

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

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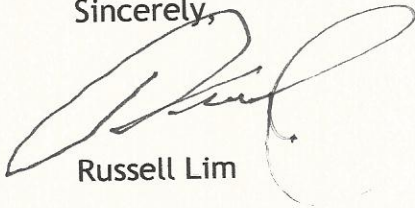
Alameda County
Environmental Health

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, Suite 220, Danville, CA 94526
(925) 820-9391 - Fax (925) 837-4853 - www.aquascienceengineers.com

September 14, 2011

SEMI-ANNUAL GROUNDWATER MONITORING REPORT
JUNE 2011 GROUNDWATER SAMPLING

at

Lim Family Property
250 8th Street
Oakland, California

Submitted by:
AQUA SCIENCE ENGINEERS, INC.
55 Oak Court, Suite 220
Danville, CA 94526
(925) 820-9391



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1.0 INTRODUCTION

This report presents the methods and findings of Aqua Science Engineers, Inc. (ASE)'s semi-annual groundwater monitoring at the Lim family property located at 250 8th Street in Oakland, California (*Figures 1 and 2*).

2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On June 30, 2011, ASE measured the depth to water in monitoring wells MW-1 through MW-8 using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen. No free-floating hydrocarbons or sheen were present in any of the monitoring wells. This was the first sampling event where neither monitoring well MW-3 nor MW-4R contained free-floating hydrocarbons. Groundwater elevation data is presented in Table One.

A groundwater elevation (potentiometric surface) contour map is shown as Figure 2. The groundwater flow direction at the site is generally to the south with an approximate gradient of 0.01 feet/foot during this sampling period. The gradient and flow direction are generally consistent with previous findings, although there is slightly more flow components to the southeast and southwest than typical. This is likely due to slight groundwater mounding related to the beginning of groundwater remediation at the site.

3.0 MONITORING WELL SAMPLING

On June 30, 2011, ASE collected groundwater samples from all eight 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 A for copies of the well sampling field logs.



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4.0 ANALYTICAL RESULTS FOR GROUNDWATER

All groundwater samples were analyzed by KIFF for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethyl benzene, 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 B.

5.0 CONCLUSIONS

- TPH-G and benzene concentrations in groundwater samples collected from monitoring well MW-1 increased and are at the highest concentrations in the past ten years. This is likely due to the beginning of sparging at the site and represents a slight shift in the water table from mounding. The TPH-G concentrations of 650 and benzene concentration of 1.9 ppb are still among the lowest concentrations detected at the site.
- TPH-G, toluene, ethyl benzene, and total xylene concentrations in groundwater samples collected from monitoring well MW-2 increased from the previous results and are at the highest concentrations for the last several years, while benzene concentrations decreased in the same sample. No oxygenates or lead scavengers were detected.
- No free-floating hydrocarbons were detected in monitoring well MW-3 this period. However, very high hydrocarbon concentrations (140,000 ppb TPH-G, 12,000 ppb benzene, 21,000 ppb toluene, 4,000 ppb ethylbenzene, and 17,000 ppb total xylenes) were detected in the groundwater sample collected from this monitoring well. No oxygenates or lead scavengers were detected.
- No free-floating hydrocarbons were detected in monitoring well MW-4R this period. However, very high hydrocarbon concentrations (190,000 ppb TPH-G, 3,800 ppb benzene, 11,000 ppb toluene, 2,900 ppb ethylbenzene, and 20,000 ppb total xylenes) were detected in the groundwater sample collected from this monitoring well. No oxygenates or lead scavengers were detected.
- TPH-G, TPH-D, toluene, ethylbenzene, total xylenes, and lead scavenger concentrations in groundwater samples collected from monitoring well MW-5 remained non-detectable during this sampling event. Benzene was detected for the first time since 2008 at 1.6 ppb. The only oxygenate concentration detected was 1.0 ppb DIPE.
- No hydrocarbons or oxygenates were detected in groundwater samples collected from monitoring well MW-6.
- TPH-G and ethylbenzene concentrations increased slightly from the previous sampling in groundwater samples collected from monitoring well MW-7, while benzene, toluene and total xylene concentrations decreased in the same sample. No oxygenates or lead scavengers were detected.
- No hydrocarbons were detected in groundwater samples collected from monitoring well MW-8, indicating that the contamination has not reached the deeper water-bearing zones.

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



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

- Concentrations of TPH-G, benzene, toluene, ethyl benzene, and xylenes in groundwater samples collected from monitoring wells MW-2 through MW-4 and MW-7 exceeded ESLs.
- Concentrations of TPH-G and/or benzene in groundwater samples collected from monitoring wells MW-1 and MW-5 exceeded the ESLs

6.0 RECOMMENDATIONS

ASE has installed an ozone-sparging and vapor extraction remediation system at the site and has begun operation of these remediation systems. ASE recommends continued operation of the remediation system.

Although the previous groundwater monitoring report for this site suggested that the site revert to quarterly monitoring for the first year of remediation system operation, ASE now recommends that the site remain on a semi-annual sampling schedule due to insufficient funding for the project from the California Underground Storage Tank Cleanup Fund to allow for an entire year of operation of the remediation system. With a semi-annual groundwater monitoring schedule, the next groundwater sampling event is scheduled for December 2011.

7.0 REPORT LIMITATIONS

The results presented in this report represent conditions at the time of the groundwater sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from unknown sources, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CAL-DHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.



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Aqua Science Engineers appreciates the opportunity to assist The Lim Family with their environmental needs. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

A handwritten signature in black ink that reads "Robert E. Kitay". The signature is written in a cursive style with a long, sweeping underline.



