



AG

October 27, 2004

Quarterly Groundwater Monitoring
Report
NOV 04 2004
Oakland, California

**QUARTERLY GROUNDWATER MONITORING REPORT
SEPTEMBER 2004 GROUNDWATER SAMPLING**

at

Lim Family Property
250 8th Street
Oakland, California

Submitted by:
AQUA SCIENCE ENGINEERS, INC.
208 W. El Pintado
Danville, CA 94526
(925) 820-9391

1.0 INTRODUCTION

This report presents the methods and findings of Aqua Science Engineers, Inc. (ASE)'s quarterly 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 September 17, 2004, ASE measured the depth to water in monitoring wells MW-1 through MW-7 using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen. Monitoring well MW-3 contained 0.96-feet of free-floating hydrocarbons this quarter. 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 0.006 feet/foot during this quarterly sampling period. The gradient and flow direction are consistent with previous findings.

3.0 MONITORING WELL SAMPLING

On September 17, 2004, ASE collected groundwater samples from monitoring wells MW-1, MW-2, and MW-4 through MW-7 for analysis. Monitoring well MW-3 was not sampled due to the presence of free-floating hydrocarbons at the time of sampling.

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 bailers 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.

4.0 ANALYTICAL RESULTS FOR GROUNDWATER

The groundwater samples were analyzed by KIFF for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethyl benzene, total xylenes (collectively known as BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method 8260B. Analyses for total petroleum hydrocarbons as diesel (TPH-D) and lead scavengers were inadvertently not conducted this quarter. The analytical results are tabulated in Tables Two and Three, and copies of the certified analytical report and chain of custody form are included in Appendix B.

5.0 CONCLUSIONS

Monitoring well MW-3 contained 0.96-feet of free-floating hydrocarbons this quarter. Overall, the hydrocarbon concentrations are consistent with previous analytical results and remain elevated in downgradient monitoring wells MW-2, MW-3, MW-4, and MW-7. The TPH-G and BTEX concentrations in groundwater samples collected from monitoring wells MW-2, MW-4, and MW-7 exceeded Environmental Screening Levels (ESLs) 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 July 2003.

6.0 RECOMMENDATIONS

ASE recommends continued quarterly groundwater monitoring at the site. The next sampling event is scheduled for December 2004. Additionally, ASE is currently conducting a dual-phase extraction event as an interim remedial action and will report the results during the next Quarter.

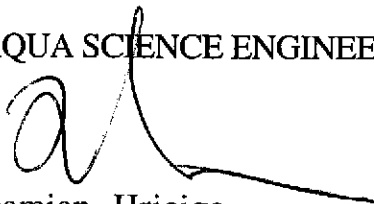
7.0 REPORT LIMITATIONS

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.

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.



Damian Hriciga
Project Geologist



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



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

cc: Mr. Barney Chan, Alameda County Health Care Services
Mr. Chuck Headlee, RWQCB, San Francisco Bay Region

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	

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		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	

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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*			
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			

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			
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			
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			

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)
IW-1	07/13/99	24.05	14.75		9.30
	06/11/02	28.33			
IW-2	07/13/99	24.21	15.10		9.11
	06/11/02	28.50			
IW-3	07/13/99	23.93	15.00		8.93
	06/11/02	28.14			
IW-4	07/13/99	23.83	Unknown		Unknown
	06/11/02	28.24			
IW-5	07/13/99	24.00	15.50	1.00	9.55*
	07/23/99		15.52	1.05	9.32*
	08/03/99		15.58	0.64	8.93*
	08/17/99		15.62	0.86	9.07*
	08/27/99		15.92	0.77	8.70*
	09/10/99		15.82	0.56	8.63*
	09/24/99		15.57	0.26	8.64*
	10/08/99		15.56	0.23	8.62*
	11/02/99		15.59	0.22	8.59*
	11/19/99		15.64	0.07	8.42*
	12/16/99		16.12	0.64	8.39*
	01/12/00		16.54	0.28	7.68*
	06/11/02	28.32			

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
<u>MW-1</u>							
01/30/95	740	200	3	5	1	4	--
04/12/95	400	500	<0.5	<0.5	3	<2	--
07/14/95	520	400	1	<0.5	2	3	--
10/17/95	400	200	0.5	1	3	<2	--
01/12/96	120	890	<0.5	<0.5	<0.5	<1.0	<2.0
07/08/96	320	300	0.52	2.7	1.2	2.3	<5.0
01/06/97	110	75	<0.5	0.68	<0.5	<0.5	<5.0
07/08/97	380	290	<0.5	1.5	1.4	1.9	<5.0
01/26/98	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
07/23/98	190	<50	0.54	2.8	2	1.8	<5.0
01/05/99	200	<50	1.8	1.6	3.3	<0.5	<5.0
07/13/99	340	<50	<0.5	<0.5	2.6	<0.5	<5.0
01/12/00	300	1,000	22	36	5.5	24	<5.0
04/24/00	360	280*	<0.5	<0.5	<0.5	2.1	<5.0
07/20/00	290	150*	1.8	<0.5	<0.5	<0.5	<5.0
10/24/00	170**	280*	<0.5	<0.5	<0.5	<0.5	<5.0
01/18/01	170**	150*	<0.5	<0.5	<0.5	2.1	<5.0
04/05/01	350**	190*	<0.5	<0.5	<0.5	<0.5	<5.0
07/17/01	310	570	<0.5	<0.5	<0.5	<0.5	<5.0
10/25/01	250	260	<0.5	<0.5	<0.5	<0.5	<5.0
01/22/02	200	250	<0.5	<0.5	<0.5	<0.5	<5.0
04/11/02	260	300	<0.5	<0.5	<0.5	<0.5	<5.0
06/11/02	270	330	<0.5	<0.5	<0.5	<0.5	<5.0
09/17/02	320	1,700	<0.5	<0.5	<0.5	<0.5	<5.0
12/18/02	170	320	<0.5	<0.5	<0.5	<0.5	<5.0
03/25/03	320	<500	<0.5	<0.5	<0.5	<0.5	<5.0
06/23/03	240	310	<0.5	<0.5	<0.5	<0.5	<5.0
09/26/03	110	300	<0.5	<0.5	<0.5	<0.5	<0.5
12/18/03	150	340	<0.5	<0.5	<0.5	<0.5	<0.5
03/12/04	220	510	<0.5	<0.5	<0.5	<0.5	<0.5
06/17/04	250	490	<0.5	<0.5	<0.5	<0.5	<0.5
09/17/04	110	--	<0.5	<0.5	<0.5	<0.5	<0.5

