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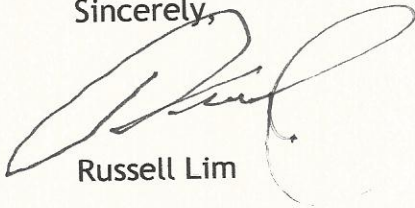
Alameda County Health Care Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: RO #479, Report 

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,



Russell Lim



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

February 27, 2015

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 8th 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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February 27, 2015

REMEDICATION 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's) operation of the ozone-sparging and vapor-extraction remediation systems at the Lim property located at 250 8th Street in Oakland, California since August 2014 (Figure 1). This report also provides current groundwater concentrations in the site's on and off-site groundwater monitoring wells.

2.0 OPERATION AND MAINTENANCE ACTIVITIES

ASE personnel visited the site periodically 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

Since August 2014, the ozone-sparging remediation equipment continued to operate in "high-flow ozone" mode into each of the ten sparging wells that are located on and off-site (Figure 2). Downtime for the ozone-sparging system only occurred for maintenance purposes, parts replacements, and an occasional power failure at the site. In January 2015, the ozone-sparging time was increased on wells OS-8 and OS-9, near monitoring well MW-2. The ozone-sparging time was decreased on wells OS-6 and OS-7.

3.2 Vapor-Extraction Remediation System Operation

Since August 2014, the ASE vapor-extraction system has operated fairly continuously. The ASE fixed vapor-extraction system consists of a 100 cubic feet per minute (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 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-



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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. During this last period, VE has been most-concentrated on monitoring well MW-3, the well with the highest concentration of hydrocarbons based on routine PID readings. As shown on the attached Vapor-Extraction System Log, the influent vapor concentrations, when measured using ASE's PID, have been fairly stable in all of the VE wells. 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 August 2014, ASE collected one influent vapor sample, on December 18, 2014, to determine petroleum hydrocarbon concentrations in the extracted subsurface vapor stream.

- The sample collected on December 18, 2014, 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-VE-12.18.14) was used to calculate the pounds of hydrocarbons removed from the site during the consistent operating parameters of the VE system.

The sample was collected in a new 1-liter Tedlar bag, labeled, and submitted to McCampbell Analytical of Pittsburg, California under chain of custody procedures. The sample was 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 report from McCampbell is attached in Appendix A.

- INF-VE-12.18.14 influent vapor sample contained 440 ug/L TPH-G, 3.6 ug/L benzene, 9.0 ug/L toluene, < 0.25 ug/L ethylbenzene, 5.2 ug/L xylenes, and < 2.5 ug/L MTBE.

The influent vapor sample collected during this period is slightly lower than the sample collected in August 2014. This indicates that concentrations are dropping in the vadose zone, but there still exists moderate levels of hydrocarbons near monitoring well MW-3 within the vadose zone that require continued removal with the VE system.

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.



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3.22 *Estimated TPH-G Extracted from Vadose Zone*

Using the analytical results of the influent vapor samples collected on December 18, 2014, 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 50.44 gallons of gasoline, in vapor phase, have been removed from the subsurface vadose zone between August 2014 and March 2015. Since start-up of the VE System, ASE estimates that 1,206.34 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. 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.

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 8th Street using a PID 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.



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5.0 GROUNDWATER MONITORING WELL SAMPLE COLLECTION

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

On December 17, 2014, ASE measured the depth to water in monitoring wells MW-1, MW-2, MW-3, MW-4R, MW-5, and MW-7 using an electric water level sounder, see Table One. Monitoring wells MW-6 and MW-8 are no longer sampled. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen. No free-floating hydrocarbons were present in any of the monitoring wells other than a sheen on the surface of water in monitoring well MW-3. This is the fourth consecutive semi-annual sampling event where neither monitoring well MW-3 nor MW-4R contained free-floating hydrocarbons thicker than a sheen. 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 approximately 0.005 to 0.024 feet/foot during this sampling period. The gradient and flow direction are generally consistent with previous findings, although there is slightly more of a southeastward flow component than usual.

5.2 Groundwater Sample Collection

On December 17, 2014, ASE collected groundwater samples from six 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 analytical report and chain of custody form are included in Appendix D. The groundwater analytical results are summarized below:

- Hydrocarbon concentrations in groundwater samples collected from monitoring well MW-1 are very similar to concentrations from the previous sampling event, with a slight increase in TPH-G, benzene and total xylene concentrations, and slight decreases in TPH-D and DIPE concentrations. No toluene, ethyl benzene or oxygenates other than DIPE were detected.



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- Hydrocarbon concentrations in groundwater samples collected from monitoring well MW-2 are very similar to concentrations from the previous sampling event, with a slight increase in TPH-G and slight decreases in TPH-D and BTEX concentrations from the previous sampling event. There has been a long term decreasing trend for hydrocarbon concentrations in this well, although the results during the two 2014 sampling events are higher than those seen during 2012 and 2013.
- No free-floating hydrocarbons were detected in monitoring well MW-3 this period, and hydrocarbon concentrations in groundwater samples collected from monitoring well MW-3 decreased to historic low concentrations.
- No free-floating hydrocarbons were detected in monitoring well MW-4R this period. Hydrocarbon concentrations in groundwater samples collected from monitoring well MW-4R decreased from the previous sampling event and are at historic lows. No BTEX or oxygenates were detected during this sampling event.
- Hydrocarbons detected in groundwater samples collected from monitoring well MW-5 during this sampling period included 100 parts per billion (ppb) TPH-G, 21 ppb benzene, 0.56 ppb toluene, and 1.2 ppb DIPE. These results are slightly higher than the previous results, although consistent with occasional detections of relatively low hydrocarbon concentrations in this well.
- There was a very slight increase in TPH-G, TPH-D, toluene and total xylenes concentrations detected in groundwater samples collected from monitoring well MW-7 during this sampling event, while benzene ethyl benzene and TBA concentrations decreased slightly in the same sample. However, there is a long term decreasing trend in hydrocarbon concentrations for samples collected from this well dating back to 2010.

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 at Sites With Contaminated Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region dated December 2013:

- Concentrations of TPH-G and benzene in the groundwater sample collected from monitoring wells MW-1 and MW-5.
- Concentrations of TPH-G, TPH-D, benzene, toluene, ethyl benzene, total xylenes in the groundwater sample collected from monitoring wells MW-2 and MW-3 exceeded ESLs. The TBA concentration in the groundwater sample from MW-3 also exceeded the ESL.
- Concentrations of TPH-G and TPH-D in groundwater samples collected from monitoring well MW-4R exceeded ESLs.
- Concentrations of TPH-G, TPH-D, benzene, ethyl benzene, total xylenes, and TBA in the groundwater sample collected from monitoring well MW-7 exceeded ESLs.



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For the most part, current groundwater concentrations are trending lower than in previous sampling events; this is obviously due 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 6 months, since free-floating hydrocarbons are no longer present beneath the site.

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 generally showing a decreasing trend due to the ozone-sparging.
- Based on the 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 September of 2015 or until diminishing returns appears to have been achieved.

7.0 COMPARISON TO LOW-THREAT CLOSURE POLICY CRITERIA

A brief evaluation on how the current site conditions compare to the California Regional Water Quality Control Board Low-Threat Closure Policy are as follows:

- All of the general criteria have been met.
- The site best compares to scenario 2 of the groundwater-specific criteria, since it appears that (a) the plume is greater than 100-feet in length but not over 250-feet in length, (b) the site no longer contains free-product, (c) the nearest water supply well or surface water body is greater than 1,000-feet from the plume boundary, and (d) the MTBE concentration does not exceed 1,000 ppb. However, monitoring well MW-2 contains 7,800 ppb benzene, which exceeds the maximum allowable benzene concentration allowed under the criteria of 3,000 ppb. It is thought that the benzene concentration will drop below this concentration with additional remediation.
- A soil vapor survey will be needed to meet the criteria outlined in Appendix 4, Scenario 4 – Direct Measurement of Soil Gas Concentrations, which appears to be the most appropriate scenario given current site conditions. This soil vapor survey should take place at the completion of the soil and groundwater remediation.



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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 September 2105. 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 all monitoring wells in June 2015. Prepare a Remediation Effectiveness and Groundwater Results report within the third quarter of 2015.

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".

