butyl ether | 85244-03      | <0.50        | 40.1        | 40.1             | 44.9                | 46.6                          | ug/L  | EPA 8260B       | 6/25/13       | 112                          | 116                                    | 3.60                   | 70.0-130                           | 25                           |
| Ethylbenzene           | 85244-03      | <0.50        | 40.0        | 40.0             | 42.2                | 41.6                          | ug/L  | EPA 8260B       | 6/25/13       | 105                          | 104                                    | 1.25                   | 70.0-130                           | 25                           |
| Methyl-t-butyl ether   | 85244-03      | <0.50        | 39.9        | 39.9             | 43.0                | 42.6                          | ug/L  | EPA 8260B       | 6/25/13       | 108                          | 107                                    | 0.885                  | 70.0-130                           | 25                           |
| P + M Xylene           | 85244-03      | <0.50        | 40.0        | 40.0             | 42.4                | 41.4                          | ug/L  | EPA 8260B       | 6/25/13       | 106                          | 104                                    | 2.35                   | 70.0-130                           | 25                           |
| Tert-Butanol           | 85244-03      | <5.0         | 202         | 202              | 221                 | 218                           | ug/L  | EPA 8260B       | 6/25/13       | 110                          | 108                                    | 1.52                   | 70.0-130                           | 25                           |
| Tert-amyl-methyl ether | 85244-03      | <0.50        | 40.3        | 40.3             | 45.1                | 45.6                          | ug/L  | EPA 8260B       | 6/25/13       | 112                          | 113                                    | 1.15                   | 70.0-130                           | 25                           |
| Toluene                | 85244-03      | <0.50        | 40.0        | 40.0             | 41.3                | 40.5                          | ug/L  | EPA 8260B       | 6/25/13       | 103                          | 101                                    | 2.02                   | 70.0-130                           | 25                           |



## 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 |
|------------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| 1,2-Dibromoethane      | 85191-04      | <0.50        | 40.1        | 40.1             | 38.0                | 38.2                          | ug/L  | EPA 8260B       | 6/21/13       | 94.8                         | 95.3                                   | 0.574                  | 70.0-130                           | 25                           |
| 1,2-Dichloroethane     | 85191-04      | <0.50        | 40.0        | 40.0             | 38.3                | 39.4                          | ug/L  | EPA 8260B       | 6/21/13       | 95.7                         | 98.4                                   | 2.74                   | 70.0-130                           | 25                           |
| Benzene                | 85191-04      | 3.7          | 40.0        | 40.0             | 41.2                | 41.4                          | ug/L  | EPA 8260B       | 6/21/13       | 93.8                         | 94.4                                   | 0.583                  | 70.0-130                           | 25                           |
| Diisopropyl ether      | 85191-04      | <0.50        | 40.0        | 40.0             | 34.8                | 35.5                          | ug/L  | EPA 8260B       | 6/21/13       | 87.1                         | 88.8                                   | 1.90                   | 70.0-130                           | 25                           |
| Ethyl-tert-butyl ether | 85191-04      | <0.50        | 39.1        | 39.1             | 35.8                | 36.5                          | ug/L  | EPA 8260B       | 6/21/13       | 91.5                         | 93.3                                   | 1.91                   | 70.0-130                           | 25                           |
| Ethylbenzene           | 85191-04      | 1.9          | 40.0        | 40.0             | 42.4                | 42.8                          | ug/L  | EPA 8260B       | 6/21/13       | 101                          | 102                                    | 0.842                  | 70.0-130                           | 25                           |
| Methyl-t-butyl ether   | 85191-04      | 5.9          | 39.4        | 39.4             | 40.9                | 41.7                          | ug/L  | EPA 8260B       | 6/21/13       | 88.8                         | 90.9                                   | 2.36                   | 70.0-130                           | 25                           |
| P + M Xylene           | 85191-04      | <0.50        | 40.0        | 40.0             | 40.0                | 40.3                          | ug/L  | EPA 8260B       | 6/21/13       | 100                          | 101                                    | 0.759                  | 70.0-130                           | 25                           |
| Tert-Butanol           | 85191-04      | <5.0         | 201         | 201              | 194                 | 196                           | ug/L  | EPA 8260B       | 6/21/13       | 96.9                         | 97.4                                   | 0.571                  | 70.0-130                           | 25                           |
| Tert-amyl-methyl ether | 85191-04      | <0.50        | 39.3        | 39.3             | 37.4                | 38.0                          | ug/L  | EPA 8260B       | 6/21/13       | 95.2                         | 96.8                                   | 1.72                   | 70.0-130                           | 25                           |