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 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
<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
01/26/98	50,000	11,000	12,000	12,000	1,600	6,700	< 250
07/23/98	50,000	8,100#	11,000	8,300	1,800	7,000	1,100
01/05/99	50,000	7,600#	12,000	12,000	2,300	9,600	1,300
07/13/99	73,000	8,500	11,000	13,000	2,200	9,800	< 500
01/12/00	63,000	11,000	10,000	12,000	1,800	7,800	< 500
04/24/00	76,000	23,000*	7,100	14,000	2,000	9,400	< 500
07/20/00	68,000	5,300#	11,000	14,000	2,300	11,000	< 1,000
10/24/00	48,000	6,400*	11,000	9,400	1,500	7,300	< 500
01/18/01	37,000	4,600*	6,900	5,600	1,200	5,300	< 500
04/05/01	59,000	4,600*	7,100	9,800	1,600	7,600	< 500
07/17/01	90,000	< 10,000	9,200	14,000	2,700	11,000	< 50
10/25/01	79,000	< 3,800	9,200	14,000	2,400	11,000	< 50
01/22/02	76,000	< 2,300	7,000	13,000	2,200	9,600	< 50
04/11/02	76,000	< 1,500	7,800	11,000	2,900	12,000	< 50
06/11/02	72,000	< 2,500	7,300	9,600	2,500	12,000	< 50
09/17/02	52,000	< 3,000	5,000	5,400	2,100	9,100	< 20
12/18/02	46,000	< 6,000	2,900	3,000	1,800	7,600	22
03/25/03	87,000	< 8,000	7,900	9,300	2,900	12,000	< 50
06/23/03	46,000	< 3,000	7,800	4,000	1,900	6,600	< 50
09/26/03	52,000	< 3,000	9,100	3,500	1,300	5,000	< 50
12/18/03	61,000	< 4,000	13,000	3,500	1,600	5,600	< 20
03/12/04	53,000	< 4,000	9,100	3,500	1,700	5,700	< 25
06/17/04	59,000	< 3,000	7,100	4,000	1,700	7,300	< 25
09/17/04	33,000	--	9,800	1,200	1,300	4,000	< 20

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
<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						
<u>MW-4</u>							
01/12/00	99,000	7,900*	16,000	20,000	2,100	12,000	< 2,500
04/24/00	54,000	44,000*	3,400/ 4,500	13,000/ 20,000	1,800/ 2,800	8,800/ 14,000	< 1,300
07/20/00	8,000	3,500	9,200/ 11,000	20,000 22,000	2,500 3,400	12,000/ 13,000	< 1,000
10/24/00	98,000	8,000*	21,000	29,000	2,700	15,000	< 1,000
01/18/01	91,000	12,000	17,000/ 15,000	21,000/ 21,000	2,500/ 2,800	13,000/ 11,000	< 1,000
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
07/17/01	95,000	< 3,000	8,000	16,000	2,900	11,000	49
10/25/01	89,000	< 2,200	9,300	18,000	2,400	12,000	66
01/22/02	80,000	< 2,300	4,600	15,000	2,500	11,000	< 50
04/11/02	90,000	< 900	6,600	18,000	2,800	12,000	55
06/25/02	110,000	< 3,000	10,000	20,000	2,900	13,000	< 100
09/17/02	110,000	< 3,000	9,600	21,000	2,800	13,000	< 100
12/18/02	97,000	< 4,000	8,000	20,000	2,600	12,000	< 50
03/25/03	97,000	< 7,500	7,600	22,000	2,500	12,000	< 100
06/23/03	100,000	< 3,000	9,600	22,000	3,300	15,000	< 100
09/26/03	110,000	< 4,000	9,300	17,000	2,100	10,000	< 50
12/18/03	110,000	< 2,000	8,900	19,000	2,500	12,000	< 25
03/12/04	96,000	< 4,000	6,500	18,000	2,700	12,000	< 40
06/17/04	110,000	< 4,000	10,000	20,000	2,900	13,000	< 50
09/17/04	78,000	--	9,300	15,000	2,400	11,000	< 50