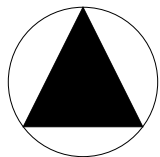
Robert Kitay, P.G.
Senior Geologist

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



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FIGURES



NORTH

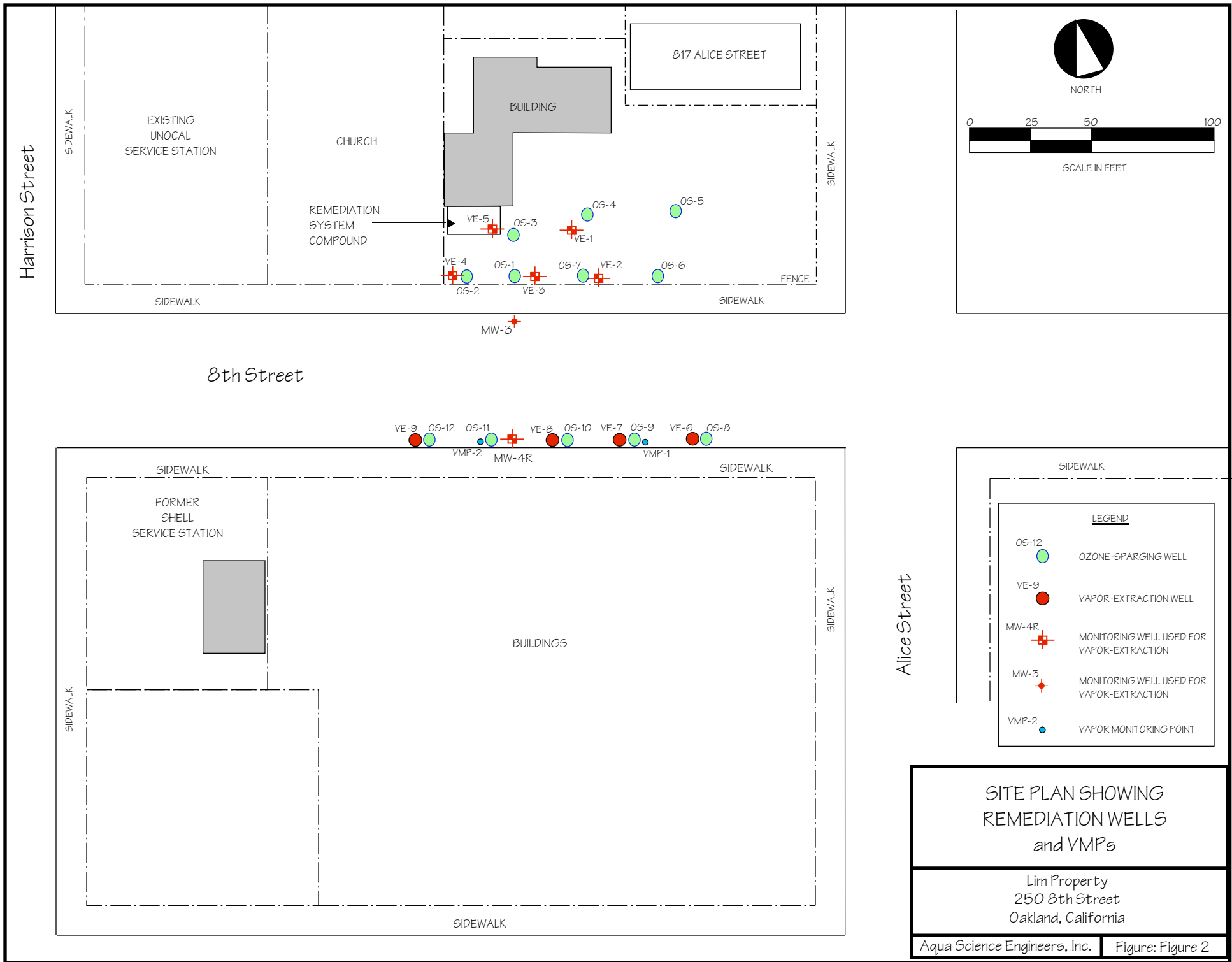
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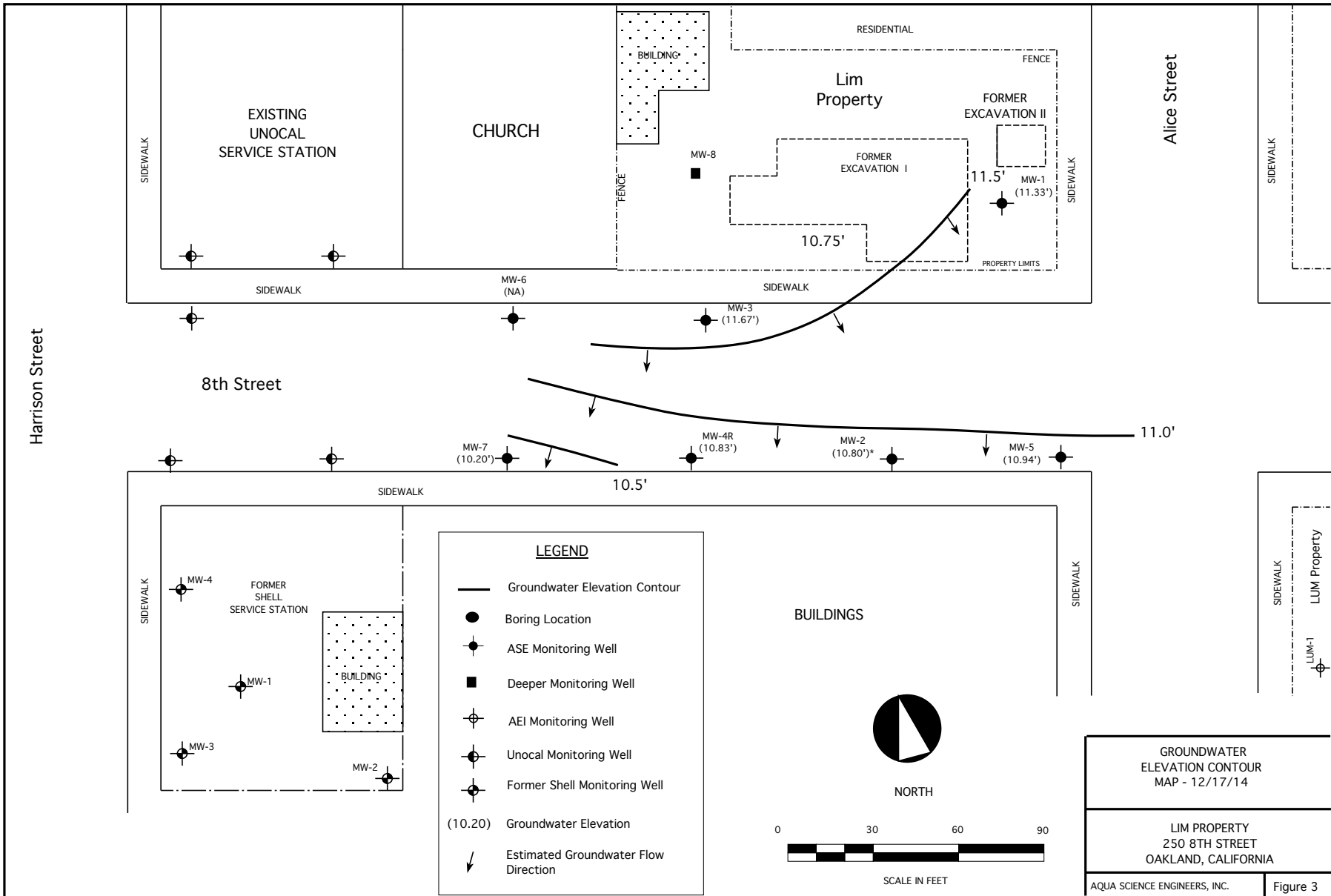
SITE LOCATION MAP

Lim Family Property
250 8th Street
Oakland, California

Aqua Science Engineers

Figure 1





LEGEND

- Groundwater Elevation Contour
- Boring Location
- ASE Monitoring Well
- Deeper Monitoring Well
- AEI Monitoring Well
- Unocal Monitoring Well
- Former Shell Monitoring Well
- (10.20) Groundwater Elevation
- Estimated Groundwater Flow Direction

NORTH

SCALE IN FEET

0 30 60 90

GROUNDWATER
ELEVATION CONTOUR
MAP - 12/17/14

LIM PROPERTY
250 8TH STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC. Figure 3



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TABLES

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

Well I.D.	Date of Measurement	Top of Casing Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)	
MW-1	01/30/95	25.51	16.21		9.30	
	04/12/95		15.71		9.80	
	07/14/95		16.71		8.80	
	10/17/95		17.72		7.79	
	01/12/96		18.03		7.48	
	07/25/96		16.82		8.69	
	01/06/97		15.60		9.91	
	07/08/97		17.31		8.20	
	01/26/98		15.21		10.30	
	07/23/98		15.38		10.13	
	01/05/99		16.82		8.69	
	07/13/99		15.89		9.62	
	01/12/00		17.44		8.07	
	04/24/00		16.37		9.14	
	07/20/00		16.30		9.21	
	10/24/00		17.25		8.26	
	01/18/01		17.29		8.22	
	04/05/01		15.88		9.63	
	07/17/01		16.54		8.97	
	10/25/01		16.89		8.62	
	01/21/02		14.92		10.59	
	04/11/02		14.02		11.49	
	06/11/02		29.72	15.33		14.39
	09/17/02			15.96		13.76
	12/18/02			16.14		13.58
	03/25/03			16.16		13.56
	06/23/03			16.01		13.71
	09/26/03			16.57		13.15
	12/18/03			16.41		13.31
	03/12/04			14.64		15.08
	06/17/04			15.71		14.01
	09/17/04			16.35		13.37
	12/17/04			16.10		13.62
	04/28/05	14.10			15.62	
	07/19/05	15.94		13.78		
	10/03/05	16.34		13.38		
	12/06/05	16.21		13.51		
	03/15/06	16.21		13.51		
	06/28/06	14.92		14.80		
	08/31/06	15.60		14.12		
	11/21/06	17.20		12.52		
	02/12/07	16.12		13.60		
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			
06/18/13	18.13		11.59			
12/23/13	18.29		11.43			
06/30/14	18.95		10.77			
12/17/14		18.39		11.33		

