



ENVIRONMENTAL  
PROTECTION  
00 FEB 18 PM 4:15

February 14, 2000

SHD 1791

QUARTERLY GROUNDWATER MONITORING REPORT  
JANUARY 2000 GROUNDWATER SAMPLING  
ASE JOB NO. 3406  
at  
Former Olympic Service Station  
1436 Grant Avenue  
San Lorenzo, California

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

## 1.0 INTRODUCTION

The following is a report detailing the results of the January 2000 quarterly groundwater sampling at the Former Olympic Service Station located at 1436 Grant Avenue, San Lorenzo, California (Figures 1 and 2).

## 2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On January 13, 2000, ASE associate geologist Ian Reed measured the depth to water in each site monitoring well using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating product or sheen. No free-floating product or sheen was observed in any of the site monitoring wells. Groundwater elevation data is presented in Table One, and groundwater elevation (potentiometric surface) contours are plotted on Figure 2. The groundwater flow is to the northwest at a gradient of 0.0036-feet/foot.

**TABLE ONE**  
Groundwater Elevation Data

Well I.D.	Date of Measurement	Top of Casing Elevation (relative to project datum)	Depth to Water (feet)	Groundwater Elevation (project data)
MW-1	10/06/99	15.00	8.35	6.65
	01/13/00		7.90	7.10
MW-2	10/06/99	14.46	7.87	6.59
	01/13/00		7.46	7.00
MW-3	10/06/99	14.41	7.90	6.51
	01/13/00		7.50	6.91

## 3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

On January 13, 2000, ASE associate geologist Ian Reed collected groundwater samples from all three site monitoring wells for analysis. No free-floating hydrocarbons or sheen was present on the surface of groundwater in any of the monitoring wells. However, hydrocarbon odors were present in water purged from monitoring wells MW-2 and MW-3. Prior to sampling, the wells were purged of four well casing volumes of groundwater. 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 dedicated polyethylene bailers. The groundwater samples to be analyzed

for non-volatile compounds were decanted from the bailers into 1-liter glass amber bottles. The samples to be analyzed for volatile compounds were contained in 40-ml volatile organic analysis (VOA) vials, preserved with hydrochloric acid, and sealed without headspace. All the samples were labeled, placed in protective foam sleeves, and stored on ice for transport to Chromalab, Inc. of Pleasanton, California under chain of custody. Well sampling purge water was contained in sealed and labeled 55-gallon steel drums and left on-site for temporary storage until off-site disposal can be arranged. See Appendix A for a copy of the Field Logs.

The groundwater samples were analyzed by Chromalab for total petroleum hydrocarbons as gasoline (TPH-G) by modified EPA Method 5030/8015, total petroleum hydrocarbons as diesel (TPH-D) by modified EPA Method 3510/8015, and benzene, toluene, ethyl benzene, and total xylenes (collectively known as BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8020. Groundwater samples collected from monitoring well MW-2, located near the former waste-oil underground storage tank (UST), were also analyzed for total petroleum hydrocarbons as motor oil (TPH-MO) by modified EPA Method 3510/8015, Oil and Grease (O&G) by Standard Method 5520, volatile organic compounds (VOCs) by EPA Method 8010, and semi-volatile organic compounds (SVOCs) by EPA Method 8270. 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.

**TABLE TWO**  
**Summary of Chemical Analysis of GROUNDWATER Samples**  
**TPH-G, TPH-D, BTEX, MTBE and Total Lead**  
**All results are in parts per billion**

Boring & Date Sampled	TPH Gasoline	TPH Diesel	Motor Oil	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	Oil & Grease
<u>MW-1</u>									
10/06/99	3,900*	84**	---	< 25	< 25	< 25	< 25	3,500	---
1/13/00	< 1,300	< 50	---	18	< 13	< 13	< 13	<del>3,500</del>	---
<u>MW-2</u>									
10/06/99	70*	< 50	< 500	< 0.50	< 0.5	< 0.5	< 0.5	11	< 1,000
1/13/00	< 50	< 50	< 500	< 0.5	< 0.5	< 0.5	< 0.5	6.2	< 1.0
<u>MW-3</u>									
10/06/99	3,900	300**	---	900	89	160	560	790	---
1/13/00	740	210	---	<del>110</del> *	4.8	35	18	290	---
MCL	NE	NE	NE	1.0	150	700	1,750	13	NE

Notes:

Most recent concentrations are in bold.

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit.

MCL is the California Department of Health Services maximum contaminant level for drinking water.

NE = MCL is not established.

\* = Hydrocarbons not typical of gasoline pattern.

\*\* = Hydrocarbons not typical of diesel pattern.

--- = Not analyzed

**TABLE THREE**  
**Summary of Chemical Analysis of GROUNDWATER Samples**  
**Monitoring Well MW-2**  
**VOCs and SVOCs**  
**All results are in parts per billion**

<u>Date Sampled</u>	<u>VOCs</u>	<u>SVOCs</u>
10/06/99	ND	ND
1/13/00	ND	ND

Notes:

ND = No compounds detected at various detection limits.

#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

The groundwater samples collected from monitoring well MW-1 contained 18 ppb benzene and 1,700 ppb MTBE. The groundwater samples collected from monitoring well MW-2 contained 6.2 ppb MTBE. The groundwater samples collected from monitoring well MW-3 contained 740 ppb TPH-G, 210 TPH-D, 110 ppb benzene, 4.8 ppb ethyl benzene, 35 ppb toluene, 18 ppb total xylenes, and 290 ppb MTBE.

In general, there has been a decrease in hydrocarbon concentrations since last quarter. No hydrocarbons, VOCs or SVOCs were detected in groundwater samples in monitoring well MW-2, other than 6.2 ppb MTBE. The benzene and MTBE concentrations in groundwater samples from monitoring wells MW-1 and MW-3 exceeded the Department of Health Services (DHS) maximum contaminant level (MCL) for drinking water.

Since no VOCs or SVOCs were detected in groundwater samples collected from monitoring well MW-2 during the past two quarters, ASE recommends that those analyses be dropped from future sampling events. ASE also recommends that this site remain on a quarterly groundwater monitoring program. Based on the sampling schedule, the next sampling is scheduled for April 2000.

#### 5.0 REPORT LIMITATIONS

The results of this assessment 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.

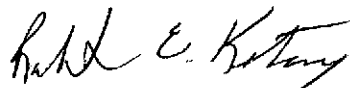
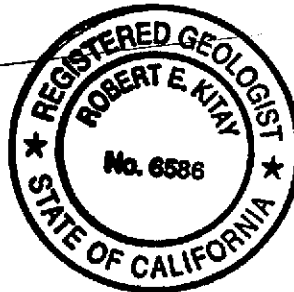
Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.



Ian Reed  
Associate Geologist



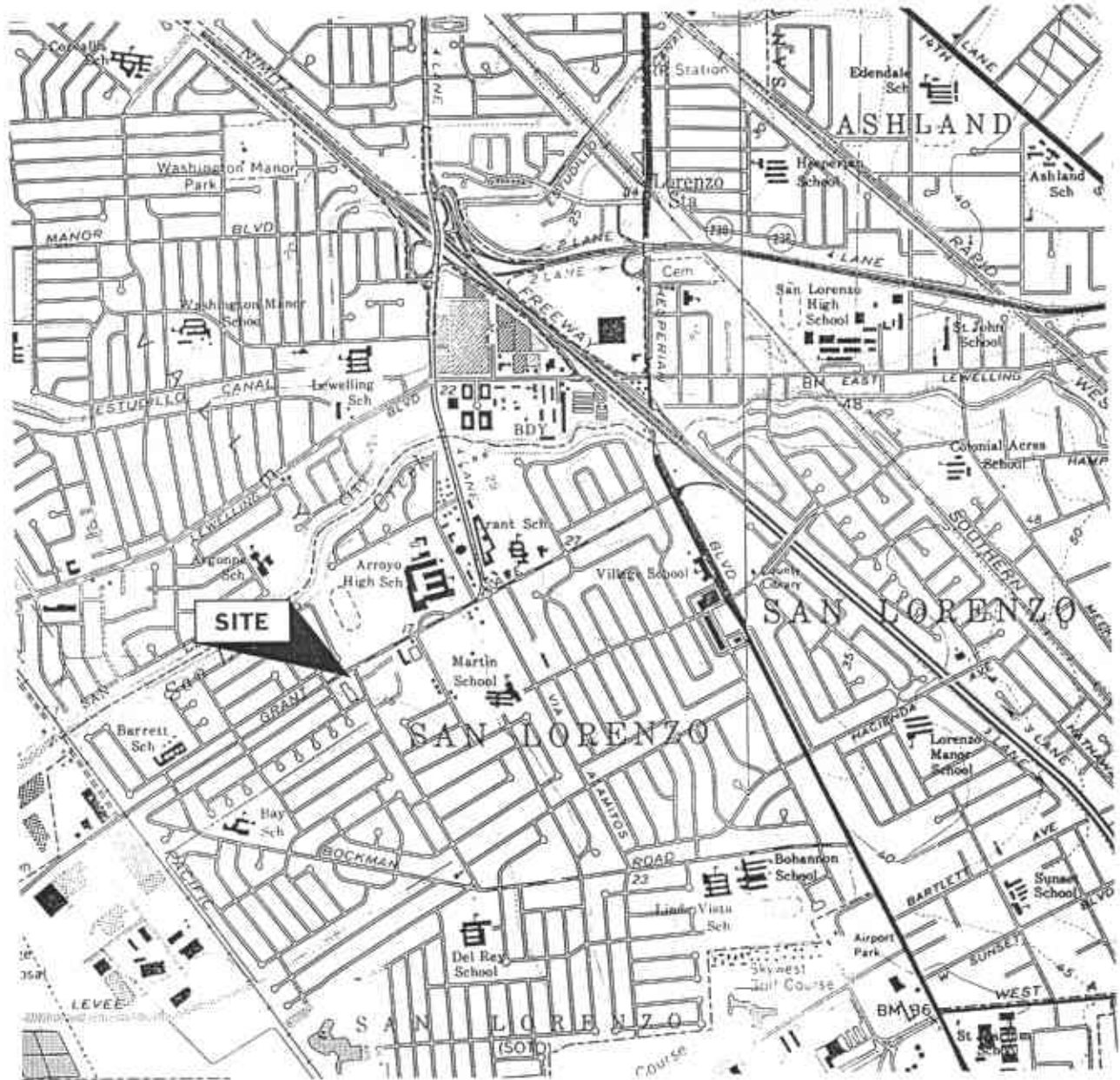
Robert E. Kitay, R.G., R.E.A.  
Senior Geologist

Attachments: Figures 1 and 2  
Appendices A through B

cc: Mr. George Jaber  
Mr. Amir Gholami, Alameda County Health Care Services Agency  
Mr. Chuck Headlee, California Regional Water Quality Control Board



NORTH



## LOCATION MAP

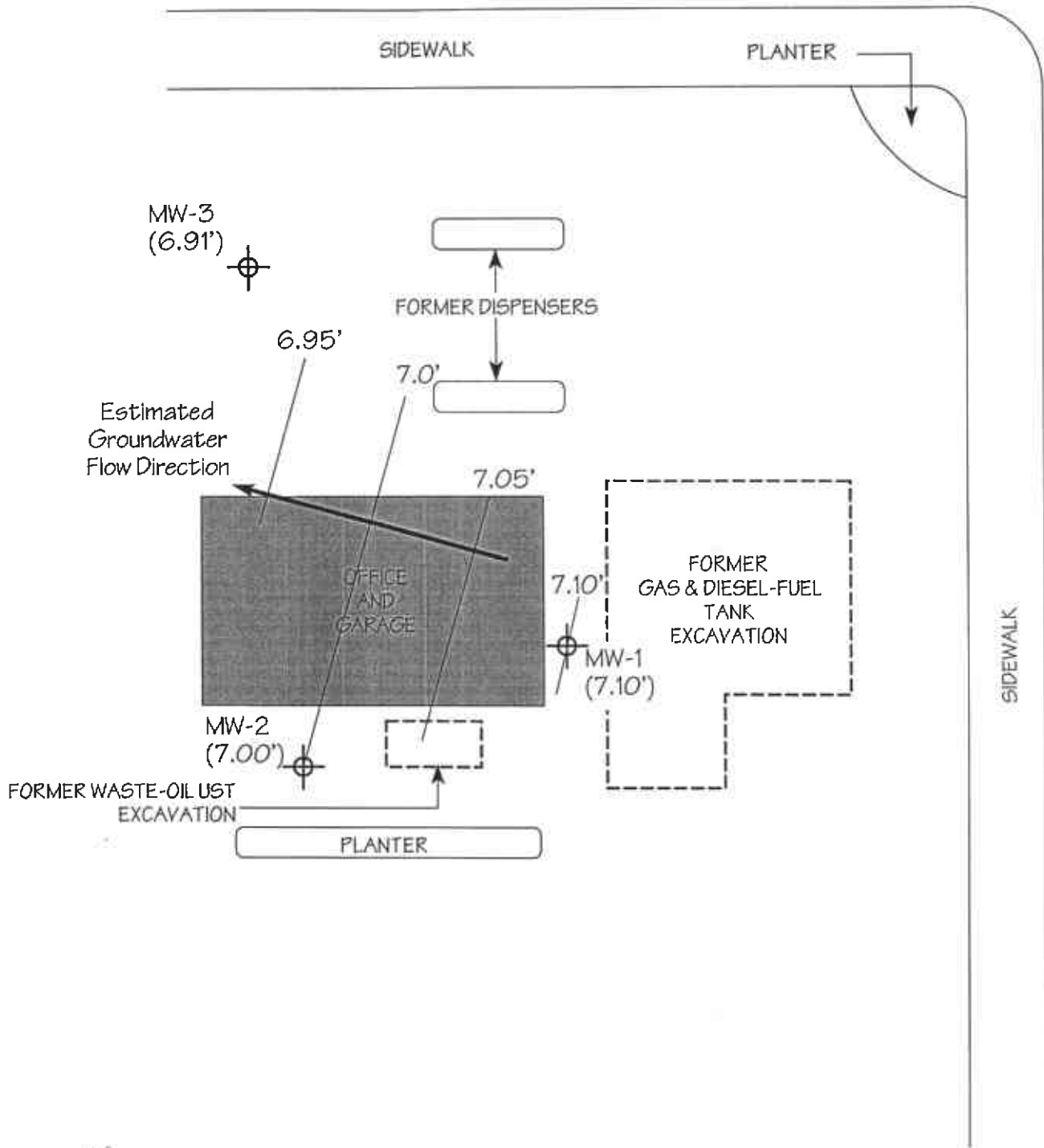
Olympic Service Station  
1436 Grant Avenue  
San Lorenzo, California

AQUA SCIENCE ENGINEERS, INC.

Figure 1

# GRANT AVENUE

# CHANNEL STREET



NORTH  
SCALE  
1" = 20'

**LEGEND**

- MW-1 (7.10') Monitoring Well with groundwater elevation
- 7.0' Groundwater elevation contour

<b>POTENTIOMETRIC SURFACE</b>	
<b>MAP - 1/13/00</b>	
Olympic Service Station 1436 Grant Avenue San Lorenzo, California	
AQUA SCIENCE ENGINEERS, INC.	Figure 2



## APPENDIX A



# WELL SAMPLING FIELD LOG

Project Name and Address: Jaber  
 Job #: \_\_\_\_\_ Date of sampling: 1/13/00  
 Well Name: MW-1 Sampled by: \_\_\_\_\_  
 Total depth of well (feet): 24.34' Well diameter (inches): 2"  
 Depth to water before sampling (feet): 7.90'  
 Thickness of floating product if any: \_\_\_\_\_  
 Depth of well casing in water (feet): 16.44  
 Number of gallons per well casing volume (gallons): 2.8  
 Number of well casing volumes to be removed: 4  
 Req'd volume of groundwater to be purged before sampling (gallons): 11.18  
 Equipment used to purge the well: Dedicated Bailer  
 Time Evacuation Began: 11:20 Time Evacuation Finished: \_\_\_\_\_  
 Approximate volume of groundwater purged: 11.0  
 Did the well go dry?: No After how many gallons: \_\_\_\_\_  
 Time samples were collected: 11:45  
 Depth to water at time of sampling: 7.97'  
 Percent recovery at time of sampling: 99%  
 Samples collected with: Dedicated bailer  
 Sample color: yellow brown Odor: no  
 Description of sediment in sample: silt

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>71.3</u>	<u>6.94</u>	<u>613</u>
<u>2</u>	<u>72.6</u>	<u>7.01</u>	<u>729</u>
<u>3</u>	<u>77.3</u>	<u>7.23</u>	<u>733</u>
<u>4</u>	<u>77.9</u>	<u>7.13</u>	<u>715</u>

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-1</u>	<u>3</u>	<u>40 ml VOA</u>	<u>✓</u>	<u>✓</u>	
	<u>2</u>	<u>1 liter Amber</u>		<u>✓</u>	



## WELL SAMPLING FIELD LOG

Project Name and Address: Jaber  
 Job #: \_\_\_\_\_ Date of sampling: 1/13/00  
 Well Name: MW-2 Sampled by: FR  
 Total depth of well (feet): 15.56' Well diameter (inches): 2"  
 Depth to water before sampling (feet): 7.46'  
 Thickness of floating product if any: \_\_\_\_\_  
 Depth of well casing in water (feet): 11.1  
 Number of gallons per well casing volume (gallons): 19  
 Number of well casing volumes to be removed: 4  
 Req'd volume of groundwater to be purged before sampling (gallons): 75  
 Equipment used to purge the well: Dedicated Boiler  
 Time Evacuation Began: 11:20 Time Evacuation Finished: 11:30  
 Approximate volume of groundwater purged: 8.0  
 Did the well go dry?: NO After how many gallons: \_\_\_\_\_  
 Time samples were collected: 11:40  
 Depth to water at time of sampling: 7.46  
 Percent recovery at time of sampling: 100%  
 Samples collected with: dedicated barrel  
 Sample color: orange/brown/clear Odor: slight HC odor  
 Description of sediment in sample: silt

### CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>13.1</u>	<u>7.53</u>	<u>573</u>
<u>2</u>	<u>7.2</u>	<u>7.41</u>	<u>573</u>
<u>3</u>	<u>7.2</u>	<u>7.54</u>	<u>579</u>
<u>4</u>	<u>7.2</u>	<u>7.94</u>	<u>394</u>

### SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-2</u>	<u>5</u>	<u>40 ml VOA</u>	<u>✓</u>	<u>✓</u>	_____
	<u>6</u>	<u>1-liter Amber</u>		<u>✓</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____



# WELL SAMPLING FIELD LOG

Project Name and Address: Jaber  
 Job #: \_\_\_\_\_ Date of sampling: 1/13/00  
 Well Name: MW-3 Sampled by: ITR  
 Total depth of well (feet): 19.00' Well diameter (inches): 2"  
 Depth to water before sampling (feet): 7.50'  
 Thickness of floating product if any: -  
 Depth of well casing in water (feet): 11.5  
 Number of gallons per well casing volume (gallons): 2.0  
 Number of well casing volumes to be removed: 4  
 Req'd volume of groundwater to be purged before sampling (gallons): 7.9  
 Equipment used to purge the well: Dedicated Bailor  
 Time Evacuation Began: 11:55 Time Evacuation Finished: 1210  
 Approximate volume of groundwater purged: 0.0  
 Did the well go dry?: NO After how many gallons: \_\_\_\_\_  
 Time samples were collected: 1215  
 Depth to water at time of sampling: 7.56'  
 Percent recovery at time of sampling: 99%  
 Samples collected with: dedicated bailor  
 Sample color: gray brown / clear Odor: mod. HC odor  
 Description of sediment in sample: silt

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>72.5</u>	<u>6.76</u>	<u>719</u>
<u>2</u>	<u>71.0</u>	<u>7.13</u>	<u>832</u>
<u>3</u>	<u>71.3</u>	<u>7.94</u>	<u>910</u>
<u>4</u>	<u>71.6</u>	<u>6.47</u>	<u>394</u>

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-3</u>	<u>3</u>	<u>40 ml VCA</u>	<u>✓</u>	<u>✓</u>	_____
	<u>2</u>	<u>1-l. Amber</u>	_____	<u>✓</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

## **APPENDIX B**

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

Attn.: Mr. Ian T. Reed

Project: 3406  
Jaber

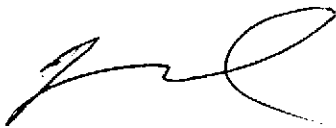
Site: 1436 Grant Ave.  
San Lorenzo, CA

Dear Mr. Reed,

Attached is our report for your samples received on Friday January 14, 2000  
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 February 13, 2000  
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. You can also contact me via email.  
My email address is: [vvancil@chromalab.com](mailto:vvancil@chromalab.com)

Sincerely,



Vincent Vancil

## Halogenated Volatile Organic Compounds

<b>Aqua Science Engineers, Inc.</b>	☒ 208 West El Pintado Road Danville, CA 94526
Attn: Ian T. Reed	Phone: (925) 820-9391 Fax: (925) 837-4853
Project #: 3406	Project: Jaber
Site: 1436 Grant Ave. San Lorenzo, CA	

### Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-2	Water	01/13/2000 11:40	2

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0224

To: Aqua Science Engineers, Inc.