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

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
MW-5							
06/11/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	28
09/17/02	< 50	110	< 0.5	< 0.5	< 0.5	< 0.5	4.8
12/18/02	< 50	140	< 0.5	< 0.5	< 0.5	< 0.5	1.8
03/25/03	< 50	130	< 0.5	< 0.5	< 0.5	< 0.5	7.4
06/23/03	< 50	390	< 0.5	< 0.5	< 0.5	< 0.5	17
09/26/03	< 50	700	< 0.5	< 0.5	< 0.5	< 0.5	21
12/18/03	< 50	550	< 0.5	< 0.5	< 0.5	< 0.5	16
03/12/04	< 50	490	< 0.5	< 0.5	< 0.5	< 0.5	9.1
06/17/04	< 50	510	< 0.5	< 0.5	< 0.5	< 0.5	9.8
09/17/04	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	5.5
MW-6							
06/11/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1.2
09/17/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1.0
12/18/02	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	0.90
03/25/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
06/23/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/26/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
12/18/03	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
03/12/04	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
06/17/04	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
09/17/04	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-7							
06/12/02	38,000	< 2,000	890	5,100	1,200	5,200	< 20
09/17/02	26,000	< 2,000	590	3,600	880	4,000	< 20
12/18/02	NOT SAMPLED - CAR PARKED OVER WELL						
03/25/03	39,000	< 2,900	410	7,700	1,000	6,400	< 5.0
06/23/03	17,000	< 1,000	440	2,600	630	2,600	< 10
09/26/03	17,000	< 1,000	230	1,800	470	2,200	< 5.0
12/18/03	20,000	< 1,000	290	2,500	590	2,900	< 5.0
03/12/04	20,000	< 1,500	300	3,000	760	3,200	< 10
06/17/04	12,000	< 800	250	1,800	450	1,900	< 5.0
09/17/04	9,900	--	200	1,500	450	1,800	< 5.0
ESL	500	640	46	130	290	13	1,800

Notes:

* = Hydrocarbons reported are in the early diesel range, and do not match the laboratory standard.

** = Hydrocarbons reported do not match the laboratory gasoline standard.

= Estimated concentration reported due to overlapping fuel patterns.

/ = Results separated by a slash represent results from two different laboratory methods (8020/8260).

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 (July 2003)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

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
<u>7/18/97</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-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	4.8	<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	-	-	-

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

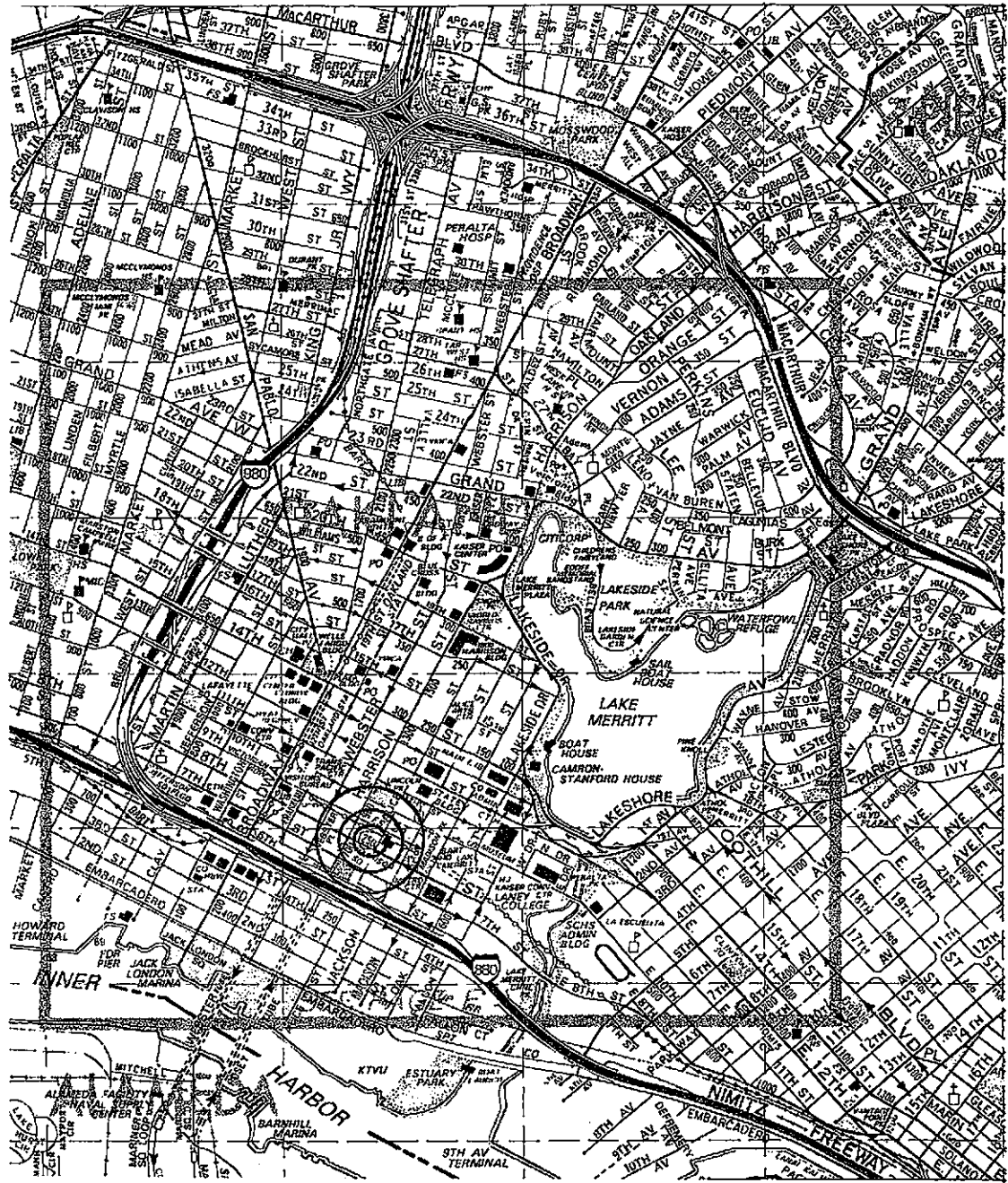
Date Sampled & Compound Analyzed	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
<u>4/24/00</u>							
Hydrocarbon Oil and Grease	-	<1,000	4,100	<1,000	-	-	-
1,2-Dichloroethane	<0.5	5.8	<1,000	<250	-	-	-
Naphthalene	-	-	3,800	590	-	-	-
Isopropylbenzene	-	-	1,200	<250	-	-	-
Other VOCs	<0.5 - <5.0	<5.0 - <20	:1,000 - <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	---	<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	---	<250	-	-	-
Chloroform	6.4	<5.0	NOT	<250	-	-	-
Other VOCs	<0.5 - <20	<5.0 - <20	SAMPLED	<250 - <25,000	-	-	-
<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	-	-	-	-