Robert E. Kitay, P.G., R.E.A.
Senior Geologist

Attachments: Figures 1 and 2
Tables One, Two, and Three
Appendices A and B

cc: Mr. Jerry Wickham, ACHCSA

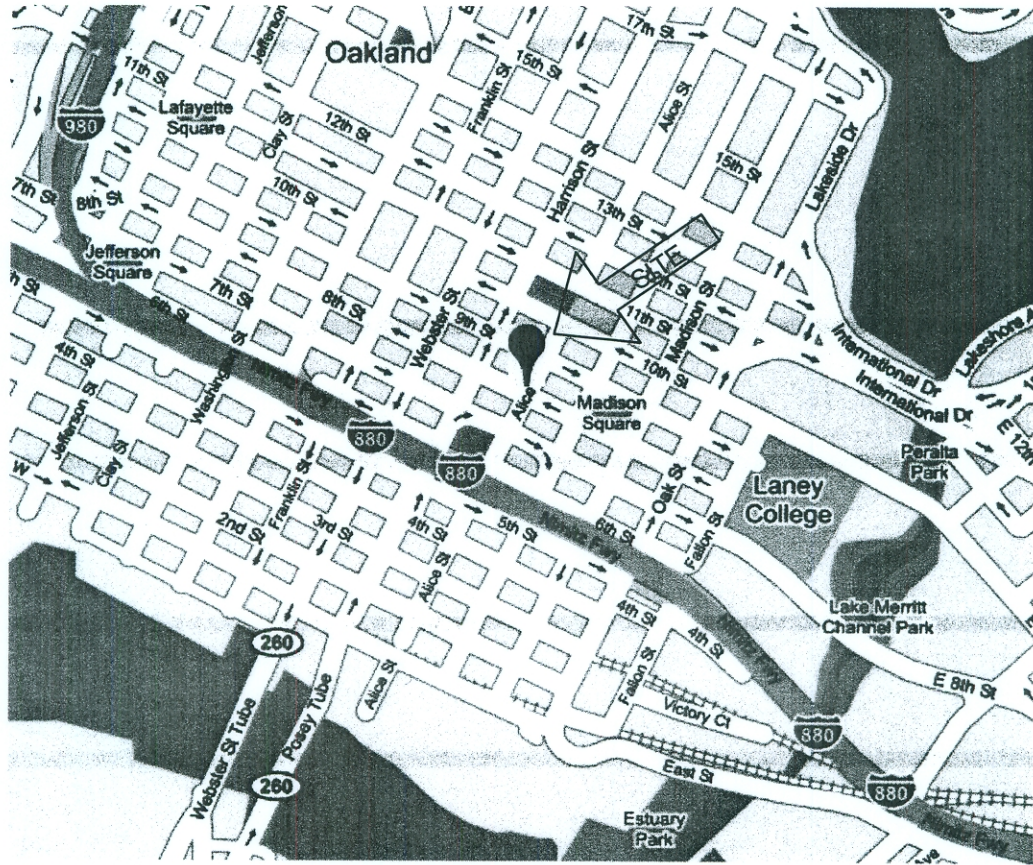


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FIGURES



NORTH

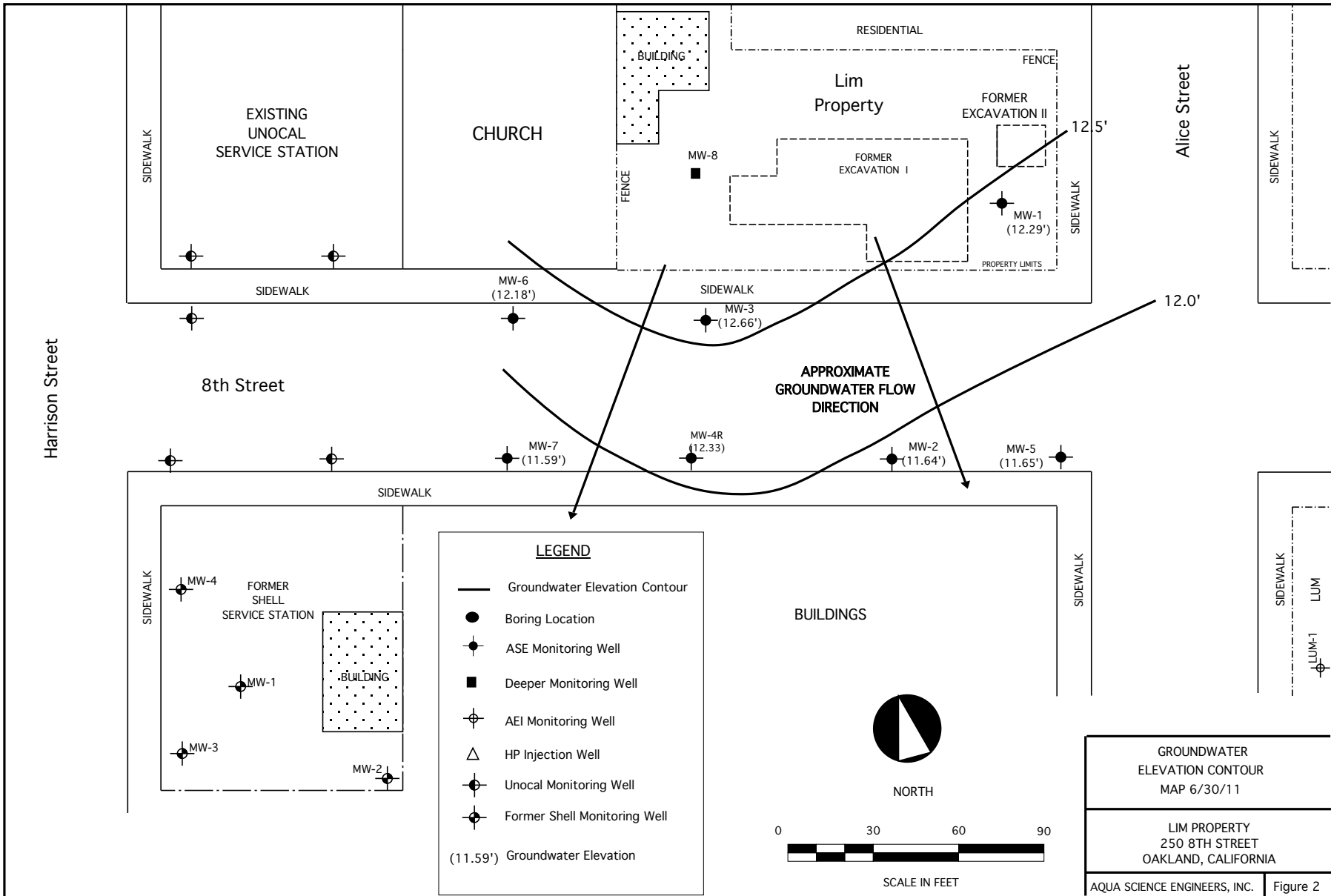


LOCATION MAP

LIM 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
- HP Injection Well
- Unocal Monitoring Well
- Former Shell Monitoring Well
- (11.59') Groundwater Elevation

NORTH

SCALE IN FEET

0 30 60 90

GROUNDWATER ELEVATION CONTOUR MAP 6/30/11	
LIM PROPERTY 250 8TH STREET OAKLAND, CALIFORNIA	
AQUA SCIENCE ENGINEERS, INC.	Figure 2



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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	

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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		14.13
	09/17/02	14.67		13.52	
	12/18/02	14.88		13.31	
	03/25/03	15.11		13.08	
	06/23/03	14.94		13.25	
	09/26/03	15.49		12.70	
	12/18/03	15.13		13.06	
	03/12/04	13.50		14.69	
	06/17/04	14.63		13.56	
	09/17/04	15.19		13.00	
	12/17/04	14.88		13.31	
	04/28/05	13.39		14.80	
	07/19/05	15.27		12.92	
	10/03/05	15.57		12.62	
	12/06/05	15.35		12.84	
	03/15/06	12.65		15.54	
	06/28/06	14.45		13.74	
	08/31/06	15.37		12.82	
11/21/06	16.22		11.97		
02/12/07	16.12		12.07		
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

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 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	

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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

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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

TABLE ONE
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 Lim Family Property
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 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		

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	
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		