Test Method: 8010

Attn.: Ian T. Reed

Prep Method: 5030

## Halogenated Volatile Organic Compounds

Sample ID: MW-2	Lab Sample ID: 2000-01-0224-002
Project: 3406 Jaber	Received: 01/14/2000 18:47
Site: 1436 Grant Ave. San Lorenzo, CA	Extracted: 01/21/2000 01:18
Sampled: 01/13/2000 11:40	QC-Batch: 2000/01/20-01.25
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	01/21/2000 01:18	
Vinyl chloride	ND	0.50	ug/L	1.00	01/21/2000 01:18	
Chloroethane	ND	0.50	ug/L	1.00	01/21/2000 01:18	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	01/21/2000 01:18	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	01/21/2000 01:18	
Methylene chloride	ND	5.0	ug/L	1.00	01/21/2000 01:18	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	01/21/2000 01:18	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	01/21/2000 01:18	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	01/21/2000 01:18	
Chloroform	ND	0.50	ug/L	1.00	01/21/2000 01:18	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	01/21/2000 01:18	
Carbon tetrachloride	ND	0.50	ug/L	1.00	01/21/2000 01:18	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	01/21/2000 01:18	
Trichloroethene	ND	0.50	ug/L	1.00	01/21/2000 01:18	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	01/21/2000 01:18	
Bromodichloromethane	ND	0.50	ug/L	1.00	01/21/2000 01:18	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	01/21/2000 01:18	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	01/21/2000 01:18	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	01/21/2000 01:18	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	01/21/2000 01:18	
Tetrachloroethene	ND	0.50	ug/L	1.00	01/21/2000 01:18	
Dibromochloromethane	ND	0.50	ug/L	1.00	01/21/2000 01:18	
Chlorobenzene	ND	0.50	ug/L	1.00	01/21/2000 01:18	
Bromoform	ND	2.0	ug/L	1.00	01/21/2000 01:18	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	01/21/2000 01:18	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	01/21/2000 01:18	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	01/21/2000 01:18	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	01/21/2000 01:18	
Trichlorotrifluoroethane	ND	2.0	ug/L	1.00	01/21/2000 01:18	
Chloromethane	ND	1.0	ug/L	1.00	01/21/2000 01:18	
Bromomethane	ND	1.0	ug/L	1.00	01/21/2000 01:18	
<b>Surrogate(s)</b>						
1-Chloro-2-fluorobenzene	88.1	50-150	%	1.00	01/21/2000 01:18	

1220 Quarry Lane \* Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096



Environmental Services (SDB)

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

Test Method: 8010  
Prep Method: 5030

**Batch QC Report**  
Halogenated Volatile Organic Compounds

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/01/20-01.25</b>
MB: 2000/01/20-01.25-001		Date Extracted: 01/20/2000 09:22

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	01/20/2000 09:22	
Vinyl chloride	ND	0.5	ug/L	01/20/2000 09:22	
Chloroethane	ND	0.5	ug/L	01/20/2000 09:22	
Trichlorofluoromethane	ND	0.5	ug/L	01/20/2000 09:22	
1,1-Dichloroethene	ND	0.5	ug/L	01/20/2000 09:22	
Methylene chloride	ND	5.0	ug/L	01/20/2000 09:22	
trans-1,2-Dichloroethene	ND	0.5	ug/L	01/20/2000 09:22	
cis-1,2-Dichloroethene	ND	0.5	ug/L	01/20/2000 09:22	
1,1-Dichloroethane	ND	0.5	ug/L	01/20/2000 09:22	
Chloroform	ND	0.5	ug/L	01/20/2000 09:22	
1,1,1-Trichloroethane	ND	0.5	ug/L	01/20/2000 09:22	
Carbon tetrachloride	ND	0.5	ug/L	01/20/2000 09:22	
1,2-Dichloroethane	ND	0.5	ug/L	01/20/2000 09:22	
Trichloroethene	ND	0.5	ug/L	01/20/2000 09:22	
1,2-Dichloropropane	ND	0.5	ug/L	01/20/2000 09:22	
Bromodichloromethane	ND	0.5	ug/L	01/20/2000 09:22	
2-Chloroethylvinyl ether	ND	0.5	ug/L	01/20/2000 09:22	
trans-1,3-Dichloropropene	ND	0.5	ug/L	01/20/2000 09:22	
cis-1,3-Dichloropropene	ND	0.5	ug/L	01/20/2000 09:22	
1,1,2-Trichloroethane	ND	0.5	ug/L	01/20/2000 09:22	
Tetrachloroethene	ND	0.5	ug/L	01/20/2000 09:22	
Dibromochloromethane	ND	0.5	ug/L	01/20/2000 09:22	
Chlorobenzene	ND	0.5	ug/L	01/20/2000 09:22	
Bromoform	ND	2.0	ug/L	01/20/2000 09:22	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	01/20/2000 09:22	
1,3-Dichlorobenzene	ND	0.5	ug/L	01/20/2000 09:22	
1,4-Dichlorobenzene	ND	0.5	ug/L	01/20/2000 09:22	
1,2-Dichlorobenzene	ND	0.5	ug/L	01/20/2000 09:22	
Trichlorotrifluoroethane	ND	2.0	ug/L	01/20/2000 09:22	
Chloromethane	ND	1.0	ug/L	01/20/2000 09:22	
Bromomethane	ND	1.0	ug/L	01/20/2000 09:22	
<b>Surrogate(s)</b>					
1-Chloro-2-fluorobenzene	81.5	50-150	%	01/20/2000 09:22	

Environmental Services (SDB)

To: Aqua Science Engineers, Inc.

Test Method: 8010

Attn: Ian T. Reed

Prep Method: 5030

## Batch QC Report

### Halogenated Volatile Organic Compounds

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2000/01/20-01.25
LCS: 2000/01/20-01.25-002	Extracted: 01/20/2000 10:19	Analyzed: 01/20/2000 10:19
LCSD: 2000/01/20-01.25-003	Extracted: 01/20/2000 11:16	Analyzed: 01/20/2000 11:16

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	19.1	18.8	20.0	20.0	95.5	94.0	1.6	50-140	20		
Trichloroethene	19.5	18.8	20.0	20.0	97.5	94.0	3.7	50-150	20		
Chlorobenzene	19.6	19.5	20.0	20.0	98.0	97.5	0.5	50-150	20		
<b>Surrogate(s)</b>											
1-Chloro-2-fluorobenzene	18.9	17.9	20	20	94.5	89.5		50-150			

Semi-volatile Organic Compounds

<b>Aqua Science Engineers, Inc.</b>	✉ 208 West El Pintado Road Danville, CA 94526
Attn: Ian T. Reed	Phone: (925) 820-9391 Fax: (925) 837-4853
Project #: 3406	Project: Jaber
Site: 1436 Grant Ave. San Lorenzo, CA	

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-2	Water	01/13/2000 11:40	2

Environmental Services (SDB)

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

Test Method: 8270A  
Prep Method: 3510/8270A

Semi-volatile Organic Compounds

Sample ID: <b>MW-2</b>	Lab Sample ID: <b>2000-01-0224-002</b>
Project: 3406 Jaber	Received: 01/14/2000 18:47
Site: 1436 Grant Ave. San Lorenzo, CA	Extracted: 01/19/2000 14:23
Sampled: 01/13/2000 11:40	QC-Batch: 2000/01/19-02.11
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Bis(2-chloroethyl)ether	ND	2.0	ug/L	1.00	01/20/2000 04:05	
2-Chlorophenol	ND	2.0	ug/L	1.00	01/20/2000 04:05	
1,3-Dichlorobenzene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
1,4-Dichlorobenzene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Benzyl alcohol	ND	5.0	ug/L	1.00	01/20/2000 04:05	
1,2-Dichlorobenzene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
2-Methylphenol	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Bis(2-chloroisopropyl) ether	ND	2.0	ug/L	1.00	01/20/2000 04:05	
4-Methylphenol	ND	2.0	ug/L	1.00	01/20/2000 04:05	
N-Nitroso-di-n-propylamine	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Hexachloroethane	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Nitrobenzene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Isophorone	ND	2.0	ug/L	1.00	01/20/2000 04:05	
2-Nitrophenol	ND	2.0	ug/L	1.00	01/20/2000 04:05	
2,4-Dimethylphenol	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Bis(2-chloroethoxy) methane	ND	5.0	ug/L	1.00	01/20/2000 04:05	
2,4-Dichlorophenol	ND	2.0	ug/L	1.00	01/20/2000 04:05	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Naphthalene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
4-Chloroaniline	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Hexachlorobutadiene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
4-Chloro-3-methylphenol	ND	5.0	ug/L	1.00	01/20/2000 04:05	
2-Methylnaphthalene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Hexachlorocyclopentadiene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
2,4,6-Trichlorophenol	ND	2.0	ug/L	1.00	01/20/2000 04:05	
2,4,5-Trichlorophenol	ND	2.0	ug/L	1.00	01/20/2000 04:05	
2-Chloronaphthalene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
2-Nitroaniline	ND	10	ug/L	1.00	01/20/2000 04:05	
Dimethyl phthalate	ND	5.0	ug/L	1.00	01/20/2000 04:05	
Acenaphthylene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
3-Nitroaniline	ND	10	ug/L	1.00	01/20/2000 04:05	
Acenaphthene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
2,4-Dinitrophenol	ND	10	ug/L	1.00	01/20/2000 04:05	

Environmental Services (SDB)

To: Aqua Science Engineers, Inc.

Test Method: 8270A

Attn.: Ian T. Reed

Prep Method: 3510/8270A

Semi-volatile Organic Compounds

Sample ID: <b>MW-2</b>	Lab Sample ID: <b>2000-01-0224-002</b>
Project: 3406 Jaber	Received: 01/14/2000 18:47
Site: 1436 Grant Ave. San Lorenzo, CA	Extracted: 01/19/2000 14:23
Sampled: 01/13/2000 11:40	QC-Batch: 2000/01/19-02.11
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
4-Nitrophenol	ND	10	ug/L	1.00	01/20/2000 04:05	
Dibenzofuran	ND	2.0	ug/L	1.00	01/20/2000 04:05	
2,4-Dinitrotoluene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
2,6-Dinitrotoluene	ND	5.0	ug/L	1.00	01/20/2000 04:05	
Diethyl phthalate	ND	5.0	ug/L	1.00	01/20/2000 04:05	
4-Chlorophenyl phenyl ether	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Fluorene	ND	5.0	ug/L	1.00	01/20/2000 04:05	
4-Nitroaniline	ND	10	ug/L	1.00	01/20/2000 04:05	
2-Methyl-4,6-dinitrophenol	ND	10	ug/L	1.00	01/20/2000 04:05	
N-Nitrosodiphenylamine	ND	2.0	ug/L	1.00	01/20/2000 04:05	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1.00	01/20/2000 04:05	
Hexachlorobenzene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Pentachlorophenol	ND	10	ug/L	1.00	01/20/2000 04:05	
Phenanthrene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Anthracene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Di-n-butyl phthalate	ND	5.0	ug/L	1.00	01/20/2000 04:05	
Fluoranthene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Pyrene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Butyl benzyl phthalate	ND	5.0	ug/L	1.00	01/20/2000 04:05	
3,3-Dichlorobenzidine	ND	5.0	ug/L	1.00	01/20/2000 04:05	
Benzo(a)anthracene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
bis(2-Ethylhexyl) phthalate	ND	5.0	ug/L	1.00	01/20/2000 04:05	
Chrysene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Di-n-octyl phthalate	ND	5.0	ug/L	1.00	01/20/2000 04:05	
Benzo(b)fluoranthene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Benzo(k)fluoranthene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Benzo(a)pyrene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Benzo(g,h,i)perylene	ND	2.0	ug/L	1.00	01/20/2000 04:05	
Benzoic acid	ND	10	ug/L	1.00	01/20/2000 04:05	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	81.0	35-114	%	1.00	01/20/2000 04:05	
2-Fluorobiphenyl	104.4	43-116	%	1.00	01/20/2000 04:05	

1220 Quarry Lane \* Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0224

To: Aqua Science Engineers, Inc.

Test Method: 8270A

Attn.: Ian T. Reed

Prep Method: 3510/8270A

## Semi-volatile Organic Compounds

Sample ID: MW-2	Lab Sample ID: 2000-01-0224-002
Project: 3406 Jaber	Received: 01/14/2000 18:47
Site: 1436 Grant Ave. San Lorenzo, CA	Extracted: 01/19/2000 14:23
Sampled: 01/13/2000 11:40	QC-Batch: 2000/01/19-02.11
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
<i>Surrogate(s)</i>						
p-Terphenyl-d14	123.6	33-141	%	1.00	01/20/2000 04:05	
Phenol-d5	33.8	10-110	%	1.00	01/20/2000 04:05	
2-Fluorophenol	54.5	25-100	%	1.00	01/20/2000 04:05	
2,4,6-Tribromophenol	95.0	10-123	%	1.00	01/20/2000 04:05	

1220 Quarry Lane \* Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

Environmental Services (SDB)

To: Aqua Science Engineers, Inc.

Test Method: 8270A

Attn.: Ian T. Reed

Prep Method: 3510/8270A

**Batch QC Report**  
Semi-volatile Organic Compounds

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/01/19-02.11</b>
MB: 2000/01/19-02.11-001		Date Extracted: 01/19/2000

Compound	Result	Rep. Limit	Units	Analyzed	Flag
Phenol	ND	2.0	ug/L	01/19/2000 22:59	
Bis(2-chloroethyl)ether	ND	2.0	ug/L	01/19/2000 22:59	
2-Chlorophenol	ND	2.0	ug/L	01/19/2000 22:59	
1,3-Dichlorobenzene	ND	2.0	ug/L	01/19/2000 22:59	
1,4-Dichlorobenzene	ND	2.0	ug/L	01/19/2000 22:59	
Benzyl alcohol	ND	5.0	ug/L	01/19/2000 22:59	
1,2-Dichlorobenzene	ND	2.0	ug/L	01/19/2000 22:59	
2-Methylphenol	ND	2.0	ug/L	01/19/2000 22:59	
Bis(2-chloroisopropyl) ether	ND	2.0	ug/L	01/19/2000 22:59	
4-Methylphenol	ND	2.0	ug/L	01/19/2000 22:59	
N-Nitroso-di-n-propylamine	ND	2.0	ug/L	01/19/2000 22:59	
Hexachloroethane	ND	2.0	ug/L	01/19/2000 22:59	
Nitrobenzene	ND	2.0	ug/L	01/19/2000 22:59	
Isophorone	ND	2.0	ug/L	01/19/2000 22:59	
2-Nitrophenol	ND	2.0	ug/L	01/19/2000 22:59	
2,4-Dimethylphenol	ND	2.0	ug/L	01/19/2000 22:59	
Bis(2-chloroethoxy) methane	ND	5.0	ug/L	01/19/2000 22:59	
2,4-Dichlorophenol	ND	2.0	ug/L	01/19/2000 22:59	
1,2,4-Trichlorobenzene	ND	2.0	ug/L	01/19/2000 22:59	
Naphthalene	ND	2.0	ug/L	01/19/2000 22:59	
4-Chloroaniline	ND	2.0	ug/L	01/19/2000 22:59	
Hexachlorobutadiene	ND	2.0	ug/L	01/19/2000 22:59	
4-Chloro-3-methylphenol	ND	5.0	ug/L	01/19/2000 22:59	
2-Methylnaphthalene	ND	2.0	ug/L	01/19/2000 22:59	
Hexachlorocyclopentadiene	ND	2.0	ug/L	01/19/2000 22:59	
2,4,6-Trichlorophenol	ND	2.0	ug/L	01/19/2000 22:59	
2,4,5-Trichlorophenol	ND	2.0	ug/L	01/19/2000 22:59	
2-Chloronaphthalene	ND	2.0	ug/L	01/19/2000 22:59	
2-Nitroaniline	ND	10	ug/L	01/19/2000 22:59	
Dimethyl phthalate	ND	5.0	ug/L	01/19/2000 22:59	
Acenaphthylene	ND	2.0	ug/L	01/19/2000 22:59	
3-Nitroaniline	ND	10	ug/L	01/19/2000 22:59	
Acenaphthene	ND	2.0	ug/L	01/19/2000 22:59	
2,4-Dinitrophenol	ND	10	ug/L	01/19/2000 22:59	
4-Nitrophenol	ND	10	ug/L	01/19/2000 22:59	
Dibenzofuran	ND	2.0	ug/L	01/19/2000 22:59	
2,4-Dinitrotoluene	ND	2.0	ug/L	01/19/2000 22:59	

1220 Quamy Lane \* Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

Environmental Services (SDB)

To: Aqua Science Engineers, Inc.

Test Method: 8270A

Attn.: Ian T. Reed

Prep Method: 3510/8270A

**Batch QC Report**  
Semi-volatile Organic Compounds

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/01/19-02.11</b>
MB: 2000/01/19-02.11-001		Date Extracted: 01/19/2000

Compound	Result	Rep.Limit	Units	Analyzed	Flag
2,6-Dinitrotoluene	ND	5.0	ug/L	01/19/2000 22:59	
Diethyl phthalate	ND	5.0	ug/L	01/19/2000 22:59	
4-Chlorophenyl phenyl ether	ND	2.0	ug/L	01/19/2000 22:59	
Fluorene	ND	5.0	ug/L	01/19/2000 22:59	
4-Nitroaniline	ND	10	ug/L	01/19/2000 22:59	
2-Methyl-4,6-dinitrophenol	ND	10	ug/L	01/19/2000 22:59	
N-Nitrosodiphenylamine	ND	2.0	ug/L	01/19/2000 22:59	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	01/19/2000 22:59	
Hexachlorobenzene	ND	2.0	ug/L	01/19/2000 22:59	
Pentachlorophenol	ND	10	ug/L	01/19/2000 22:59	
Phenanthrene	ND	2.0	ug/L	01/19/2000 22:59	
Anthracene	ND	2.0	ug/L	01/19/2000 22:59	
Di-n-butyl phthalate	ND	5.0	ug/L	01/19/2000 22:59	
Fluoranthene	ND	2.0	ug/L	01/19/2000 22:59	
Pyrene	ND	2.0	ug/L	01/19/2000 22:59	
Butyl benzyl phthalate	ND	5.0	ug/L	01/19/2000 22:59	
3,3-Dichlorobenzidine	ND	5.0	ug/L	01/19/2000 22:59	
Benzo(a)anthracene	ND	2.0	ug/L	01/19/2000 22:59	
bis(2-Ethylhexyl) phthalate	ND	5.0	ug/L	01/19/2000 22:59	
Chrysene	ND	2.0	ug/L	01/19/2000 22:59	
Di-n-octyl phthalate	ND	5.0	ug/L	01/19/2000 22:59	
Benzo(b)fluoranthene	ND	2.0	ug/L	01/19/2000 22:59	
Benzo(k)fluoranthene	ND	2.0	ug/L	01/19/2000 22:59	
Benzo(a)pyrene	ND	2.0	ug/L	01/19/2000 22:59	
Indeno(1,2,3-c,d)pyrene	ND	2.0	ug/L	01/19/2000 22:59	
Dibenzo(a,h)anthracene	ND	2.0	ug/L	01/19/2000 22:59	
Benzo(g,h,i)perylene	ND	2.0	ug/L	01/19/2000 22:59	
Benzoic acid	ND	10	ug/L	01/19/2000 22:59	
<b>Surrogate(s)</b>					
Nitrobenzene-d5	81.2	35-114	%	01/19/2000 22:59	
2-Fluorobiphenyl	104.8	43-116	%	01/19/2000 22:59	
p-Terphenyl-d14	120.0	33-141	%	01/19/2000 22:59	
Phenol-d5	35.0	10-110	%	01/19/2000 22:59	
2-Fluorophenol	56.2	25-100	%	01/19/2000 22:59	
2,4,6-Tribromophenol	85.8	10-123	%	01/19/2000 22:59	



Environmental Services (SDB)

To: Aqua Science Engineers, Inc.

Test Method: 8270A

Attn: Ian T. Reed

Prep Method: 3510/8270A

## Batch QC Report

### Semi-volatile Organic Compounds

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2000/01/19-02.11	
LCS:	2000/01/19-02.11-002	Extracted:	01/19/2000	Analyzed:	01/19/2000 23:43
LCSD:	2000/01/19-02.11-003	Extracted:	01/01/2000	Analyzed:	01/20/2000 00:28

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD
Phenol	18.8	19.5	60.0	60.0	31.3	32.5	3.8	12-89	35		
2-Chlorophenol	43.9	45.8	60.0	60.0	73.2	76.3	4.1	23-134	25		
1,4-Dichlorobenzene	26.4	27.4	30.0	30.0	88.0	91.3	3.7	36-97	30		
N-Nitroso-di-n-propylamin	21.8	22.9	30.0	30.0	72.7	76.3	4.8	10-130	34		
1,2,4-Trichlorobenzene	22.3	22.7	30.0	30.0	74.3	75.7	1.9	44-142	35		
4-Chloro-3-methylphenol	44.2	45.6	60.0	60.0	73.7	76.0	3.1	22-147	31		
Acenaphthene	29.4	30.6	30.0	30.0	98.0	102.0	4.0	56-118	30		
4-Nitrophenol	12.7	12.8	60.0	60.0	21.2	21.3	0.5	1-51	35		
2,4-Dinitrotoluene	21.7	22.7	30.0	30.0	72.3	75.7	4.6	39-139	35		
Pentachlorophenol	37.3	35.0	60.0	60.0	62.2	58.3	6.5	45-125	35		
Pyrene	31.7	31.3	30.0	30.0	105.7	104.3	1.3	52-115	35		
<b>Surrogate(s)</b>											
Nitrobenzene-d5	18.9	19.2	25	25	75.6	76.8		35-114			
2-Fluorobiphenyl	23.7	24.4	25	25	94.8	97.6		43-116			
p-Terphenyl-d14	27.4	26.7	25	25	109.6	106.8		33-141			
Phenol-d5	16.3	16.8	50	50	32.6	33.6		10-110			
2-Fluorophenol	26.0	26.1	50	50	52.0	52.2		25-100			
2,4,6-Tribromophenol	44.7	44.8	50	50	89.4	89.6		10-123			

Diesel

<b>Aqua Science Engineers, Inc.</b>	✉ 208 West El Pintado Road Danville, CA 94526
Attn: Ian T. Reed	Phone: (925) 820-9391 Fax: (925) 837-4853
Project #: 3406	Project: Jaber
Site: 1436 Grant Ave. San Lorenzo, CA	

### Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	01/13/2000 11:45	1
MW-3	Water	01/13/2000 12:15	3

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0224

To: Aqua Science Engineers, Inc.

Test Method: 8015m

Attn.: Ian T. Reed

Prep Method: 3510/8015M

Diesel

Sample ID:	MW-1	Lab Sample ID:	2000-01-0224-001
Project:	3406 Jaber	Received:	01/14/2000 18:47
Site:	1436 Grant Ave. San Lorenzo, CA	Extracted:	01/19/2000 08:00
Sampled:	01/13/2000 11:45	QC-Batch:	2000/01/19-01.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	01/19/2000 17:07	
<i>Surrogate(s)</i> o-Terphenyl	94.4	60-130	%	1.00	01/19/2000 17:07	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0224

To: Aqua Science Engineers, Inc.

Test Method: 8015m

Attn.: Ian T. Reed

Prep Method: 3510/8015M

Diesel

Sample ID:	MW-3	Lab Sample ID:	2000-01-0224-003
Project:	3406 Jaber	Received:	01/14/2000 18:47
Site:	1436 Grant Ave. San Lorenzo, CA	Extracted:	01/19/2000 08:00
Sampled:	01/13/2000 12:15	QC-Batch:	2000/01/19-01.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	210	51	ug/L	1.02	01/19/2000 18:20	edr
Surrogate(s) o-Terphenyl	100.1	60-130	%	1.00	01/19/2000 18:20	

1220 Quarry Lane \* Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0224

To: Aqua Science Engineers, Inc.

Test Method: 8015m

Attn.: Ian T. Reed

Prep Method: 3510/8015M

## Batch QC Report

Diesel

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/01/19-01.10</b>
MB: 2000/01/19-01.10-001		Date Extracted: 01/19/2000 09:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	01/19/2000 22:37	
<i>Surrogate(s)</i> o-Terphenyl	95.5	60-130	%	01/19/2000 22:37	

Environmental Services (SDB)

To: Aqua Science Engineers, Inc.

Test Method: 8015m

Attn: Ian T. Reed

Prep Method: 3510/8015M

## Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2000/01/19-01.10
LCS: 2000/01/19-01.10-002	Extracted: 01/19/2000 09:00	Analyzed: 01/20/2000 09:01
LCSD: 2000/01/19-01.10-003	Extracted: 01/19/2000 09:00	Analyzed: 01/20/2000 09:46

Compound	Conc. [ ug/L ]		Exp.Conc. [ ug/L ]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Diesel	871	874	1250	1250	69.7	69.9	0.3	60-130	25		
<i>Surrogate(s)</i>											
o-Terphenyl	21.2	21.6	20.0	20.0	106.0	108.0		60-130			

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

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

## Legend & Notes

Diesel

### Analyte Flags

edr

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

Gas/BTEX and MTBE

<b>Aqua Science Engineers, Inc.</b>	✉ 208 West El Pintado Road Danville, CA 94526
Attn: Ian T. Reed	Phone: (925) 820-9391 Fax: (925) 837-4853
Project #: 3406	Project: Jaber
Site: 1436 Grant Ave. San Lorenzo, CA	

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	01/13/2000 11:45	1
MW-2	Water	01/13/2000 11:40	2
MW-3	Water	01/13/2000 12:15	3



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0224

To: Aqua Science Engineers, Inc.

Test Method: 8020  
8015M

Attn.: Ian T. Reed

Prep Method: 5030

## Gas/BTEX and MTBE

Sample ID: MW-1	Lab Sample ID: 2000-01-0224-001
Project: 3406 Jaber	Received: 01/14/2000 18:47
Site: 1436 Grant Ave. San Lorenzo, CA	Extracted: 01/24/2000 16:03
Sampled: 01/13/2000 11:45	QC-Batch: 2000/01/24-01.04
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1300	ug/L	25.00	01/24/2000 16:03	
Benzene	18	13	ug/L	25.00	01/24/2000 16:03	
Toluene	ND	13	ug/L	25.00	01/24/2000 16:03	
Ethyl benzene	ND	13	ug/L	25.00	01/24/2000 16:03	
Xylene(s)	ND	13	ug/L	25.00	01/24/2000 16:03	
MTBE	1700	130	ug/L	25.00	01/24/2000 16:03	
<i>Surrogate(s)</i>						
Trifluorotoluene	65.3	58-124	%	1.00	01/24/2000 16:03	
4-Bromofluorobenzene-FID	81.7	50-150	%	1.00	01/24/2000 16:03	

1220 Quarry Lane \* Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0224

To: Aqua Science Engineers, Inc.

Test Method: 8020  
8015M

Attn.: Ian T. Reed

Prep Method: 5030

## Gas/BTEX and MTBE

Sample ID: MW-2	Lab Sample ID: 2000-01-0224-002
Project: 3406 Jaber	Received: 01/14/2000 18:47
Site: 1436 Grant Ave. San Lorenzo, CA	Extracted: 01/24/2000 16:58
Sampled: 01/13/2000 11:40	QC-Batch: 2000/01/24-01.04
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/24/2000 16:58	
Benzene	ND	0.50	ug/L	1.00	01/24/2000 16:58	
Toluene	ND	0.50	ug/L	1.00	01/24/2000 16:58	
Ethyl benzene	ND	0.50	ug/L	1.00	01/24/2000 16:58	
Xylene(s)	ND	0.50	ug/L	1.00	01/24/2000 16:58	
MTBE	6.2	5.0	ug/L	1.00	01/24/2000 16:58	
<b>Surrogate(s)</b>						
Trifluorotoluene	69.5	58-124	%	1.00	01/24/2000 16:58	
4-Bromofluorobenzene-FID	82.0	50-150	%	1.00	01/24/2000 16:58	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0224

To: Aqua Science Engineers, Inc.

Test Method: 8020  
8015M

Attn.: Ian T. Reed

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-3	Lab Sample ID: 2000-01-0224-003
Project: 3406 Jaber	Received: 01/14/2000 18:47
Site: 1436 Grant Ave. San Lorenzo, CA	Extracted: 01/25/2000 15:23
Sampled: 01/13/2000 12:15	QC-Batch: 2000/01/24-01.04
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	740	250	ug/L	5.00	01/25/2000 15:23	
Benzene	110	2.5	ug/L	5.00	01/25/2000 15:23	
Toluene	4.8	2.5	ug/L	5.00	01/25/2000 15:23	
Ethyl benzene	35	2.5	ug/L	5.00	01/25/2000 15:23	
Xylene(s)	18	2.5	ug/L	5.00	01/25/2000 15:23	
MTBE	290	25	ug/L	5.00	01/25/2000 15:23	
<b>Surrogate(s)</b>						
Trifluorotoluene	83.3	58-124	%	1.00	01/25/2000 15:23	
4-Bromofluorobenzene-FID	86.4	50-150	%	1.00	01/25/2000 15:23	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0224

To: Aqua Science Engineers, Inc.

Test Method: 8020  
8015M

Attn.: Ian T. Reed

Prep Method: 5030

## Batch QC Report Gas/BTEX and MTBE

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/01/24-01.04</b>
MB: 2000/01/24-01.04-001		Date Extracted: 01/24/2000 09:18

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	01/24/2000 09:18	
Benzene	ND	0.5	ug/L	01/24/2000 09:18	
Toluene	ND	0.5	ug/L	01/24/2000 09:18	
Ethyl benzene	ND	0.5	ug/L	01/24/2000 09:18	
Xylene(s)	ND	0.5	ug/L	01/24/2000 09:18	
MTBE	ND	5.0	ug/L	01/24/2000 09:18	
<b>Surrogate(s)</b>					
Trifluorotoluene	92.8	58-124	%	01/24/2000 09:18	
4-Bromofluorobenzene-FID	93.0	50-150	%	01/24/2000 09:18	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0224

To: Aqua Science Engineers, Inc.

Test Method: 8020  
8015M

Attn: Ian T. Reed

Prep Method: 5030

## Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2000/01/24-01.04
LCS: 2000/01/24-01.04-002	Extracted: 01/24/2000 10:05	Analyzed: 01/24/2000 10:05
LCSD: 2000/01/24-01.04-003	Extracted: 01/24/2000 10:32	Analyzed: 01/24/2000 10:32

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	591	585	500	500	118.2	117.0	1.0	75-125	20		
Benzene	98.7	91.1	100.0	100.0	98.7	91.1	8.0	77-123	20		
Toluene	98.5	89.8	100.0	100.0	98.5	89.8	9.2	78-122	20		
Ethyl benzene	97.6	88.4	100.0	100.0	97.6	88.4	9.9	70-130	20		
Xylene(s)	290	265	300	300	96.7	88.3	9.1	75-125	20		
<b>Surrogate(s)</b>											
Trifluorotoluene	453	408	500	500	90.6	81.6		58-124			
4-Bromofluorobenzene-FI	468	458	500	500	93.6	91.6		50-150			

Total Oil & Grease

<b>Aqua Science Engineers, Inc.</b>	✉ 208 West El Pintado Road Danville, CA 94526
Attn: Ian T. Reed	Phone: (925) 820-9391 Fax: (925) 837-4853
Project #: 3406	Project: Jaber
Site: 1436 Grant Ave. San Lorenzo, CA	

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-2	Water	01/13/2000 11:40	2

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0224

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: 2000-01-0224-002
Project: 3406 Jaber	Received: 01/14/2000 18:47
Site: 1436 Grant Ave. San Lorenzo, CA	Extracted: 01/18/2000
Sampled: 01/13/2000 11:40	QC-Batch: 2000/01/18-01.23
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	1.0	mg/L	1.00	01/19/2000 08:00	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0224

To: Aqua Science Engineers, Inc.

Test Method: 5520 B

Attn.: Ian T. Reed

Prep Method: 5520 B

## Batch QC Report

Total Oil & Grease

Method Blank	Water	QC Batch # 2000/01/18-01.23
MB: 2000/01/18-01.23-001		Date Extracted: 01/18/2000

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Oil & Grease (total)	ND	1	mg/L	01/19/2000	



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0224

To: Aqua Science Engineers, Inc.

Test Method: 5520 B

Attn: Ian T. Reed

Prep Method: 5520 B

## Batch QC Report

### Total Oil & Grease

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2000/01/18-01.23
LCS: 2000/01/18-01.23-002	Extracted: 01/18/2000	Analyzed: 01/19/2000
LCSD: 2000/01/18-01.23-003	Extracted: 01/18/2000	Analyzed: 01/19/2000

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)	18.7	18.4	20.0	20.0	93.5	92.0	1.6	80-120	20		

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## Total Extractable Petroleum Hydrocarbons (TEPH)

**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 #: 3406

Project: Jaber

Site: 1436 Grant Ave.  
San Lorenzo, CA

### Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-2	Water	01/13/2000 11:40	2

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0224

To: Aqua Science Engineers, Inc.

Test Method: 8015m

Attn.: Ian T. Reed

Prep Method: 3510/8015M

## Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID: MW-2	Lab Sample ID: 2000-01-0224-002
Project: 3406 Jaber	Received: 01/14/2000 18:47
Site: 1436 Grant Ave. San Lorenzo, CA	Extracted: 01/19/2000 08:00
Sampled: 01/13/2000 11:40	QC-Batch: 2000/01/19-01.10
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	01/19/2000 17:43	
Motor Oil	ND	500	ug/L	1.00	01/19/2000 17:43	
<i>Surrogate(s)</i> o-Terphenyl	98.0	60-130	%	1.00	01/19/2000 17:43	

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# CHROMALAB, INC.

Submission #: 2000-01-0224

Environmental Services (SDB)

To: Aqua Science Engineers, Inc.

Test Method: 8015m

Attn.: Ian T. Reed

Prep Method: 3510/8015M

## Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/01/19-01.10</b>
MB: 2000/01/19-01.10-001		Date Extracted: 01/19/2000 09:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	01/19/2000 22:37	
Motor Oil	ND	500	ug/L	01/19/2000 22:37	
<i>Surrogate(s)</i> o-Terphenyl	95.5	60-130	%	01/19/2000 22:37	

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Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-01-0224

To: Aqua Science Engineers, Inc.

Test Method: 8015m

Attn: Ian T. Reed

Prep Method: 3510/8015M

## Batch QC Report

### Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2000/01/19-01.10
LCS: 2000/01/19-01.10-002	Extracted: 01/19/2000 09:00	Analyzed: 01/20/2000 09:01
LCSD: 2000/01/19-01.10-003	Extracted: 01/19/2000 09:00	Analyzed: 01/20/2000 09:46

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD
Diesel	871	874	1250	1250	69.7	69.9	0.3	60-130	25		
<i>Surrogate(s)</i>											
o-Terphenyl	21.2	21.6	20.0	20.0	106.0	108.0		60-130			

2000-01-0224

49982

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) (PHONE NO.)

*Lat Reed* (925) 820-9391

PROJECT NAME Jaber

JOB NO. 3466

ADDRESS 1436 Grant Ave, San Lorenzo

DATE 1/14/00

## ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

5-day TAT

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)	LIFT 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)	TPH-Mo / TPH-D	COMPOSITE
MW-1	1/13/00	1145	water	5	X		X												X	
MW-2	1/13/00	1140	water	5	X		X	X			X	X								
MW-3	1/13/00	1215	water	5	X		X													

RELINQUISHED BY:  
*Lat Reed*  
(signature) (time)

RECEIVED BY:  
*B Morse*  
(signature) (time) 1:02

RELINQUISHED BY:  
*B Morse*  
(signature) (time)

RECEIVED BY LABORATORY:  
*D. Harrington*  
(signature) (time)

COMMENTS:  
5. day TAT  
5.3°C

*Lat Reed* 1/14/00  
(printed name) (date)

*B Morse* 1/14/00  
(printed name) (date) 1:14

*B Morse* 1/14/00  
(printed name) (date)

*D. Harrington* 1847  
(printed name) (date)

Company- ASE

Company- *Chromalab*

Company- *Chromalab*

Company- Chromalab 1/14/00