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)
MW-2	01/30/95	23.99	15.02		8.97
	04/12/95		14.75		9.24
	07/14/95		16.02		7.97
	10/17/95		16.94		7.05
	01/12/96		17.05		6.94
	07/25/96		16.02		7.97
	01/06/97		14.34		9.65
	07/08/97		16.52		7.47
	01/26/98		14.10		9.89
	07/23/98		14.70		9.29
	01/05/99		16.01		7.98
	07/13/99		15.40		8.59
	01/12/00		16.76		7.23
	04/24/00		15.67		8.32
	07/20/00		15.70		8.29
	10/24/00		16.56		7.43
	01/18/01		16.47		7.52
	04/05/01		15.88		8.11
	07/17/01		15.35		8.64
	10/25/01		15.63		8.36
	01/21/02		13.55		10.44
	04/11/02		13.74		10.25
	06/11/02		28.19	14.06	
	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		
06/18/13	17.28		10.91		
12/23/13	18.60		9.59		
06/30/14	17.16		11.03		
12/17/14	17.39		10.80		

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)	
MW-3	01/12/00	24.25	16.68	0.01	7.58*	
	04/24/00		15.58	0.15	8.79*	
	07/20/00		16.01	0.41	8.57*	
	10/24/00		16.95	0.21	7.47*	
	01/18/01		16.63	0.21	7.79*	
	04/05/01		15.16	0.23	9.27*	
	07/17/01		15.92	0.39	8.64*	
	10/25/01		16.26	0.38	8.29*	
	01/21/02		14.08	0.16	10.30*	
	04/11/02		14.59	0.54	10.09*	
	06/11/02		28.58	15.16	0.90	14.14*
	09/17/02			16.04	1.24	13.53*
	10/01/02			16.14	1.23	13.42*
	10/25/02			15.80	0.60	13.26*
	11/12/02			15.87	0.47	13.09*
	12/18/02			15.42	0.47	13.54*
	03/25/03			16.11	1.14	13.38*
	06/23/03			16.58	1.86	13.49*
	09/26/03	16.11		0.66	13.00*	
	12/18/03	15.83		0.59	13.22*	
	03/12/04	14.51		1.21	15.04*	
	06/17/04	15.25		0.68	13.87*	
	09/17/04	16.14		0.96	13.21*	
	12/17/04	15.05		0.25	13.73*	
	01/13/05	13.40	0.45	15.54*		
	04/28/05	15.31	2.43	15.21*		
	07/19/05	16.29	1.67	13.63*		
	10/03/05	16.10	1.47	13.66*		
	12/06/05	15.04	1.17	14.48*		
	03/15/06	12.65	2.41	15.49*		
	06/28/06	13.55	2.61	16.16*		
	08/31/06	14.85	2.20	15.49*		
	11/21/06	16.05	1.10	13.41*		
	02/12/07	15.96	0.35	12.90*		
	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			
06/18/13	17.01		11.57			
12/23/13	18.29		10.29			
06/30/14	NOT MEASURED - PROBE MALFUNCTION					
12/17/14			16.91		11.67	

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)	
MW-4	01/12/00	23.71	17.24		6.47	
	04/24/00		16.18		7.53	
	07/20/00		16.18		7.53	
	10/24/00		17.03		6.68	
	01/18/01		16.87		6.84	
	04/05/01		15.28		8.43	
	07/17/01		15.92		7.79	
	10/25/01		16.23		7.48	
	01/21/01		14.14		9.57	
	04/11/02		14.43		9.28	
	06/11/02		28.61	14.72		13.89
	09/17/02			15.29		13.32
	12/18/02			15.20		13.41
	03/25/03			15.53		13.08
	06/23/03			15.35		13.26
	09/26/03	15.91			12.70	
	12/18/03	15.63			12.98	
	03/12/04	13.88			14.73	
	06/17/04	15.03			13.58	
	09/17/04	15.61			13.00	
	12/17/04	15.32			13.29	
	04/28/05	13.82			14.79	
	07/19/05	15.44			13.17	
	10/03/05	15.91			12.70	
	12/06/05	15.71			12.90	
	03/15/06	13.05			15.56	
	06/28/06	14.49			14.12	
	08/31/06	15.75			12.86	
	11/21/06	16.70		11.91		
	02/12/07	16.51		12.10		
	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*		
MW-4R	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	
	06/18/13		17.60		11.18	
	12/23/13		19.07		9.71	
	06/30/14		18.77		10.01	
	12/17/14		17.95		10.83	

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)
MW-5	06/11/02	28.40	14.23		14.17
	09/17/02		14.80		13.60
	12/18/02		15.08		13.32
	03/25/03		15.31		13.09
	06/23/03		15.16		13.24
	09/26/03		15.72		12.68
	12/18/03		15.47		12.93
	03/12/04		13.44		14.96
	06/17/04		14.90		13.50
	09/17/04		15.45		12.95
	12/17/04		15.12		13.28
	04/28/05		13.63		14.77
	07/19/05		15.67		12.73
	10/03/05		15.81		12.59
	12/06/05		15.60		12.80
	03/15/06		12.81		15.59
	06/28/06		15.21		13.19
	08/31/06		15.55		12.85
	11/21/06		17.09		11.31
	02/12/07		16.29		12.11
	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		
06/18/13	17.48		10.92		
12/23/13	18.62		9.78		
06/30/14	18.11		10.29		
12/17/14		17.46		10.94	

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)	
MW-6	06/11/02	29.20	14.95		14.25	
	09/17/02		15.47		13.73	
	12/18/02		15.43		13.77	
	03/25/03		15.67		13.53	
	06/23/03		15.48		13.72	
	09/26/03		NOT MEASURED - SOUNDER MALFUNCTION			
	12/18/03		15.79		13.41	
	03/12/04		14.04		15.16	
	06/17/04		15.13		14.07	
	09/17/04		15.74		13.46	
	12/17/04		15.54		13.66	
	04/28/05		13.91		15.29	
	07/19/05		15.30		13.90	
	10/03/05		15.35		13.85	
	12/06/05		15.69		13.51	
	03/15/06		13.14		16.06	
	06/28/06		14.44		14.76	
	08/31/06		16.25		12.95	
	11/21/06		16.69		12.51	
	02/12/07		16.63		12.57	
	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			
06/18/13	17.69		11.51			
12/23/13	18.74		10.46			
06/30/14	No Longer measured					

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)	
MW-7	06/11/02	28.95	15.19		13.76	
	09/17/02		15.73		13.22	
	12/18/02		NOT MEASURED - CAR PARKED OVER WELL			
	03/25/03			15.96		12.99
	06/23/03			15.75		13.20
	09/26/03			16.29		12.66
	12/18/03			16.03		12.92
	03/12/04			14.28		14.67
	06/17/04			15.42		13.53
	09/17/04			16.02		12.93
	12/17/04			15.45		13.50
	04/28/05			14.15		14.80
	07/19/05			15.30		13.65
	10/03/05			16.25		12.70
	12/06/05			16.05		12.90
	03/15/06			13.36		15.59
	06/28/06			14.81		14.14
	08/31/06			16.13		12.82
	11/21/06			17.06		11.89
	02/12/07			16.97		11.98
	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		
06/18/13		18.02		10.93		
12/23/13		19.77		9.18		
06/30/14		18.36		10.59		
	12/17/14		18.75		10.20	
MW-8	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	
	06/18/13		22.44		7.70	
	12/23/13		23.22		6.92	
06/30/14	No Longer measured					

Notes:

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

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

TABLE TWO

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

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIFE	TBA	Other Oxys	EDC	EDB
MW-1												
01/30/95	740	200	3	5	1	4	--	---	---	---	---	---
04/12/95	400	500	<0.5	<0.5	3	<2	--	---	---	---	---	---
07/14/95	520	400	1	<0.5	2	3	--	---	---	---	---	---
10/17/95	400	200	0.5	1	3	<2	--	---	---	---	---	---
01/12/96	120	890	<0.5	<0.5	<0.5	<1.0	<2.0	---	---	---	---	---
07/08/96	320	300	0.52	2.7	1.2	2.3	<5.0	---	---	---	---	---
01/06/97	110	75	<0.5	0.68	<0.5	<0.5	<5.0	---	---	---	---	---
07/08/97	380	290	<0.5	1.5	1.4	1.9	<5.0	---	---	---	<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	330	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
09/17/02	320	1,700	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
12/18/02	170	320	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
03/25/03	320	<500	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
06/23/03	240	310	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
09/26/03	110	300	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	<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	<5.0	---	---	---	---	---
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	<0.50	<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	2.3	<0.50	1.1	2.3	<0.50	0.80	12	<0.50	<0.50	<0.50
12/13/12	180	90	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
06/18/13	370	84	1.5	<0.50	<0.50	<0.50	<0.50	0.52	<5.0	<0.50	<0.50	<0.50
12/23/13	410	200	2.0	<0.50	<0.50	<0.50	<0.50	0.64	<5.0	<0.50	<0.50	<0.50
06/30/14	400	140	6.9	<0.50	<0.50	<0.50	<0.50	1.4	<5.0	<0.50	<0.50	<0.50
12/17/14	520	77	11	<0.50	<0.50	1.8	<0.50	0.56	<5.0	<0.50	<0.50	<0.50