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	DIPE	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	< 5.0	< 0.50	< 0.50	< 0.50
11/21/06	220	160	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
02/23/07	140	120	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	< 5.0	< 0.50	< 0.50	< 0.50
05/02/07	180	140	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.3	< 5.0	< 0.50	< 0.50	< 0.50
08/09/07	130	120	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.85	< 5.0	< 0.50	< 0.50	< 0.50
12/06/07	53	160	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 5.0	< 0.50	< 0.50	< 0.50
02/26/08	93	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.1	< 5.0	< 0.50	< 0.50	< 0.50
05/30/08	200	240	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.95	< 5.0	< 0.50	< 0.50	< 0.50
08/28/08	150	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.2	< 5.0	< 0.50	---	---
12/11/08	110	140	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.92	< 5.0	< 0.50	---	---
03/31/09	160	< 200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.8	< 5.0	< 0.50	< 0.50	< 0.50
12/31/09	140	200	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.84	< 5.0	< 0.50	< 0.50	< 0.50
06/03/10	300	140	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.72	< 5.0	< 0.50	< 0.50	< 0.50
12/20/10	140	180	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/30/10	650	< 200	1.9	< 0.50	< 0.50	< 0.50	< 0.50	0.78	< 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	DIPE	TBA	Other Oxys	EDC	EDB
MW-2												
01/30/95	88,000	800	19,000	18,000	2,400	10,000	--	---	---	---	---	---
04/12/95	110,000	990	21,000	28,000	2,800	14,000	--	---	---	---	---	---
07/14/95	120,000	5,000	20,000	25,000	3,200	15,000	--	---	---	---	---	---
10/17/95	190,000	4,000	15,000	26,000	4,900	23,000	--	---	---	---	---	---
01/12/96	32,000	2,600	10,000	8,000	1,100	4,800	< 2	---	---	---	---	---
07/08/96	110,000	2,500	20,000	18,000	2,500	12,000	< 500	---	---	---	---	---
01/06/97	230,000	37,000	11,000	19,000	4,300	20,000	< 1,200	---	---	---	---	---
07/08/97	91,000	35,000	16,000	20,000	2,700	13,000	< 1,000	---	---	---	< 0.5	< 0.5
01/26/98	50,000	11,000	12,000	12,000	1,600	6,700	< 250	---	---	---	11	< 0.5
07/23/98	50,000	8,100#	11,000	8,300	1,800	7,000	1,100	---	---	---	9.9	< 0.5
01/05/99	50,000	7,600#	12,000	12,000	2,300	9,600	1,300	---	---	---	< 50	< 50
07/13/99	73,000	8,500	11,000	13,000	2,200	9,800	< 500	---	---	---	7.7	< 0.5
01/12/00	63,000	11,000	10,000	12,000	1,800	7,800	< 500	---	---	---	8.8	< 1.0
04/24/00	76,000	23,000*	7,100	14,000	2,000	9,400	< 500	---	---	---	5.9	< 5.0
07/20/00	68,000	5,300#	11,000	14,000	2,300	11,000	< 1,000	---	---	---	6.7	< 5.0
10/24/00	48,000	6,400*	11,000	9,400	1,500	7,300	< 500	---	---	---	< 5.0	< 5.0
01/18/01	37,000	4,600*	6,900	5,600	1,200	5,300	< 500	---	---	---	< 5.0	< 5.0
04/05/01	59,000	4,600*	7,100	9,800	1,600	7,600	< 500	---	---	---	4.6	< 5.0
07/17/01	90,000	< 10,000	9,200	14,000	2,700	11,000	< 50	---	---	---	< 50	---
10/25/01	79,000	< 3,800	9,200	14,000	2,400	11,000	< 50	---	---	---	< 50	< 50
01/22/02	76,000	< 2,300	7,000	13,000	2,200	9,600	< 50	---	---	---	< 50	< 50
04/11/02	76,000	< 1,500	7,800	11,000	2,900	12,000	< 50	---	---	---	---	---
06/11/02	72,000	< 2,500	7,300	9,600	2,500	12,000	< 50	---	---	---	---	---
09/17/02	52,000	< 3,000	5,000	5,400	2,100	9,100	< 20	---	---	---	< 20	< 20
12/18/02	46,000	< 6,000	2,900	3,000	1,800	7,600	22	---	---	---	< 10	< 10
03/25/03	87,000	< 8,000	7,900	9,300	2,900	12,000	< 50	---	---	---	< 50	< 50
06/23/03	46,000	< 3000	7,800	4,000	1,900	6,600	< 50	---	---	---	< 50	< 50
09/26/03	52,000	< 3000	9,100	3,500	1,300	5,000	< 50	---	---	---	< 50	< 50
12/18/03	61,000	< 4,000	13,000	3,500	1,600	5,600	< 20	---	---	---	< 20	< 20
03/12/04	53,000	< 4,000	9,100	3,500	1,700	5,700	< 25	---	---	---	< 25	< 25
06/17/04	59,000	< 3,000	7,100	4,000	1,700	7,300	< 25	---	---	---	< 25	< 25
09/17/04	33,000	--	9,800	1,200	1,300	4,000	< 20	---	---	---	---	---
11/10/04***	44,000	3,600	13,000	4,400	1,600	6,000	< 1000	---	---	---	---	---
12/17/04	54,000	< 3,000	7,900	2,200	1,700	3,900	< 15	---	---	---	< 15	< 15
04/28/05	81,000	< 3,000	7,000	6,000	2,100	8,700	< 15	90	< 15	< 15	< 15	< 15
07/19/05	59,000	na	7,900	4,400	1,900	7,000	< 15	< 15	77	< 15	< 15	< 15
10/03/05	34,000	< 800	7,800	810	1,000	2,800	< 15	< 15	< 70	< 15	< 15	< 15
12/06/05	26,000	< 800	6,100	940	770	2,000	< 15	---	---	---	---	---
03/15/06	33,000	< 1,500	7,700	2,600	1,400	4,200	< 15	< 15	< 15	< 15	< 15	< 15
06/28/06	96,000	< 4,000	10,000	14,000	2,900	12,000	< 15	< 15	< 5.0	< 15	33	< 15
8/31/06	47,000	< 3,000	5,800	5,100	2,200	8,700	< 15	< 15	81	< 15	< 15	< 15
11/21/06	51,000	< 1,500	6,800	3,400	1,700	6,200	< 15	< 15	82	< 15	< 15	< 15
02/23/07	38,000	< 1,500	7,800	2,000	1,500	4,600	< 15	< 15	190	< 15	< 15	< 15
05/02/07	55,000	< 3,000	6,500	5,100	2,400	8,600	< 15	< 15	110	< 15	< 15	< 15
08/09/07	39,000	< 3,000	6,600	2,200	1,600	4,900	< 15	< 15	81	< 15	< 15	< 15
12/06/07	20,000	< 1,500	7,400	510	680	1,200	< 15	< 15	120	< 15	< 15	< 15
02/26/08	43,000	< 4,000	8,200	940	1,400	3,700	< 15	< 15	70	< 15	< 15	< 15
05/30/08	31,000	< 1,000	11,000	620	1,100	2,300	< 15	< 15	84	< 15	< 15	< 15
08/28/08	38,000	< 3,000	11,000	630	1,400	3,800	< 25	< 25	< 150	< 25	---	---
12/11/08	32,000	< 2,000	11,000	610	1,000	2,700	< 25	< 25	< 150	< 25	---	---
03/31/09	44,000	< 4,000	6,500	3,300	1,700	5,600	< 9.0	< 9.0	56	< 9.0	< 9.0	< 9.0
12/31/09	36,000	< 4,000	9,700	350	1,600	3,800	< 9.0	13	56	< 9.0	< 9.0	< 9.0
06/03/10	53,000	< 10,000	8,600	2,600	2,500	8,000	< 5.0	8.9	69	< 5.0	< 5.0	< 5.0
12/20/10	39,000	< 4,000	13,000	530	1,600	3,600	< 15	21	< 70	< 15	< 15	< 15
06/30/10	65,000	< 6,000	7,300	5,900	2,400	10,000	< 20	< 20	< 90	< 20	< 20	< 20

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

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	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/ 35,000	52,000/ 87,000	5,700/ 18,000	28,000/ 84,000	< 5,000	---	---	---	---	---
07/20/00	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
10/24/00	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
01/18/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
04/05/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
07/17/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
10/25/01	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
01/22/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
04/11/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
06/11/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
09/17/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
12/18/02	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
03/25/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
06/23/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
09/26/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
12/18/03	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
03/12/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
06/17/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
09/17/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
11/10/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
12/17/04	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
04/28/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
07/19/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
10/03/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
12/06/05	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
03/15/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
06/28/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
8/31/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
11/21/06	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
02/23/07	NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS											
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											
06/30/10	140,000	< 40,000	12,000	21,000	4,000	17,000	< 20	< 20	< 90	< 20	< 20	< 20

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

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	DIPE	TBA	Other Oxys	EDC	EDB
<u>MW-4</u>												
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											
<u>MW-4R</u>												
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											
06/30/10	190,000	<30,000	3,800	11,000	2,900	20,000	<25	<25	<150	<25	<25	<25