## 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                | 85191-04      | <0.50        | 40.0        | 40.0             | 38.9                | 39.2                          | ug/L  | EPA 8260B       | 6/21/13       | 97.3                         | 97.9                                   | 0.556                  | 70.0-130                           | 25                           |
| 1,2-Dibromoethane      | 85183-05      | 0.58         | 40.3        | 40.3             | 43.8                | 43.5                          | ug/L  | EPA 8260B       | 6/25/13       | 107                          | 106                                    | 0.558                  | 70.0-130                           | 25                           |
| 1,2-Dichloroethane     | 85183-05      | 1.0          | 40.0        | 40.0             | 41.7                | 40.8                          | ug/L  | EPA 8260B       | 6/25/13       | 102                          | 99.5                                   | 2.05                   | 70.0-130                           | 25                           |
| Benzene                | 85183-05      | 12           | 40.0        | 40.0             | 53.7                | 52.9                          | ug/L  | EPA 8260B       | 6/25/13       | 103                          | 101                                    | 2.05                   | 70.0-130                           | 25                           |
| Diisopropyl ether      | 85183-05      | <0.50        | 39.3        | 39.3             | 42.9                | 42.3                          | ug/L  | EPA 8260B       | 6/25/13       | 109                          | 108                                    | 1.60                   | 70.0-130                           | 25                           |
| Ethyl-tert-butyl ether | 85183-05      | <0.50        | 40.1        | 40.1             | 46.0                | 45.2                          | ug/L  | EPA 8260B       | 6/25/13       | 115                          | 112                                    | 1.78                   | 70.0-130                           | 25                           |
| Ethylbenzene           | 85183-05      | 30           | 40.0        | 40.0             | 73.4                | 72.0                          | ug/L  | EPA 8260B       | 6/25/13       | 108                          | 104                                    | 3.27                   | 70.0-130                           | 25                           |
| Methyl-t-butyl ether   | 85183-05      | 3.5          | 39.9        | 39.9             | 47.0                | 46.6                          | ug/L  | EPA 8260B       | 6/25/13       | 109                          | 108                                    | 0.925                  | 70.0-130                           | 25                           |
| P + M Xylene           | 85183-05      | 70           | 40.0        | 40.0             | 111                 | 109                           | ug/L  | EPA 8260B       | 6/25/13       | 103                          | 99.5                                   | 3.72                   | 70.0-130                           | 25                           |

## 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 |
|------------------------|---------------|--------------|-------------|------------------|---------------------|-------------------------------|-------|-----------------|---------------|------------------------------|--|------------------------|------------------------------------|------------------------------|
| Tert-Butanol           | 85183-05      | <5.0         | 202         | 202              | 221                 | 220                           | ug/L  | EPA 8260B       | 6/25/13       | 110                          | 109                                    | 0.298                  | 70.0-130                           | 25                           |
| Tert-amyl-methyl ether | 85183-05      | <0.50        | 40.3        | 40.3             | 44.8                | 44.8                          | ug/L  | EPA 8260B       | 6/25/13       | 111                          | 111                                    | 0.0729                 | 70.0-130                           | 25                           |
| Toluene                | 85183-05      | 32           | 40.0        | 40.0             | 73.8                | 72.3                          | ug/L  | EPA 8260B       | 6/25/13       | 105                          | 102                                    | 3.64                   | 70.0-130                           | 25                           |
| TPH-D (Si Gel)         | BLANK         | <50          | 1000        | 1000             | 890                 | 888                           | ug/L  | M EPA 8015      | 6/27/13       | 89.0                         | 88.8                                   | 0.175                  | 70-130                             | 25                           |