TABLE TWO

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

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIFE	TBA	Other 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	<15	<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
06/18/13	5,300	88	2,400	7.8	80	31	<1.5	7.8	17	<1.5	<1.5	<1.5
12/23/13	6,600	210	2,200	6.6	15	16	<4.0	7.9	34	<4.0	<4.0	<4.0
06/30/14	21,000	200	8,000	94	290	400	<4.0	16	66	<4.0	<4.0	<4.0
12/17/14	27,000	180	7,600	53	100	210	<15	<15	<70	<15	<15	<15

TABLE TWO

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

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIFE	TBA	Other 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											
12/10/05	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
06/18/13	100,000	220,000	6,700	7,900	2,000	15,000	< 10	< 10	< 50	< 10	< 10	< 10
12/23/13	80,000	4,700	4,800	2,100	860	11,000	< 15	< 15	110	< 15	< 15	< 15
06/30/14	97,000	5,900	4,600	6,200	1,300	11,000	< 15	< 15	500	< 15	< 15	< 15
12/17/14	53,000	8,300	1,800	1,200	560	5,300	< 9.0	< 9.0	400	< 9.0	10	< 9.0

TABLE TWO

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

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIFE	TBA	Other Oxys	EDC	EDB
MW-4												
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/ 4,500	13,000/ 20,000	1,800/ 2,800	8,800/ 14,000	<1,300	---	---	---	<250	<250
07/20/00	8,000	3,500	9,200/ 11,000	20,000/ 22,000	2,500/ 3,400	12,000/ 13,000	<1,000	---	---	---	<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/ 15,000	21,000/ 21,000	2,500/ 2,800	13,000/ 11,000	<1,000	---	---	---	<250	<250
04/05/01	88,000	7,500*	6,900/ 3,200	18,000/ 9,000	2,500/ 1,300	12,000/ 6,400	<1,000	---	---	---	<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											
MW-4R												
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
06/18/13	3,800	110	37	33	10	400	1.5	2.5	120	<0.50	7.2	<0.50
12/23/13	240	100	<0.50	<0.50	<0.50	5.4	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
06/30/14	3,600	340	1,300	6.3	1.3	16	<0.50	0.93	22	<0.50	<0.50	<0.50
12/17/14	210	240	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50

TABLE TWO

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

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIFE	TBA	Other 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
06/18/13	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
12/23/13	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.65	< 5.0	< 0.50	< 0.50	< 0.50
06/30/14	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.70	< 5.0	< 0.50	< 0.50	< 0.50
12/17/14	100	< 50	21	0.56	< 0.50	< 0.50	< 0.50	1.2	< 5.0	< 0.50	< 0.50	< 0.50

TABLE TWO

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

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIFE	TBA	Other Oxys	EDC	EDB
MW-6												
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
06/18/13	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
12/23/13	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/30/14												
12/17/14												

No Longer Sampled
 No Longer Sampled

TABLE TWO

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

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIFE	TBA	Other 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
06/18/13	6,000	250	19	22	310	390	<0.90	<0.90	6.3	<0.90	<0.90	<0.90
12/23/13	2,200	290	6.8	5.2	15	78	<0.50	<0.50	10	<0.50	<0.50	<0.50
06/30/14	2,700	380	12	7.3	83	63	<0.50	<0.50	32	<0.50	<0.50	<0.50
12/17/14	3,300	700	3.0	8.3	31	200	<0.50	<0.50	14	<0.50	<0.50	<0.50

TABLE TWO

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

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIFE	TBA	Other Oxys	EDC	EDB
MW-8												
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
06/18/13	< 50	83	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
12/23/13	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/30/14	No Longer Sampled											
12/17/14	No Longer Sampled											
ESL	100	100	1	40	30	20	5	NE	12	NE	0.5	0.05

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 (8020/8260)
- 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 (December 2013)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.
- TPH = Total petroleum hydrocarbons
- MTBE = Methyl tertiary butyl ether
- DIFE = Diisopropyl ether
- TBA = Tery-butanol
- Oxy = Oxygenates
- EDC = 1,2-Dichloroethane
- EDB = 1,2-Dibromoethane



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

APPENDIX A

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



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1412901

Report Created for: Aqua Science Engineers, Inc.
55 Oak Court Suite 220
Danville, CA 94526

Project Contact: Dave Allen
Project P.O.:
Project Name: #2808; LIM

Project Received: 12/19/2014

Analytical Report reviewed & approved for release on 12/24/2014 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Aqua Science Engineers, Inc.
Project: #2808; LIM
WorkOrder: 1412901

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifiers

H	samples were analyzed out of holding time
S	spike recovery outside accepted recovery limits
c4	surrogate recovery outside of the control limits due to coelution with another peak(s) / cluttered chromatogram.
d1	weakly modified or unmodified gasoline is significant



Analytical Report

Client: Aqua Science Engineers, Inc.
Project: #2808; LIM
Date Received: 12/19/14 10:15
Date Prepared: 12/19/14

WorkOrder: 1412901
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Cm
Unit: µg/L

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
INF-VE-12-18-14	1412901-001A	Air	12/18/2014 15:40	GC7	99307

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
TPH(g)	440	H	25	1	12/19/2014 17:56
MTBE	ND	H	2.5	1	12/19/2014 17:56
Benzene	3.6	H	0.25	1	12/19/2014 17:56
Toluene	9.0	H	0.25	1	12/19/2014 17:56
Ethylbenzene	ND	H	0.25	1	12/19/2014 17:56
Xylenes	5.2	H	0.25	1	12/19/2014 17:56

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4
aaa-TFT	212	SH	70-130	12/19/2014 17:56

Analyst(s): IA



Analytical Report

Client: Aqua Science Engineers, Inc.
Project: #2808; LIM
Date Received: 12/19/14 10:15
Date Prepared: 12/19/14

WorkOrder: 1412901
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/m³

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
INF-VE-12-18-14	1412901-001A	Air	12/18/2014 15:40	GC7	99307

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
TPH(g)	440,000	H	25,000	1	12/19/2014 17:56
MTBE	ND	H	2500	1	12/19/2014 17:56
Benzene	3600	H	250	1	12/19/2014 17:56
Toluene	9000	H	250	1	12/19/2014 17:56
Ethylbenzene	ND	H	250	1	12/19/2014 17:56
Xylenes	5200	H	250	1	12/19/2014 17:56

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: d1,c4
aaa-TFT_2	212	SH	70-130	12/19/2014 17:56

Analyst(s): IA



Quality Control Report

Client: Aqua Science Engineers, Inc.
Date Prepared: 12/21/14
Date Analyzed: 12/19/14
Instrument: GC7
Matrix: Water
Project: #2808; LIM

WorkOrder: 1412901
BatchID: 99307
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Cm
Unit: µg/L
Sample ID: MB/LCS-99307
 1412888-001AMS/MSD

QC SUMMARY REPORT FOR SW8021B/8015Cm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	58.7	40	60	-	98	70-130
MTBE	ND	10.2	5.0	10	-	102	70-130
Benzene	ND	10.8	0.50	10	-	108	70-130
Toluene	ND	10.7	0.50	10	-	107	70-130
Ethylbenzene	ND	10.9	0.50	10	-	109	70-130
Xylenes	ND	33.5	0.50	30	-	112	70-130

Surrogate Recovery

aaa-TFT_2	9.88	9.58		10	99	96	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR		ND<8000	NR	NR	-	NR	
MTBE	NR	NR		ND<1000	NR	NR	-	NR	
Benzene	NR	NR		11000	NR	NR	-	NR	
Toluene	NR	NR		1000	NR	NR	-	NR	
Ethylbenzene	NR	NR		1300	NR	NR	-	NR	
Xylenes	NR	NR		2500	NR	NR	-	NR	

Surrogate Recovery

aaa-TFT_2	NR	NR			NR	NR	-	NR	
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1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1412901

ClientCode: ASED

- WaterTrax
 WriteOn
 EDF
 Excel
 EQulS
 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/3rd Party:
 PO:
 ProjectNo: #2808; LIM

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

Requested TAT: 5 days

Date Received: 12/19/2014
Date Printed: 12/22/2014

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	
1412901-001	INF-VE-12-18-14	Air	12/18/2014 15:40	<input type="checkbox"/>	A	A											

Test Legend:

1	G-MBTEx(UG/M3)_A	2	G-MBTEx_A	3		4		5	
6		7		8		9		10	
11		12							

The following SampID: 001A contains testgroup.

Prepared by: Maria Venegas

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.



WORK ORDER SUMMARY

Client Name: AQUA SCIENCE ENGINEERS, INC.