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	DIPE	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
06/30/10	< 50	< 50	1.6	< 0.50	< 0.50	< 0.50	< 0.50	1.0	< 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	DIPE	TBA	Other Oxys	EDC	EDB
<u>MW-6</u>												
06/11/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1.2	---	---	---	< 0.5	< 0.5
09/17/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1.0	---	---	---	< 0.5	< 0.5
12/18/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	0.90	---	---	---	< 0.5	< 0.5
03/25/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	< 0.5	< 0.5
06/23/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5
09/26/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5
12/18/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5
03/12/04	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5
06/17/04	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5
09/17/04	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	---	---
11/10/04***	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	---	---
12/17/04	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	---	---	---	< 0.5	< 0.5
04/28/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
07/19/05	< 50	na	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5
10/03/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5
12/06/05	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	---	---	---	---	---
03/15/06	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
06/28/06	< 50	< 50	< 0.5	< 0.5	< 0.5	0.65	< 0.5	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5
08/31/06	< 50	< 50	< 0.50	2.4	0.90	4.0	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
11/21/06	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
02/23/07	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
05/02/07	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
08/09/07	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
12/06/07	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
02/26/08	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
05/30/08	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
08/28/08	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	---	---
12/11/08	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	---	---
03/31/09	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
12/31/09	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/03/10	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
12/20/10	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
06/30/10	< 50	< 50	< 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	DIPE	TBA	Other Oxys	EDC	EDB
MW-7												
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
06/30/10	26,000	< 4,000	190	310	1,800	3,900	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0
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
06/30/10	< 50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0	< 0.50	< 0.50	< 0.50
ESL	100	100	1	40	30	20	5					

Notes:

* = Hydrocarbons reported are in the early diesel range, and do not match the laboratory standards.
 ** = Hydrocarbons reported do not match the laboratory gasoline standard.
 *** = Grab sample - Not purged
 # = Estimated concentration reported due to overlapping fuel patterns.
 / = Results separated by a slash represent results from two different laboratory methods (B020/B260)
 na = not analyzed
 Non-detectable concentrations noted by the less than sign (<) followed by the detection limit.
 Most recent data in bold.
 ESL = Environmental screening levels presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (May 2008)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

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

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

Date Sampled & Compound Analyzed	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
<u>7/8/97</u>								
Hydrocarbon Oil and Grease	-	<1,000	-	-	-	-	-	-
Tetrachloroethane (PCE)	0.9	<0.5	-	-	-	-	-	-
Other VOCs	<0.5 - <3	<0.5 - <3	-	-	-	-	-	-
<u>1/26/98</u>								
Hydrocarbon Oil and Grease	-	<1,000	-	-	-	-	-	-
Trichloroethene	0.7	<5.0	-	-	-	-	-	-
Tetrachloroethene	10	<5.0	-	-	-	-	-	-
1,2-Dichloroethane	<0.5	11	-	-	-	-	-	-
Other VOCs	<0.5 - <50	<0.5 - <50	-	-	-	-	-	-
<u>7/23/98</u>								
Hydrocarbon Oil and Grease	-	<1,000	-	-	-	-	-	-
Tetrachloroethene	4	4.6	-	-	-	-	-	-
1,2-Dichloroethane	<2	9.9	-	-	-	-	-	-
Other VOCs	<2 - <10	<0.5 - <5.0	-	-	-	-	-	-
<u>1/5/99</u>								
Hydrocarbon Oil and Grease	-	<1,000	-	-	-	-	-	-
Tetrachloroethene	5.1	<50	-	-	-	-	-	-
Trichloroethene	0.52	<50	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.58	<50	-	-	-	-	-	-
Chloroform	8.2	<50	-	-	-	-	-	-
Other VOCs	<0.5 - <5	<50 - <500	-	-	-	-	-	-
<u>7/13/99</u>								
Hydrocarbon Oil and Grease	-	<1,000	-	-	-	-	-	-
Tetrachloroethene	1.5	0.68	-	-	-	-	-	-
Chloroform	4.6	<50	-	-	-	-	-	-
1,2-Dichloroethane	<0.50	7.7	-	-	-	-	-	-
Other VOCs	<0.5 - <5	<0.5 - <500	-	-	-	-	-	-
<u>1/12/00</u>								
Hydrocarbon Oil and Grease	-	<1,000	<1,000	<1,000	-	-	-	-
Tetrachloroethene	0.8	<1.0	<100	<50	-	-	-	-
Chloroform	3.2	<1.0	<100	<50	-	-	-	-
1,2-Dichloroethane	<0.50	8.8	120	140	-	-	-	-
Acetone	-	-	25,000	6,400	-	-	-	-
Naphthalene	-	-	550	540	-	-	-	-
Isopropylbenzene	-	-	120	89	-	-	-	-
Other VOCs	<0.5 - <5.0	<1.0 - <4.0	<100 - <10,000	<50 - <5,000	-	-	-	-
<u>4/24/00</u>								
Hydrocarbon Oil and Grease	-	<1,000	4,100	<1,000	-	-	-	-
1,2-Dichloroethane	<0.5	5.9	<1,000	<250	-	-	-	-
Naphthalene	-	-	3,800	590	-	-	-	-
Isopropylbenzene	-	-	1,200	<250	-	-	-	-
Other VOCs	<0.5 - <5.0	<5.0 - <20	1,000 - <100,000	<250 - <25,000	-	-	-	-
<u>7/20/00</u>								
Hydrocarbon Oil and Grease	-	<1,000	-	<1,000	-	-	-	-
Tetrachloroethene	0.59	<5.0	FREE	<200	-	-	-	-
Chloroform	2.1	<5.0	PRODUCT	<200	-	-	-	-
1,2-Dichloroethane	<0.5	6.7	---	<200	-	-	-	-
Acetone	-	-	NOT	<20,000	-	-	-	-
Naphthalene	-	-	SAMPLED	730	-	-	-	-
Other VOCs	<0.5 - <20	<5.0 - <20	-	<250 - <20,000	-	-	-	-
<u>10/24/00</u>								
Hydrocarbon Oil and Grease	-	<1,000	FREE	<1,000	-	-	-	-
Tetrachloroethene	<0.5	<5.0	PRODUCT	<250	-	-	-	-
Chloroform	1.0	<5.0	NOT	<250	-	-	-	-
Other VOCs	<0.5 - <20	<5.0 - <20	SAMPLED	<250 - <25,000	-	-	-	-
<u>1/18/01</u>								
Hydrocarbon Oil and Grease	-	2,100	FREE	1,300	-	-	-	-
Tetrachloroethene	1.3	<5.0	PRODUCT	<250	-	-	-	-
Chloroform	6.4	<5.0	NOT	<250	-	-	-	-
Other VOCs	<0.5 - <20	<5.0 - <20	SAMPLED	<250 - <25,000	-	-	-	-

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

Date Sampled & Compound Analyzed	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
<u>4/5/01</u>								
Hydrocarbon Oil and Grease	-	< 1.0	FREE	1,100.0	-	-	-	-
Tetrachloroethene	< 0.5	1.1	PRODUCT	< 50	-	-	-	-
1,2 dichloroethane	< 0.5	4.6	---	< 50	-	-	-	-
Trichloroethene	< 0.5	0.58	NOT	< 50	-	-	-	-
Naphthalene	-	-	---	320	-	-	-	-
Other VOCs	< 0.5 - < 2.0	< 5.0 - < 20	SAMPLED	< 50 - < 5,000	-	-	-	-
<u>7/17/01</u>								
Hydrocarbon Oil and Grease	-	< 500	FREE	< 500	-	-	-	-
Tetrachloroethene	-	-	PRODUCT	-	-	-	-	-
1,2 dichloroethane	< 0.5	< 50	---	69.0	-	-	-	-
Trichloroethene	-	-	NOT	-	-	-	-	-
Naphthalene	-	-	---	-	-	-	-	-
Other VOCs	-	-	SAMPLED	-	-	-	-	-