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
<u>10/25/01</u>							
Hydrocarbon Oil and Grease	-	< 5,000	FREE	< 5,000	-	-	-
1,2 dichloroethane	-	< 50	PRODUCT	72	-	-	-
1,2 dibromoethane	-	< 50	NOT	< 50	-	-	-
Other VOCs	-	-	SAMPLED	---	-	-	-
<u>1/22/02</u>							
Hydrocarbon Oil and Grease	-	< 5,000	FREE	< 5,000	-	-	-
1,2 dichloroethane	-	< 50	PRODUCT	< 50	-	-	-
1,2 dibromoethane	-	< 50	NOT	< 50	-	-	-
Other VOCs	-	-	SAMPLED	---	-	-	-
<u>6/11/02</u>							
Oil and Grease	-	1,100	FREE	-	< 1,000	< 1,000	-
1,2 dichloroethane	-	< 50	PRODUCT	-	< 0.5	< 0.5	-
1,2 dibromoethane	-	< 50	NOT	-	< 0.5	< 0.5	-
Other VOCs	-	-	SAMPLED	-	-	-	-
<u>6/25/02</u>							
Oil and Grease	-	-	FREE	1,400	-	-	< 1,000
1,2 dichloroethane	-	-	PRODUCT	< 100	-	-	< 20
1,2 dibromoethane	-	-	NOT	< 100	-	-	< 20
Other VOCs	-	-	SAMPLED	-	-	-	-
<u>9/17/02</u>							
Oil and Grease	-	< 1,000	FREE	< 1,000	< 1,000	< 1,000	< 1,000
1,2 dichloroethane	-	< 20	PRODUCT	< 100	< 0.50	< 0.50	< 20
1,2 dibromoethane	-	< 20	NOT	< 100	< 0.50	< 0.50	< 20
Other VOCs	-	-	SAMPLED	-	-	-	-
<u>12/18/02</u>							
Oil and Grease	-	1,200	FREE	< 1,000	< 1,000	< 1,000	CAR PARKED
1,2 dichloroethane	-	< 10	PRODUCT	< 50	< 0.50	< 0.50	OVER WELL
1,2 dibromoethane	-	< 10	NOT	< 50	< 0.50	< 0.50	NOT
Other VOCs	-	-	SAMPLED	-	-	-	SAMPLED

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
<u>3/25/03</u>							
Oil and Grease	-	<1,000	FREE	<1,000	<1,000	<1,000	<1,000
1,2 dichloroethane	-	<50	PRODUCT	<100	<0.50	<0.50	<2.5
1,2 dibromoethane	-	<50	NOT	<100	<0.50	<0.50	<2.5
Other VOCs	-	-	SAMPLED	-	-	-	-
<u>6/23/03</u>							
Oil and Grease	-	<1,000	FREE	<1,000	<1,000	<1,000	<1,000
1,2 dichloroethane	<0.5	<50	PRODUCT	<100	<0.50	<0.50	<10
1,2 dibromoethane	<0.5	<50	NOT	<100	<0.50	<0.50	<10
Other VOCs	-	-	SAMPLED	-	-	-	-
<u>9/26/03</u>							
Oil and Grease	-	<1,000	FREE	<1,000	<1,000	<1,000	<1,000
1,2 dichloroethane	<0.5	<50	PRODUCT	87	<0.50	<0.50	<5.0
1,2 dibromoethane	<0.5	<50	NOT	<50	<0.50	<0.50	<5.0
Other VOCs	-	-	SAMPLED	-	-	-	-
<u>12/18/03</u>							
Oil and Grease	-	-	FREE	-	-	-	-
1,2 dichloroethane	<0.5	<20	PRODUCT	46	<0.50	<0.50	<5.0
1,2 dibromoethane	<0.5	<20	NOT	<25	<0.50	<0.50	<5.0
Other VOCs	-	-	SAMPLED	-	-	-	-
<u>3/12/04</u>							
Oil and Grease	-	-	FREE	-	-	-	-
1,2 dichloroethane	<0.5	<25	PRODUCT	<40	<0.50	<0.50	<10
1,2 dibromoethane	<0.5	<25	NOT	<40	<0.50	<0.50	<10
Other VOCs	-	-	SAMPLED	-	-	-	-
<u>6/17/04</u>							
Oil and Grease	-	-	FREE	-	-	-	-
1,2 dichloroethane	<0.5	<25	PRODUCT	93	<0.50	<0.50	<5.0
1,2 dibromoethane	<0.5	<25	NOT	<50	<0.50	<0.50	<5.0
Other VOCs	-	-	SAMPLED	-	-	-	-