QC Level: LEVEL 2

Work Order: 1412901

Project: #2808; LIM

Client Contact: Dave Allen

Date Received: 12/19/2014

Comments:

Contact's Email: dallen@aquascienceengineers.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1412901-001A	INF-VE-12-18-14	Air	TPH(g) + MBTEX	1	Tedlar	<input type="checkbox"/>	12/18/2014 15:40	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1412901

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

Chain of Custody

SAMPLER (SIGNATURE)

PAGE 1 of 1

PROJECT NAME LIM

JOB NO. 2808

ADDRESS 250 8th St, Oakland

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	QUANTITY	TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	CAM 17 METALS (EPA 6010+7000)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	Pb (TOTAL or DISSOLVED) (EPA 6010)	PESTICIDES (EPA 8081)	FUEL OXYGENATES (EPA 8260)	PURGEABLE HALOCARBONS (EPA 601/8010)	TPH+GIBTEX/5 OXYGS (EPA METHOD 8260)	MULTI-RANGE HYDROCARBONS WITH SILICA GEL CLEANUP (EPA 8015)	VOLATILE ORGANICS (EPA 624/8240/8260)	LUFT METALS (5) (EPA 6010+7000)	COMPOSITE 4:1	EDF	
																				INF-VF-12-18-14

RELINQUISHED BY:

1005
(time)

(signature)

David Allen
(printed name)

12/18/14
(date)

Company-ASE, INC.

RECEIVED BY:

(signature)

(time)

Maria Venegas
(printed name)

(date)

MAE 12/19/14 1005
Company-

RELINQUISHED BY:

(signature)

(time)

(printed name)

(date)

Company-

RECEIVED BY LABORATORY:

(signature)

(time)

(printed name)

(date)

Company-

COMMENTS:

TURN AROUND TIME
STANDARD 24Hr 48Hr 72Hr

OTHER:



Sample Receipt Checklist

Client Name: **Aqua Science Engineers, Inc.** Date and Time Received: **12/19/2014 10:15:28 AM**
 Project Name: **#2808; LIM** LogIn Reviewed by: **Maria Venegas**
 WorkOrder No: **1412901** Matrix: Air Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Sample/Temp Blank temperature Temp: NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? Yes No NA
 Samples Received on Ice? Yes No

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522? Yes No NA
 Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? Yes No NA

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

Comments: Method SW8021B/8015Bm (GMBTEX) was received passed its 0.25-day holding time.



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

APPENDIX B

Remediation Systems
Field Logs

LIM PROPERTY - 250 8TH STREET, OAKLAND, CALIFORNIA

HYDROCARBON VAPOR MEASUREMENT LOG

HYDROCARBON CONCENTRATIONS IN PPMV* MEASURED WITH ORGANIC VAPOR METER

VAPOR MONITORING POINTS			METER BOXES (SITE SIDE OF 8TH STREET)			METER BOXES (OPPOSITE SIDE OF 8TH STREET)									
DATE	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
1/18/11	0	0	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
1/20/11	0	0	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
1/22/11	3	7	NM	NM	NM	12	11	8	4	6	NM	NM	NM	NM	NM
1/23/11	0	0	NM	NM	NM	0	0	0	0	0	NM	NM	NM	NM	NM
1/28/11	0	0	NM	NM	NM	0	0	0	0	0	NM	NM	NM	NM	NM
2/15/11	0	0	NM	NM	NM	0	0	0	0	0	NM	NM	NM	NM	NM
2/28/11	0	0	NM	NM	NM	0	0	0	0	0	NM	NM	NM	NM	NM
3/8/11	0	0	NM	NM	NM	0	0	0	0	0	NM	NM	NM	NM	NM
3/29/11	0	0	NM	NM	NM	0	0	0	0	0	NM	NM	NM	NM	NM
4/12/11	0	0	NM	NM	NM	0	0	0	0	0	NM	NM	NM	NM	NM
4/25/11	0	0	NM	NM	NM	0	0	0	0	0	NM	NM	NM	NM	NM
5/13/11	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
5/20/11	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
5/25/11	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
5/30/11	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
6/6/11	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
6/10/11	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
6/16/11	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
6/22/11	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
6/27/11	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
7/12/11	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
7/25/11	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
8/9/11	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
8/24/11	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

Continued on Next Page

LIM PROPERTY - 250 8TH STREET, OAKLAND, CALIFORNIA

HYDROCARBON VAPOR MEASUREMENT LOG

HYDROCARBON CONCENTRATIONS IN PPMV* MEASURED WITH ORGANIC VAPOR METER

VAPOR MONITORING POINTS			METER BOXES (SITE SIDE OF 8TH STREET)			METER BOXES (OPPOSITE SIDE OF 8TH STREET)									
DATE	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
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

Continued on Next Page

LIM PROPERTY - 250 8TH STREET, OAKLAND, CALIFORNIA

HYDROCARBON VAPOR MEASUREMENT LOG

HYDROCARBON CONCENTRATIONS IN PPMV* MEASURED WITH ORGANIC VAPOR METER

VAPOR MONITORING POINTS			METER BOXES (SITE SIDE OF 8TH STREET)			METER BOXES (OPPOSITE SIDE OF 8TH STREET)									
DATE	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
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

Continued on Next Page

LIM PROPERTY - 250 8TH STREET, OAKLAND, CALIFORNIA

HYDROCARBON VAPOR MEASUREMENT LOG

HYDROCARBON CONCENTRATIONS IN PPMV* MEASURED WITH ORGANIC VAPOR METER

VAPOR MONITORING POINTS			METER BOXES (SITE SIDE OF 8TH STREET)			METER BOXES (OPPOSITE SIDE OF 8TH STREET)									
DATE	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
9/6/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/2/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/1/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/6/13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/6/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/5/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3/7/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4/4/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5/2/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6/6/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7/11/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8/19/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9/18/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10/20/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11/13/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12/8/14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1/21/15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2/18/15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE:

NM = Not Measured

**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

Continued on Next Page

**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*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

Continued on Next Page

**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*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

Continued on Next Page

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

DATE	ASE VE SYSTEM		VAPOR-EXTRACTION WELLS OVM CONCENTRATION IN PPMV*										
	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
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
9/6/13	50	30	5	9	60	25	49	5	8	7	9	350	43
10/2/13	50	29	4	11	44	20	48	4	8	9	6	345	40
11/1/13	50	32	4	10	49	20	49	4	7	6	4	365	38
12/6/13	50	28	5	12	51	17	42	5	7	5	4	360	39
1/6/14	50	27	3	8	43	16	43	3	5	5	4	365	38
2/5/14	50	29	5	9	40	17	48	3	6	4	4	350	36
3/7/14	50	26	4	7	38	18	44	2	5	3	3	325	30
4/4/14	50	24	4	7	39	15	39	2	5	2	3	320	32
5/2/14	50	24	3	6	33	11	35	3	5	2	1	310	28
6/6/14	50	22	3	5	32	12	37	2	4	2	1	315	26
7/11/14	50	21	3	4	34	14	41	2	3	2	1	310	24
8/19/14	50	21	1	6	32	14	40	3	3	2	1	325	22
9/18/14	50	20	0	5	33	12	33	2	2	1	0	295	20
10/20/14	50	18	1	5	32	10	35	2	2	1	1	297	18
11/13/14	50	17	0	6	28	8	37	3	2	1	0	288	15
12/8/14	50	18	1	7	25	9	29	2	3	0	1	290	20
1/21/15	50	16	2	4	20	11	35	1	1	2	0	277	16
2/18/15	50	18	1	3	20	10	31	2	1	1	1	286	19

NOTE:

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



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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	12/17/14
WELL ID.	MW- 1	SAMPLER	RK
TOTAL DEPTH OF WELL	26.880 ^{ft}	WELL DIAMETER	2"
DEPTH TO WATER PRIOR TO PURGING	18.39	TIME OF MEASUREMENT	
PRODUCT THICKNESS	0		
DEPTH OF WELL CASING IN WATER	8.41		
NUMBER OF GALLONS PER WELL CASING VOLUME	1.43		
NUMBER OF WELL CASING VOLUMES TO BE REMOVED	3		
REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING	4.3 gal		
EQUIPMENT USED TO PURGE WELL	NEW DISPOSABLE BAILER		
TIME EVACUATION STARTED	11:30	TIME EVACUATION COMPLETED	11:55
TIME SAMPLES WERE COLLECTED	1200		
DID WELL GO DRY	No	AFTER HOW MANY GALLONS	—
VOLUME OF GROUNDWATER PURGED	4.3 gal		
SAMPLING DEVICE	NEW DISPOSABLE BAILER		
SAMPLE COLOR	slight yellow	ODOR/SEDIMENT	slight H ₂ S / slight silt

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	21.2	7.3	330
2	21.2	7.2	330
3	21.2	7.2	330

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW- 1	5	40ML VOA _s	8015/8260	Hcl

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME	LIM		
JOB NUMBER	2808	DATE OF SAMPLING	12/17/14
WELL ID.	MW- 2	SAMPLER	RK
TOTAL DEPTH OF WELL	26.8	WELL DIAMETER	2"
DEPTH TO WATER PRIOR TO PURGING	17.39	TIME OF MEASUREMENT	
PRODUCT THICKNESS	0		
DEPTH OF WELL CASING IN WATER	9.41		
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 gal		
EQUIPMENT USED TO PURGE WELL	NEW DISPOSABLE BAILER		
TIME EVACUATION STARTED	7:50	TIME EVACUATION COMPLETED	8:10
TIME SAMPLES WERE COLLECTED	8:15		
DID WELL GO DRY	No	AFTER HOW MANY GALLONS	—
VOLUME OF GROUNDWATER PURGED	4.8 gal		
SAMPLING DEVICE	NEW DISPOSABLE BAILER		
SAMPLE COLOR	slight solid	ODOR/SEDIMENT	mod. hc / slight silt

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	20.2	7.1	570
2	20.4	7.2	570
3	20.4	7.2	570

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW- 2	5	40ML VOA's	8015/8260	Hcl

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME	LIM		
JOB NUMBER	2808	DATE OF SAMPLING	12/17/14
WELL ID.	MW- 3	SAMPLER	RK
TOTAL DEPTH OF WELL	30.0	WELL DIAMETER	2"
DEPTH TO WATER PRIOR TO PURGING	16.91	TIME OF MEASUREMENT	
PRODUCT THICKNESS	0		
DEPTH OF WELL CASING IN WATER	13.09		
NUMBER OF GALLONS PER WELL CASING VOLUME	2.2		
NUMBER OF WELL CASING VOLUMES TO BE REMOVED	3		
REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING	6.6 gal		
EQUIPMENT USED TO PURGE WELL	NEW DISPOSABLE BAILER		
TIME EVACUATION STARTED	8:50 ^{PM}	TIME EVACUATION COMPLETED	10:55
TIME SAMPLES WERE COLLECTED	1100		
DID WELL GO DRY	NO	AFTER HOW MANY GALLONS	—
VOLUME OF GROUNDWATER PURGED	6.6 gal		
SAMPLING DEVICE	NEW DISPOSABLE BAILER		
SAMPLE COLOR	slight black	ODOR/SEDIMENT	Strong hcl / Blank end

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	24.8°C	7.1	600
2	24.8	7.1	540
3	24.7	7.1	540

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW- 3	5	40ML VOAs	8015/8260	Hcl

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME	LIM		
JOB NUMBER	2808	DATE OF SAMPLING	12/17/14
WELL ID.	MW- 4R	SAMPLER	RK
TOTAL DEPTH OF WELL	28.0	WELL DIAMETER	2"
DEPTH TO WATER PRIOR TO PURGING	17.95	TIME OF MEASUREMENT	
PRODUCT THICKNESS	Ø		
DEPTH OF WELL CASING IN WATER	10.05		
NUMBER OF GALLONS PER WELL CASING VOLUME	6.7		
NUMBER OF WELL CASING VOLUMES TO BE REMOVED	3		
REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING	20.2 gal		
EQUIPMENT USED TO PURGE WELL	NEW DISPOSABLE BAILER		
TIME EVACUATION STARTED	8:35	TIME EVACUATION COMPLETED	9:40
TIME SAMPLES WERE COLLECTED	9:45		
DID WELL GO DRY	No	AFTER HOW MANY GALLONS	—
VOLUME OF GROUNDWATER PURGED	20.2 gal		
SAMPLING DEVICE	NEW DISPOSABLE BAILER		
SAMPLE COLOR	slight yellow brown	ODOR/SEDIMENT	Mod hv / slight silt

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	21.6	7.2	300
2	22.3	6.6	360
3	22.2	6.6	360

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW- 4R	5	40ML VOAs	8015/8260	Hcl

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME	LIM		
JOB NUMBER	2808	DATE OF SAMPLING	12/17/14
WELL ID.	MW- 5	SAMPLER	RK
TOTAL DEPTH OF WELL	29.6	WELL DIAMETER	2"
DEPTH TO WATER PRIOR TO PURGING	17.46	TIME OF MEASUREMENT	
PRODUCT THICKNESS	0		
DEPTH OF WELL CASING IN WATER	12.14		
NUMBER OF GALLONS PER WELL CASING VOLUME	2.0		
NUMBER OF WELL CASING VOLUMES TO BE REMOVED	3		
REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING	6.0 gal		
EQUIPMENT USED TO PURGE WELL	NEW DISPOSABLE BAILER		
TIME EVACUATION STARTED	7:00	TIME EVACUATION COMPLETED	7:25
TIME SAMPLES WERE COLLECTED	7:30		
DID WELL GO DRY	No	AFTER HOW MANY GALLONS	—
VOLUME OF GROUNDWATER PURGED	6.0 gal		
SAMPLING DEVICE	NEW DISPOSABLE BAILER		
SAMPLE COLOR	slight yellow brown	ODOR/SEDIMENT	None / slight yB

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	20.1	7.2	600
2	20.0	7.2	570
3	20.0	7.2	570 uS

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW- 5	5	40ML VOAs	8015/8260	Hcl

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME	LIM		
JOB NUMBER	2808	DATE OF SAMPLING	12/17/14
WELL ID.	MW- 7	SAMPLER	RK
TOTAL DEPTH OF WELL	28.0	WELL DIAMETER	2"
DEPTH TO WATER PRIOR TO PURGING	18.75	TIME OF MEASUREMENT	
PRODUCT THICKNESS	0		
DEPTH OF WELL CASING IN WATER	9.25		
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 gal		
EQUIPMENT USED TO PURGE WELL	NEW DISPOSABLE BAILER		
TIME EVACUATION STARTED	1220	TIME EVACUATION COMPLETED	1245
TIME SAMPLES WERE COLLECTED	1250		
DID WELL GO DRY	NO	AFTER HOW MANY GALLONS	—
VOLUME OF GROUNDWATER PURGED	4.8 gal		
SAMPLING DEVICE	NEW DISPOSABLE BAILER		
SAMPLE COLOR	gray	ODOR/SEDIMENT	slight hcl / slight silt

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	20.7	6.6	340
2	20.8	6.7	330
3	20.8	6.7	330

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW- 7	5	40ML VOAs	8015/8260	Hcl



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

APPENDIX D

Certified Analytical Report
and
Chain of Custody Documentation
for
Groundwater Samples



Report Number : 89957

Date : 12/29/2014

Laboratory Results

Robert Kitay
Aqua Science Engineers, Inc.
55 Oak Court, Suite 220
Danville, CA 94526

Subject : 6 Water Samples
Project Name : Lim
Project Number : 2808

Dear Mr. Kitay,

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 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 Pace Analytical Services, Inc.

Pace Analytical Services, Inc. is certified by the State of California under the Environmental Laboratory Accreditation Program (ELAP), lab number 08263CA.

If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Troy G. Turpen".

Troy Turpen



Report Number : 89957

Date : 12/29/2014

Project Name : **Lim**

Project Number : **2808**

Sample : **MW-1**

Matrix : Water

Lab Number : 89957-01

Sample Date :12/17/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	11	0.50	ug/L	EPA 8260B	12/26/14 13:03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 13:03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 13:03
Total Xylenes	1.6	0.50	ug/L	EPA 8260B	12/26/14 13:03
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 13:03
Diisopropyl ether (DIPE)	0.56	0.50	ug/L	EPA 8260B	12/26/14 13:03
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 13:03
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 13:03
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/26/14 13:03
TPH as Gasoline	520	50	ug/L	EPA 8260B	12/26/14 13:03
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 13:03
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 13:03
1,2-Dichloroethane-d4 (Surr)	99.6		% Recovery	EPA 8260B	12/26/14 13:03
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	12/26/14 13:03
TPH as Diesel (Silica Gel)	77	50	ug/L	M EPA 8015	12/23/14 16:28
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
Octacosane (Silica Gel Surr)	121		% Recovery	M EPA 8015	12/23/14 16:28



Report Number : 89957

Date : 12/29/2014

Project Name : **Lim**

Project Number : **2808**

Sample : **MW-2**

Matrix : Water

Lab Number : 89957-02

Sample Date :12/17/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	7600	15	ug/L	EPA 8260B	12/26/14 22:01
Toluene	53	15	ug/L	EPA 8260B	12/26/14 22:01
Ethylbenzene	100	15	ug/L	EPA 8260B	12/26/14 22:01
Total Xylenes	210	15	ug/L	EPA 8260B	12/26/14 22:01
Methyl-t-butyl ether (MTBE)	< 15	15	ug/L	EPA 8260B	12/26/14 22:01
Diisopropyl ether (DIPE)	< 15	15	ug/L	EPA 8260B	12/26/14 22:01
Ethyl-t-butyl ether (ETBE)	< 15	15	ug/L	EPA 8260B	12/26/14 22:01
Tert-amyl methyl ether (TAME)	< 15	15	ug/L	EPA 8260B	12/26/14 22:01
Tert-Butanol	< 70	70	ug/L	EPA 8260B	12/26/14 22:01
TPH as Gasoline	27000	1500	ug/L	EPA 8260B	12/26/14 22:01
1,2-Dichloroethane	< 15	15	ug/L	EPA 8260B	12/26/14 22:01
1,2-Dibromoethane	< 15	15	ug/L	EPA 8260B	12/26/14 22:01
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	12/26/14 22:01
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	12/26/14 22:01
TPH as Diesel (Silica Gel)	180	50	ug/L	M EPA 8015	12/23/14 16:57
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
Octacosane (Silica Gel Surr)	110		% Recovery	M EPA 8015	12/23/14 16:57