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APPENDIX A

Well Sampling Field Log

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME LLM

JOB NUMBER 2808 DATE OF SAMPLING 06-30-11

WELL ID. MW-1 SAMPLER 0A

TOTAL DEPTH OF WELL 26.80 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 17.43 TIME OF MEASUREMENT

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 9.37

NUMBER OF GALLONS PER WELL CASING VOLUME 1.5

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 4.5

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 1005 TIME EVACUATION COMPLETED 1015

TIME SAMPLES WERE COLLECTED 1017

DID WELL GO DRY No AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 5

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR clear ODOR/SEDIMENT No / No

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.8	6.4	570
2	19.9	6.4	570
3	19.9	6.4	580

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-1	5	40 mL WAT	8015/8260	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME LLM

JOB NUMBER 2808 DATE OF SAMPLING 06-30-11

WELL ID. MW-2 SAMPLER 0A

TOTAL DEPTH OF WELL 26.80 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 16.55 TIME OF MEASUREMENT

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 10.25

NUMBER OF GALLONS PER WELL CASING VOLUME 1.64

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 4.92

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 0655 TIME EVACUATION COMPLETED 0702

TIME SAMPLES WERE COLLECTED 0705

DID WELL GO DRY no AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 5

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR LT GRAY ODOR/SEDIMENT no #2 / slight

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	18.3	6.6	700
2	18.1	6.7	710
3	18.1	6.7	710

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-2	5	40 mL WAX	8015/8260	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME LIM

JOB NUMBER 2808 DATE OF SAMPLING 06.30.11

WELL ID. MW-3 SAMPLER DA

TOTAL DEPTH OF WELL 30.0 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 15.92 TIME OF MEASUREMENT

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 14.08

NUMBER OF GALLONS PER WELL CASING VOLUME 2.25

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 6.75

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 0850 TIME EVACUATION COMPLETED 0906

TIME SAMPLES WERE COLLECTED 0910

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 7

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR LT GRAY ODOR/SEDIMENT STRONG HC / SLIGHT

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	20.2	6.4	820
2	20.3	6.5	810
3	20.3	6.5	820

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-3	5	40 mL VOA	3015/8260	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME LIM

JOB NUMBER 2808 DATE OF SAMPLING 06-30-11

WELL ID. MW-4 SAMPLER DA

TOTAL DEPTH OF WELL 28.0 WELL DIAMETER 4

DEPTH TO WATER PRIOR TO PURGING 16.45 TIME OF MEASUREMENT

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 11.55

NUMBER OF GALLONS PER WELL CASING VOLUME 3.46

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 10

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 0755 TIME EVACUATION COMPLETED 0815

TIME SAMPLES WERE COLLECTED 0818

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 10

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR LT GRAY ODOR/SEDIMENT STR NG / SLIGHT

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.0	6.6	600
2	18.8	6.7	610
3	18.8	6.7	610

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-4	5	40 ML WAX	3015/8260	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME LIM

JOB NUMBER 2808 DATE OF SAMPLING 06.30.11

WELL ID. MW-5 SAMPLER 0A

TOTAL DEPTH OF WELL 29.6 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 16.75 TIME OF MEASUREMENT

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 12.85

NUMBER OF GALLONS PER WELL CASING VOLUME 2

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 6

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 0715 TIME EVACUATION COMPLETED 0725

TIME SAMPLES WERE COLLECTED 0727

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 6

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR LT BKN ODOR/SEDIMENT NO / SLIGHT

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	18.3	6.9	560
2	18.3	6.7	520
3	18.4	6.7	520

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-5	5	40 ML 0A	8015/8260	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME L14

JOB NUMBER 2808 DATE OF SAMPLING 06-30-11

WELL ID. MW-6 SAMPLER 0A

TOTAL DEPTH OF WELL 29.5 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 17.02 TIME OF MEASUREMENT

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 12.48

NUMBER OF GALLONS PER WELL CASING VOLUME 2

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 6

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 0825 TIME EVACUATION COMPLETED 0834

TIME SAMPLES WERE COLLECTED 0837

DID WELL GO DRY No AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 6

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR brn ODOR/SEDIMENT No / slight

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.0	6.6	200
2	19.0	6.5	220
3	19.0	6.4	230

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-6	5	40 mL 10A	8015/8260	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME L14

JOB NUMBER 2808 DATE OF SAMPLING 06.30.11

WELL ID. MW-7 SAMPLER 04

TOTAL DEPTH OF WELL 28.0 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 17.36 TIME OF MEASUREMENT

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 10.64

NUMBER OF GALLONS PER WELL CASING VOLUME 1.7

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 5.1

EQUIPMENT USED TO PURGE WELL NEW DISPOSABLE BAILER

TIME EVACUATION STARTED 0735 TIME EVACUATION COMPLETED 0745

TIME SAMPLES WERE COLLECTED ~~0740~~ 0747

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 5.1

SAMPLING DEVICE NEW DISPOSABLE BAILER

SAMPLE COLOR LT GRAY ODOR/SEDIMENT NO H2S / SLIGHT

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	18.7	6.7	640
2	18.8	6.7	650
3	18.8	6.7	660

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-7	5	40 mL 10x	8015/8260	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME <u>L14</u>	
JOB NUMBER <u>2808</u>	DATE OF SAMPLING <u>06-30-11</u>
WELL ID. <u>MW-8</u>	SAMPLER <u>04</u>
TOTAL DEPTH OF WELL <u>49.00</u>	WELL DIAMETER <u>2</u>
DEPTH TO WATER PRIOR TO PURGING <u>26.95</u>	TIME OF MEASUREMENT
PRODUCT THICKNESS <u>0</u>	
DEPTH OF WELL CASING IN WATER <u>27.05</u>	
NUMBER OF GALLONS PER WELL CASING VOLUME <u>4.3</u>	
NUMBER OF WELL CASING VOLUMES TO BE REMOVED <u>3</u>	
REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING <u>13</u>	
EQUIPMENT USED TO PURGE WELL	<u>NEW DISPOSABLE BAILER</u>
TIME EVACUATION STARTED <u>0930</u>	TIME EVACUATION COMPLETED <u>0945</u>
TIME SAMPLES WERE COLLECTED <u>0950</u>	
DID WELL GO DRY <u>No</u>	AFTER HOW MANY GALLONS <u>—</u>
VOLUME OF GROUNDWATER PURGED <u>13</u>	
SAMPLING DEVICE	<u>NEW DISPOSABLE BAILER</u>
SAMPLE COLOR <u>clear</u>	ODOR/SEDIMENT <u>N.O./N.O</u>

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
<u>1</u>	<u>20.3</u>	<u>8.1</u>	<u>520</u>
<u>2</u>	<u>20.1</u>	<u>8.2</u>	<u>510</u>
<u>3</u>	<u>20.1</u>	<u>8.2</u>	<u>500</u>

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
<u>MW-8</u>	<u>5</u>	<u>40 mL 04</u>	<u>3015/8260</u>	<u>✓</u>



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APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation



Laboratory Results

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

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

Dear Mr. Allen,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC standard. All soil samples are reported on a total weight (wet weight) basis unless noted otherwise in the case narrative. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff

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

Case Narrative

Sample MW-2 was analyzed outside of hold time for Method EPA 8260B. The hydrochloric acid (HCl) preservation was insufficient to maintain a pH of 2.0 or less required to extend sample hold time from 7 to 14 days.