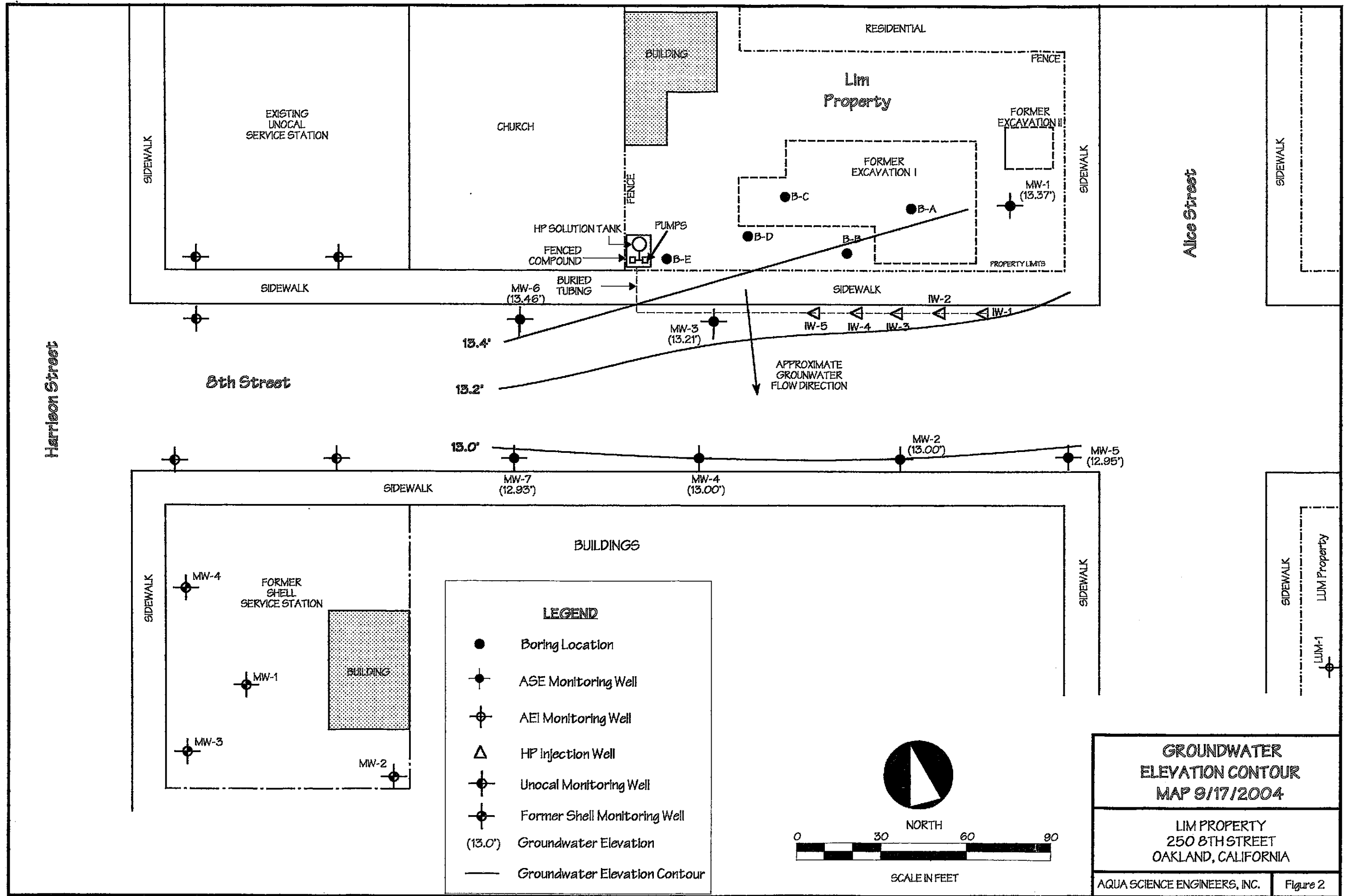
SITE LOCATION MAP

Lim Property
250 8th Street
Oakland, California

BASE: The Thomas Guide, Alameda and Contra Costa
Counties Street Guide & Directory, 1990

Aqua Science Engineers

Figure 1



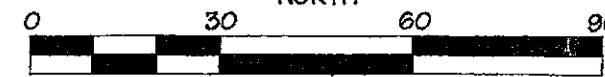
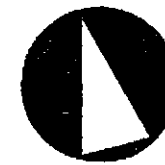
Harrison Street

8th Street

Alice Street

LEGEND

- Boring Location
- ⊕ ASE Monitoring Well
- ⊕ AEI Monitoring Well
- △ HP Injection Well
- ⊕ Unocal Monitoring Well
- ⊕ Former Shell Monitoring Well
- (13.0') Groundwater Elevation
- Groundwater Elevation Contour



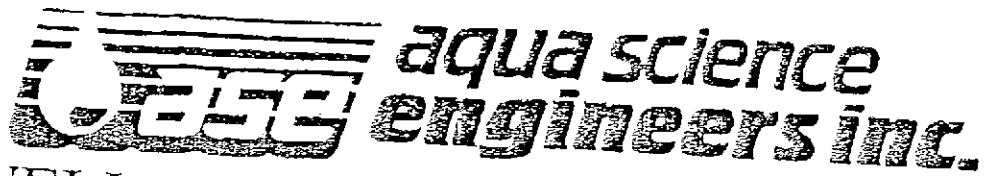
SCALE IN FEET

**GROUNDWATER
ELEVATION CONTOUR
MAP 9/17/2004**

LIM PROPERTY
250 8TH STREET
OAKLAND, CALIFORNIA

APPENDIX A

Well Sampling Field Log



WELL SAMPLING FIELD LOG

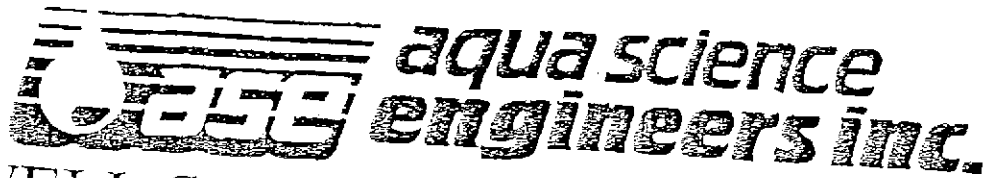
Project Name and Address: LIM
 Job #: 2828 Date of sampling: 9/17/2007
 Well Name: MW-1 Sampled by: PH
 Total depth of well (feet): 26.8 Well diameter (inches): 2
 Depth to water before sampling (feet): 16.35
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 16.45
 Number of gallons per well casing volume (gallons): 1.7
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 5.0
 Equipment used to purge the well: BALLER
 Time Evacuation Began: 1030 Time Evacuation Finished: 1045
 Approximate volume of groundwater purged: 5.0
 Did the well go dry?: NO After how many gallons: -
 Time samples were collected: 1050
 Depth to water at time of sampling: 16.71
 Percent recovery at time of sampling: -
 Samples collected with: BALLER
 Sample color: - Odor: -
 Description of sediment in sample: -

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1.7</u>	<u>67.5</u>	<u>6.38</u>	<u>801</u>
<u>3.1</u>	<u>66.1</u>	<u>6.71</u>	<u>812</u>
<u>5.2</u>	<u>65.9</u>	<u>6.79</u>	<u>811</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-1</u>	<u>5</u>	<u>40 mL VOA</u>	<u>1cc</u>	<u>Y</u>	



WELL SAMPLING FIELD LOG

Project Name and Address: LIM
 Job #: 2808 Date of sampling: 9/17/2004
 Well Name: MU-2 Sampled by: PH
 Total depth of well (feet): 26.8 Well diameter (inches): _____
 Depth to water before sampling (feet): 15.19
 Thickness of floating product if any: _____
 Depth of well casing in water (feet): 11.61
 Number of gallons per well casing volume (gallons): 1.9
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 5.6
 Equipment used to purge the well: BALLER
 Time Evacuation Began: 0630 Time Evacuation Finished: 0645
 Approximate volume of groundwater purged: 5.6
 Did the well go dry?: NO After how many gallons: _____
 Time samples were collected: 0650
 Depth to water at time of sampling: 15.20
 Percent recovery at time of sampling: _____
 Samples collected with: BALLER
 Sample color: _____ Odor: STRONG HCL
 Description of sediment in sample: _____

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1.9</u>	<u>68.1</u>	<u>6.70</u>	<u>849</u>
<u>3.8</u>	<u>66.9</u>	<u>6.72</u>	<u>823</u>
<u>5.6</u>	<u>66.5</u>	<u>6.75</u>	<u>823</u>
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	iced?	Analysis
<u>MU-2</u>	<u>5</u>	<u>10 ML VIAL</u>	<u>HCL</u>	<u>Y</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____



WELL SAMPLING FIELD LOG

Project Name and Address: LIM

Job #: 2808 Date of sampling: 9/17/04

Well Name: MW3 Sampled by: DH

Total depth of well (feet): _____ Well diameter (inches): 2

Depth to water before sampling (feet): 16.14 / 17.10

Thickness of floating product if any: 0.46

Depth of well casing in water (feet): _____

Number of gallons per well casing volume (gallons): _____

Number of well casing volumes to be removed: _____

Required volume of groundwater to be purged before sampling (gallons): _____

Equipment used to purge the well: _____

Time Evacuation Began: _____ Time Evacuation Finished: _____

Approximate volume of groundwater purged: _____

Did the well go dry: _____ After how many gallons: _____

Time samples were collected: _____

Depth to water at time of sampling: _____

Percent recovery at time of sampling: _____

Samples collected with: _____

Sample color: _____

Description of sediment in sample: _____

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	ICCD?	Analysis
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

NOT SAMPLED THIS QUARTER



WELL SAMPLING FIELD LOG

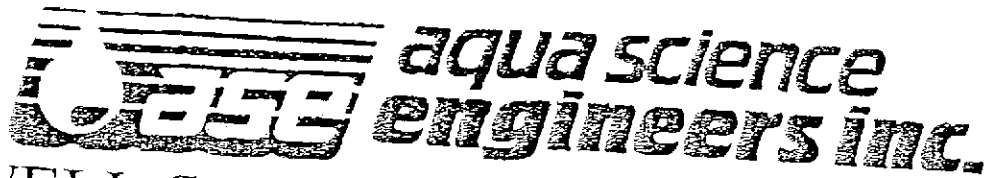
Project Name and Address: LIM
 Job #: 2808 Date of sampling: 9/17/04
 Well Name: MU-4 Sampled by: Dut
 Total depth of well (feet): 21.8 Well diameter (inches): 2
 Depth to water before sampling (feet): 15.61
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 6.19
 Number of gallons per well casing volume (gallons): 1
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 3
 Equipment used to purge the well: BAILER
 Time Evacuation Began: 0800 Time Evacuation Finished: 0820
 Approximate volume of groundwater purged: 3
 Did the well go dry?: NO After how many gallons: -
 Time samples were collected: 0825
 Depth to water at time of sampling: 15.70
 Percent recovery at time of sampling: -
 Samples collected with: BAILER
 Sample color: - Odor: Strong etc
 Description of sediment in sample: -

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>68.9</u>	<u>6.85</u>	<u>952</u>
<u>2</u>	<u>66.8</u>	<u>6.92</u>	<u>949</u>
<u>3</u>	<u>66.2</u>	<u>6.92</u>	<u>950</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MU-4</u>	<u>5</u>	<u>400 mL VOA</u>	<u>HCL</u>	<input checked="" type="checkbox"/>	



WELL SAMPLING FIELD LOG

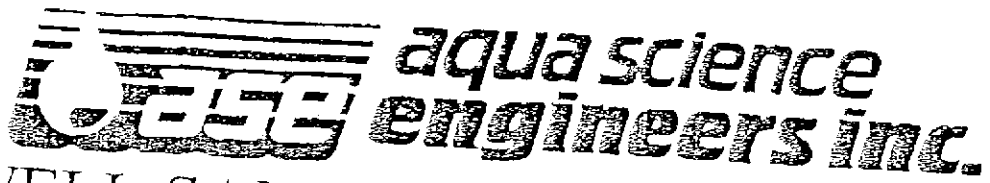
Project Name and Address: LIM
 Job #: 2568 Date of sampling: 9/17/04
 Well Name: MU-5 Sampled by: DH
 Total depth of well (feet): 296 Well diameter (inches): 2
 Depth to water before sampling (feet): 15.45
 Thickness of floating product if any:
 Depth of well casing in water (feet): 14.15
 Number of gallons per well casing volume (gallons): 2.26
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 68
 Equipment used to purge the well: BAILER
 Time Evacuation Began: 0700 Time Evacuation Finished: 0705
 Approximate volume of groundwater purged: 68
 Did the well go dry?: NO After how many gallons:
 Time samples were collected: 0720
 Depth to water at time of sampling: 15.50
 Percent recovery at time of sampling:
 Samples collected with: BAILER
 Sample color: Odor:
 Description of sediment in sample:

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>2.3</u>	<u>67.8</u>	<u>7.01</u>	<u>541</u>
<u>4.6</u>	<u>66.6</u>	<u>6.98</u>	<u>612</u>
<u>6.8</u>	<u>66.5</u>	<u>6.98</u>	<u>653</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MU-5</u>	<u>5</u>	<u>40 mL VOA</u>	<u>HCL</u>	<input checked="" type="checkbox"/>	



WELL SAMPLING FIELD LOG

Project Name and Address: LIM
 Job #: 2808 Date of sampling: 9/17/07
 Well Name: MU-7 Sampled by: PH
 Total depth of well (feet): 29.7 Well diameter (inches): 2
 Depth to water before sampling (feet): 16.02
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 13.69
 Number of gallons per well casing volume (gallons): 2.2
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 6.6
 Equipment used to purge the well: BAILER
 Time Evacuation Began: 0745 Time Evacuation Finished: 100
 Approximate volume of groundwater purged: 6.6
 Did the well go dry?: NO After how many gallons: -
 Time samples were collected: 1010
 Depth to water at time of sampling: 16.05
 Percent recovery at time of sampling: -
 Samples collected with: BAILER
 Sample color: - Odor: STRONG HCL
 Description of sediment in sample: -

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>2.2</u>	<u>67.8</u>	<u>6.72</u>	<u>708</u>
<u>4.4</u>	<u>67.1</u>	<u>6.83</u>	<u>681</u>
<u>6.6</u>	<u>66.7</u>	<u>6.85</u>	<u>679</u>
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Icecd?	Analysis
<u>MU-7</u>	<u>5</u>	<u>40 ml WVA</u>	<u>HCL</u>	<u>Y</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation



Report Number : 40213

Date : 9/25/2004

Damian Hriciga
Aqua Science Engineers, Inc.
208 West El Pintado Rd.
Danville, CA 94526

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

Dear Mr. Hriciga,

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

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

Sincerely,



Joel Kiff



Report Number : 40213

Date : 9/25/2004

Project Name : LIM

Project Number : 2808

Sample : MW-1

Matrix : Water

Lab Number : 40213-01

Sample Date :9/17/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
TPH as Gasoline	110	50	ug/L	EPA 8260B	9/22/2004
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	9/22/2004
4-Bromofluorobenzene (Surr)	99.9		% Recovery	EPA 8260B	9/22/2004

Sample : MW-2

Matrix : Water

Lab Number : 40213-02

Sample Date :9/17/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	9800	20	ug/L	EPA 8260B	9/25/2004
Toluene	1200	20	ug/L	EPA 8260B	9/25/2004
Ethylbenzene	1300	20	ug/L	EPA 8260B	9/25/2004
Total Xylenes	4000	20	ug/L	EPA 8260B	9/25/2004
Methyl-t-butyl ether (MTBE)	< 20	20	ug/L	EPA 8260B	9/25/2004
TPH as Gasoline	33000	2000	ug/L	EPA 8260B	9/25/2004
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	9/25/2004
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	9/25/2004

Approved By:

Joel Kiff



Report Number : 40213

Date : 9/25/2004

Project Name : LIM

Project Number : 2808

Sample : MW-4

Matrix : Water

Lab Number : 40213-03

Sample Date :9/17/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	9300	50	ug/L	EPA 8260B	9/25/2004
Toluene	15000	50	ug/L	EPA 8260B	9/25/2004
Ethylbenzene	2400	50	ug/L	EPA 8260B	9/25/2004
Total Xylenes	11000	50	ug/L	EPA 8260B	9/25/2004
Methyl-t-butyl ether (MTBE)	< 50	50	ug/L	EPA 8260B	9/25/2004
TPH as Gasoline	78000	5000	ug/L	EPA 8260B	9/25/2004
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	9/25/2004
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	9/25/2004

Sample : MW-5

Matrix : Water

Lab Number : 40213-04

Sample Date :9/17/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Methyl-t-butyl ether (MTBE)	5.5	0.50	ug/L	EPA 8260B	9/22/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/22/2004
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	9/22/2004
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	9/22/2004

Approved By:


Joel Kiff



Report Number : 40213

Date : 9/25/2004

Project Name : LIM

Project Number : 2808

Sample : MW-6

Matrix : Water

Lab Number : 40213-05

Sample Date :9/17/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/22/2004
Toluene - d8 (Surr)	95.3		% Recovery	EPA 8260B	9/22/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	9/22/2004

Sample : MW-7

Matrix : Water

Lab Number : 40213-06

Sample Date :9/17/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	200	5.0	ug/L	EPA 8260B	9/25/2004
Toluene	1500	5.0	ug/L	EPA 8260B	9/25/2004
Ethylbenzene	450	5.0	ug/L	EPA 8260B	9/25/2004
Total Xylenes	1800	5.0	ug/L	EPA 8260B	9/25/2004
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	9/25/2004
TPH as Gasoline	9900	500	ug/L	EPA 8260B	9/25/2004
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	9/25/2004
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	9/25/2004

Approved By:


Joel Kiff

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

Report Number : 40213

Date : 9/25/2004

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>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/24/2004
Toluene - dB (Surr)	99.8		%	EPA 8260B	9/24/2004
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	9/24/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/22/2004
Toluene - dB (Surr)	97.6		%	EPA 8260B	9/22/2004
4-Bromofluorobenzene (Surr)	96.4		%	EPA 8260B	9/22/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/22/2004
Toluene - dB (Surr)	102		%	EPA 8260B	9/22/2004
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	9/22/2004

<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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Approved By:

Joel Kiff



KIFF ANALYTICAL, LLC

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

Report Number : 40213

Date : 9/25/2004

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **LIM**

Project Number : **2808**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	40287-02	<0.50	40.0	40.0	38.9	38.6	ug/L	EPA 8260B	9/24/04	97.4	96.4	0.959	70-130	25
Toluene	40287-02	<0.50	40.0	40.0	39.5	39.2	ug/L	EPA 8260B	9/24/04	98.8	98.1	0.717	70-130	25
Tert-Butanol	40287-02	<5.0	200	200	194	196	ug/L	EPA 8260B	9/24/04	97.3	98.2	0.972	70-130	25
Methyl-t-Butyl Ether	40287-02	<0.50	40.0	40.0	38.8	39.1	ug/L	EPA 8260B	9/24/04	97.1	97.6	0.537	70-130	25
Benzene	40216-03	<0.50	40.0	40.0	40.6	41.2	ug/L	EPA 8260B	9/22/04	102	103	1.30	70-130	25
Toluene	40216-03	<0.50	40.0	40.0	41.0	37.8	ug/L	EPA 8260B	9/22/04	102	94.6	7.94	70-130	25
Tert-Butanol	40216-03	<5.0	200	200	206	206	ug/L	EPA 8260B	9/22/04	103	103	0.0231	70-130	25
Methyl-t-Butyl Ether	40216-03	23	40.0	40.0	62.4	63.1	ug/L	EPA 8260B	9/22/04	99.1	101	1.86	70-130	25
Benzene	40213-01	<0.50	40.0	40.0	38.6	36.9	ug/L	EPA 8260B	9/22/04	96.4	92.3	4.30	70-130	25
Toluene	40213-01	<0.50	40.0	40.0	38.8	37.6	ug/L	EPA 8260B	9/22/04	97.1	94.1	3.16	70-130	25
Tert-Butanol	40213-01	<5.0	200	200	217	204	ug/L	EPA 8260B	9/22/04	108	102	6.25	70-130	25
Methyl-t-Butyl Ether	40213-01	<0.50	40.0	40.0	37.2	36.2	ug/L	EPA 8260B	9/22/04	92.9	90.5	2.65	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By:  Joel Kiff

Report Number : 40213

Date : 9/25/2004

QC Report : Laboratory Control Sample (LCS)

Project Name : **LIM**


Project Number : **2808**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	9/24/04	100	70-130
Toluene	40.0	ug/L	EPA 8260B	9/24/04	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/24/04	99.4	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/24/04	87.2	70-130
Benzene	40.0	ug/L	EPA 8260B	9/22/04	101	70-130
Toluene	40.0	ug/L	EPA 8260B	9/22/04	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/22/04	99.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/22/04	96.9	70-130
Benzene	40.0	ug/L	EPA 8260B	9/22/04	98.3	70-130
Toluene	40.0	ug/L	EPA 8260B	9/22/04	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/22/04	106	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/22/04	103	70-130

KIFF ANALYTICAL, LLC

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

Approved By:


Joe Kiff