## 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 |
|------------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| 1,2-Dibromoethane      | 40.1        | ug/L  | EPA 8260B       | 6/24/13       | 86.8               | 70.0-130                 |
| 1,2-Dichloroethane     | 40.0        | ug/L  | EPA 8260B       | 6/24/13       | 82.2               | 70.0-130                 |
| Benzene                | 40.0        | ug/L  | EPA 8260B       | 6/24/13       | 91.2               | 70.0-130                 |
| Diisopropyl ether      | 40.0        | ug/L  | EPA 8260B       | 6/24/13       | 91.5               | 70.0-130                 |
| Ethyl-tert-butyl ether | 39.1        | ug/L  | EPA 8260B       | 6/24/13       | 90.5               | 70.0-130                 |
| Ethylbenzene           | 40.0        | ug/L  | EPA 8260B       | 6/24/13       | 96.9               | 70.0-130                 |
| Methyl-t-butyl ether   | 39.4        | ug/L  | EPA 8260B       | 6/24/13       | 82.2               | 70.0-130                 |
| P + M Xylene           | 40.0        | ug/L  | EPA 8260B       | 6/24/13       | 98.7               | 70.0-130                 |
| Tert-Butanol           | 201         | ug/L  | EPA 8260B       | 6/24/13       | 96.0               | 70.0-130                 |
| Tert-amyl-methyl ether | 39.3        | ug/L  | EPA 8260B       | 6/24/13       | 88.0               | 70.0-130                 |
| Toluene                | 40.0        | ug/L  | EPA 8260B       | 6/24/13       | 93.6               | 70.0-130                 |
| Benzene                | 40.2        | ug/L  | EPA 8260B       | 6/26/13       | 91.6               | 70.0-130                 |
| Ethylbenzene           | 40.2        | ug/L  | EPA 8260B       | 6/26/13       | 102                | 70.0-130                 |
| P + M Xylene           | 40.2        | ug/L  | EPA 8260B       | 6/26/13       | 101                | 70.0-130                 |
| Toluene                | 40.2        | ug/L  | EPA 8260B       | 6/26/13       | 93.0               | 70.0-130                 |
| 1,2-Dibromoethane      | 40.3        | ug/L  | EPA 8260B       | 6/25/13       | 110                | 70.0-130                 |
| 1,2-Dichloroethane     | 40.0        | ug/L  | EPA 8260B       | 6/25/13       | 99.6               | 70.0-130                 |
| Benzene                | 40.0        | ug/L  | EPA 8260B       | 6/25/13       | 98.3               | 70.0-130                 |
| Diisopropyl ether      | 39.3        | ug/L  | EPA 8260B       | 6/25/13       | 104                | 70.0-130                 |
| Ethyl-tert-butyl ether | 40.1        | ug/L  | EPA 8260B       | 6/25/13       | 108                | 70.0-130                 |

## 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 |
|------------------------|-------------|-------|-----------------|---------------|--------------------|--------------------------|
| Ethylbenzene           | 40.0        | ug/L  | EPA 8260B       | 6/25/13       | 102                | 70.0-130                 |
| Methyl-t-butyl ether   | 39.9        | ug/L  | EPA 8260B       | 6/25/13       | 105                | 70.0-130                 |
| P + M Xylene           | 40.0        | ug/L  | EPA 8260B       | 6/25/13       | 101                | 70.0-130                 |
| TPH as Gasoline        | 503         | ug/L  | EPA 8260B       | 6/25/13       | 95.6               | 70.0-130                 |
| Tert-Butanol           | 202         | ug/L  | EPA 8260B       | 6/25/13       | 104                | 70.0-130                 |
| Tert-amyl-methyl ether | 40.3        | ug/L  | EPA 8260B       | 6/25/13       | 107                | 70.0-130                 |
| Toluene                | 40.0        | ug/L  | EPA 8260B       | 6/25/13       | 100                | 70.0-130                 |
| 1,2-Dibromoethane      | 39.9        | ug/L  | EPA 8260B       | 6/21/13       | 96.9               | 70.0-130                 |
| 1,2-Dichloroethane     | 39.8        | ug/L  | EPA 8260B       | 6/21/13       | 97.1               | 70.0-130                 |
| Benzene                | 39.8        | ug/L  | EPA 8260B       | 6/21/13       | 96.0               | 70.0-130                 |
| Diisopropyl ether      | 39.8        | ug/L  | EPA 8260B       | 6/21/13       | 89.2               | 70.0-130                 |
| Ethyl-tert-butyl ether | 38.9        | ug/L  | EPA 8260B       | 6/21/13       | 94.4               | 70.0-130                 |
| Ethylbenzene           | 39.8        | ug/L  | EPA 8260B       | 6/21/13       | 104                | 70.0-130                 |
| Methyl-t-butyl ether   | 39.2        | ug/L  | EPA 8260B       | 6/21/13       | 90.2               | 70.0-130                 |
| P + M Xylene           | 39.8        | ug/L  | EPA 8260B       | 6/21/13       | 101                | 70.0-130                 |
| TPH as Gasoline        | 497         | ug/L  | EPA 8260B       | 6/21/13       | 99.6               | 70.0-130                 |
| Tert-Butanol           | 200         | ug/L  | EPA 8260B       | 6/21/13       | 99.4               | 70.0-130                 |
| Tert-amyl-methyl ether | 39.1        | ug/L  | EPA 8260B       | 6/21/13       | 96.6               | 70.0-130                 |
| Toluene                | 39.8        | ug/L  | EPA 8260B       | 6/21/13       | 98.7               | 70.0-130                 |
| 1,2-Dibromoethane      | 40.4        | ug/L  | EPA 8260B       | 6/25/13       | 105                | 70.0-130                 |
| 1,2-Dichloroethane     | 40.1        | ug/L  | EPA 8260B       | 6/25/13       | 99.6               | 70.0-130                 |

**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                | 40.1        | ug/L  | EPA 8260B       | 6/25/13       | 101                | 70.0-130                 |
| Diisopropyl ether      | 39.4        | ug/L  | EPA 8260B       | 6/25/13       | 107                | 70.0-130                 |
| Ethyl-tert-butyl ether | 40.2        | ug/L  | EPA 8260B       | 6/25/13       | 112                | 70.0-130                 |
| Ethylbenzene           | 40.1        | ug/L  | EPA 8260B       | 6/25/13       | 105                | 70.0-130                 |
| Methyl-t-butyl ether   | 40.0        | ug/L  | EPA 8260B       | 6/25/13       | 108                | 70.0-130                 |
| P + M Xylene           | 40.1        | ug/L  | EPA 8260B       | 6/25/13       | 104                | 70.0-130                 |
| TPH as Gasoline        | 504         | ug/L  | EPA 8260B       | 6/25/13       | 111                | 70.0-130                 |
| Tert-Butanol           | 202         | ug/L  | EPA 8260B       | 6/25/13       | 107                | 70.0-130                 |
| Tert-amyl-methyl ether | 40.4        | ug/L  | EPA 8260B       | 6/25/13       | 108                | 70.0-130                 |
| Toluene                | 40.1        | ug/L  | EPA 8260B       | 6/25/13       | 102                | 70.0-130                 |

85194

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# Chain of Custody

SAMPLER (SIGNATURE) *David Allen* PROJECT NAME Line PAGE 1 of 1  
 ADDRESS 250 8th St. Oakland JOB NO. 2808

| SAMPLE ID. | DATE    | TIME | MATRIX | QUANTITY | TPH-GAS / MTBE & BTEX<br>(EPA 5030/8015-8020) | TPH-DIESEL<br>(EPA 3510/8015)<br><i>w/ silica<br/>Gel C.U.</i> | TPH-DIESEL & MOTOR OIL<br>(EPA 3510/8015) | CAM 17 METALS<br>(EPA 6010+7000) | SEMI-VOLATILE ORGANICS<br>(EPA 625/8270) | Pb (TOTAL or DISSOLVED)<br>(EPA 601?) | PESTICIDES<br>(EPA 8081) | FUEL OXYGENATES<br>(EPA 8260) | PURGEABLE HALOCARBONS<br>(EPA 601/8010) | TPH-G/BTEX/5 OXYGENATES<br>(EPA METHOD 8260) <i>Scav.</i> | MULTI-RANGE<br>HYDROCARBONS WITH SILICA<br>GEL CLEANUP (EPA 8015) | VOLATILE ORGANICS<br>(EPA 624/8240/8260) | LUFT METALS (5)<br>(EPA 6010+7000) | COMPOSITE 4:1 | EDF |                       |
|------------|---------|------|--------|----------|---|--|---|----------------------------------|--|---------------------------------------|--------------------------|-------------------------------|---|---|---|--|------------------------------------|---------------|-----|-----------------------|
|            |         |      |        |          |   |  |   |                                  |  |                                       |                          |                               |   |   |   |  |                                    |               |     | SPECIAL INSTRUCTIONS: |
| MW-1       | 6/18/13 | 1125 | W      | 5        |   |  |   |                                  |  |                                       |                          |                               |   |   |   |  |                                    |               |     |                       |
| MW-2       |         | 1000 |        |          |   |  |   |                                  |  |                                       |                          |                               |   |   |   |  |                                    |               |     |                       |
| MW-3       |         | 0850 |        |          |   |  |   |                                  |  |                                       |                          |                               |   |   |   |  |                                    |               |     |                       |
| MW-4P      |         | 0830 |        |          |   |  |   |                                  |  |                                       |                          |                               |   |   |   |  |                                    |               |     |                       |
| MW-5       |         | 0915 |        |          |   |  |   |                                  |  |                                       |                          |                               |   |   |   |  |                                    |               |     |                       |
| MW-6       |         | 1030 |        |          |   |  |   |                                  |  |                                       |                          |                               |   |   |   |  |                                    |               |     |                       |
| MW-7       |         | 0935 |        |          |   |  |   |                                  |  |                                       |                          |                               |   |   |   |  |                                    |               |     |                       |
| MW-8       |         | 1100 |        |          |   |  |   |                                  |  |                                       |                          |                               |   |   |   |  |                                    |               |     |                       |
| MW         |         |      |        |          |   |  |   |                                  |  |                                       |                          |                               |   |   |   |  |                                    |               |     |                       |

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| RELINQUISHED BY:<br><i>David Allen</i><br>Signature (time) 1043 | RECEIVED BY:<br>_____<br>Signature (time) | RELINQUISHED BY:<br>_____<br>Signature (time) | RECEIVED BY LABORATORY:<br><i>Allison Prenzic</i> 1043<br>Signature (time) | COMMENTS:<br>MW-3 HIGH<br>HC CONCENTRATIONS<br>EXPECTED |
| DAVID ALLEN 6/20/13<br>Printed name (date)                      | _____<br>Printed name (date)              | _____<br>Printed name (date)                  | Allison Prenzic 062013<br>Printed name (date)                              |   |
| Company-ASE, INC.   | Company- _____                            | Company- _____                                | Company- KIFF ANALYTICAL   | TURN AROUND TIME<br>STANDARD 24Hr 48Hr 72Hr<br>OTHER:   |