Project Name : **LIM**

Project Number : **2808**

Sample : **MW-1**

Matrix : Water

Lab Number : 78028-01

Sample Date :06/30/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	1.9	0.50	ug/L	EPA 8260B	07/09/11 00:24
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/09/11 00:24
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/09/11 00:24
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/09/11 00:24
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/09/11 00:24
Diisopropyl ether (DIPE)	0.78	0.50	ug/L	EPA 8260B	07/09/11 00:24
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/09/11 00:24
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/09/11 00:24
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/09/11 00:24
TPH as Gasoline	650	50	ug/L	EPA 8260B	07/09/11 00:24
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/09/11 00:24
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	07/09/11 00:24
1,2-Dichloroethane-d4 (Surr)	95.0		% Recovery	EPA 8260B	07/09/11 00:24
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	07/09/11 00:24
TPH as Diesel (Silica Gel)	< 200	200	ug/L	M EPA 8015	07/13/11 01:51
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
Octacosane (Silica Gel Surr)	111		% Recovery	M EPA 8015	07/13/11 01:51

Project Name : **LIM**

Project Number : **2808**

Sample : **MW-2**

Matrix : Water

Lab Number : 78028-02

Sample Date :06/30/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	7300	20	ug/L	EPA 8260B	07/09/11 04:57
Toluene	5900	20	ug/L	EPA 8260B	07/09/11 04:57
Ethylbenzene	2400	20	ug/L	EPA 8260B	07/09/11 04:57
Total Xylenes	10000	20	ug/L	EPA 8260B	07/09/11 04:57
Methyl-t-butyl ether (MTBE)	< 20	20	ug/L	EPA 8260B	07/09/11 04:57
Diisopropyl ether (DIPE)	< 20	20	ug/L	EPA 8260B	07/09/11 04:57
Ethyl-t-butyl ether (ETBE)	< 20	20	ug/L	EPA 8260B	07/09/11 04:57
Tert-amyl methyl ether (TAME)	< 20	20	ug/L	EPA 8260B	07/09/11 04:57
Tert-Butanol	< 90	90	ug/L	EPA 8260B	07/09/11 04:57
TPH as Gasoline	65000	2000	ug/L	EPA 8260B	07/09/11 04:57
1,2-Dichloroethane	< 20	20	ug/L	EPA 8260B	07/09/11 04:57
1,2-Dibromoethane	< 20	20	ug/L	EPA 8260B	07/09/11 04:57
1,2-Dichloroethane-d4 (Surr)	97.0		% Recovery	EPA 8260B	07/09/11 04:57
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	07/09/11 04:57
TPH as Diesel (Silica Gel)	< 6000	6000	ug/L	M EPA 8015	07/13/11 09:01
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
Octacosane (Silica Gel Surr)	99.5		% Recovery	M EPA 8015	07/13/11 09:01

Project Name : **LIM**

Project Number : **2808**

Sample : **MW-3**

Matrix : Water

Lab Number : 78028-03

Sample Date :06/30/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	12000	20	ug/L	EPA 8260B	07/09/11 05:33
Toluene	21000	50	ug/L	EPA 8260B	07/12/11 00:19
Ethylbenzene	4000	20	ug/L	EPA 8260B	07/09/11 05:33
Total Xylenes	17000	50	ug/L	EPA 8260B	07/12/11 00:19
Methyl-t-butyl ether (MTBE)	< 20	20	ug/L	EPA 8260B	07/09/11 05:33
Diisopropyl ether (DIPE)	< 20	20	ug/L	EPA 8260B	07/09/11 05:33
Ethyl-t-butyl ether (ETBE)	< 20	20	ug/L	EPA 8260B	07/09/11 05:33
Tert-amyl methyl ether (TAME)	< 20	20	ug/L	EPA 8260B	07/09/11 05:33
Tert-Butanol	< 90	90	ug/L	EPA 8260B	07/09/11 05:33
TPH as Gasoline	140000	2000	ug/L	EPA 8260B	07/09/11 05:33
1,2-Dichloroethane	< 20	20	ug/L	EPA 8260B	07/09/11 05:33
1,2-Dibromoethane	< 20	20	ug/L	EPA 8260B	07/09/11 05:33
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	07/09/11 05:33
Toluene - d8 (Surr)	97.7		% Recovery	EPA 8260B	07/09/11 05:33
TPH as Diesel (Silica Gel)	< 40000	40000	ug/L	M EPA 8015	07/13/11 03:02
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
Octacosane (Silica Gel Surr)	105		% Recovery	M EPA 8015	07/13/11 03:02

Project Name : **LIM**

Project Number : **2808**

Sample : **MW-4**

Matrix : Water

Lab Number : 78028-04

Sample Date :06/30/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	3800	25	ug/L	EPA 8260B	07/09/11 06:12
Toluene	11000	25	ug/L	EPA 8260B	07/09/11 06:12
Ethylbenzene	2900	25	ug/L	EPA 8260B	07/09/11 06:12
Total Xylenes	20000	25	ug/L	EPA 8260B	07/09/11 06:12
Methyl-t-butyl ether (MTBE)	< 25	25	ug/L	EPA 8260B	07/09/11 06:12
Diisopropyl ether (DIPE)	< 25	25	ug/L	EPA 8260B	07/09/11 06:12
Ethyl-t-butyl ether (ETBE)	< 25	25	ug/L	EPA 8260B	07/09/11 06:12
Tert-amyl methyl ether (TAME)	< 25	25	ug/L	EPA 8260B	07/09/11 06:12
Tert-Butanol	< 150	150	ug/L	EPA 8260B	07/09/11 06:12
TPH as Gasoline	190000	2500	ug/L	EPA 8260B	07/09/11 06:12
1,2-Dichloroethane	< 25	25	ug/L	EPA 8260B	07/09/11 06:12
1,2-Dibromoethane	< 25	25	ug/L	EPA 8260B	07/09/11 06:12
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	07/09/11 06:12
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	07/09/11 06:12
TPH as Diesel (Silica Gel)	< 30000	30000	ug/L	M EPA 8015	07/13/11 03:37
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
Octacosane (Silica Gel Surr)	105		% Recovery	M EPA 8015	07/13/11 03:37

Project Name : **LIM**

Project Number : **2808**

Sample : **MW-5**

Matrix : Water

Lab Number : 78028-05

Sample Date :06/30/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	1.6	0.50	ug/L	EPA 8260B	07/13/11 02:34
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/13/11 02:34
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/13/11 02:34
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/13/11 02:34
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/13/11 02:34
Diisopropyl ether (DIPE)	1.0	0.50	ug/L	EPA 8260B	07/13/11 02:34
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/13/11 02:34
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/13/11 02:34
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/13/11 02:34
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/13/11 02:34
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/13/11 02:34
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	07/13/11 02:34
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	07/13/11 02:34
Toluene - d8 (Surr)	94.3		% Recovery	EPA 8260B	07/13/11 02:34
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	07/13/11 06:40
Octacosane (Silica Gel Surr)	110		% Recovery	M EPA 8015	07/13/11 06:40

Project Name : **LIM**

Project Number : **2808**

Sample : **MW-6**

Matrix : Water

Lab Number : 78028-06

Sample Date :06/30/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:21
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:21
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:21
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:21
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:21
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:21
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:21
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:21
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/11/11 14:21
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/11/11 14:21
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:21
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:21
1,2-Dichloroethane-d4 (Surr)	99.3		% Recovery	EPA 8260B	07/11/11 14:21
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	07/11/11 14:21
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	07/13/11 23:54
Octacosane (Silica Gel Surr)	106		% Recovery	M EPA 8015	07/13/11 23:54

Project Name : **LIM**

Project Number : **2808**

Sample : **MW-7**

Matrix : Water

Lab Number : 78028-07

Sample Date :06/30/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	190	5.0	ug/L	EPA 8260B	07/09/11 01:53
Toluene	310	5.0	ug/L	EPA 8260B	07/09/11 01:53
Ethylbenzene	1800	5.0	ug/L	EPA 8260B	07/09/11 01:53
Total Xylenes	3900	5.0	ug/L	EPA 8260B	07/09/11 01:53
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	07/09/11 01:53
Diisopropyl ether (DIPE)	< 5.0	5.0	ug/L	EPA 8260B	07/09/11 01:53
Ethyl-t-butyl ether (ETBE)	< 5.0	5.0	ug/L	EPA 8260B	07/09/11 01:53
Tert-amyl methyl ether (TAME)	< 5.0	5.0	ug/L	EPA 8260B	07/09/11 01:53
Tert-Butanol	< 25	25	ug/L	EPA 8260B	07/09/11 01:53
TPH as Gasoline	26000	500	ug/L	EPA 8260B	07/09/11 01:53
1,2-Dichloroethane	< 5.0	5.0	ug/L	EPA 8260B	07/09/11 01:53
1,2-Dibromoethane	< 5.0	5.0	ug/L	EPA 8260B	07/09/11 01:53
1,2-Dichloroethane-d4 (Surr)	98.3		% Recovery	EPA 8260B	07/09/11 01:53
Toluene - d8 (Surr)	96.1		% Recovery	EPA 8260B	07/09/11 01:53
TPH as Diesel (Silica Gel)	< 4000	4000	ug/L	M EPA 8015	07/13/11 07:50
(Note: MRL increased due to interference from Gasoline-range hydrocarbons.)					
Octacosane (Silica Gel Surr)	106		% Recovery	M EPA 8015	07/13/11 07:50

Project Name : **LIM**

Project Number : **2808**

Sample : **MW-8**

Matrix : Water

Lab Number : 78028-08

Sample Date :06/30/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:56
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:56
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:56
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:56
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:56
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:56
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:56
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:56
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/11/11 14:56
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/11/11 14:56
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:56
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	07/11/11 14:56
1,2-Dichloroethane-d4 (Surr)	99.2		% Recovery	EPA 8260B	07/11/11 14:56
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	07/11/11 14:56
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	07/13/11 08:26
Octacosane (Silica Gel Surr)	112		% Recovery	M EPA 8015	07/13/11 08:26

QC Report : Method Blank Data

Project Name : LIM

Project Number : 2808

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	07/12/2011
Octacosane (Silica Gel Surr)	74.6		%	M EPA 8015	07/12/2011
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	07/14/2011
Octacosane (Silica Gel Surr)	111		%	M EPA 8015	07/14/2011
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2011
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2011
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/08/2011
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/08/2011
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/08/2011
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/08/2011
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/08/2011
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/08/2011
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/08/2011
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/08/2011
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	07/08/2011
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/08/2011
1,2-Dichloroethane-d4 (Surr)	95.2		%	EPA 8260B	07/08/2011
Toluene - d8 (Surr)	102		%	EPA 8260B	07/08/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/12/2011
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/12/2011
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/12/2011
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/12/2011
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/12/2011
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/12/2011
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/12/2011
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/12/2011
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/12/2011
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/12/2011
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	07/12/2011
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/12/2011
1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	07/12/2011
Toluene - d8 (Surr)	100		%	EPA 8260B	07/12/2011
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/11/2011
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/11/2011
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/11/2011
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/11/2011
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/11/2011
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/11/2011
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/11/2011
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/11/2011
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/11/2011
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/11/2011
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	07/11/2011
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/11/2011
1,2-Dichloroethane-d4 (Surr)	98.8		%	EPA 8260B	07/11/2011
Toluene - d8 (Surr)	99.5		%	EPA 8260B	07/11/2011

Report Number : 78028

Date : 07/14/2011

QC Report : Method Blank Data

Project Name : **LIM**

Project Number : **2808**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/11/2011
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/11/2011

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : LIM

Project Number : 2808

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,2-Dibromoethane	78028-01	<0.50	39.6	39.4	38.0	39.3	ug/L	EPA 8260B	7/9/11	96.1	99.6	3.58	80-120	25
1,2-Dichloroethane	78028-01	<0.50	39.8	39.6	39.1	38.9	ug/L	EPA 8260B	7/9/11	98.3	98.2	0.183	75.7-122	25
Benzene	78028-01	1.9	39.8	39.6	40.1	39.4	ug/L	EPA 8260B	7/9/11	96.0	94.7	1.36	80-120	25
Diisopropyl ether	78028-01	0.78	39.4	39.2	38.2	39.3	ug/L	EPA 8260B	7/9/11	95.2	98.2	3.10	80-120	25
Ethyl-tert-butyl ether	78028-01	<0.50	39.7	39.5	35.9	36.4	ug/L	EPA 8260B	7/9/11	90.6	92.0	1.62	76.5-120	25
Ethylbenzene	78028-01	<0.50	39.8	39.6	41.4	41.6	ug/L	EPA 8260B	7/9/11	104	105	1.05	80-120	25
Methyl-t-butyl ether	78028-01	<0.50	40.0	39.8	37.0	38.4	ug/L	EPA 8260B	7/9/11	92.6	96.4	4.01	69.7-121	25
P + M Xylene	78028-01	<0.50	39.8	39.6	38.8	39.2	ug/L	EPA 8260B	7/9/11	97.7	99.1	1.49	76.8-120	25
Tert-Butanol	78028-01	<5.0	192	192	212	202	ug/L	EPA 8260B	7/9/11	110	105	4.59	80-120	25
Tert-amyl-methyl ether	78028-01	<0.50	39.7	39.5	37.1	38.5	ug/L	EPA 8260B	7/9/11	93.7	97.4	3.97	78.9-120	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : LIM

Project Number : 2808

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Toluene	78028-01	<0.50	39.8	39.6	39.2	39.4	ug/L	EPA 8260B	7/9/11	98.6	99.6	0.997	80-120	25
1,2-Dibromoethane	78093-03	<0.50	39.8	39.8	42.4	39.7	ug/L	EPA 8260B	7/12/11	106	99.7	6.61	80-120	25
1,2-Dichloroethane	78093-03	<0.50	40.0	40.0	42.1	39.3	ug/L	EPA 8260B	7/12/11	105	98.4	6.86	75.7-122	25
Benzene	78093-03	<0.50	40.0	40.0	42.1	39.6	ug/L	EPA 8260B	7/12/11	105	99.0	6.12	80-120	25
Diisopropyl ether	78093-03	<0.50	39.6	39.6	42.3	39.5	ug/L	EPA 8260B	7/12/11	107	99.7	6.76	80-120	25
Ethyl-tert-butyl ether	78093-03	<0.50	39.9	39.9	41.0	38.9	ug/L	EPA 8260B	7/12/11	103	97.4	5.32	76.5-120	25
Ethylbenzene	78093-03	<0.50	40.0	40.0	43.6	40.6	ug/L	EPA 8260B	7/12/11	109	102	7.07	80-120	25
Methyl-t-butyl ether	78093-03	<0.50	40.2	40.2	40.2	37.6	ug/L	EPA 8260B	7/12/11	99.9	93.4	6.70	69.7-121	25
P + M Xylene	78093-03	<0.50	40.0	40.0	42.7	39.0	ug/L	EPA 8260B	7/12/11	107	97.6	8.85	76.8-120	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	78093-03	<5.0	193	193	212	201	ug/L	EPA 8260B	7/12/11	110	104	5.45	80-120	25
Tert-amyl-methyl ether	78093-03	<0.50	39.9	39.9	42.7	39.9	ug/L	EPA 8260B	7/12/11	107	100	6.59	78.9-120	25
Toluene	78093-03	<0.50	40.0	40.0	42.4	39.6	ug/L	EPA 8260B	7/12/11	106	99.0	6.78	80-120	25
1,2-Dibromoethane	78059-01	<0.50	39.8	39.8	39.3	37.5	ug/L	EPA 8260B	7/11/11	98.6	94.2	4.51	80-120	25
1,2-Dichloroethane	78059-01	<0.50	40.0	40.0	35.6	33.8	ug/L	EPA 8260B	7/11/11	89.1	84.5	5.31	75.7-122	25
Benzene	78059-01	<0.50	40.0	40.0	37.0	35.0	ug/L	EPA 8260B	7/11/11	92.4	87.4	5.48	80-120	25
Diisopropyl ether	78059-01	<0.50	39.6	39.6	38.5	36.6	ug/L	EPA 8260B	7/11/11	97.3	92.5	5.02	80-120	25
Ethyl-tert-butyl ether	78059-01	<0.50	39.9	39.9	37.6	36.0	ug/L	EPA 8260B	7/11/11	94.1	90.3	4.16	76.5-120	25
Ethylbenzene	78059-01	<0.50	40.0	40.0	38.4	36.2	ug/L	EPA 8260B	7/11/11	95.9	90.5	5.77	80-120	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	78059-01	<0.50	40.2	40.2	34.7	33.0	ug/L	EPA 8260B	7/11/11	86.3	82.1	5.04	69.7-121	25
P + M Xylene	78059-01	<0.50	40.0	40.0	38.7	36.8	ug/L	EPA 8260B	7/11/11	96.7	91.9	5.08	76.8-120	25
Tert-Butanol	78059-01	<5.0	193	193	195	186	ug/L	EPA 8260B	7/11/11	101	95.9	5.01	80-120	25
Tert-amyl-methyl ether	78059-01	<0.50	39.9	39.9	37.9	35.9	ug/L	EPA 8260B	7/11/11	95.0	90.0	5.31	78.9-120	25
Toluene	78059-01	<0.50	40.0	40.0	37.3	35.5	ug/L	EPA 8260B	7/11/11	93.3	88.8	5.00	80-120	25
P + M Xylene	78070-02	<0.50	40.0	40.0	38.4	38.1	ug/L	EPA 8260B	7/11/11	96.0	95.2	0.768	76.8-120	25
Toluene	78070-02	<0.50	40.0	40.0	36.9	36.6	ug/L	EPA 8260B	7/11/11	92.4	91.6	0.821	80-120	25
TPH-D (Si Gel)	BLANK	<50	1000	1000	894	941	ug/L	M EPA 8015	7/12/11	89.4	94.1	5.15	70-130	25
TPH-D (Si Gel)	BLANK	<50	1000	1000	1000	1050	ug/L	M EPA 8015	7/13/11	100	105	4.98	70-130	25

QC Report : Laboratory Control Sample (LCS)

Project Name : LIM

Project Number : 2808

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,2-Dibromoethane	39.8	ug/L	EPA 8260B	7/8/11	96.7	80-120
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	7/8/11	100	75.7-122
Benzene	40.0	ug/L	EPA 8260B	7/8/11	98.1	80-120
Diisopropyl ether	39.6	ug/L	EPA 8260B	7/8/11	99.0	80-120
Ethyl-tert-butyl ether	39.9	ug/L	EPA 8260B	7/8/11	93.3	76.5-120
Ethylbenzene	40.0	ug/L	EPA 8260B	7/8/11	107	80-120
Methyl-t-butyl ether	40.2	ug/L	EPA 8260B	7/8/11	95.9	69.7-121
P + M Xylene	40.0	ug/L	EPA 8260B	7/8/11	100	76.8-120
Tert-Butanol	193	ug/L	EPA 8260B	7/8/11	107	80-120
Tert-amyl-methyl ether	39.9	ug/L	EPA 8260B	7/8/11	102	78.9-120
Toluene	40.0	ug/L	EPA 8260B	7/8/11	103	80-120
1,2-Dibromoethane	39.6	ug/L	EPA 8260B	7/12/11	104	80-120
1,2-Dichloroethane	39.8	ug/L	EPA 8260B	7/12/11	104	75.7-122
Benzene	39.8	ug/L	EPA 8260B	7/12/11	104	80-120
Diisopropyl ether	39.4	ug/L	EPA 8260B	7/12/11	106	80-120
Ethyl-tert-butyl ether	39.7	ug/L	EPA 8260B	7/12/11	103	76.5-120
Ethylbenzene	39.8	ug/L	EPA 8260B	7/12/11	108	80-120
Methyl-t-butyl ether	40.0	ug/L	EPA 8260B	7/12/11	98.9	69.7-121
P + M Xylene	39.8	ug/L	EPA 8260B	7/12/11	106	76.8-120
TPH as Gasoline	504	ug/L	EPA 8260B	7/12/11	99.1	70.0-130
Tert-Butanol	192	ug/L	EPA 8260B	7/12/11	108	80-120
Tert-amyl-methyl ether	39.7	ug/L	EPA 8260B	7/12/11	106	78.9-120

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
Toluene	39.8	ug/L	EPA 8260B	7/12/11	105	80-120
1,2-Dibromoethane	39.9	ug/L	EPA 8260B	7/11/11	97.3	80-120
1,2-Dichloroethane	40.1	ug/L	EPA 8260B	7/11/11	87.4	75.7-122
Benzene	40.1	ug/L	EPA 8260B	7/11/11	90.6	80-120
Diisopropyl ether	39.7	ug/L	EPA 8260B	7/11/11	94.9	80-120
Ethyl-tert-butyl ether	40.0	ug/L	EPA 8260B	7/11/11	91.7	76.5-120
Ethylbenzene	40.1	ug/L	EPA 8260B	7/11/11	94.5	80-120
Methyl-t-butyl ether	40.3	ug/L	EPA 8260B	7/11/11	85.0	69.7-121
P + M Xylene	40.1	ug/L	EPA 8260B	7/11/11	95.5	76.8-120
TPH as Gasoline	501	ug/L	EPA 8260B	7/11/11	97.8	70.0-130
Tert-Butanol	194	ug/L	EPA 8260B	7/11/11	97.9	80-120
Tert-amyl-methyl ether	40.0	ug/L	EPA 8260B	7/11/11	92.5	78.9-120
Toluene	40.1	ug/L	EPA 8260B	7/11/11	91.4	80-120
P + M Xylene	39.9	ug/L	EPA 8260B	7/11/11	98.0	76.8-120
Toluene	39.9	ug/L	EPA 8260B	7/11/11	94.5	80-120

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

Chain of Custody 78028

PAGE 1 of 1

SAMPLER (SIGNATURE)

[Signature]

PROJECT NAME LLM

JOB NO. 2808

ADDRESS 250 8th Street, Oakland CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	QUANTITY	TPH-GAS / MTBE & BTEX (EPA 5050/8015-8020)	TPH-DIESEL (EPA 3510/8015) <u>W/SILICA GEL CLEANUP</u>	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)	PESTICIDES (EPA 8081)	FUEL OXYGENATES (EPA 8260)	PURGEABLE HALOCARBONS (EPA 6017/8010)	TPH-GIBTEX/5 OXYS (EPA METHOD 8260) <u>Pb SCAN</u>	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	
					MW-1	6/30/11	1017	W	5		X								X	
MW-2		0705				X								X					X	02
MW-3		0910				X								X					X	03
MW-4		0818				X								X					X	04
MW-5		0727				X								X					X	05
MW-6		0837				X								X					X	06
MW-7		0747				X								X					X	07
MW-8		0950				X								X					X	08

RELINQUISHED BY:

[Signature] 1640
 (signature) (time)

RECEIVED BY:

[Signature]
 (signature) (time)

RELINQUISHED BY:

[Signature]
 (signature) (time)

RECEIVED BY LABORATORY:

[Signature] 1241
 (signature) (time)

COMMENTS:

D. ALLEN 6/30/11
 (printed name) (date)

(printed name) (date)

(printed name) (date)

Timothy Beemer 070711
 (printed name) (date)

TURN AROUND TIME
 STANDARD 24Hr 48Hr 72Hr

Company-ASE, INC.

Company-

Company-

Company- Kiff Analytical LLC

OTHER:

