aqua science engineers inc.

PROTECTION

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August 24, 1999

SEMI-ANNUAL GROUNDWATER MONITORING REPORT
JULY 13, 1999 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 outlines 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 SITE HISTORY

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

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

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

Since April 1995, the site has been on a groundwater monitoring program. Analytical results for these sampling periods are presented in Tables Two and Three.

In February 1999, ASE installed a five-well hyrdrogen peroxide injection system to assist in the bioremediation of hydrocarbons detected in the groundwater downgradient of the subject site. For complete details regarding this system, see the ASE Report, entitled "Report of Remediation System Installation", dated March 17, 1999.

3.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On July 13, 1999, ASE associate geologist Ian Reed measured the depth to water in each site well 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 was present on the surface of water in monitoring well MW-1 or MW-2. Groundwater elevation data is presented below in Table One.

On June 24, 1999, free product was discovered in hydrogen peroxide injection well IW-5. As a result, the Alameda County Health Care Services Agency has requested that the extent of free product southwest of the site be defined. In response, two additional monitoring wells have been scheduled for installation to assist in defining the extent of the free-floating product. Since its discovery, the product thickness has been measured and bailed every two weeks. Results are reported in Table One.

TABLE ONE
Groundwater Elevation Data

Well I.D.	Date of Measurement	Top of Casing Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)
MW-1	1/30/95	25.51	16.21		9.30
	4/12/95		15.71		9.80
	7/14/95		16.71		8.80
	10/17/95		17.72		7.79
	1/12/96		18.03		7.48
	7/25/96		16.82		8.69
	1/06/97		15.60		9.91
	7/08/97		17.31		8.20
	1/26/98		15.21		10.30
	7/23/98		15.38		10.13
	1/05/99		16.82		8.69
	7/13/99		15.89		9.62
MW-2	1/30/95	23.99	15.02		8.97
	4/12/95		14.75		9.24
	7/14/95		16.02		7.97
	10/17/95		16.94		7.05
	1/12/96		17.05		6.94
	7/25/96		16.02		7.97
	1/06/97		14.34		9.65
	7/08/97		16.52		7.47

Well I.D.	Date of Measurement	Top of Casing Elevation (msl)	Depth to Water (feet)	Product Thickness (feet)	Groundwater Elevation (msl)
MW-2 (con't)	7/23/98		14.70		9.29
	1/05/99		16.01		7.98
	7/13/99		15.40		8.59
IW-1	7/13/99	24.05	14.75		9.30
IW-2	7/13/99	24.21	15.10		9.11
IW-3	7/13/99	23.93	15.00		8.93
IW-4	7/13/99	23.83	Unknown		Unknown
IW-5	6/24/99	24.00	16.15	1.75	6.45
	7/08/99		15.50	1.00	7.70
	7/13/99		15.45	1.05	8.50

* = 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)

On July 13, 1999, the groundwater flow direction was to the southwest at a gradient of 0.01 feet/foot. This is generally consistent with the historical groundwater flow which has been to the southwest beneath the site.

4.0 MONITORING WELL SAMPLING

On July 13, 1999, ASE sampled monitoring wells MW-1 and MW-2 at the site. Prior to sampling, four well casing volumes of water were removed from each well. The pH, temperature and conductivity were monitored during the purging, and samples were not collected until these parameters stabilized. After the water level in each well recovered to at least 80% of the static pre-purge level, groundwater samples were collected with dedicated polyethylene bailers. The groundwater samples from each well were decanted from the bailer into 40-ml volatile organic analysis (VOA) vials, pre-preserved with hydrochloric acid, and 1-liter amber glass bottles. The samples were labeled and stored in coolers with wet ice for transport to Chromalab of Pleasanton, California (ELAP #1094) under appropriate chain of custody documentation. During sampling there was a strong hydrocarbon odor present in groundwater from monitoring well

MW-2. No odors were noted during the sampling of monitoring well MW-1.

Well sampling purge water was contained in a 55-gallon steel drum and stored on-site for handling by the client at a later date. See Appendix A for a copy of the well sampling field logs.

5.0 ANALYTICAL RESULTS FOR GROUNDWATER

The groundwater samples were analyzed for TPH-G by EPA Method 5030/8015M, TPH-D by EPA Method 3510/8015M, benzene, toluene, ethylbenzene, and total xylenes (collectively known as BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8020, and halogenated volatile organic compounds (HVOCs) by EPA Method 8010. The groundwater sample from monitoring well MW-2 was also analyzed for oil and grease (O&G) by Standard Method 5520BF. The analytical results are presented in Tables Two and Three, and the certified analytical report and chain of custody documentation are included in Appendix B.

TABLE TWO
Groundwater Analytical Results
TPH-G, TPH-D, BTEX and MTBE
All results are in **parts per billion**

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
MW-1							
01-30-95	740	200	3	5	1	4	--
04-12-95	400	500	<0.5	<0.5	3	<2	--
07-14-95	520	400	1	<0.5	2	3	--
10-17-95	400	200	0.5	1	3	<2	--
01-12-96	120	890	<0.5	<0.5	<0.5	<1.0	<2.0
07-08-96	320	300	0.52	2.7	1.2	2.3	<5.0
01-06-97	110	75	<0.5	0.68	<0.5	<0.5	<5.0
07-08-97	380	290	<0.5	1.5	1.4	1.9	<5.0
01-26-98	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0
07-23-98	190	<50	0.54	2.8	2.0	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**
MW-2							
01-30-95	88,000	800	19,000	18,000	2,400	10,000	--
04-12-95	110,000	990	21,000	28,000	2,800	14,000	--
07-14-95	120,000	5,000	20,000	25,000	3,200	15,000	--
10-17-95	190,000	4,000	15,000	26,000	4,900	23,000	--
01-12-96	32,000	2,600	10,000	8,000	1,100	4,800	<2
07-08-96	110,000	2,500	20,000	18,000	2,500	12,000	<500
01-06-97	230,000	37,000	11,000	19,000	4,300	20,000	<1,200
07-08-97	91,000	35,000	16,000	20,000	2,700	13,000	<1,000
01-26-98	50,000	11,000	12,000	12,000	1,600	6,700	<250
07-23-98	50,000	8,100#	11,000	8,300	1,800	7,000	1,100
01-05-99	50,000	7,600#	12,000	12,000	2,300	9,600	1,300
07-13-99	**73,000**	**8,500**	**11,000**	**13,000**	**2,200**	**9,800**	**< 500**
DHS MCL	NE	NE	1	150	700	1,750	13
EPA METHOD	5030/ 8015M	3550/ 8015M	8020	8020	8020	8020	8020

Notes:
* = Hydrocarbons uncharacteristic of gasoline found in the gasoline range at 76 ppb.
# = Estimated concentration reported due to overlapping fuel patterns.
Non-detectable concentrations noted by the less than sign (<) followed by the detection limit.
Most recent data in **bold**.

TABLE THREE

Groundwater Analytical Results
Lead, Oil & Grease and Volatile Organic Compounds
All results are in **parts per billion**

	MW-1	MW-2
1-30-95		
Dissolved Lead	< 0.04	< 0.04
Total Oil and Grease	< 500	19,000
Hydrocarbon Oil and Grease	< 500	17,000
Chloroform	0.5	< 30
Tetrachloroethene (PCE)	8	< 30
Other VOCs	< 0.5 - < 2	< 30 - < 100
4-12-95		
Dissolved Lead	< 0.04	< 0.04
Hydrocarbon Oil and Grease	< 500	22,000
Tetrachloroethene (PCE)	6	0.9
1,2-Dichloroethane	< 0.5	43
Other VOCs	< 0.5 - < 2	< 30 - < 100
7-14-95		
Total Oil and Grease	< 500	25,000
Hydrocarbon Oil and Grease	< 500	23,000
1,2-Dichloroethane	< 0.5	35
Tetrachloroethene (PCE)	4	<5
Other VOCs	< 0.5 - < 2	< 5 - < 20
10-17-95		
Total Oil and Grease	< 1,000	15,000
Hydrocarbon Oil and Grease	< 1,000	13,000
Tetrachloroethene (PCE)	5	< 0.5
Trichloroethene (TCE)	< 0.5	1
Other VOCs	< 0.5 - < 2	< 0.5 - < 2
01-12-96		
Hydrocarbon Oil and Grease	< 5,000	< 5,000
07-08-96		
Hydrocarbon Oil and Grease	---	< 1,000
Chloroform	0.8	< 0.5
Tetrachloroethane (PCE)	6.4	< 0.5
Other VOCs	< 0.5 - < 3	< 0.5 - < 3
01-06-97		
Hydrocarbon Oil and Grease	---	4,100

TABLE THREE (Cont'd)

Groundwater Analytical Results
Lead, Oil & Grease and Volatile Organic Compounds
All results are in **parts per billion**

	MW-1	MW-2
07-08-97		
Hydrocarbon Oil and Grease	---	< 1,000
Tetrachloroethane (PCE)	0.9	< 0.5
Other VOCs	< 0.5 - < 3	< 0.5 - < 3
01-26-98		
Hydrocarbon Oil and Grease	---	< 1,000
Trichloroethene	0.70	< 5.0
Tetrachloroethene	10	< 5.0
1,2-Dichloroethane	< 0.5	11
Other VOCs	< 0.5 - < 50	< 0.5 - < 50
07-23-98		
Hydrocarbon Oil and Grease	---	< 1,000
Tetrachloroethene	4.0	4.6
1,2-Dichloroethane	<2	9.9
Other VOCs	< 2 - < 10	< 0.5 - < 5.0
01-05-99		
Hydrocarbon Oil and Grease	---	< 1,000
Tetrachloroethene	5.1	< 50
Trichloroethene	0.52	< 50
1,1,2,2-Tetrachloroethane	0.58	< 50
Chloroform	8.2	< 50
Other VOCs	< 0.5 - < 5	< 50 - < 500
07-13-99		
Hydrocarbon Oil and Grease	**---**	**< 1,000**
Tetrachloroethene	**1.5**	**0.68**
Trichloroethene	**< 0.5**	**< 50**
1,1,2,2-Tetrachloroethane	**< 0.5**	**< 50**
Chloroform	**4.6**	**< 50**
1,2-Dichloroethane	**<0.50**	**7.7**
Other VOCs	**< 0.5 - < 5**	**< 0.5 - < 500**

6.0 CONCLUSIONS AND RECOMMENDATION

All hydrocarbon and VOC concentrations in groundwater samples collected from monitoring well MW-1 were below the California Department of Health Services Maximum Contaminant Levels (DHS MCLs) for drinking water. Elevated petroleum hydrocarbon concentrations were detected in groundwater samples collected from monitoring well MW-2. All BTEX concentrations in groundwater samples collected from monitoring well MW-2 exceeded DHS MCLs for drinking water. Over one-foot of free-floating hydrocarbons are present on the groundwater surface in hydrogen peroxide injection well IW-5.

Since the discovery of free-floating hydrocarbons in IW-5, the product thickness has been measured every two weeks. This will continue for at least two months, and groundwater sampling will also continue on a semi-annual basis. Two additional monitoring wells will be installed at the site in the next 60 days to assist in defining the extent of hydrocarbons southwest of the site

7.0 REPORT LIMITATIONS

The results of this investigation 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-EPA 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,

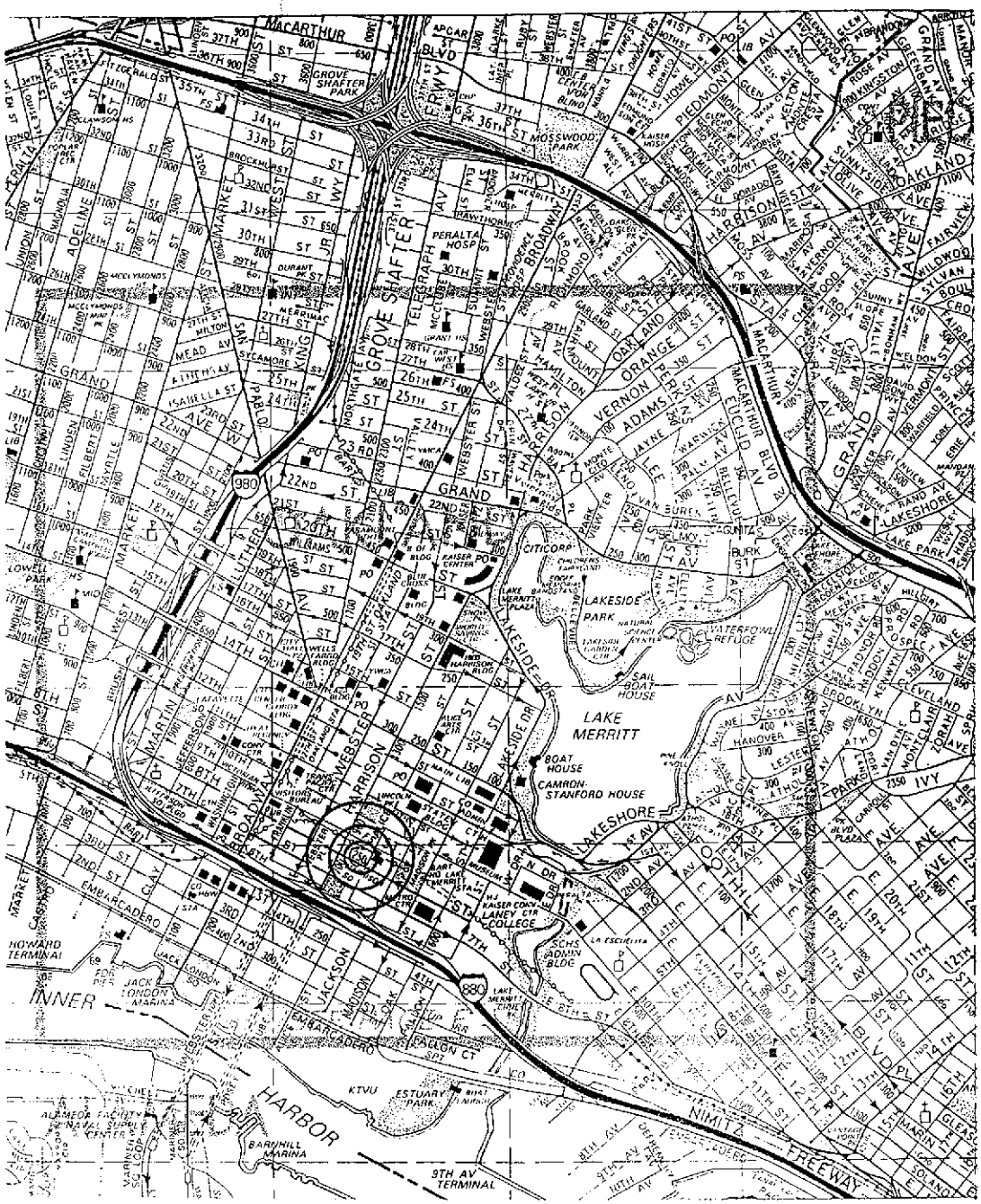
AQUA SCIENCE ENGINEERS, INC.

Ian Reed
Associate Geologist

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

REGISTERED GEOLOGIST
ROBERT E. KITAY
No. 6586
STATE OF CALIFORNIA

Attachments: Figures 1 and 2
Appendices A and B

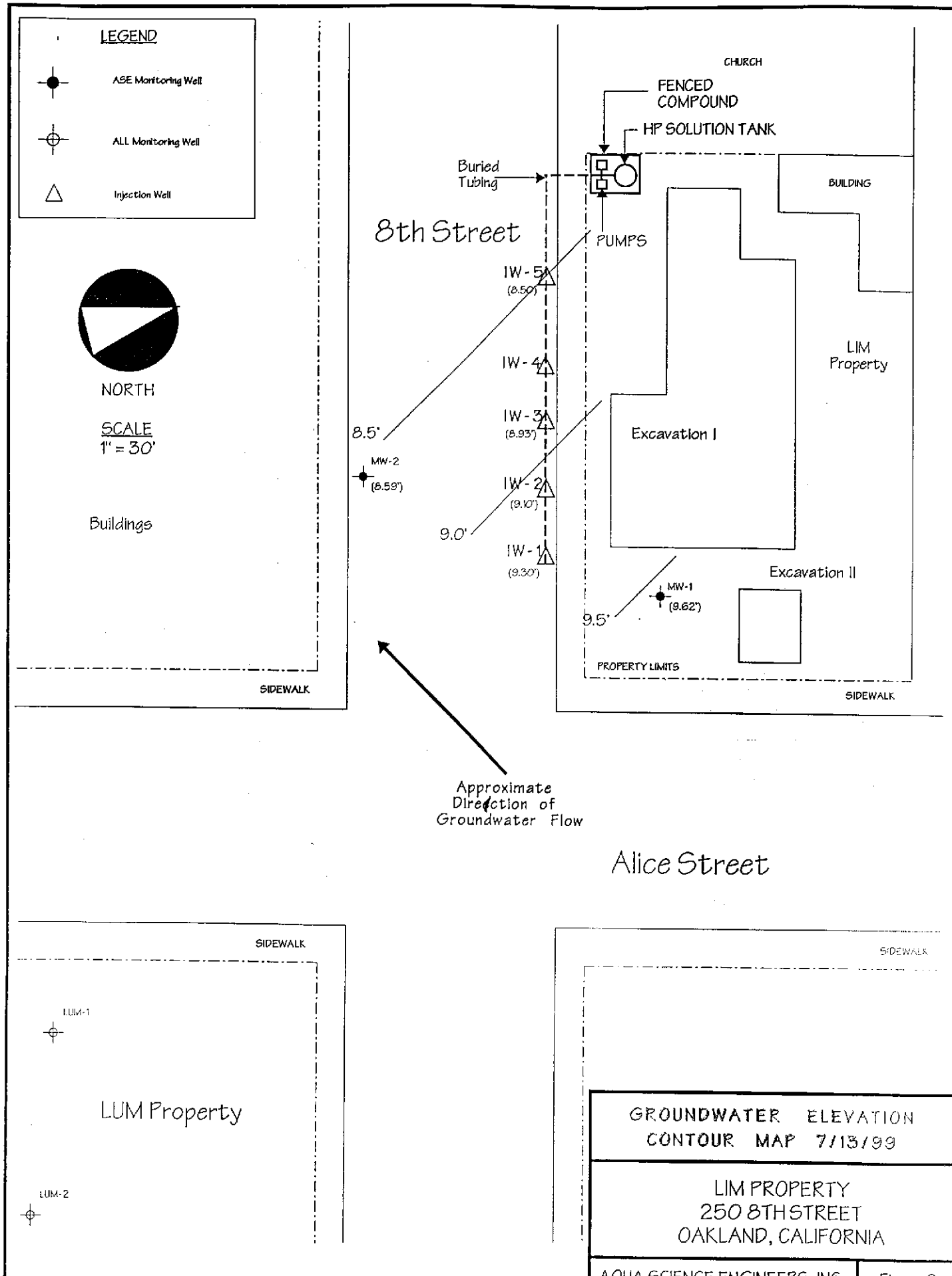


SITE LOCATION MAP

Lim Property
250 8th Street
Oakland, California

Aqua Science Engineers | Figure 1

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



GROUNDWATER ELEVATION CONTOUR MAP 7/13/99

LIM PROPERTY
250 8TH STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC. | Figure 2

APPENDIX A

Well Sampling Field Log

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WELL SAMPLING FIELD LOG

Project Name and Address: LIM
Job #: 2808 Date of sampling: 7-13-99
Well Name: MW-1 Sampled by: ITR
Total depth of well (feet): 27.99 Well diameter (inches): 2
Depth to water before sampling (feet): 15.86
Thickness of floating product if any: —
Depth of well casing in water (feet): 12.13
Number of gallons per well casing volume (gallons): 2.06
Number of well casing volumes to be removed: 4
Req'd volume of groundwater to be purged before sampling (gallons): 8.3
Equipment used to purge the well: dedicated bailer
Time Evacuation Began: 1600 Time Evacuation Finished: 1030
Approximate volume of groundwater purged: 8 8.5
Did the well go dry?: No After how many gallons: -
Time samples were collected: 1040
Depth to water at time of sampling: 15.87
Percent recovery at time of sampling: 99%
Samples collected with: dedicated bailer
Sample color: grey Odor: Yes
Description of sediment in sample:

CHEMICAL DATA

time	Volume Purged	Temp	pH	Conductivity (mS/cm)	WL
1010	1	73°	6.30	0.53	15.87
1020	2	72.9°	6.00	0.54	15.88
1030	3	74	5.98	0.54	15.87
1040	4	73.5	5.88	0.53	

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-1	3	40 ml - VOA	✓	✓	TPH-G/BTEX/MTBE
MW-1	2	40 ml - VOA	✓	✓	8010
MW-1	2	1-liter Amber		✓	TPH-D
		~~1-liter Amber~~ (ANC)		✓	

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aqua science engineers inc.

WELL SAMPLING FIELD LOG

Project Name and Address: LIM
Job #: 2808 Date of sampling: 7-13-99
Well Name: MW-2 Sampled by: ITR
Total depth of well (feet): 26.78 Well diameter (inches): 2"
Depth to water before sampling (feet): 15.40'
Thickness of floating product if any: —
Depth of well casing in water (feet): 11.38
Number of gallons per well casing volume (gallons): 1.9
Number of well casing volumes to be removed: 4
Req'd volume of groundwater to be purged before sampling (gallons): 7.7
Equipment used to purge the well: dedicated bailer
Time Evacuation Began: 1100 Time Evacuation Finished: 1130
Approximate volume of groundwater purged: 8.0
Did the well go dry?: NO After how many gallons: —
Time samples were collected: 1135
Depth to water at time of sampling: 15.40
Percent recovery at time of sampling: 100%
Samples collected with: dedicated bailer
Sample color: gray Odor: yes
Description of sediment in sample:

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity (µmhos)	
1	74.5	5.78	0.67	WL 15.41
2	74.6	5.94	0.72	
3	74.4	6.73	0.75	
4	73.8	5.68	0.69	

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-2	3	40ml VOA	✓	✓	TPH-G/BTEX/MTBE
MW-2	2	40ml VOA	✓	✓	8240
MW-2	2	1-liter Amber		✓	TPH-D
MW-2	2	1-liter Amber		✓	0&G

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APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation

Aqua Science Engineers, Inc.
208 West El Pintado Road
Danville, CA 94526

Attn.: Mr. Ian T. Reed

Project: 2808
Lim

Site: 250 8TH Street
Oakland Ca.

Dear Mr. Reed,

Attached is our report for your samples received on Thursday July 15, 1999.
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after August 14, 1999 unless you have requested otherwise. We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

Sincerely,

Pierre Monette

Total Oil & Grease

Aqua Science Engineers, Inc.

208 West El Pintado Road
Danville
CA 94526

Attn: Ian T. Reed

Phone: (925) 820-9391 Fax: (925) 837-4853

Project #: 2808

Project: Lim

Site: 250 8TH Street

Oakland Ca.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-2	Water	07/13/1999 11:35	2

To: **Aqua Science Engineers, Inc.**
Attn.: Ian T. Reed

Test Method: 5520 B
Prep Method: 5520 B

Total Oil & Grease

Sample ID:	**MW-2**	Lab Sample ID:	**1999-07-0238-002**
Project:	2808 Lim	Received:	07/15/1999 17:14
Site:	250 8TH Street Oakland Ca.	Extracted:	07/19/1999
Sampled:	07/13/1999 11:35	QC-Batch:	1999/07/19-02.23
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	1.0	mg/L	1.00	07/20/1999	

To: **Aqua Science Engineers, Inc.**
Attn.: Ian T. Reed

Test Method: 5520 B
Prep Method: 5520 B

Batch QC Report
Total Oil & Grease

Method Blank **Water** **QC Batch # 1999/07/19-02.23**

MB: 1999/07/19-02.23-001 Date Extracted: 07/19/1999

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Oil & Grease (total)	ND	1	mg/L	07/20/1999	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-07-0238

To: **Aqua Science Engineers, Inc.**
Attn: Ian T. Reed

Test Method: 5520 B
Prep Method: 5520 B

Batch QC Report

Total Oil & Grease

Laboratory Control Spike (LCS/LCSD) Water **QC Batch # 1999/07/19-02.23**

LCS: 1999/07/19-02.23-002 Extracted: 07/19/1999 Analyzed: 07/20/1999
LCSD: 1999/07/19-02.23-003 Extracted: 07/19/1999 Analyzed: 07/20/1999

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Oil & Grease (total)	19.4	18.6	20.0	20.0	97.0	93.0	4.2	80-120	20		

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-07-0238

Halogenated Volatile Organic Compounds

Aqua Science Engineers, Inc.