Report Number : 89957

Date : 12/29/2014

Project Name : **Lim**

Project Number : **2808**

Sample : **MW-3**

Matrix : Water

Lab Number : 89957-03

Sample Date :12/17/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	1800	9.0	ug/L	EPA 8260B	12/26/14 22:33
Toluene	1200	9.0	ug/L	EPA 8260B	12/26/14 22:33
Ethylbenzene	560	9.0	ug/L	EPA 8260B	12/26/14 22:33
Total Xylenes	5300	9.0	ug/L	EPA 8260B	12/26/14 22:33
Methyl-t-butyl ether (MTBE)	< 9.0	9.0	ug/L	EPA 8260B	12/26/14 22:33
Diisopropyl ether (DIPE)	< 9.0	9.0	ug/L	EPA 8260B	12/26/14 22:33
Ethyl-t-butyl ether (ETBE)	< 9.0	9.0	ug/L	EPA 8260B	12/26/14 22:33
Tert-amyl methyl ether (TAME)	< 9.0	9.0	ug/L	EPA 8260B	12/26/14 22:33
Tert-Butanol	400	50	ug/L	EPA 8260B	12/26/14 22:33
TPH as Gasoline	53000	900	ug/L	EPA 8260B	12/26/14 22:33
1,2-Dichloroethane	10	9.0	ug/L	EPA 8260B	12/26/14 22:33
1,2-Dibromoethane	< 9.0	9.0	ug/L	EPA 8260B	12/26/14 22:33
1,2-Dichloroethane-d4 (Surr)	98.6		% Recovery	EPA 8260B	12/26/14 22:33
Toluene - d8 (Surr)	97.9		% Recovery	EPA 8260B	12/26/14 22:33
TPH as Diesel (Silica Gel)	8300	50	ug/L	M EPA 8015	12/23/14 17:26
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
Octacosane (Silica Gel Surr)	126		% Recovery	M EPA 8015	12/23/14 17:26



Report Number : 89957

Date : 12/29/2014

Project Name : **Lim**

Project Number : **2808**

Sample : **MW-4R**

Matrix : Water

Lab Number : 89957-04

Sample Date :12/17/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 14:12
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 14:12
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 14:12
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 14:12
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 14:12
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 14:12
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 14:12
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 14:12
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/26/14 14:12
TPH as Gasoline	210	50	ug/L	EPA 8260B	12/26/14 14:12
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 14:12
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/26/14 14:12
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	12/26/14 14:12
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/26/14 14:12
TPH as Diesel (Silica Gel)	240	50	ug/L	M EPA 8015	12/23/14 17:56
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
Octacosane (Silica Gel Surr)	110		% Recovery	M EPA 8015	12/23/14 17:56



Report Number : 89957

Date : 12/29/2014

Project Name : **Lim**

Project Number : **2808**

Sample : **MW-5**

Matrix : Water

Lab Number : 89957-05

Sample Date :12/17/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	21	0.50	ug/L	EPA 8260B	12/24/14 13:15
Toluene	0.56	0.50	ug/L	EPA 8260B	12/24/14 13:15
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/24/14 13:15
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/24/14 13:15
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/24/14 13:15
Diisopropyl ether (DIPE)	1.2	0.50	ug/L	EPA 8260B	12/24/14 13:15
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/24/14 13:15
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/24/14 13:15
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/24/14 13:15
TPH as Gasoline	100	50	ug/L	EPA 8260B	12/24/14 13:15
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/24/14 13:15
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/24/14 13:15
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	12/24/14 13:15
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	12/24/14 13:15
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	12/23/14 18:25
Octacosane (Silica Gel Surr)	120		% Recovery	M EPA 8015	12/23/14 18:25



Report Number : 89957

Date : 12/29/2014

Project Name : **Lim**

Project Number : **2808**

Sample : **MW-7**

Matrix : Water

Lab Number : 89957-06

Sample Date :12/17/2014

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	3.0	0.50	ug/L	EPA 8260B	12/24/14 16:58
Toluene	8.3	0.50	ug/L	EPA 8260B	12/24/14 16:58
Ethylbenzene	31	0.50	ug/L	EPA 8260B	12/24/14 16:58
Total Xylenes	200	0.50	ug/L	EPA 8260B	12/24/14 16:58
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/24/14 16:58
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/24/14 16:58
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/24/14 16:58
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/24/14 16:58
Tert-Butanol	14	5.0	ug/L	EPA 8260B	12/24/14 16:58
TPH as Gasoline	3300	50	ug/L	EPA 8260B	12/24/14 16:58
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/24/14 16:58
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/24/14 16:58
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	12/24/14 16:58
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	12/24/14 16:58
TPH as Diesel (Silica Gel)	700	50	ug/L	M EPA 8015	12/23/14 18:54
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
Octacosane (Silica Gel Surr)	117		% Recovery	M EPA 8015	12/23/14 18:54

Report Number : 89957

Date : 12/29/2014

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	12/23/2014	Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Octacosane (Silica Gel Surr)	122		%	M EPA 8015	12/23/2014	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/24/2014	Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/24/2014	Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/24/2014	Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/24/2014	Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/24/2014	Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/24/2014	Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/26/2014
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/24/2014	Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/24/2014	TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/26/2014
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/24/2014	1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/24/2014	1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/24/2014	1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	12/24/2014
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/24/2014	Toluene - d8 (Surr)	98.2		%	EPA 8260B	12/24/2014
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	12/24/2014	Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Toluene - d8 (Surr)	98.2		%	EPA 8260B	12/24/2014	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014	Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014	Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014	Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014	Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014	Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014	Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/26/2014
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014	Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/26/2014	TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/26/2014
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014	1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/26/2014	1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014	1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	12/26/2014
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/26/2014	Toluene - d8 (Surr)	101		%	EPA 8260B	12/26/2014
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	12/26/2014						
Toluene - d8 (Surr)	101		%	EPA 8260B	12/26/2014						

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)	89958-21	<50	1000	1000	989	969	ug/L	M EPA 8015	12/23/14	98.9	96.9	2.01	70-130	25
1,2-Dibromoethane	89957-05	<0.50	39.5	39.4	43.8	42.8	ug/L	EPA 8260B	12/24/14	111	109	1.99	70.0-130	25
1,2-Dichloroethane	89957-05	<0.50	39.5	39.4	44.8	43.8	ug/L	EPA 8260B	12/24/14	113	111	1.79	70.0-130	25
Benzene	89957-05	21	39.5	39.4	60.0	60.5	ug/L	EPA 8260B	12/24/14	98.6	100	1.57	70.0-130	25
Diisopropyl ether	89957-05	1.2	39.5	39.4	42.1	42.1	ug/L	EPA 8260B	12/24/14	104	104	0.284	70.0-130	25
Ethyl-tert-butyl ether	89957-05	<0.50	39.5	39.4	41.9	41.0	ug/L	EPA 8260B	12/24/14	106	104	1.77	70.0-130	25
Ethylbenzene	89957-05	<0.50	39.5	39.4	40.1	40.8	ug/L	EPA 8260B	12/24/14	101	104	2.01	70.0-130	25
Methyl-t-butyl ether	89957-05	<0.50	39.5	39.4	43.0	42.0	ug/L	EPA 8260B	12/24/14	109	106	2.10	70.0-130	25
P + M Xylene	89957-05	<0.50	39.5	39.4	40.1	41.6	ug/L	EPA 8260B	12/24/14	102	106	4.06	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	89957-05	<5.0	198	197	195	206	ug/L	EPA 8260B	12/24/14	98.5	105	6.00	70.0-130	25
Tert-amyl-methyl ether	89957-05	<0.50	39.5	39.4	43.7	43.0	ug/L	EPA 8260B	12/24/14	110	109	1.08	70.0-130	25
Toluene	89957-05	0.56	39.5	39.4	41.8	41.5	ug/L	EPA 8260B	12/24/14	104	104	0.143	70.0-130	25
1,2-Dibromoethane	89970-03	<0.50	40.0	40.0	44.2	43.5	ug/L	EPA 8260B	12/26/14	110	109	1.49	70.0-130	25
1,2-Dichloroethane	89970-03	<0.50	40.0	40.0	39.8	39.1	ug/L	EPA 8260B	12/26/14	99.6	97.8	1.84	70.0-130	25
Benzene	89970-03	11	40.0	40.0	54.9	55.1	ug/L	EPA 8260B	12/26/14	109	109	0.323	70.0-130	25
Diisopropyl ether	89970-03	<0.50	40.0	40.0	44.0	44.1	ug/L	EPA 8260B	12/26/14	110	110	0.236	70.0-130	25
Ethyl-tert-butyl ether	89970-03	<0.50	40.0	40.0	43.7	43.4	ug/L	EPA 8260B	12/26/14	109	108	0.724	70.0-130	25
Ethylbenzene	89970-03	0.65	40.0	40.0	42.4	42.2	ug/L	EPA 8260B	12/26/14	104	104	0.500	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
Methyl-t-butyl ether	89970-03	<0.50	40.0	40.0	49.3	48.4	ug/L	EPA 8260B	12/26/14	123	121	1.74	70.0-130	25
P + M Xylene	89970-03	7.8	40.0	40.0	50.4	51.7	ug/L	EPA 8260B	12/26/14	106	110	3.05	70.0-130	25
Tert-Butanol	89970-03	<5.0	200	200	197	194	ug/L	EPA 8260B	12/26/14	98.5	97.0	1.47	70.0-130	25
Tert-amyl-methyl ether	89970-03	<0.50	40.0	40.0	44.7	44.0	ug/L	EPA 8260B	12/26/14	112	110	1.69	70.0-130	25
Toluene	89970-03	1.1	40.0	40.0	44.0	44.0	ug/L	EPA 8260B	12/26/14	107	107	0.183	70.0-130	25
1,2-Dibromoethane	89963-16	<0.50	40.0	40.0	40.9	40.2	ug/L	EPA 8260B	12/26/14	102	101	1.70	70.0-130	25
1,2-Dichloroethane	89963-16	<0.50	40.0	40.0	34.5	34.4	ug/L	EPA 8260B	12/26/14	86.3	86.1	0.302	70.0-130	25
Benzene	89963-16	<0.50	40.0	40.0	41.1	40.8	ug/L	EPA 8260B	12/26/14	103	102	0.656	70.0-130	25
Diisopropyl ether	89963-16	<0.50	40.0	40.0	41.8	42.6	ug/L	EPA 8260B	12/26/14	105	107	1.91	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
Ethyl-tert-butyl ether	89963-16	<0.50	40.0	40.0	45.3	46.6	ug/L	EPA 8260B	12/26/14	113	116	2.82	70.0-130	25
Ethylbenzene	89963-16	<0.50	40.0	40.0	44.0	43.3	ug/L	EPA 8260B	12/26/14	110	108	1.41	70.0-130	25
Methyl-t-butyl ether	89963-16	<0.50	40.0	40.0	43.6	45.1	ug/L	EPA 8260B	12/26/14	109	113	3.42	70.0-130	25
P + M Xylene	89963-16	<0.50	40.0	40.0	43.4	43.0	ug/L	EPA 8260B	12/26/14	109	108	0.980	70.0-130	25
Tert-Butanol	89963-16	<5.0	200	200	216	216	ug/L	EPA 8260B	12/26/14	108	108	0.385	70.0-130	25
Tert-amyl-methyl ether	89963-16	<0.50	40.0	40.0	42.8	43.7	ug/L	EPA 8260B	12/26/14	107	109	2.08	70.0-130	25
Toluene	89963-16	<0.50	40.0	40.0	40.6	40.4	ug/L	EPA 8260B	12/26/14	101	101	0.559	70.0-130	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
TPH-D (Si Gel)	1000	ug/L	M EPA 8015	12/23/14	97.1	70-130
1,2-Dibromoethane	40.0	ug/L	EPA 8260B	12/24/14	107	70.0-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	12/24/14	111	70.0-130
Benzene	40.0	ug/L	EPA 8260B	12/24/14	104	70.0-130
Diisopropyl ether	40.0	ug/L	EPA 8260B	12/24/14	104	70.0-130
Ethyl-tert-butyl ether	40.0	ug/L	EPA 8260B	12/24/14	104	70.0-130
Ethylbenzene	40.0	ug/L	EPA 8260B	12/24/14	107	70.0-130
Methyl-t-butyl ether	40.0	ug/L	EPA 8260B	12/24/14	104	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	12/24/14	105	70.0-130
Tert-Butanol	200	ug/L	EPA 8260B	12/24/14	108	70.0-130
Tert-amyl-methyl ether	40.0	ug/L	EPA 8260B	12/24/14	109	70.0-130
Toluene	40.0	ug/L	EPA 8260B	12/24/14	106	70.0-130
1,2-Dibromoethane	40.0	ug/L	EPA 8260B	12/26/14	106	70.0-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	12/26/14	96.3	70.0-130
Benzene	40.0	ug/L	EPA 8260B	12/26/14	104	70.0-130
Diisopropyl ether	40.0	ug/L	EPA 8260B	12/26/14	109	70.0-130
Ethyl-tert-butyl ether	40.0	ug/L	EPA 8260B	12/26/14	104	70.0-130
Ethylbenzene	40.0	ug/L	EPA 8260B	12/26/14	101	70.0-130
Methyl-t-butyl ether	40.0	ug/L	EPA 8260B	12/26/14	118	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	12/26/14	102	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
TPH as Gasoline	501	ug/L	EPA 8260B	12/26/14	105	70.0-130
Tert-Butanol	200	ug/L	EPA 8260B	12/26/14	95.9	70.0-130
Tert-amyl-methyl ether	40.0	ug/L	EPA 8260B	12/26/14	106	70.0-130
Toluene	40.0	ug/L	EPA 8260B	12/26/14	104	70.0-130
1,2-Dibromoethane	39.9	ug/L	EPA 8260B	12/26/14	98.1	70.0-130
1,2-Dichloroethane	39.9	ug/L	EPA 8260B	12/26/14	82.9	70.0-130
Benzene	39.9	ug/L	EPA 8260B	12/26/14	99.3	70.0-130
Diisopropyl ether	39.9	ug/L	EPA 8260B	12/26/14	102	70.0-130
Ethyl-tert-butyl ether	39.9	ug/L	EPA 8260B	12/26/14	109	70.0-130
Ethylbenzene	39.9	ug/L	EPA 8260B	12/26/14	107	70.0-130
Methyl-t-butyl ether	39.9	ug/L	EPA 8260B	12/26/14	105	70.0-130
P + M Xylene	39.9	ug/L	EPA 8260B	12/26/14	106	70.0-130
TPH as Gasoline	499	ug/L	EPA 8260B	12/26/14	104	70.0-130
Tert-Butanol	200	ug/L	EPA 8260B	12/26/14	105	70.0-130
Tert-amyl-methyl ether	39.9	ug/L	EPA 8260B	12/26/14	103	70.0-130
Toluene	39.9	ug/L	EPA 8260B	12/26/14	99.4	70.0-130

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

Chain of Custody

89957

SAMPLER (SIGNATURE)

R. J. E. Kelly

PROJECT NAME Lin

PAGE 1 of 1

JOB NO. 2808

ADDRESS 250 8th Street, Oakland, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	QUANTITY	TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015) <i>W/silicon</i>	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	CAM 17 METALS (EPA 6010+7000)	SEMI-VOLATILE ORGANICS (EPA 825/8270)	Pb (TOTAL or DISSOLVED) (EPA 6010)	PES TICIDES (EPA 8081)	FUEL OXYGENATES (EPA 8260)	PURGEABLE HALOCARBONS (EPA 6017/8010)	TPH-GIBTEX/5 OXYS 1/6 SLOW (EPA METHOD: 8230)	MULTI-RANGE HYDROCARBONS WITH SILICA GEL CLEANUP (EPA 8015)	VOLATILE ORGANICS (EPA 824/8240/8260)	LUFT METALS (5) (EPA 6010+7000)	COMPOSITE 4:1	EDF		
																					MW-1
MW-2		815				X								X						X	02
MW-3		1100				X								X						X	03
MW-4R		945				X								X						X	04
MW-5		730				X								X						X	05
MW-7		1250				X								X						X	06

RELINQUISHED BY:

R. J. E. Kelly 1645
 (signature) (time)

Robert E. Kelly 12-18-14
 (printed name) (date)

Company-ASE, INC.

RECEIVED BY:

[Signature]
 (signature) (time)

[Signature]
 (printed name) (date)

Company

RELINQUISHED BY:

[Signature]
 (signature) (time)

[Signature]
 (printed name) (date)

Company

RECEIVED BY LABORATORY: *1645*

Harold Brewer 1750
 (signature) (time)

Harold Brewer 12-18-14
 (signature) (time)

Harold Brewer
 (printed name) (date)
 Company- *Pace*

COMMENTS:

TURN AROUND TIME
 STANDARD 24Hr 48Hr 72Hr

OTHER:

SAMPLE RECEIPT CHECKLIST

SRG #: **89957**

Sample Receipt	Initials/Date: TJB 12/8/14	Storage Time: 2131	Sample Login	Initials/Date: [Signature] 12/20/14
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TAT: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> Split <input type="checkbox"/> None		Method of Receipt: <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Over-the-counter <input type="checkbox"/> Shipped		
Temp °C 3.8 <input type="checkbox"/> N/A	Therm ID IR-1	Time 2121	Coolant present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Water <input type="checkbox"/> Temp Excursion

For Shipments Only:	Cooler Receipt Initials/Date/Time:	Custody Seals <input type="checkbox"/> N/A <input type="checkbox"/> Intact <input type="checkbox"/> Broken
---------------------	------------------------------------	--

Chain-of-Custody:	Yes	No
Is COC present?	<input checked="" type="checkbox"/>	
Is COC signed by relinquisher?	<input checked="" type="checkbox"/>	
Is COC dated by relinquisher?	<input checked="" type="checkbox"/>	
Is the sampler's name on the COC?	<input checked="" type="checkbox"/>	
Are there analyses or hold for all samples?	<input checked="" type="checkbox"/>	

Documented on	COC	Labels	Discrepancies:
Sample ID	/	/	
Project ID	/	/	
Sample Date	/	/	
Sample Time	/	/	
Does COC match project history?			<input type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Samples:	N/A	Yes	No
Are sample custody seals intact?	<input checked="" type="checkbox"/>		
Are sample containers intact?		<input checked="" type="checkbox"/>	
Is preservation documented?		<input checked="" type="checkbox"/> (lots)	
In-house Analysis:	N/A	Yes	No
Are preservatives acceptable?		<input checked="" type="checkbox"/>	
Are samples within holding time?		<input checked="" type="checkbox"/>	
Are sample container types correct?		<input checked="" type="checkbox"/>	
Is there adequate sample volume?		<input checked="" type="checkbox"/>	

Comments:

Receipt Details:

Matrix	Container Type	# of Containers
WA	VOA	30

Requires client: Clarification **Approval** **Notification**

Proceed With Analysis: YES NO Init/Date:

Client Communication: