



October 6, 2000

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QUARTERLY GROUNDWATER MONITORING REPORT  
AUGUST 2000 GROUNDWATER SAMPLING  
ASE JOB NO. 3190

at the  
Former Peerless Stages Bus Property  
2021 Brush Street  
Oakland, California

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

## 1.0 INTRODUCTION

The following is a report detailing the results of the August 2000 quarterly groundwater sampling at the former Peerless Stages bus company site located at 2021 Brush Street in Oakland, California (*Figure 1*).

## 2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On August 23, 2000, ASE associate geologist Ian Reed measured the depth to water in all four site groundwater monitoring wells using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen. No free-floating hydrocarbons or sheen were observed in any site monitoring well. Groundwater elevation data is presented as *Table One*.

A groundwater potentiometric surface map is presented as *Figure 2*. The groundwater flow direction is to the northwest with an approximate gradient of 0.004 feet/foot.

## 3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

Prior to sampling, each monitoring well was purged of four well casing volumes of groundwater using dedicated polyethylene bailers. The parameters pH, temperature and conductivity were monitored during the well purging. Samples were not collected until these parameters stabilized. Groundwater samples were collected from each well using dedicated polyethylene bailers.

The samples to be analyzed for volatile compounds were decanted from the bailers into 40-ml volatile organic analysis (VOA) vials, pre-preserved with hydrochloric acid and capped without headspace. The samples to be analyzed for total petroleum hydrocarbons as diesel (TPH-D) were contained in 1-liter amber glass containers. All of the samples were labeled and placed in a cooler with wet ice for transport to Chromalab, Inc. of Pleasanton, California (ELAP #1094) under appropriate chain-of-custody documentation. Well sampling field logs are presented in *Appendix A*.

The well purge water was placed in 55-gallon steel drums, labeled, and left on-site for temporary storage.

The groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 5030/8015M, TPH-D by modified EPA Method 3510/8015M, benzene, toluene, ethylbenzene and total xylenes (collectively known as BTEX) by EPA Method 8020 and methyl tertiary-butyl ether (MTBE) by EPA Method 8020. The groundwater samples collected from monitoring well MW-2 were also analyzed for volatile organic compounds (VOCs) by EPA Method 8260. The analytical results for this and previous sampling periods are presented in *Table Two*. The certified analytical report and chain-of-custody documentation are included as *Appendix B*.

#### **4.0 CONCLUSIONS**

The groundwater samples collected from monitoring well MW-2 contained 1,300 parts per billion (ppb) TPH-G, 600 ppb TPH-D, and 2,000 ppb MTBE. The groundwater samples collected from monitoring well MW-4 contained 73 ppb TPH-D. No other compounds were detected above laboratory reporting limits in any of the groundwater samples collected.

The MTBE concentration in groundwater samples collected from monitoring well MW-2 exceeded the California Department of Health Services (DHS) maximum contaminant level (MCL) for drinking water.

#### **5.0 RECOMMENDATIONS**

ASE recommends the subject site remain on a quarterly sampling schedule. The next sampling is scheduled for November 2000.

As requested by the Alameda County Health Care Services Agency (ACHCSA) in a letter dated May 8, 2000, ASE is preparing a sensitive receptor survey consisting of an area well survey and water/conduit survey.

#### **6.0 REPORT LIMITATIONS**

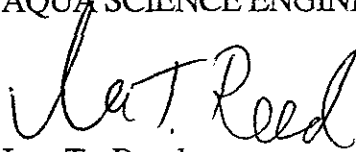
The results presented in this report represent the conditions at the time of the groundwater sampling, at the specific locations where the groundwater samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from sources other than the former underground storage tanks and associated plumbing at the site, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report

was prepared under the direction of independent CAL-EPA certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

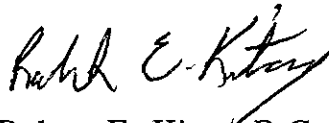
Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this site and trust that this report meets your needs. Please feel free to call us at (925) 820-9391, if you have any questions or comments.

Respectfully submitted,

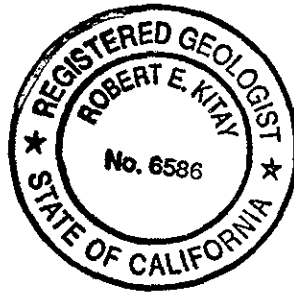
AQUA SCIENCE ENGINEERS, INC.



Ian T. Reed  
Associate Geologist



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



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

cc: Mr. Alex Gaeta, Responsible Party  
Mr. Gardner Kent, Property Owner  
Ms. Eva Chu, ACHSA  
Mr. Chuck Headlee, RWQCB, San Francisco Bay Region

# TABLES

TABLE ONE  
 Summary of Groundwater Well Survey Data  
 Peerless Stages Property, Oakland, California

WELL ID	Date of Measurement	Top of Casing Elevation (relative to project datum)	Depth to Water (feet)	Groundwater Elevation (project/datum)
MW-1	8/26/99	19.66	16.44	3.22
	11/11/99		16.56	3.1
	2/16/00		13.02	6.64
	5/17/00		14.88	4.78
	<b>8/23/00</b>		<b>15.86</b>	<b>3.80</b>
MW-2	8/26/99	20.00	16.88	3.12
	11/11/99		16.92	3.08
	2/16/00		13.76	6.24
	5/17/00		15.32	4.68
	<b>8/23/00</b>		<b>15.96</b>	<b>4.04</b>
MW-3	8/26/99	18.91	15.94	2.97
	11/11/99		15.98	2.93
	2/16/00		12.70	6.21
	5/17/00		14.44	4.47
	<b>8/23/00</b>		<b>15.33</b>	<b>3.58</b>
MW-4	8/26/99	19.43	16.48	2.95
	11/11/99		16.50	2.93
	2/16/00		13.19	6.24
	5/17/00		14.95	4.48
	<b>8/23/00</b>		<b>15.97</b>	<b>3.46</b>

TABLE TWO

Summary of Chemical Analysis for Groundwater Samples  
Peerless Stages Property, Oakland, California  
All results are in parts per billion (ppb)