208 West El Pintado Road
Danville
CA 94526

Attn: Ian T. Reed

Phone: (925) 820-9391 Fax: (925) 837-4853

Project #: 2808

Project: Lim

Site: 250 8TH Street

Oakland Ca.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	07/13/1999 10:40	1
MW-2	Water	07/13/1999 11:35	2

To: **Aqua Science Engineers, Inc.**
Attn.: Ian T. Reed

Test Method: 8010
Prep Method: 5030

Halogenated Volatile Organic Compounds

Sample ID:	**MW-1**	Lab Sample ID:	**1999-07-0238-001**
Project:	2808 Lim	Received:	07/15/1999 17:14
Site:	250 8TH Street Oakland Ca.	Extracted:	07/19/1999 19:19
Sampled:	07/13/1999 10:40	QC-Batch:	1999/07/19-01.25
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	07/19/1999 19:19	
Vinyl chloride	ND	0.50	ug/L	1.00	07/19/1999 19:19	
Chloroethane	ND	0.50	ug/L	1.00	07/19/1999 19:19	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	07/19/1999 19:19	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	07/19/1999 19:19	
Methylene chloride	ND	5.0	ug/L	1.00	07/19/1999 19:19	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/19/1999 19:19	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/19/1999 19:19	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	07/19/1999 19:19	
Chloroform	4.6	3.0	ug/L	1.00	07/19/1999 19:19	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	07/19/1999 19:19	
Carbon tetrachloride	ND	0.50	ug/L	1.00	07/19/1999 19:19	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	07/19/1999 19:19	
Trichloroethene	ND	0.50	ug/L	1.00	07/19/1999 19:19	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	07/19/1999 19:19	
Bromodichloromethane	ND	0.50	ug/L	1.00	07/19/1999 19:19	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	07/19/1999 19:19	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/19/1999 19:19	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/19/1999 19:19	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	07/19/1999 19:19	
Tetrachloroethene	1.5	0.50	ug/L	1.00	07/19/1999 19:19	
Dibromochloromethane	ND	0.50	ug/L	1.00	07/19/1999 19:19	
Chlorobenzene	ND	0.50	ug/L	1.00	07/19/1999 19:19	
Bromoform	ND	2.0	ug/L	1.00	07/19/1999 19:19	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/19/1999 19:19	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	07/19/1999 19:19	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	07/19/1999 19:19	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	07/19/1999 19:19	
Trichlorotrifluoroethane	ND	2.0	ug/L	1.00	07/19/1999 19:19	
Chloromethane	ND	1.0	ug/L	1.00	07/19/1999 19:19	
Bromomethane	ND	1.0	ug/L	1.00	07/19/1999 19:19	
Surrogate(s)						
1-Chloro-2-fluorobenzene	66.2	50-150	%	1.00	07/19/1999 19:19	

To: **Aqua Science Engineers, Inc.**
Attn.: Ian T. Reed

Test Method: 8010
Prep Method: 5030

Halogenated Volatile Organic Compounds

Sample ID:	**MW-2**	Lab Sample ID:	**1999-07-0238-002**
Project:	2808 Lim	Received:	07/15/1999 17:14
Site:	250 8TH Street Oakland Ca.	Extracted:	07/21/1999 10:35
Sampled:	07/13/1999 11:35	QC-Batch:	1999/07/20-01.26
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	07/21/1999 10:35	
Vinyl chloride	ND	0.50	ug/L	1.00	07/21/1999 10:35	
Chloroethane	ND	0.50	ug/L	1.00	07/21/1999 10:35	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	07/21/1999 10:35	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	07/21/1999 10:35	
Methylene chloride	ND	5.0	ug/L	1.00	07/21/1999 10:35	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/21/1999 10:35	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/21/1999 10:35	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	07/21/1999 10:35	
Chloroform	ND	3.0	ug/L	1.00	07/21/1999 10:35	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	07/21/1999 10:35	
Carbon tetrachloride	ND	0.50	ug/L	1.00	07/21/1999 10:35	
1,2-Dichloroethane	7.7	0.50	ug/L	1.00	07/21/1999 10:35	
Trichloroethene	ND	0.50	ug/L	1.00	07/21/1999 10:35	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	07/21/1999 10:35	
Bromodichloromethane	ND	0.50	ug/L	1.00	07/21/1999 10:35	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	07/21/1999 10:35	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/21/1999 10:35	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/21/1999 10:35	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	07/21/1999 10:35	
Tetrachloroethene	0.68	0.50	ug/L	1.00	07/21/1999 10:35	
Dibromochloromethane	ND	0.50	ug/L	1.00	07/21/1999 10:35	
Chlorobenzene	ND	0.50	ug/L	1.00	07/21/1999 10:35	
Bromoform	ND	2.0	ug/L	1.00	07/21/1999 10:35	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/21/1999 10:35	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	07/21/1999 10:35	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	07/21/1999 10:35	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	07/21/1999 10:35	
Trichlorotrifluoroethane	ND	2.0	ug/L	1.00	07/21/1999 10:35	
Chloromethane	ND	1.0	ug/L	1.00	07/21/1999 10:35	
Bromomethane	ND	1.0	ug/L	1.00	07/21/1999 10:35	
Surrogate(s)						
1-Chloro-2-fluorobenzene	90.8	50-150	%	1.00	07/21/1999 10:35	

To: **Aqua Science Engineers, Inc.**
Attn.: Ian T. Reed

Test Method: 8010
Prep Method: 5030

Batch QC Report

Halogenated Volatile Organic Compounds

Method Blank | **Water** | **QC Batch # 1999/07/19-01.25**

MB: 1999/07/19-01.25-001 | Date Extracted: 07/19/1999 06:53

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	07/19/1999 06:53	
Vinyl chloride	ND	0.5	ug/L	07/19/1999 06:53	
Chloroethane	ND	0.5	ug/L	07/19/1999 06:53	
Trichlorofluoromethane	ND	0.5	ug/L	07/19/1999 06:53	
1,1-Dichloroethene	ND	0.5	ug/L	07/19/1999 06:53	
Methylene chloride	ND	5.0	ug/L	07/19/1999 06:53	
trans-1,2-Dichloroethene	ND	0.5	ug/L	07/19/1999 06:53	
cis-1,2-Dichloroethene	ND	0.5	ug/L	07/19/1999 06:53	
1,1-Dichloroethane	ND	0.5	ug/L	07/19/1999 06:53	
Chloroform	ND	3.0	ug/L	07/19/1999 06:53	
1,1,1-Trichloroethane	ND	0.5	ug/L	07/19/1999 06:53	
Carbon tetrachloride	ND	0.5	ug/L	07/19/1999 06:53	
1,2-Dichloroethane	ND	0.5	ug/L	07/19/1999 06:53	
Trichloroethene	ND	0.5	ug/L	07/19/1999 06:53	
1,2-Dichloropropane	ND	0.5	ug/L	07/19/1999 06:53	
Bromodichloromethane	ND	0.5	ug/L	07/19/1999 06:53	
2-Chloroethylvinyl ether	ND	0.5	ug/L	07/19/1999 06:53	
trans-1,3-Dichloropropene	ND	0.5	ug/L	07/19/1999 06:53	
cis-1,3-Dichloropropene	ND	0.5	ug/L	07/19/1999 06:53	
1,1,2-Trichloroethane	ND	0.5	ug/L	07/19/1999 06:53	
Tetrachloroethene	ND	0.5	ug/L	07/19/1999 06:53	
Dibromochloromethane	ND	0.5	ug/L	07/19/1999 06:53	
Chlorobenzene	ND	0.5	ug/L	07/19/1999 06:53	
Bromoform	ND	2.0	ug/L	07/19/1999 06:53	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	07/19/1999 06:53	
1,3-Dichlorobenzene	ND	0.5	ug/L	07/19/1999 06:53	
1,4-Dichlorobenzene	ND	0.5	ug/L	07/19/1999 06:53	
1,2-Dichlorobenzene	ND	0.5	ug/L	07/19/1999 06:53	
Trichlorotrifluoroethane	ND	2.0	ug/L	07/19/1999 06:53	
Chloromethane	ND	1.0	ug/L	07/19/1999 06:53	
Bromomethane	ND	1.0	ug/L	07/19/1999 06:53	
Surrogate(s)					
1-Chloro-2-fluorobenzene	69.0	50-150	%	07/19/1999 06:53	

To: **Aqua Science Engineers, Inc.**
Attn.: Ian T. Reed

Test Method: 8010
Prep Method: 5030

Batch QC Report

Halogenated Volatile Organic Compounds

Method Blank | Water | **QC Batch # 1999/07/20-01.26**

MB: 1999/07/20-01.26-001 | Date Extracted: 07/20/1999 11:34

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	07/20/1999 11:34	
Vinyl chloride	ND	0.5	ug/L	07/20/1999 11:34	
Chloroethane	ND	0.5	ug/L	07/20/1999 11:34	
Trichlorofluoromethane	ND	0.5	ug/L	07/20/1999 11:34	
1,1-Dichloroethene	ND	0.5	ug/L	07/20/1999 11:34	
Methylene chloride	ND	5.0	ug/L	07/20/1999 11:34	
trans-1,2-Dichloroethene	ND	0.5	ug/L	07/20/1999 11:34	
cis-1,2-Dichloroethene	ND	0.5	ug/L	07/20/1999 11:34	
1,1-Dichloroethane	ND	0.5	ug/L	07/20/1999 11:34	
Chloroform	ND	3.0	ug/L	07/20/1999 11:34	
1,1,1-Trichloroethane	ND	0.5	ug/L	07/20/1999 11:34	
Carbon tetrachloride	ND	0.5	ug/L	07/20/1999 11:34	
1,2-Dichloroethane	ND	0.5	ug/L	07/20/1999 11:34	
Trichloroethene	ND	0.5	ug/L	07/20/1999 11:34	
1,2-Dichloropropane	ND	0.5	ug/L	07/20/1999 11:34	
Bromodichloromethane	ND	0.5	ug/L	07/20/1999 11:34	
2-Chloroethylvinyl ether	ND	0.5	ug/L	07/20/1999 11:34	
trans-1,3-Dichloropropene	ND	0.5	ug/L	07/20/1999 11:34	
cis-1,3-Dichloropropene	ND	0.5	ug/L	07/20/1999 11:34	
1,1,2-Trichloroethane	ND	0.5	ug/L	07/20/1999 11:34	
Tetrachloroethene	ND	0.5	ug/L	07/20/1999 11:34	
Dibromochloromethane	ND	0.5	ug/L	07/20/1999 11:34	
Chlorobenzene	ND	0.5	ug/L	07/20/1999 11:34	
Bromoform	ND	2.0	ug/L	07/20/1999 11:34	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	07/20/1999 11:34	
1,3-Dichlorobenzene	ND	0.5	ug/L	07/20/1999 11:34	
1,4-Dichlorobenzene	ND	0.5	ug/L	07/20/1999 11:34	
1,2-Dichlorobenzene	ND	0.5	ug/L	07/20/1999 11:34	
Trichlorotrifluoroethane	ND	2.0	ug/L	07/20/1999 11:34	
Chloromethane	ND	1.0	ug/L	07/20/1999 11:34	
Bromomethane	ND	1.0	ug/L	07/20/1999 11:34	
Surrogate(s)					
1-Chloro-2-fluorobenzene	105.5	50-150	%	07/20/1999 11:34	

To: **Aqua Science Engineers, Inc.**

Attn: Ian T. Reed

Test Method: 8010

Prep Method: 5030

Batch QC Report

Halogenated Volatile Organic Compounds

Laboratory Control Spike (LCS/LCSD) Water **QC Batch # 1999/07/19-01.25**

LCS: 1999/07/19-01.25-002 Extracted: 07/19/1999 07:40 Analyzed: 07/19/1999 07:40

LCSD: 1999/07/19-01.25-003 Extracted: 07/19/1999 08:28 Analyzed: 07/19/1999 08:28

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
1,1-Dichloroethene	19.8	20.4	20.0	20.0	99.0	102.0	3.0	50-140	20		
Trichloroethene	20.9	21.3	20.0	20.0	104.5	106.5	1.9	50-150	20		
Chlorobenzene	20.6	19.5	20.0	20.0	103.0	97.5	5.5	50-150	20		
Surrogate(s)											
1-Chloro-2-fluorobenzen	16.4	14.9	20	20	82.0	74.5		50-150			

To: **Aqua Science Engineers, Inc.**

Attn: Ian T. Reed

Test Method: 8010

Prep Method: 5030

Batch QC Report

Halogenated Volatile Organic Compounds

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 1999/07/20-01.26**

LCS: 1999/07/20-01.26-002 Extracted: 07/20/1999 12:27 Analyzed: 07/20/1999 12:27

LCSD: 1999/07/20-01.26-003 Extracted: 07/20/1999 13:20 Analyzed: 07/20/1999 13:20

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
1,1-Dichloroethene	23.7	23.7	20.0	20.0	118.5	118.5	0.0	50-140	20		
Trichloroethene	24.1	24.2	20.0	20.0	120.5	121.0	0.4	50-150	20		
Chlorobenzene	26.0	25.8	20.0	20.0	130.0	129.0	0.8	50-150	20		
Surrogate(s)											
1-Chloro-2-fluorobenzen	21.9	21.7	20	20	109.5	108.5		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-07-0238

To: **Aqua Science Engineers, Inc.**
Attn.: Ian T. Reed

Test Method: 8010
Prep Method: 5030

Batch QC Report

Halogenated Volatile Organic Compounds

Matrix Spike (MS / MSD) **Water** **QC Batch # 1999/07/19-01.25**

Sample ID: **MW-1** Lab Sample ID: 1999-07-0238-001

MS: 1999/07/19-01.25-004 Extracted: 07/19/1999 20:08 Analyzed: 07/19/1999 20:08 Dilution: 1.0

MSD: 1999/07/19-01.25-005 Extracted: 07/19/1999 20:56 Analyzed: 07/19/1999 20:56 Dilution: 1.0

Compound	Conc [ug/L]			Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
1,1-Dichloroethene	19.6	19.7	ND	20.0	20.0	98.0	98.5	0.5	50-140	20		
Trichloroethene	20.9	20.8	ND	20.0	20.0	104.5	104.0	0.5	50-150	20		
Chlorobenzene	20.9	20.3	ND	20.0	20.0	104.5	101.5	2.9	50-150	20		
Surrogate(s)												
1-Chloro-2-fluorobenzen	16.7	16.2		20	20	83.5	81.0		50-150			

Gas/BTEX and MTBE

Aqua Science Engineers, Inc.

208 West El Pintado Road
Danville
CA 94526

Attn: Ian T. Reed

Phone: (925) 820-9391 Fax: (925) 837-4853

Project #: 2808

Project: Lim

Site: 250 8TH Street

Oakland Ca.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	07/13/1999 10:40	1
MW-2	Water	07/13/1999 11:35	2

To: **Aqua Science Engineers, Inc.**

Attn.: Ian T. Reed

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-1**	Lab Sample ID:	**1999-07-0238-001**
Project:	2808 Lim	Received:	07/15/1999 17:14
Site:	250 8TH Street Oakland Ca.	Extracted:	07/20/1999 15:02
Sampled:	07/13/1999 10:40	QC-Batch:	1999/07/20-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	340	50	ug/L	1.00	07/20/1999 15:02	g
Benzene	ND	0.50	ug/L	1.00	07/20/1999 15:02	
Toluene	ND	0.50	ug/L	1.00	07/20/1999 15:02	
Ethyl benzene	2.6	0.50	ug/L	1.00	07/20/1999 15:02	
Xylene(s)	ND	0.50	ug/L	1.00	07/20/1999 15:02	
MTBE	ND	5.0	ug/L	1.00	07/20/1999 15:02	
Surrogate(s)						
Trifluorotoluene	97.4	58-124	%	1.00	07/20/1999 15:02	
4-Bromofluorobenzene-FID	100.2	50-150	%	1.00	07/20/1999 15:02	

To: **Aqua Science Engineers, Inc.**

Attn.: Ian T. Reed

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-2**	Lab Sample ID:	**1999-07-0238-002**
Project:	2808 Lim	Received:	07/15/1999 17:14
Site:	250 8TH Street Oakland Ca.	Extracted:	07/19/1999 17:21
Sampled:	07/13/1999 11:35	QC-Batch:	1999/07/20-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	73000	5000	ug/L	100.00	07/19/1999 17:21	
Benzene	11000	50	ug/L	100.00	07/19/1999 17:21	
Toluene	13000	50	ug/L	100.00	07/19/1999 17:21	
Ethyl benzene	2200	50	ug/L	100.00	07/19/1999 17:21	
Xylene(s)	9800	50	ug/L	100.00	07/19/1999 17:21	
MTBE	ND	500	ug/L	100.00	07/19/1999 17:21	
Surrogate(s)						
Trifluorotoluene	65.9	58-124	%	1.00	07/19/1999 17:21	
4-Bromofluorobenzene-FID	73.3	50-150	%	1.00	07/19/1999 17:21	

To: **Aqua Science Engineers, Inc.**

Attn.: Ian T. Reed

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Method Blank | **Water** | **QC Batch # 1999/07/20-01.01**

MB: 1999/07/20-01.01-001

Date Extracted: 07/20/1999 08:02

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	07/20/1999 08:02	
Benzene	ND	0.5	ug/L	07/20/1999 08:02	
Toluene	ND	0.5	ug/L	07/20/1999 08:02	
Ethyl benzene	ND	0.5	ug/L	07/20/1999 08:02	
Xylene(s)	ND	0.5	ug/L	07/20/1999 08:02	
MTBE	ND	5.0	ug/L	07/20/1999 08:02	
Surrogate(s)					
Trifluorotoluene	88.2	58-124	%	07/20/1999 08:02	
4-Bromofluorobenzene-FID	82.2	50-150	%	07/20/1999 08:02	

To: **Aqua Science Engineers, Inc.**

Attn: Ian T. Reed

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 1999/07/20-01.01**

LCS: 1999/07/20-01.01-002 Extracted: 07/20/1999 08:29 Analyzed: 07/20/1999 08:29

LCSD: 1999/07/20-01.01-003 Extracted: 07/20/1999 09:23 Analyzed: 07/20/1999 09:23

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	494	513	500	500	98.8	102.6	3.8	75-125	20		
Benzene	97.7	101	100.0	100.0	97.7	101.0	3.3	77-123	20		
Toluene	94.7	101	100.0	100.0	94.7	101.0	6.4	78-122	20		
Ethyl benzene	95.1	98.2	100.0	100.0	95.1	98.2	3.2	70-130	20		
Xylene(s)	280	288	300	300	93.3	96.0	2.9	75-125	20		
Surrogate(s)											
Trifluorotoluene	468	495	500	500	93.6	99.0		58-124			
4-Bromofluorobenzene-FI	461	466	500	500	92.2	93.2		50-150			

To: **Aqua Science Engineers, Inc.**

Attn:Ian T. Reed

Test Method: 8020
8015M

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Diesel

Aqua Science Engineers, Inc.

208 West El Pintado Road
Danville
CA 94526

Attn: Ian T. Reed

Phone: (925) 820-9391 Fax: (925) 837-4853

Project #: 2808

Project: Lim

Site: 250 8TH Street

Oakland Ca.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	07/13/1999 10:40	1
MW-2	Water	07/13/1999 11:35	2

To: **Aqua Science Engineers, Inc.**
Attn.: Ian T. Reed

Test Method: 8015m
Prep Method: 3510/8015M

Diesel

Sample ID:	**MW-1**	Lab Sample ID:	**1999-07-0238-001**
Project:	2808 Lim	Received:	07/15/1999 17:14
Site:	250 8TH Street Oakland Ca.	Extracted:	07/22/1999 09:14
Sampled:	07/13/1999 10:40	QC-Batch:	1999/07/22-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/22/1999 14:46	
Surrogate(s)						
o-Terphenyl	96.9	60-130	%	1.00	07/22/1999 14:46	

To: **Aqua Science Engineers, Inc.**
Attn.: Ian T. Reed

Test Method: 8015m
Prep Method: 3510/8015M

Diesel

Sample ID:	**MW-2**	Lab Sample ID:	**1999-07-0238-002**
Project:	2808 Lim	Received:	07/15/1999 17:14
Site:	250 8TH Street Oakland Ca.	Extracted:	07/22/1999 09:14
Sampled:	07/13/1999 11:35	QC-Batch:	1999/07/22-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	8500	50	ug/L	1.00	07/22/1999 15:22	ed
Surrogate(s)						
o-Terphenyl	142.8	60-130	%	1.00	07/22/1999 15:22	

To: **Aqua Science Engineers, Inc.**
Attn.: Ian T. Reed

Test Method: 8015m
Prep Method: 3510/8015M

Batch QC Report
Diesel

Method Blank | **Water** | **QC Batch # 1999/07/22-02.10**

MB: 1999/07/22-02.10-001 | Date Extracted: 07/22/1999 09:14

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	07/22/1999 12:57	
Surrogate(s)					
o-Terphenyl	96.0	60-130	%	07/22/1999 12:57	

To: **Aqua Science Engineers, Inc.**

Attn: Ian T. Reed

Test Method: 8015m

Prep Method: 3510/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD) Water **QC Batch # 1999/07/22-02.10**

LCS: 1999/07/22-02.10-002 Extracted: 07/22/1999 09:14 Analyzed: 07/22/1999 15:20

LCSD: 1999/07/22-02.10-003 Extracted: 07/22/1999 09:14 Analyzed: 07/22/1999 17:11

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	1100	1160	1250	1250	88.0	92.8	5.3	60-130	25		
Surrogate(s)											
o-Terphenyl	20.0	20.0	20.0	20.0	100.0	100.0		60-130			

To: **Aqua Science Engineers, Inc.**
Attn:Ian T. Reed

Test Method: 8015m
Prep Method: 3510/8015M

Legend & Notes

Diesel

Analyte Flags

ed

Hydrocarbon reported is in the early Diesel range, and does not match our Diesel standard

17.07.0230

46764

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

Chain of Custody

PAGE 1 OF 1

SAMPLER (SIGNATURE) Ian Reed (PHONE NO.) (925) 820-9391

PROJECT NAME LIM JOB NO. 2808

ADDRESS 250 8th Street Oakland CA DATE 7-13-99

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-GASOLINE (EPA 5030/8015)	TPH-DIESEL (EPA 3510/8015)	PURGEABLE HALOCARBONS (EPA 601/8010)	PURGEABLE AROMATICS (EPA 602/8020)	VOLATILE ORGANICS (EPA 624/8240)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LUFT METALS (5) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140) (EPA 608/8080)	ORGANOCHLORINE HERBICIDES (EPA 8150)	FUEL OXYGENATES (EPA 8260)					COMPOSITE
MW-1	7-13-99	1040	water	7	X		X	X															
MW-2	7-13-99	1135	water	9	X		X	X				X												

RELINQUISHED BY: Ian Reed (signature) (time)
Ian Reed (printed name) 7-14-99 (date)
Company- ASE

RECEIVED BY: (signature) 1025 (time)
B Morris (printed name) 7-15-99 (date)
Company-

RELINQUISHED BY: (signature) 1714 (time)
B Morris (printed name) 7-15-99 (date)
Company-

RECEIVED BY LABORATORY: (signature) 1714 (time)
Ken Wright (printed name) 7-15-99 (date)
Company- CL

COMMENTS:
5 day TAT