

ENVIRONMENTAL
PROTECTION

00 JUN 16 AM 8:56



- How fast is GW moving - when will it reach nearest sensitive receptors, if any.
- Run RBCA for NCE + T&D.

June 2, 2000

QUARTERLY GROUNDWATER MONITORING REPORT
MAY 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 May 2000 quarterly groundwater sampling at the former Peerless Stages bus company site located at 2021 Brush Street in Oakland, California (Figures 1).

2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On May 17, 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 0.0043 feet/foot. The water table has dropped an average of 1.73-feet since February 2000.

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 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 58 parts per billion (ppb) TPH-G, 1,400 ppb TPH-D and 5,800 ppb MTBE. The groundwater samples collected from monitoring well MW-4 contained 120 ppb TPH-G and 130 ppb TPH-D. There were no compounds detected above laboratory reporting limits in groundwater samples collected from monitoring wells MW-1 and MW-3.

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 August 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

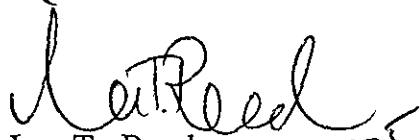
The results presented in this report represent the conditions at the time of the groundwater sampling, at the specific locations where the groundwater samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting 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 205
Associate Geologist




Robert E. Kitay, R.G., R.E.A.
Senior Geologist 203

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	08/26/99	19.66	16.44	3.22
	11/11/99		16.56	3.10
	02/16/00		13.02	6.64
	05/17/00		14.88	4.78
MW-2	08/26/99	20.00	16.88	3.12
	11/11/99		16.92	3.08
	02/16/00		13.76	6.24
	05/17/00		15.32	4.68
MW-3	08/26/99	18.91	15.94	2.97
	11/11/99		15.98	2.93
	02/16/00		12.70	6.21
	05/17/00		14.44	4.47
MW-4	08/26/99	19.43	16.48	2.95
	11/11/99		16.50	2.93
	02/16/00		13.19	6.24
	05/17/00		14.95	4.48

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 _s	VOC _s
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
MW-2	8/26/99	8,600	1,200*	< 25	< 25	< 25	< 25	14,000	< 0.057 - < 0.23	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
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
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
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_s = Polynuclear Aromatic Hydrocarbons

VOC_s = Volatile Organic Compounds

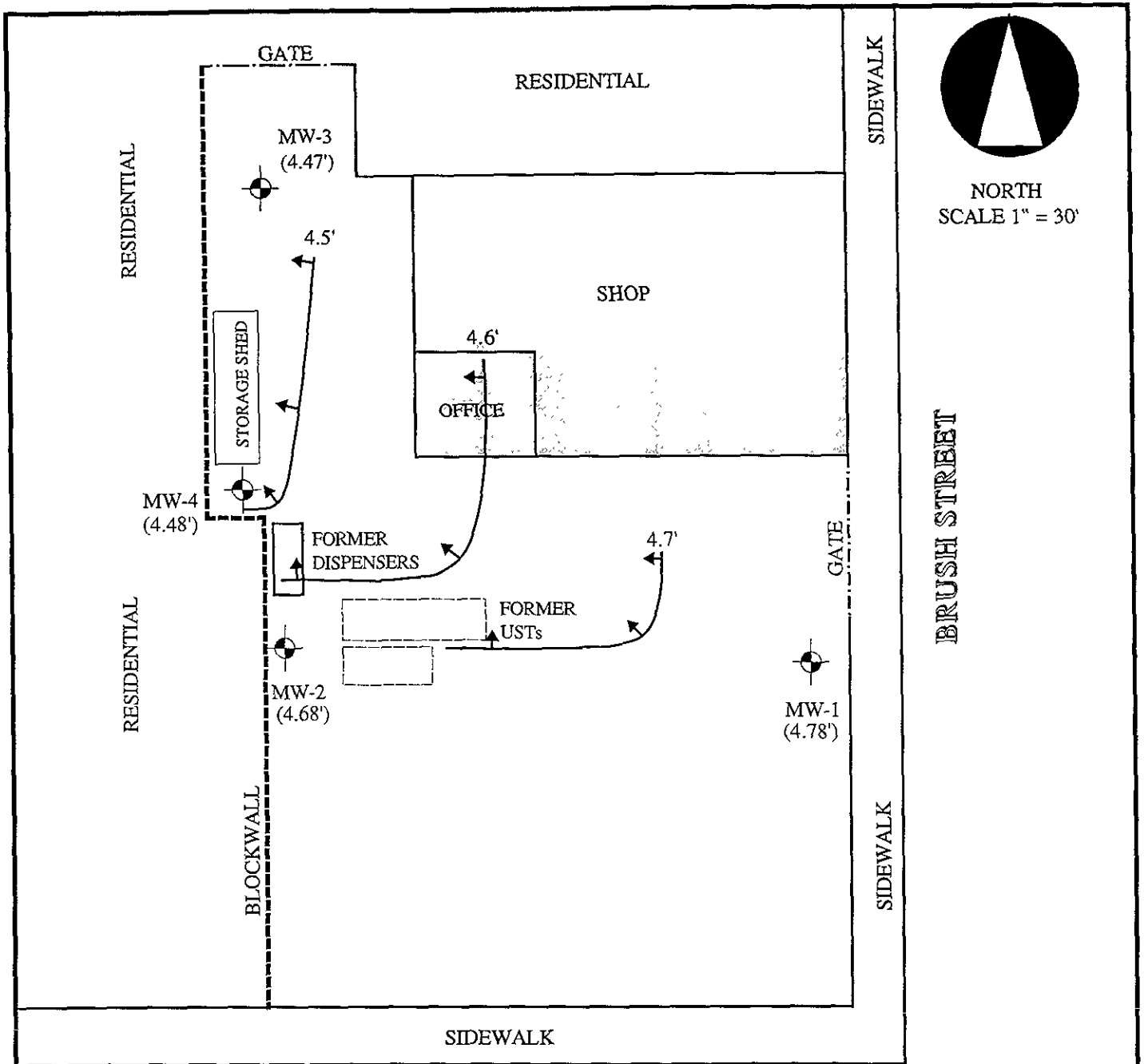
DHS MCL = Department of Health Services Maximum Contaminant Levels for drinking water

NA = Sample was not analyzed




* = Hydrocarbons do not match the laboratory diesel standard

** = Hydrocarbons do not match the laboratory gasoline standard

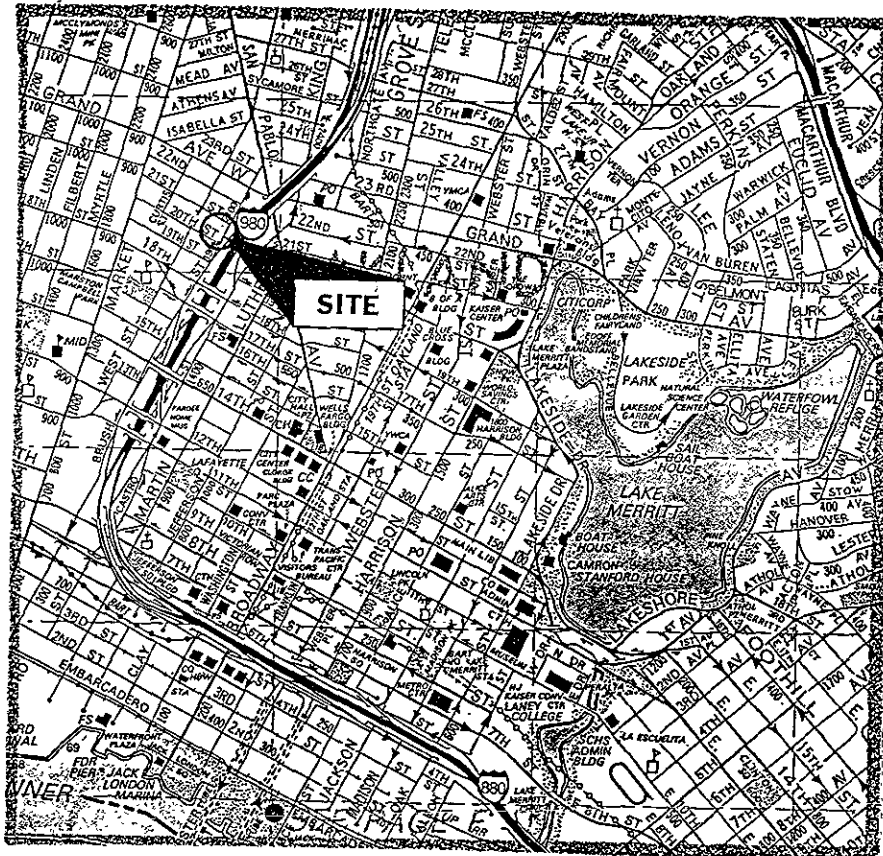
FIGURES



20th STREET

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

GROUNDWATER ELEVATION CONTOUR MAP 5/17/00	
Former Peerless Stages, Inc. Property 201 Brush Street Oakland, California	
AQUA SCIENCE ENGINEERS	Figure 2



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

APPENDIX A

Well Sampling Field Logs



WELL SAMPLING FIELD LOG

Project Name and Address: Peerless Stages
 Job #: 3190 Date of sampling: 5/17/00
 Well Name: MW-1 Sampled by: ITR
 Total depth of well (feet): 27.0' Well diameter (inches): 2"
 Depth to water before sampling (feet): 14.88'
 Thickness of floating product if any: None
 Depth of well casing in water (feet): 12.12
 Number of gallons per well casing volume (gallons): 2
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 8
 Equipment used to purge the well: ded. bailer
 Time Evacuation Began: 1145 Time Evacuation Finished: 1200
 Approximate volume of groundwater purged: 8
 Did the well go dry?: NO After how many gallons: -
 Time samples were collected: 1205
 Depth to water at time of sampling: 14.93'
 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

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>70.1</u>	<u>7.65</u>	<u>671</u>
<u>2</u>	<u>70.1</u>	<u>7.54</u>	<u>684</u>
<u>3</u>	<u>70.2</u>	<u>7.54</u>	<u>692</u>
<u>4</u>	<u>70.1</u>	<u>7.52</u>	<u>689</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	iced?	Analysis
<u>MW-1</u>	<u>3</u>	<u>VOA (40ml)</u>	<u>✓</u>	<u>✓</u>	
<u>MW-1</u>	<u>3</u>	<u>1.4L (1L) Amber</u>		<u>✓</u>	



WELL SAMPLING FIELD LOG

Project Name and Address: Peerless Stages
 Job #: 3190 Date of sampling: 5/17/00
 Well Name: MW-2 Sampled by: ITR
 Total depth of well (feet): 30.0 Well diameter (inches): 2"
 Depth to water before sampling (feet): 15.32
 Thickness of floating product if any: —
 Depth of well casing in water (feet): 14.68
 Number of gallons per well casing volume (gallons): 2.5
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 10
 Equipment used to purge the well: dedicated bailer
 Time Evacuation Began: 1215 Time Evacuation Finished: 1235
 Approximate volume of groundwater purged: 10
 Did the well go dry?: NO After how many gallons: —
 Time samples were collected: 1240
 Depth to water at time of sampling: 15.43
 Percent recovery at time of sampling: 99%
 Samples collected with: dedicated bailer
 Sample color: gray Odor: NOA - HC odor?
 Description of sediment in sample: f. silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>71.0</u>	<u>4.76</u>	<u>612</u>
<u>2</u>	<u>77.0</u>	<u>4.81</u>	<u>672</u>
<u>3</u>	<u>77.3</u>	<u>4.80</u>	<u>690</u>
<u>4</u>	<u>71.9</u>	<u>4.80</u>	<u>720</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>111-2</u>	<u>3</u>	<u>40ml VCH</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<u>3</u>	<u>1-liter Amber</u>		<input checked="" type="checkbox"/>	



WELL SAMPLING FIELD LOG

Project Name and Address: Peerless Stages
 Job #: 3190 Date of sampling: 5/17/00
 Well Name: MW-3 Sampled by: ITR
 Total depth of well (feet): 29.60' Well diameter (inches): 2"
 Depth to water before sampling (feet): 14.44
 Thickness of floating product if any: —
 Depth of well casing in water (feet): 15.16
 Number of gallons per well casing volume (gallons): 2.6
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 10.4
 Equipment used to purge the well: dedicated bailer
 Time Evacuation Began: 1250 Time Evacuation Finished: 1310
 Approximate volume of groundwater purged: 10.5
 Did the well go dry?: NO After how many gallons: —
 Time samples were collected: 1315
 Depth to water at time of sampling: 14.60
 Percent recovery at time of sampling: 99%
 Samples collected with: dedicated bailer
 Sample color: clear/brown Odor: None
 Description of sediment in sample: F. silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>71.2</u>	<u>6.74</u>	<u>1010</u>
<u>2</u>	<u>72.4</u>	<u>6.6</u>	<u>1120</u>
<u>3</u>	<u>71.8</u>	<u>6.73</u>	<u>1131</u>
<u>4</u>	<u>70.9</u>	<u>6.63</u>	<u>1108</u>

SAMPLES COLLECTED

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



WELL SAMPLING FIELD LOG

Project Name and Address: Peerless Stages
 Job #: 3190 Date of sampling: 5/17/00
 Well Name: MW-4 Sampled by: ITTZ
 Total depth of well (feet): 29.64' Well diameter (inches): 2"
 Depth to water before sampling (feet): 14.95
 Thickness of floating product if any: —
 Depth of well casing in water (feet): 14.69
 Number of gallons per well casing volume (gallons): 2.5
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 10
 Equipment used to purge the well: dedicated bailer
 Time Evacuation Began: 1500 Time Evacuation Finished: 1520
 Approximate volume of groundwater purged: 10
 Did the well go dry?: NO After how many gallons: —
 Time samples were collected: 1525
 Depth to water at time of sampling: 13.17
 Percent recovery at time of sampling: 99%
 Samples collected with: dedicated bailer
 Sample color: clear/brown Odor: None
 Description of sediment in sample: F. silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>69.9</u>	<u>7.13</u>	<u>672</u>
<u>2</u>	<u>71.0</u>	<u>7.24</u>	<u>680</u>
<u>3</u>	<u>71.2</u>	<u>7.31</u>	<u>710</u>
<u>4</u>	<u>70.9</u>	<u>7.21</u>	<u>705</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-4</u>	<u>3</u>	<u>10 ml VCB</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<u>3</u>	<u>1-1/2 Lys. Acids</u>		<input checked="" type="checkbox"/>	

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
Former Peerless Stages

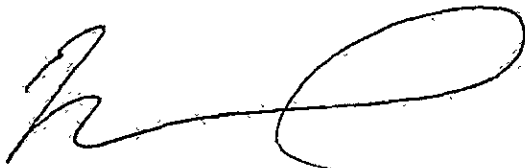
Site: 2021 Brush St.
Oakland, CA

Dear Mr. Reed,

Attached is our report for your samples received on Thursday May 18, 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 June 17, 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: vwancil@chromalab.com

Sincerely,



Vincent Vancil

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

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: Former Peerless Stages
Site: 2021 Brush St. Oakland, CA	

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	05/17/2000 12:05	1
MW-2	Water	05/17/2000 12:40	2
MW-3	Water	05/17/2000 13:15	3
MW-4	Water	05/17/2000 15:25	4

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

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

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

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

Diesel

Sample ID: MW-1	Lab Sample ID: 2000-05-0410-001
Project: 3190 Former Peerless Stages	Received: 05/18/2000 15:04
Site: 2021 Brush St. Oakland, CA	Extracted: 05/19/2000 12:05
Sampled: 05/17/2000 12:05	QC-Batch: 2000/05/19-02.10
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	05/22/2000 12:27	
<i>Surrogate(s)</i> o-Terphenyl	93.0	60-130	%	1.00	05/22/2000 12:27	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

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

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

Diesel

Sample ID: MW-2	Lab Sample ID: 2000-05-0410-002
Project: 3190 Former Peerless Stages	Received: 05/18/2000 15:04
Site: 2021 Brush St. Oakland, CA	Extracted: 05/19/2000 12:05
Sampled: 05/17/2000 12:40	QC-Batch: 2000/05/19-02.10
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1400	50	ug/L	1.00	05/22/2000 13:14	ndp
Surrogate(s) o-Terphenyl	83.4	60-130	%	1.00	05/22/2000 13:14	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

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

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

Diesel

Sample ID: MW-3	Lab Sample ID: 2000-05-0410-003
Project: 3190 Former Peerless Stages	Received: 05/18/2000 15:04
Site: 2021 Brush St. Oakland, CA	Extracted: 05/19/2000 12:05
Sampled: 05/17/2000 13:15	QC-Batch: 2000/05/19-02.10
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	05/22/2000 14:00	
<i>Surrogate(s)</i> o-Terphenyl	92.0	60-130	%	1.00	05/22/2000 14:00	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

To: Aqua Science Engineers, Inc.

Attn.: Ian T. Reed

Test Method: 8015m

Prep Method: 3510/8015M

Diesel

Sample ID: MW-4	Lab Sample ID: 2000-05-0410-004
Project: 3190 Former Peerless Stages	Received: 05/18/2000 15:04
Site: 2021 Brush St. Oakland, CA	Extracted: 05/19/2000 12:05
Sampled: 05/17/2000 15:25	QC-Batch: 2000/05/19-02.10
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	130	50	ug/L	1.00	05/22/2000 14:47	ndp
Surrogate(s) o-Terphenyl	71.5	60-130	%	1.00	05/22/2000 14:47	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

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 # 2000/05/19-02.10
MB: 2000/05/19-02.10-001		Date Extracted: 05/19/2000 12:05

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	05/22/2000 11:41	
<i>Surrogate(s)</i> o-Terphenyl	92.5	60-130	%	05/22/2000 11:41	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

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 # 2000/05/19-02.10
LCS: 2000/05/19-02.10-002	Extracted: 05/19/2000 12:05	Analyzed 05/22/2000 15:33
LCSD: 2000/05/19-02.10-003	Extracted: 05/19/2000 12:05	Analyzed 05/22/2000 16:30

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Diesel	994	1090	1250	1250	79.5	87.2	9.2	60-130	25		
<i>Surrogate(s)</i> o-Terphenyl	19.5	20.8	20.0	20.0	97.5	104.0		60-130			

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

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

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 #: 3190	Project: Former Peerless Stages
Site: 2021 Brush St. Oakland, CA	

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	05/17/2000 12:05	1
MW-2	Water	05/17/2000 12:40	2
MW-3	Water	05/17/2000 13:15	3
MW-4	Water	05/17/2000 15:25	4

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

To: Aqua Science Engineers, Inc.

Test Method: 8015M
8020

Attn.: Ian T. Reed

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-1	Lab Sample ID: 2000-05-0410-001
Project: 3190 Former Peerless Stages	Received: 05/18/2000 15:04
Site: 2021 Brush St. Oakland, CA	Extracted: 05/23/2000 16:54
Sampled: 05/17/2000 12:05	QC-Batch: 2000/05/23-01.01
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/23/2000 16:54	
Benzene	ND	0.50	ug/L	1.00	05/23/2000 16:54	
Toluene	ND	0.50	ug/L	1.00	05/23/2000 16:54	
Ethyl benzene	ND	0.50	ug/L	1.00	05/23/2000 16:54	
Xylene(s)	ND	0.50	ug/L	1.00	05/23/2000 16:54	
MTBE	ND	5.0	ug/L	1.00	05/23/2000 16:54	
Surrogate(s)						
Trifluorotoluene	92.4	58-124	%	1.00	05/23/2000 16:54	
4-Bromofluorobenzene-FID	87.6	50-150	%	1.00	05/23/2000 16:54	

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

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

To: Aqua Science Engineers, Inc.

Test Method: 8015M
8020

Attn.: Ian T. Reed

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-2	Lab Sample ID: 2000-05-0410-002
Project: 3190 Former Peerless Stages	Received: 05/18/2000 15:04
Site: 2021 Brush St. Oakland, CA	Extracted: 05/25/2000 11:04
Sampled: 05/17/2000 12:40	QC-Batch: 2000/05/25-01.01
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	58	50	ug/L	1.00	05/25/2000 11:04	g
Benzene	ND	0.50	ug/L	1.00	05/25/2000 11:04	
Toluene	ND	0.50	ug/L	1.00	05/25/2000 11:04	
Ethyl benzene	ND	0.50	ug/L	1.00	05/25/2000 11:04	
Xylene(s)	ND	0.50	ug/L	1.00	05/25/2000 11:04	
MTBE	5800	250	ug/L	50.00	05/25/2000 16:59	
Surrogate(s)						
Trifluorotoluene	84.5	58-124	%	1.00	05/25/2000 11:04	
4-Bromofluorobenzene-FID	88.8	50-150	%	1.00	05/25/2000 11:04	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

To: Aqua Science Engineers, Inc.

Test Method: 8015M
8020

Attn.: Ian T. Reed

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-3	Lab Sample ID: 2000-05-0410-003
Project: 3190 Former Peerless Stages	Received: 05/18/2000 15:04
Site: 2021 Brush St. Oakland, CA	Extracted: 05/25/2000 16:24
Sampled: 05/17/2000 13:15	QC-Batch: 2000/05/25-01.01
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/25/2000 16:24	
Benzene	ND	0.50	ug/L	1.00	05/25/2000 16:24	
Toluene	ND	0.50	ug/L	1.00	05/25/2000 16:24	
Ethyl benzene	ND	0.50	ug/L	1.00	05/25/2000 16:24	
Xylene(s)	ND	0.50	ug/L	1.00	05/25/2000 16:24	
MTBE	ND	5.0	ug/L	1.00	05/25/2000 16:24	
Surrogate(s)						
Trifluorotoluene	88.0	58-124	%	1.00	05/25/2000 16:24	
4-Bromofluorobenzene-FID	86.1	50-150	%	1.00	05/25/2000 16:24	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

To: Aqua Science Engineers, Inc.

Test Method: 8015M
8020

Attn.: Ian T. Reed

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-4	Lab Sample ID: 2000-05-0410-004
Project: 3190 Former Peerless Stages	Received: 05/18/2000 15:04
Site: 2021 Brush St. Oakland, CA	Extracted: 05/25/2000 12:13
Sampled: 05/17/2000 15:25	QC-Batch: 2000/05/25-01.01
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	120	50	ug/L	1.00	05/25/2000 12:13	g
Benzene	ND	0.50	ug/L	1.00	05/25/2000 12:13	
Toluene	ND	0.50	ug/L	1.00	05/25/2000 12:13	
Ethyl benzene	ND	0.50	ug/L	1.00	05/25/2000 12:13	
Xylene(s)	ND	0.50	ug/L	1.00	05/25/2000 12:13	
MTBE	ND	5.0	ug/L	1.00	05/25/2000 12:13	
Surrogate(s)						
Trifluorotoluene	88.6	58-124	%	1.00	05/25/2000 12:13	
4-Bromofluorobenzene-FID	91.8	50-150	%	1.00	05/25/2000 12:13	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

To: Aqua Science Engineers, Inc.

Test Method: 8015M
8020

Attn.: Ian T. Reed

Prep Method: 5030

Batch QC Report Gas/BTEX and MTBE

Method Blank	Water	QC Batch # 2000/05/23-01.01
MB: 2000/05/23-01.01-001		Date Extracted: 05/23/2000 13:56

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	05/23/2000 13:56	
Benzene	ND	0.5	ug/L	05/23/2000 13:56	
Toluene	ND	0.5	ug/L	05/23/2000 13:56	
Ethyl benzene	ND	0.5	ug/L	05/23/2000 13:56	
Xylene(s)	ND	0.5	ug/L	05/23/2000 13:56	
MTBE	ND	5.0	ug/L	05/23/2000 13:56	
Surrogate(s)					
Trifluorotoluene	86.8	58-124	%	05/23/2000 13:56	
4-Bromofluorobenzene-FID	88.0	50-150	%	05/23/2000 13:56	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

To: Aqua Science Engineers, Inc.

Test Method: 8015M
8020

Attn.: Ian T. Reed

Prep Method: 5030

Batch QC Report Gas/BTEX and MTBE

Method Blank	Water	QC Batch # 2000/05/25-01.01
MB: 2000/05/25-01.01-001		Date Extracted: 05/25/2000 08:10

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	05/25/2000 08:10	
Benzene	ND	0.5	ug/L	05/25/2000 08:10	
Toluene	ND	0.5	ug/L	05/25/2000 08:10	
Ethyl benzene	ND	0.5	ug/L	05/25/2000 08:10	
Xylene(s)	ND	0.5	ug/L	05/25/2000 08:10	
MTBE	ND	5.0	ug/L	05/25/2000 08:10	
Surrogate(s)					
Trifluorotoluene	91.4	58-124	%	05/25/2000 08:10	
4-Bromofluorobenzene-FID	89.2	50-150	%	05/25/2000 08:10	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

To: Aqua Science Engineers, Inc.

Test Method: 8015M
8020

Attn: Ian T. Reed

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2000/05/23-01.01
LCS: 2000/05/23-01.01-002	Extracted: 05/23/2000 14:32	Analyzed 05/23/2000 14:32
LCSD: 2000/05/23-01.01-003	Extracted: 05/23/2000 16:19	Analyzed 05/23/2000 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
Gasoline	509	473	500	500	101.8	94.6	7.3	75-125	20		
Benzene	110	111	100.0	100.0	110.0	111.0	0.9	77-123	20		
Toluene	104	104	100.0	100.0	104.0	104.0	0.0	78-122	20		
Ethyl benzene	106	106	100.0	100.0	106.0	106.0	0.0	70-130	20		
Xylene(s)	319	319	300	300	106.3	106.3	0.0	75-125	20		
Surrogate(s)											
Trifluorotoluene	470	471	500	500	94.0	94.2		58-124			
4-Bromofluorobenzene-Fl	453	444	500	500	90.6	88.8		50-150			

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

To: Aqua Science Engineers, Inc.

Test Method: 8015M
8020

Attn: Ian T. Reed

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2000/05/25-01.01
LCS: 2000/05/25-01.01-002	Extracted: 05/25/2000 08:45	Analyzed 05/25/2000 08:45
LCSD: 2000/05/25-01.01-003	Extracted: 05/25/2000 09:20	Analyzed 05/25/2000 09:20

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	481	500	500	98.8	96.2	2.7	75-125	20		
Benzene	105	98.3	100.0	100.0	105.0	98.3	6.6	77-123	20		
Toluene	99.3	92.5	100.0	100.0	99.3	92.5	7.1	78-122	20		
Ethyl benzene	101	93.3	100.0	100.0	101.0	93.3	7.9	70-130	20		
Xylene(s)	303	281	300	300	101.0	93.7	7.5	75-125	20		
Surrogate(s)											
Trifluorotoluene	457	427	500	500	91.4	85.4		58-124			
4-Bromofluorobenzene-FI	438	439	500	500	87.6	87.8		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-05-0410

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.

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

Chain of Custody

2000-05-0410

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

PROJECT NAME Former Peerless Stages JOB NO. 3190
 ADDRESS 2021 Brush St, Oakland CA DATE 5/17/00

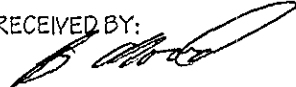
ANALYSIS REQUEST


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)	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	5/17	1205	water	6	XXX		XXX												
MW-2	5/17	1240		6	XXX		XXX												
MW-3	5/17	1315		6	XXX		XXX												
MW-4	5/17	1525		6	XX		XX												

RELINQUISHED BY:
Lat Reed 1005
 (signature) (time)

RECEIVED BY:

 (signature) (time) 1005

RELINQUISHED BY:

 (signature) (time) 1504

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

COMMENTS:
 5-day TAT

Lat Reed 5/18/00
 (printed name) (date)

B. Morra 5/18/00
 (printed name) (date)

B. Morra 5/18/00
 (printed name) (date)

D. Harrington
 (printed name) (date)

Company- ASE

Company- Chromalab

Company- Chromalab

Company- 1504
 Chromalab 5/18/00