SAMPLE ID	DATE SAMPLED	TPH-G	TPH-D	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	MTBE	PNA <sub>s</sub>	VOC <sub>s</sub>
MW-1	8/26/99	81	< 50	3.5	7.9	3.2	15	< 5.0	NA	NA
	11/11/99	< 50	110	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	NA	NA
	2/16/00	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	NA	NA
	5/17/00	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	NA	NA
	8/23/00	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	NA	NA
MW-2	8/26/99	8,600	1,200*	< 25	< 25	< 25	< 25	14,000	0.057 - < 0.2	NA
	11/11/99	710	2,300*	< 0.5	< 0.5	< 0.5	< 0.5	6,200	NA	NA
	2/16/00	< 50	1,500*	< 0.5	< 0.5	< 0.5	< 0.5	3,800	NA	< 10 - < 1,000
	5/17/00	58	1,400*	< 0.5	< 0.5	< 0.5	< 0.5	5,800	NA	NA
	8/23/00	1,300**	600*	< 0.5	< 0.5	< 0.5	< 0.5	2,000	NA	< 0.5 - < 50
MW-3	8/26/99	< 50	< 63	2.5	3	0.87	4	< 5.0	NA	NA
	11/11/99	< 50	< 56	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	NA	NA
	2/16/00	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	NA	NA
	5/17/00	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	NA	NA
	8/23/00	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	NA	NA
MW-4	8/26/99	< 50	420*	< 0.5	< 0.5	0.88	3.6	< 5.0	NA	NA
	11/11/99	< 50	120*	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	NA	NA
	2/16/00	< 50	76*	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	NA	NA
	5/17/00	120**	130*	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	NA	NA
	8/23/00	< 50	73*	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	NA	NA
DHS MCL		NE	NE	1	150	700	1,750	13	Varies	Varies

Notes:

Non-Detectable concentrations are noted by a less than symbol (<) followed by the laboratory reporting limit

NE = DHS MCL not established

PNA<sub>s</sub> = Polynuclear Aromatic Hydrocarbons

VOC<sub>s</sub> = Volatile Organic Compounds

DHS MCL = Department of Health Services Maximum Contaminant Levels for drinking water

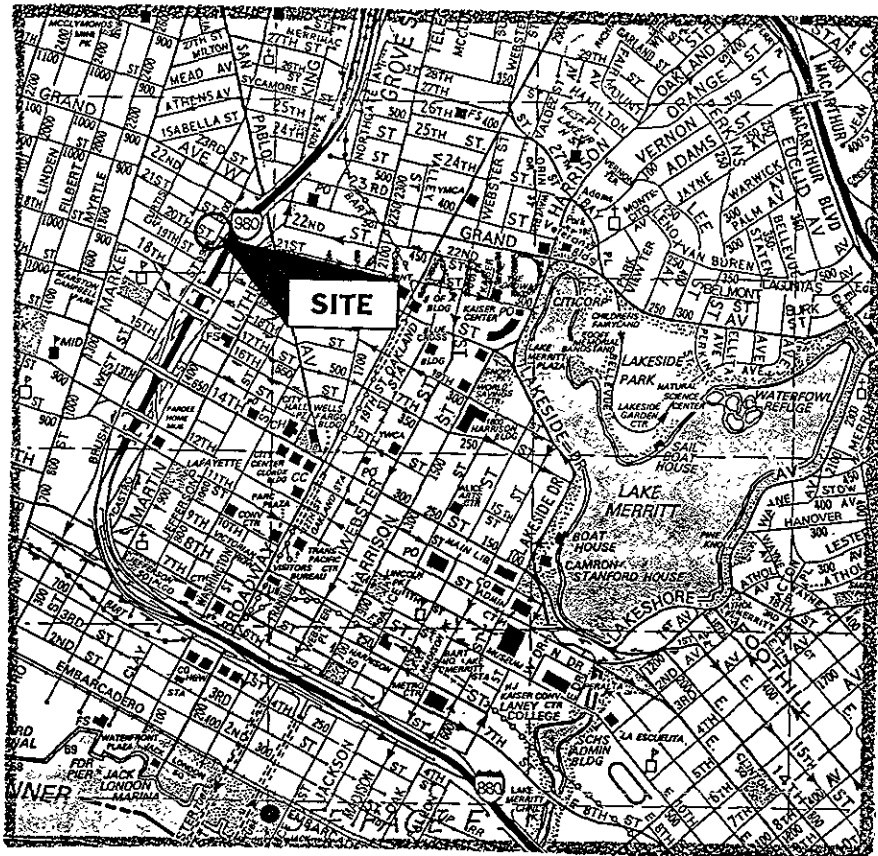
NA = Sample was not analyzed

\* = Hydrocarbons do not match the laboratory diesel standard

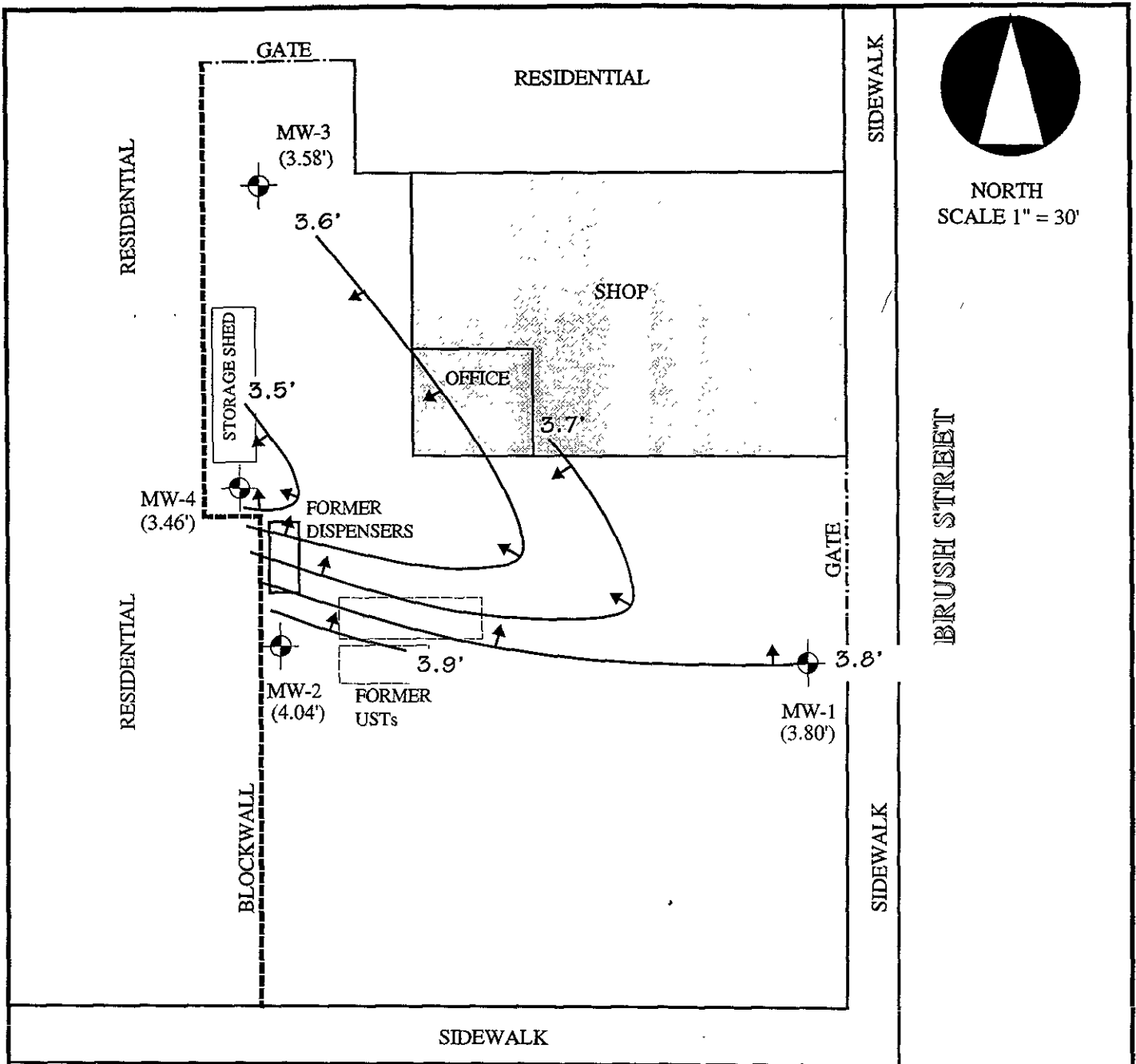
\*\* = Hydrocarbons do not match the laboratory gasoline standard

## FIGURES








SITE LOCATION MAP	
Former Peerless Stages, Inc. Property 2021 Brush Street Oakland, California	
Aqua Science Engineers	Figure 1



20th STREET

LEGEND	
MW-4 	MONITORING WELL
(3.46')	GROUNDWATER ELEVATION RELATIVE TO PROJECT DATUM
3.9' 	GROUNDWATER ELEVATION CONTOUR
	FORMER UST LOCATION

GROUNDWATER ELEVATION CONTOUR MAP 8/23/00	
Former Peerless Stages, Inc. Property 2021 Brush Street Oakland, California	
AQUA SCIENCE ENGINEERS	Figure 8

# **APPENDIX A**

## Well Sampling Field Logs



# WELL SAMPLING FIELD LOG

Project Name and Address: Former Peerkiss Stages  
 Job #: 3190 Date of sampling: 8/23/00  
 Well Name: MW-1 Sampled by: ITR  
 Total depth of well (feet): 27.0' 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): 11.14  
 Number of gallons per well casing volume (gallons): 1.4  
 Number of well casing volumes to be removed: 4  
 Req'd volume of groundwater to be purged before sampling (gallons): 7.6  
 Equipment used to purge the well: ded. bailer  
 Time Evacuation Began: 0745 Time Evacuation Finished: 0755  
 Approximate volume of groundwater purged: 7.6  
 Did the well go dry?: No After how many gallons: —  
 Time samples were collected: 0800  
 Depth to water at time of sampling: 15.93  
 Percent recovery at time of sampling: 99%  
 Samples collected with: ded. bailer  
 Sample color: clear / brown Odor: none  
 Description of sediment in sample: f. silt & sand

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>71.3</u>	<u>5.31</u>	<u>830</u>
<u>2</u>	<u>71.4</u>	<u>5.30</u>	<u>820</u>
<u>3</u>	<u>71.6</u>	<u>5.32</u>	<u>820</u>
<u>4</u>	<u>71.8</u>	<u>5.31</u>	<u>820</u>

## SAMPLES COLLECTED

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



## WELL SAMPLING FIELD LOG

Project Name and Address: Former Peerless Stages  
 Job #: 3190 Date of sampling: 6/23/00  
 Well Name: MW-2 Sampled by: MTZ  
 Total depth of well (feet): 30.0' Well diameter (inches): 2"  
 Depth to water before sampling (feet): 15.96  
 Thickness of floating product if any: —  
 Depth of well casing in water (feet): 14.04  
 Number of gallons per well casing volume (gallons): 2.4  
 Number of well casing volumes to be removed: 4  
 Req'd volume of groundwater to be purged before sampling (gallons): 9.6  
 Equipment used to purge the well: ded. bailer  
 Time Evacuation Began: 0840 Time Evacuation Finished: 0855  
 Approximate volume of groundwater purged: 9.6  
 Did the well go dry?: NO After how many gallons: —  
 Time samples were collected: 0910  
 Depth to water at time of sampling: 16.33  
 Percent recovery at time of sampling: 99 1/2  
 Samples collected with: ded. bailer  
 Sample color: clear Odor: none  
 Description of sediment in sample: F. silt

### CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>70.9</u>	<u>6.31</u>	<u>530</u>
<u>2</u>	<u>70.1</u>	<u>6.29</u>	<u>520</u>
<u>3</u>	<u>70.1</u>	<u>6.29</u>	<u>520</u>
<u>4</u>	<u>70.2</u>	<u>6.29</u>	<u>520</u>

### SAMPLES COLLECTED

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



# WELL SAMPLING FIELD LOG

Project Name and Address: Former Peerless Stages  
 Job #: 3190 Date of sampling: 8/25/00  
 Well Name: MW-3 Sampled by: ITK  
 Total depth of well (feet): 29.60 Well diameter (inches): 2"  
 Depth to water before sampling (feet): 15.33'  
 Thickness of floating product if any: —  
 Depth of well casing in water (feet): 14.27  
 Number of gallons per well casing volume (gallons): 2.4  
 Number of well casing volumes to be removed: 4  
 Req'd volume of groundwater to be purged before sampling (gallons): 9.6  
 Equipment used to purge the well: dea. bailer  
 Time Evacuation Began: 0930 Time Evacuation Finished: 0955  
 Approximate volume of groundwater purged: 10  
 Did the well go dry?: no After how many gallons: —  
 Time samples were collected: 1000  
 Depth to water at time of sampling: 15.64  
 Percent recovery at time of sampling: 98%  
 Samples collected with: dea. bailer  
 Sample color: clear / brown Odor: none  
 Description of sediment in sample: light sand

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>73.0</u>	<u>7.12</u>	<u>800</u>
<u>2</u>	<u>73.1</u>	<u>7.12</u>	<u>800</u>
<u>3</u>	<u>73.1</u>	<u>7.12</u>	<u>800</u>
<u>4</u>	<u>73.2</u>	<u>7.13</u>	<u>810</u>

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-3</u>	<u>3</u>	<u>110ml Vial</u>	<u>✓</u>	<u>✓</u>	
	<u>2</u>	<u>1- 1 liter Amber</u>		<u>✓</u>	



# WELL SAMPLING FIELD LOG

Project Name and Address: Former Perdue Stages  
 Job #: 3140 Date of sampling: 8/23/00  
 Well Name: MW-4 Sampled by: ITR  
 Total depth of well (feet): 29.64 Well diameter (inches): 2"  
 Depth to water before sampling (feet): 15.97  
 Thickness of floating product if any: None  
 Depth of well casing in water (feet): 13.67  
 Number of gallons per well casing volume (gallons): 7.3  
 Number of well casing volumes to be removed: 4  
 Req'd volume of groundwater to be purged before sampling (gallons): 9.2  
 Equipment used to purge the well: ded. bailer  
 Time Evacuation Began: 1030 Time Evacuation Finished: 1050  
 Approximate volume of groundwater purged: 9.5  
 Did the well go dry?: No After how many gallons: —  
 Time samples were collected: 1100  
 Depth to water at time of sampling: 16.04  
 Percent recovery at time of sampling: 92%  
 Samples collected with: ded. bailer  
 Sample color: clear/brn Odor: none  
 Description of sediment in sample: fine silt and sand

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>71.0</u>	<u>5.91</u>	<u>610</u>
<u>2</u>	<u>71.0</u>	<u>5.90</u>	<u>610</u>
<u>3</u>	<u>71.2</u>	<u>5.91</u>	<u>410</u>
<u>4</u>	<u>71.0</u>	<u>5.90</u>	<u>610</u>

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-4</u>	<u>3</u>	<u>400ml VOA</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<u>2</u>	<u>1-liter Amber</u>			

## **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: 3190  
Peerless Stages

Dear Mr. Reed,

Attached is our report for your samples received on Wednesday August 23, 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 October 7, 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

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

## 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 #: 3190

Project: Peerless Stages

## Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-2	Water	08/23/2000 09:10	2

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

To: Aqua Science Engineers, Inc.

Test Method: 8260A

Attn.: Ian T. Reed

Prep Method: 5030

## Volatile Organic Compounds

Sample ID: MW-2	Lab Sample ID: 2000-08-0444-002
Project: 3190 Peerless Stages	Received: 08/23/2000 10:30
Sampled: 08/23/2000 09:10	Extracted: 08/23/2000 16:11
Matrix: Water	QC-Batch: 2000/08/23-01.39

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Acetone	ND	50	ug/L	1.00	08/23/2000 16:11	
Benzene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Bromoform	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Bromomethane	ND	1.0	ug/L	1.00	08/23/2000 16:11	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Chlorobenzene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Chloroethane	ND	1.0	ug/L	1.00	08/23/2000 16:11	
2-Butanone(MEK)	ND	50	ug/L	1.00	08/23/2000 16:11	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Chloroform	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Chloromethane	ND	1.0	ug/L	1.00	08/23/2000 16:11	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1.00	08/23/2000 16:11	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Dibromomethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Ethylbenzene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
2-Hexanone	ND	50	ug/L	1.00	08/23/2000 16:11	
Methylene chloride	ND	5.0	ug/L	1.00	08/23/2000 16:11	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	08/23/2000 16:11	
Naphthalene	ND	1.0	ug/L	1.00	08/23/2000 16:11	
Styrene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	

1220 Quarry Lane \* Pleasanton, CA 94566-4756

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

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

To: Aqua Science Engineers, Inc.

Test Method: 8260A

Attn.: Ian T. Reed

Prep Method: 5030

## Volatile Organic Compounds

Sample ID: MW-2	Lab Sample ID: 2000-08-0444-002
Project: 3190 Peerless Stages	Received: / 08/23/2000 10:30
Sampled: 08/23/2000 09:10	Extracted: 08/23/2000 16:11
Matrix: Water	QC-Batch: 2000/08/23-01.39

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Acetone	ND	50	ug/L	1.00	08/23/2000 16:11	
Benzene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Bromoform	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Bromomethane	ND	1.0	ug/L	1.00	08/23/2000 16:11	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Chlorobenzene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Chloroethane	ND	1.0	ug/L	1.00	08/23/2000 16:11	
2-Butanone(MEK)	ND	50	ug/L	1.00	08/23/2000 16:11	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Chloroform	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Chloromethane	ND	1.0	ug/L	1.00	08/23/2000 16:11	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1.00	08/23/2000 16:11	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Dibromomethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Ethylbenzene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
2-Hexanone	ND	50	ug/L	1.00	08/23/2000 16:11	
Methylene chloride	ND	5.0	ug/L	1.00	08/23/2000 16:11	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	08/23/2000 16:11	
Naphthalene	ND	1.0	ug/L	1.00	08/23/2000 16:11	
Styrene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

To: Aqua Science Engineers, Inc.

Test Method: 8260A

Attn.: Ian T. Reed

Prep Method: 5030

## Batch QC Report Volatile Organic Compounds

Method Blank	Water	QC Batch # 2000/08/23-01.39
MB: 2000/08/23-01.39-001		Date Extracted: 08/23/2000 13:46

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Acetone	ND	50	ug/L	08/23/2000 13:46	
Benzene	ND	0.5	ug/L	08/23/2000 13:46	
Bromodichloromethane	ND	0.5	ug/L	08/23/2000 13:46	
Bromoform	ND	0.5	ug/L	08/23/2000 13:46	
Bromomethane	ND	1.0	ug/L	08/23/2000 13:46	
Carbon tetrachloride	ND	0.5	ug/L	08/23/2000 13:46	
Chlorobenzene	ND	0.5	ug/L	08/23/2000 13:46	
Chloroethane	ND	1.0	ug/L	08/23/2000 13:46	
2-Butanone(MEK)	ND	20	ug/L	08/23/2000 13:46	
2-Chloroethylvinyl ether	ND	0.5	ug/L	08/23/2000 13:46	
Chloroform	ND	0.5	ug/L	08/23/2000 13:46	
Chloromethane	ND	1.0	ug/L	08/23/2000 13:46	
Dibromochloromethane	ND	0.5	ug/L	08/23/2000 13:46	
1,2-Dichlorobenzene	ND	0.5	ug/L	08/23/2000 13:46	
1,3-Dichlorobenzene	ND	0.5	ug/L	08/23/2000 13:46	
1,4-Dichlorobenzene	ND	0.5	ug/L	08/23/2000 13:46	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	08/23/2000 13:46	
1,2-Dibromoethane	ND	0.5	ug/L	08/23/2000 13:46	
Dibromomethane	ND	0.5	ug/L	08/23/2000 13:46	
Dichlorodifluoromethane	ND	0.5	ug/L	08/23/2000 13:46	
1,1-Dichloroethane	ND	0.5	ug/L	08/23/2000 13:46	
1,2-Dichloroethane	ND	0.5	ug/L	08/23/2000 13:46	
1,1-Dichloroethene	ND	0.5	ug/L	08/23/2000 13:46	
cis-1,2-Dichloroethene	ND	0.5	ug/L	08/23/2000 13:46	
trans-1,2-Dichloroethene	ND	0.5	ug/L	08/23/2000 13:46	
1,2-Dichloropropane	ND	0.5	ug/L	08/23/2000 13:46	
cis-1,3-Dichloropropene	ND	0.5	ug/L	08/23/2000 13:46	
trans-1,3-Dichloropropene	ND	0.5	ug/L	08/23/2000 13:46	
Ethylbenzene	ND	0.5	ug/L	08/23/2000 13:46	
2-Hexanone	ND	50	ug/L	08/23/2000 13:46	
Methylene chloride	ND	5.0	ug/L	08/23/2000 13:46	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	08/23/2000 13:46	
Naphthalene	ND	1.0	ug/L	08/23/2000 13:46	
Styrene	ND	0.5	ug/L	08/23/2000 13:46	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	08/23/2000 13:46	
Tetrachloroethene	ND	0.5	ug/L	08/23/2000 13:46	
Toluene	ND	0.5	ug/L	08/23/2000 13:46	
1,1,1-Trichloroethane	ND	0.5	ug/L	08/23/2000 13:46	
1,1,2-Trichloroethane	ND	0.5	ug/L	08/23/2000 13:46	
Trichloroethene	ND	0.5	ug/L	08/23/2000 13:46	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

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

Test Method: 8260A  
Prep Method: 5030

## Batch QC Report Volatile Organic Compounds

Method Blank	Water	QC Batch # 2000/08/23-01.39
MB: 2000/08/23-01.39-001		Date Extracted: 08/23/2000 13:46

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Acetone	ND	50	ug/L	08/23/2000 13:46	
Benzene	ND	0.5	ug/L	08/23/2000 13:46	
Bromodichloromethane	ND	0.5	ug/L	08/23/2000 13:46	
Bromoform	ND	0.5	ug/L	08/23/2000 13:46	
Bromomethane	ND	1.0	ug/L	08/23/2000 13:46	
Carbon tetrachloride	ND	0.5	ug/L	08/23/2000 13:46	
Chlorobenzene	ND	0.5	ug/L	08/23/2000 13:46	
Chloroethane	ND	1.0	ug/L	08/23/2000 13:46	
2-Butanone(MEK)	ND	20	ug/L	08/23/2000 13:46	
2-Chloroethylvinyl ether	ND	0.5	ug/L	08/23/2000 13:46	
Chloroform	ND	0.5	ug/L	08/23/2000 13:46	
Chloromethane	ND	1.0	ug/L	08/23/2000 13:46	
Dibromochloromethane	ND	0.5	ug/L	08/23/2000 13:46	
1,2-Dichlorobenzene	ND	0.5	ug/L	08/23/2000 13:46	
1,3-Dichlorobenzene	ND	0.5	ug/L	08/23/2000 13:46	
1,4-Dichlorobenzene	ND	0.5	ug/L	08/23/2000 13:46	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	08/23/2000 13:46	
1,2-Dibromoethane	ND	0.5	ug/L	08/23/2000 13:46	
Dibromomethane	ND	0.5	ug/L	08/23/2000 13:46	
Dichlorodifluoromethane	ND	0.5	ug/L	08/23/2000 13:46	
1,1-Dichloroethane	ND	0.5	ug/L	08/23/2000 13:46	
1,2-Dichloroethane	ND	0.5	ug/L	08/23/2000 13:46	
1,1-Dichloroethene	ND	0.5	ug/L	08/23/2000 13:46	
cis-1,2-Dichloroethene	ND	0.5	ug/L	08/23/2000 13:46	
trans-1,2-Dichloroethene	ND	0.5	ug/L	08/23/2000 13:46	
1,2-Dichloropropane	ND	0.5	ug/L	08/23/2000 13:46	
cis-1,3-Dichloropropene	ND	0.5	ug/L	08/23/2000 13:46	
trans-1,3-Dichloropropene	ND	0.5	ug/L	08/23/2000 13:46	
Ethylbenzene	ND	0.5	ug/L	08/23/2000 13:46	
2-Hexanone	ND	50	ug/L	08/23/2000 13:46	
Methylene chloride	ND	5.0	ug/L	08/23/2000 13:46	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	08/23/2000 13:46	
Naphthalene	ND	10	ug/L	08/23/2000 13:46	
Styrene	ND	0.5	ug/L	08/23/2000 13:46	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	08/23/2000 13:46	
Tetrachloroethene	ND	0.5	ug/L	08/23/2000 13:46	
Toluene	ND	0.5	ug/L	08/23/2000 13:46	
1,1,1-Trichloroethane	ND	0.5	ug/L	08/23/2000 13:46	
1,1,2-Trichloroethane	ND	0.5	ug/L	08/23/2000 13:46	
Trichloroethene	ND	0.5	ug/L	08/23/2000 13:46	

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# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

To: Aqua Science Engineers, Inc.

Test Method: 8260A

Attn: Ian T. Reed

Prep Method: 5030

## Batch QC Report

Volatile Organic Compounds

<b>Laboratory Control Spike (LCS/LCSD)</b>	<b>Water</b>	<b>QC Batch # 2000/08/23-01.39</b>
LCS: 2000/08/23-01.39-002	Extracted: 08/23/2000 12:25	Analyzed 08/23/2000 12:25
LCSD: 2000/08/23-01.39-003	Extracted: 08/23/2000 13:11	Analyzed 08/23/2000 13:11

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Benzene	54.9	52.8	50.0	50.0	109.8	105.6	3.9	69-129	20		
Chlorobenzene	58.0	56.1	50.0	50.0	116.0	112.2	3.3	61-121	20		
1,1-Dichloroethene	55.1	56.1	50.0	50.0	110.2	112.2	1.8	65-125	20		
Toluene	51.5	51.7	50.0	50.0	103.0	103.4	0.4	70-130	20		
Trichloroethene	52.8	51.1	50.0	50.0	105.6	102.2	3.3	74-134	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene	550	544	500	500	110.0	108.8		86-115			
1,2-Dichloroethane-d4	432	447	500	500	86.4	89.4		76-114			
Toluene-d8	502	493	500	500	100.4	98.6		88-110			

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

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 #: 3190

Project: Peerless Stages

## Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	08/23/2000 08:00	1
MW-2	Water	08/23/2000 09:10	2
MW-3	Water	08/23/2000 10:00	3
MW-4	Water	08/23/2000 11:00	4



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

To: Aqua Science Engineers, Inc.

Test Method: 8015M

Attn.: Ian T. Reed

Prep Method: 3510/8015M

Diesel

Sample ID: MW-1	Lab Sample ID: 2000-08-0444-001
Project: 3190 Peerless Stages	Received: / 08/23/2000 10:30
Sampled: 08/23/2000 08:00	Extracted: 08/23/2000 09:24
Matrix: Water	QC-Batch: 2000/08/23-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	08/23/2000 15:13	
Surrogate(s) o-Terphenyl	90.0	60-130	%	1.00	08/23/2000 15:13	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

To: Aqua Science Engineers, Inc.

Test Method: 8015M

Attn.: Ian T. Reed

Prep Method: 3510/8015M

Diesel

Sample ID: MW-2	Lab Sample ID: 2000-08-0444-002
Project: 3190 Peerless Stages	Received: / 08/23/2000 10:30
Sampled: 08/23/2000 09:10	Extracted: 08/23/2000 09:24
Matrix: Water	QC-Batch: 2000/08/23-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	600	50	ug/L	1.00	08/23/2000 15:52	ndp
<b>Surrogate(s)</b> o-Terphenyl	107.2	60-130	%	1.00	08/23/2000 15:52	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

To: Aqua Science Engineers, Inc.

Test Method: 8015M

Attn.: Ian T. Reed

Prep Method: 3510/8015M

Diesel

Sample ID: MW-3	Lab Sample ID: 2000-08-0444-003
Project: 3190 Peerless Stages	Received: 08/23/2000 10:30
Sampled: 08/23/2000 10:00	Extracted: 08/23/2000 09:24
Matrix: Water	QC-Batch: 2000/08/23-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	08/23/2000 16:30	
Surrogate(s) o-Terphenyl	86.9	60-130	%	1.00	08/23/2000 16:30	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

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

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

Diesel

Sample ID: MW-4	Lab Sample ID: 2000-08-0444-004
Project: 3190 Peerless Stages	Received: / 08/23/2000 10:30
Sampled: 08/23/2000 11:00	Extracted: 08/23/2000 09:24
Matrix: Water	QC-Batch: 2000/08/23-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	73	50	ug/L	1.00	08/23/2000 17:09	ndp
Surrogate(s) o-Terphenyl	91.4	60-130	%	1.00	08/23/2000 17:09	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

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 # 2000/08/23-01.10
MB: 2000/08/23-01.10-001		Date Extracted: 08/23/2000 09:24

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	08/23/2000 12:41	
Surrogate(s) o-Terphenyl	80.0	60-130	%	08/23/2000 12:41	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

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 # 2000/08/23-01.10
LCS: 2000/08/23-01.10-002	Extracted: 08/23/2000 09:24	Analyzed 08/23/2000 16:57
LCSD: 2000/08/23-01.10-003	Extracted: 08/23/2000 09:24	Analyzed 08/23/2000 16:19

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Diesel	1060	1010	1250	1250	84.8	80.8	4.8	60-130	25		
<i>Surrogate(s)</i>											
o-Terphenyl	21.4	21.6	20.0	20.0	107.0	108.0		60-130			

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

To: Aqua Science Engineers, Inc.

Attn: Ian T. Reed

Test Method: 8015M

Prep Method: 3510/8015M

## Legend & Notes

Diesel

### Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

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 #: 3190	Project: Peerless Stages

### Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	08/23/2000 08:00	1
MW-2	Water	08/23/2000 09:10	2
MW-3	Water	08/23/2000 10:00	3
MW-4	Water	08/23/2000 11:00	4



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

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: 2000-08-0444-001
Project: 3190 Peerless Stages	Received: 08/23/2000 10:30
Sampled: 08/23/2000 08:00	Extracted: 08/25/2000 15:32
Matrix: Water	QC-Batch: 2000/08/25-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/25/2000 15:32	
Benzene	ND	0.50	ug/L	1.00	08/25/2000 15:32	
Toluene	ND	0.50	ug/L	1.00	08/25/2000 15:32	
Ethyl benzene	ND	0.50	ug/L	1.00	08/25/2000 15:32	
Xylene(s)	ND	0.50	ug/L	1.00	08/25/2000 15:32	
MTBE	ND	5.0	ug/L	1.00	08/25/2000 15:32	
<i>Surrogate(s)</i>						
Trifluorotoluene	85.2	58-124	%	1.00	08/25/2000 15:32	
4-Bromofluorobenzene-FID	88.8	50-150	%	1.00	08/25/2000 15:32	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

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: 2000-08-0444-002
Project: 3190 Peerless Stages	Received: 08/23/2000 10:30
Sampled: 08/23/2000 09:10	Extracted: 08/28/2000 18:55
Matrix: Water	QC-Batch: 2000/08/25-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1300	1000	ug/L	20.00	08/25/2000 16:22	g
Benzene	ND	0.50	ug/L	1.00	08/28/2000 18:55	
Toluene	ND	0.50	ug/L	1.00	08/28/2000 18:55	
Ethyl benzene	ND	0.50	ug/L	1.00	08/28/2000 18:55	
Xylene(s)	ND	0.50	ug/L	1.00	08/28/2000 18:55	
MTBE	2000	100	ug/L	20.00	08/25/2000 16:22	
<b>Surrogate(s)</b>						
Trifluorotoluene	114.8	58-124	%	1.00	08/28/2000 18:55	
4-Bromofluorobenzene-FID	95.2	50-150	%	1.00	08/25/2000 16:22	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

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: 2000-08-0444-003
Project: 3190 Peerless Stages	Received: 08/23/2000 10:30
Sampled: 08/23/2000 10:00	Extracted: 08/25/2000 16:54
Matrix: Water	QC-Batch: 2000/08/25-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/25/2000 16:54	
Benzene	ND	0.50	ug/L	1.00	08/25/2000 16:54	
Toluene	ND	0.50	ug/L	1.00	08/25/2000 16:54	
Ethyl benzene	ND	0.50	ug/L	1.00	08/25/2000 16:54	
Xylene(s)	ND	0.50	ug/L	1.00	08/25/2000 16:54	
MTBE	ND	5.0	ug/L	1.00	08/25/2000 16:54	
<i>Surrogate(s)</i>						
Trifluorotoluene	95.8	58-124	%	1.00	08/25/2000 16:54	
4-Bromofluorobenzene-FID	90.4	50-150	%	1.00	08/25/2000 16:54	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

To: Aqua Science Engineers, Inc.

Test Method: 8020  
8015M

Attn.: Ian T. Reed

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-4	Lab Sample ID: 2000-08-0444-004
Project: 3190 Peerless Stages	Received: 08/23/2000 10:30
Sampled: 08/23/2000 11:00	Extracted: 08/25/2000 17:25
Matrix: Water	QC-Batch: 2000/08/25-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/25/2000 17:25	
Benzene	ND	0.50	ug/L	1.00	08/25/2000 17:25	
Toluene	ND	0.50	ug/L	1.00	08/25/2000 17:25	
Ethyl benzene	ND	0.50	ug/L	1.00	08/25/2000 17:25	
Xylene(s)	ND	0.50	ug/L	1.00	08/25/2000 17:25	
MTBE	ND	5.0	ug/L	1.00	08/25/2000 17:25	
<b>Surrogate(s)</b>						
Trifluorotoluene	91.2	58-124	%	1.00	08/25/2000 17:25	
4-Bromofluorobenzene-FID	86.4	50-150	%	1.00	08/25/2000 17:25	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

To: Aqua Science Engineers, Inc.

Test Method: 8020  
8015M

Attn.: Ian T. Reed

Prep Method: 5030

## Batch QC Report Gas/BTEX and MTBE

Method Blank	Water	QC Batch # 2000/08/25-01.02
MB: 2000/08/25-01.02-001		Date Extracted: 08/25/2000 05:02

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	08/25/2000 05:02	
Benzene	ND	0.5	ug/L	08/25/2000 05:02	
Toluene	ND	0.5	ug/L	08/25/2000 05:02	
Ethyl benzene	ND	0.5	ug/L	08/25/2000 05:02	
Xylene(s)	ND	0.5	ug/L	08/25/2000 05:02	
MTBE	ND	5.0	ug/L	08/25/2000 05:02	
<i>Surrogate(s)</i>					
Trifluorotoluene	84.2	58-124	%	08/25/2000 05:02	
4-Bromofluorobenzene-FID	84.6	50-150	%	08/25/2000 05:02	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

To: Aqua Science Engineers, Inc.

Test Method: 8020  
8015M

Attn.: Ian T. Reed

Prep Method: 5030

## Batch QC Report Gas/BTEX and MTBE

Method Blank	Water	QC Batch # 2000/08/28-01.03
MB: 2000/08/28-01.03-001		Date Extracted: 08/28/2000 06:34

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	08/28/2000 06:34	
Benzene	ND	0.5	ug/L	08/28/2000 06:34	
Toluene	ND	0.5	ug/L	08/28/2000 06:34	
Ethyl benzene	ND	0.5	ug/L	08/28/2000 06:34	
Xylene(s)	ND	0.5	ug/L	08/28/2000 06:34	
MTBE	ND	5.0	ug/L	08/28/2000 06:34	
<i>Surrogate(s)</i>					
Trifluorotoluene	100.2	58-124	%	08/28/2000 06:34	
4-Bromofluorobenzene-FID	77.6	50-150	%	08/28/2000 06:34	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

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 # 2000/08/25-01.02
LCS: 2000/08/25-01.02-002	Extracted: 08/25/2000 05:33	Analyzed 08/25/2000 05:33
LCSD: 2000/08/25-01.02-003	Extracted: 08/25/2000 06:36	Analyzed 08/25/2000 06:36

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	583	598	500	500	116.6	119.6	2.5	75-125	20		
Benzene	106	102	100.0	100.0	106.0	102.0	3.8	77-123	20		
Toluene	106	102	100.0	100.0	106.0	102.0	3.8	78-122	20		
Ethyl benzene	100	96.9	100.0	100.0	100.0	96.9	3.1	70-130	20		
Xylene(s)	289	281	300	300	96.3	93.7	2.7	75-125	20		
<b>Surrogate(s)</b>											
Trifluorotoluene	510	470	500	500	102.0	94.0		58-124			
4-Bromofluorobenzene-FI	503	483	500	500	100.6	96.6		50-150			

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

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 # 2000/08/28-01.03	
LCS:	2000/08/28-01.03-002	Extracted:	08/28/2000 15:58	Analyzed	08/28/2000 15:58
LCSD:	2000/08/28-01.03-003	Extracted:	08/28/2000 10:44	Analyzed	08/28/2000 10:44

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	
Gasoline	550	554	500	500	110.0	110.8	0.7	75-125	20	
Benzene	55.4	54.4	50	50	110.8	108.8	1.8	77-123	20	
Toluene	56.8	56.3	50	50	113.6	112.6	0.9	78-122	20	
Ethyl benzene	56.7	56.5	50	50	113.4	113.0	0.4	70-130	20	
Xylene(s)	170	171	150	150	113.3	114.0	0.6	75-125	20	
<b>Surrogate(s)</b>										
4-Bromofluorobenzene	292	290	250	500	116.8	58.0		50-150		
4-Bromofluorobenzene-FI	521	521	500	500	104.2	104.2		50-150		



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

To: Aqua Science Engineers, Inc.

Test Method: 8020  
8015M

Attn.: Ian T. Reed

Prep Method: 5030

**Batch QC Report**  
Gas/BTEX and MTBE

Matrix Spike ( MS / MSD )

Water

QC Batch # 2000/08/25-01.02

Sample ID: MW-1

Lab Sample ID: 2000-08-0444-001

MS: 2000/08/25-01.02-004 Extracted: 08/25/2000 21:37 Analyzed: 08/25/2000 21:37 Dilution: 1.0

MSD: 2000/08/25-01.02-005 Extracted: 08/25/2000 22:09 Analyzed: 08/25/2000 22:09 Dilution: 1.0

Compound	Conc. [ug/L]			Exp. Conc. [ug/L]		Recovery [%]			Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	RPD [%]	Recovery	RPD	MS	MSD
Gasoline	547	465	ND	500	500	109.4	93.0	16.2	65-135	20		
Benzene	98.6	98.2	ND	100.0	100.0	98.6	98.2	0.4	65-135	20		
Toluene	98.0	97.2	ND	100.0	100.0	98.0	97.2	0.8	65-135	20		
Ethyl benzene	93.4	91.6	ND	100.0	100.0	93.4	91.6	1.9	65-135	20		
Xylene(s)	271	266	ND	300	300	90.3	88.7	1.8	65-135	20		
<b>Surrogate(s)</b>												
Trifluorotoluene	449	443		500	500	89.8	88.6		58-124			
4-Bromofluorobenzene-F	487	441		500	500	97.4	88.2		50-150			

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-08-0444

To: Aqua Science Engineers, Inc.

Test Method: 8015M  
8020

Attn: Ian T. Reed

Prep Method: 5030

## Legend & Notes

Gas/BTEX and MTBE

## Analyte Flags

g

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

# 2000-08-0444

521073

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) Jan T. Reed (PHONE NO.) (925) 820-9391

PROJECT NAME Peerless Stages JOB NO. 3190  
 ADDRESS 2021 Bruhn Street, Oakland CA

### ANALYSIS REQUEST

SPECIAL INSTRUCTIONS

5-day TAT

SAMPLE ID	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	PURGEABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240/8260)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LIQUID METALS (5) (EPA 6010+7000)	CADMIUM METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140 EPA 608/8080)	FUEL OXYGENATES (EPA 8260)	Pb (TOTAL or DISSOLVED) (EPA 6010)	TPH-G/BTEX/5 OXY'S (EPA 8260)	TPH-G/BTEX/7 OXY'S / HYOCS (EPA 8260)	COMPOSITE	
MU-1	8/23	0800	water	5	X	X															
MU-2		0910	↓	7	X	X			X												
MW-3		1000	↓	5	X	X															
MW-4		1100	↓	5	X	X															

RELINQUISHED BY <u>Jan T. Reed</u> 1030 <small>(signature) (time)</small>	RECEIVED BY:  <small>(signature) (time)</small>	RELINQUISHED BY:  <small>(signature) (time)</small>	RECEIVED BY LABORATORY: <u>Chris Rowley</u> 1030 <small>(signature) (time)</small>	COMMENTS:  
Jan T. Reed 8/23/00 <small>(printed name) (date)</small>	 <small>(printed name) (date)</small>	 <small>(printed name) (date)</small>	<u>Chris Rowley</u> 8/23/00 <small>(printed name) (date)</small>	TURN AROUND TIME STANDARD 24hr 48hr 72hr OTHER: <u>STANDARD</u>
Company- ASE	Company-	Company-	Company- <u>Chromalabs</u>	



**FAX BEING SENT BY:**

**OCT 23 2000**

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

DATE: 10/20/00

TO: Eva Chu

FROM: Jan Reed

NUMBER OF PAGES TO FOLLOW: 2

\*\*\*\*\*Please Phone If This Fax Is Received Incomplete\*\*\*\*\*

**MESSAGE:**

pages 3 + 5 of 9260  
for Peerless report

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-08-0444

To: Aqua Science Engineers, Inc.

Test Method: 8260A

Attn.: Ian T. Reed

Prep Method: 5030

## Volatile Organic Compounds

Sample ID: MW-2	Lab Sample ID: 2000-08-0444-002
Project: 3190 Peerless Stages	Received: 08/23/2000 10:30
Sampled: 08/23/2000 09:10	Extracted: 08/23/2000 16:11
Matrix: Water	QC-Batch: 2000/08/23-01.39

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Tetrachloroethene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Toluene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Trichloroethene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Vinyl acetate	ND	5.0	ug/L	1.00	08/23/2000 16:11	
Vinyl chloride	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Total xylenes	ND	1.0	ug/L	1.00	08/23/2000 16:11	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Carbon disulfide	ND	1.0	ug/L	1.00	08/23/2000 16:11	
Isopropylbenzene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Bromobenzene	ND	0.50	ug/L	1.00	08/23/2000 16:11	
Bromochloromethane	ND	1.0	ug/L	1.00	08/23/2000 16:11	
Trichlorofluoromethane	ND	2.0	ug/L	1.00	08/23/2000 16:11	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	106.0	86-115	%	1.00	08/23/2000 16:11	
1,2-Dichloroethane-d4	80.4	76-114	%	1.00	08/23/2000 16:11	
Toluene-d8	94.2	88-110	%	1.00	08/23/2000 16:11	

220 Quarry Lane \* Pleasanton, CA 94566-4756  
 Telephone (925) 484-1919 \* Facsimile (925) 484-1096

**CHROMALAB, INC.**

Environmental Services (SDB)

Submission #: 2000-08-0444

To: Aqua Science Engineers, Inc.  
Attn.: Ian T. ReedTest Method: 8260A  
Prep Method: 5030**Batch QC Report**  
Volatile Organic Compounds

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/08/23-01.39</b>
MB: 2000/08/23-01.39-001		Date Extracted: 08/23/2000 13:46

Compound	Result	Rep.Limit	Units	Analyzed	Flag
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	08/23/2000 13:46	
Vinyl acetate	ND	5.0	ug/L	08/23/2000 13:46	
Vinyl chloride	ND	0.5	ug/L	08/23/2000 13:46	
Total xylenes	ND	1.0	ug/L	08/23/2000 13:46	
Trichlorotrifluoroethane	ND	0.5	ug/L	08/23/2000 13:46	
Carbon disulfide	ND	1.0	ug/L	08/23/2000 13:46	
Isopropylbenzene	ND	0.5	ug/L	08/23/2000 13:46	
Bromobenzene	ND	0.5	ug/L	08/23/2000 13:46	
Bromochloromethane	ND	1.0	ug/L	08/23/2000 13:46	
Trichlorofluoromethane	ND	2.0	ug/L	08/23/2000 13:46	
<b>Surrogate(s)</b>					
4-Bromofluorobenzene	103.2	86-115	%	08/23/2000 13:46	
1,2-Dichloroethane-d4	89.6	76-114	%	08/23/2000 13:46	
Toluene-d8	98.2	88-110	%	08/23/2000 13:46	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096