



ENVIRONMENTAL  
PROTECTION  
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November 13, 2000

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Merritt  
11/27/2000  
(Signature)

QUARTERLY GROUNDWATER MONITORING REPORT  
OCTOBER 2000 GROUNDWATER SAMPLING  
ASE JOB NO. 3411  
at  
Hutch's Carwash  
17945 Hesperian Boulevard  
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 October 2000 quarterly groundwater sampling at the Hutch's Carwash property located at 17945 Hesperian Boulevard in San Lorenzo, California (Figures 1 and 2).

## 2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On October 25, 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 hydrocarbons or sheen. No free-floating hydrocarbons or sheen were observed in any of the 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 0.002-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	35.00	15.58	19.42
	01-13-00		15.58	19.42
	04-12-00		14.75	20.25
	07-19-00		15.29	19.71
	10-25-00		15.56	19.44
MW-2	10-06-99	35.21	15.84	19.37
	01-13-00		15.78	19.43
	04-12-00		14.94	20.27
	07-19-00		15.54	19.67
	10-25-00		15.81	19.40
MW-3	10-06-99	34.47	14.98	19.49
	01-13-00		14.98	19.49
	04-12-00		14.09	20.38
	07-19-00		14.70	19.77
	10-25-00		14.98	19.49

## 3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

On October 25, 2000, ASE associate geologist Ian Reed collected groundwater samples from all three site monitoring wells for analysis. No

free-floating hydrocarbons or sheen were present on the surface of groundwater in any of the monitoring wells. However, hydrocarbon odors were present in water purged from monitoring well MW-1. 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 were decanted from the bailers into 40-ml volatile organic analysis (VOA) vials, preserved with hydrochloric acid, 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. 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 and benzene, toluene, ethyl benzene, and total xylenes (collectively known as BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8020. The analytical results are tabulated in Table Two, and copies of the certified analytical report and chain of custody form are included in Appendix B.

**TABLE TWO**  
**Certified Analytical Results of GROUNDWATER Samples**  
**All results are in parts per billion**

Well	Date Sampled	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
MW-1	10-06-99	1,500	3.3	2.3	27	72	120
	01-13-00	1,500	15	19	19	33	650
	04-12-00	1,700	18	13	45	79	2,600
	07-19-00	2,200	31	< 5.0	81	100	2,000
	<b>10-25-00</b>	<b>3,300</b>	<b>20</b>	<b>&lt; 5.0</b>	<b>9.8</b>	<b>9.4</b>	<b>3,300</b>
MW-2	10-06-99	< 50	< 0.5	< 0.5	< 0.5	< 0.5	18
	01-13-00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	16
	04-12-00	< 100	< 1.0	< 1.0	< 1.0	< 1.0	240
	07-19-00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	<b>10-25-00</b>	<b>&lt; 50</b>	<b>&lt; 0.5</b>	<b>&lt; 0.5</b>	<b>&lt; 0.5</b>	<b>&lt; 0.5</b>	<b>6.0</b>
MW-3	10-06-99	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	01-13-00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	04-12-00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	07-19-00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	<b>10-25-00</b>	<b>&lt; 50</b>	<b>&lt; 0.5</b>	<b>&lt; 0.5</b>	<b>&lt; 0.5</b>	<b>&lt; 0.5</b>	<b>&lt; 5.0</b>
DHS MCL		NE	1	150	700	1,750	13

**Notes:**

Most recent concentrations are in bold.

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

DHS MCL = California Department of Health Services maximum contaminant level for drinking water

NE = DHS MCL not established

#### **4.0 CONCLUSIONS AND RECOMMENDATIONS**

The groundwater samples collected from monitoring well MW-1 contained 3,300 parts per billion (ppb) TPH-G, 20 ppb benzene, 9.8 ppb ethyl benzene, 9.4 ppb total xylenes, and 3,300 ppb MTBE. The groundwater samples collected from monitoring well MW-2 contained 6 ppb MTBE. No hydrocarbons were detected above laboratory reporting limits in groundwater samples collected from monitoring well MW-3.

The benzene and MTBE concentrations in groundwater samples collected from monitoring well MW-1 exceeded the California Department of Health Services (DHS) maximum contaminant level (MCL) for drinking water.

The analytical results this quarter are similar to last quarter's results with only a slight increase in MTBE concentrations in groundwater samples collected from monitoring well MW-1.

ASE recommends that this site remain on a quarterly groundwater monitoring program. Based on this sampling schedule, the next sampling is scheduled for January 2001.

ASE also recommends that monitoring well MW-3 be removed from the quarterly monitoring program since no hydrocarbons have been detected in that well and since it is located upgradient of the abandoned tanks.

#### **5.0 REPORT LIMITATIONS**

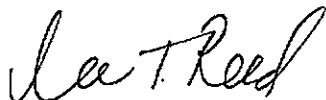
The results of this assessment represent conditions at the time of groundwater sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory.

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.

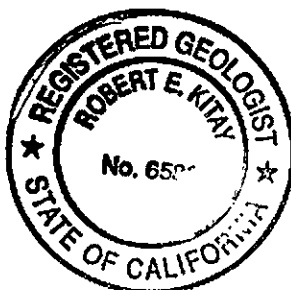
Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

Respectfully submitted, -

AQUA SCIENCE ENGINEERS, INC.



Ian T. Reed.  
Associate Geologist



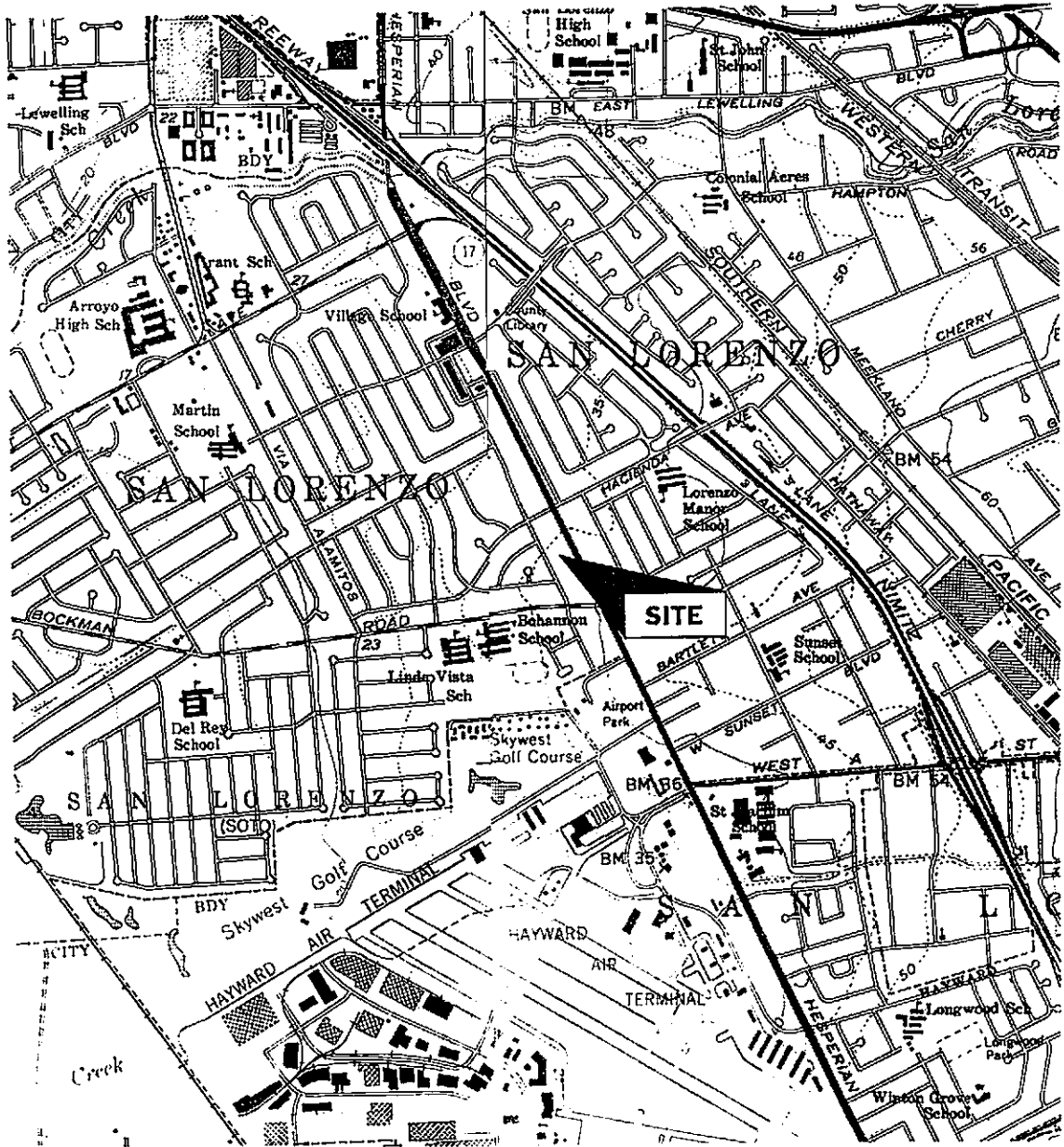
Robert E. Kitay, R.G., R.E.A.  
Senior Geologist

Attachments: Figures 1 and 2  
Appendices A and B

cc: Mr. Kirk Hutchison, Hutch's Car Wash  
Mr. Scott Seery, Alameda County Health Care Services Agency  
Mr. Chuck Headlee, California Regional Water Quality Control Board



NORTH  
NOT TO SCALE

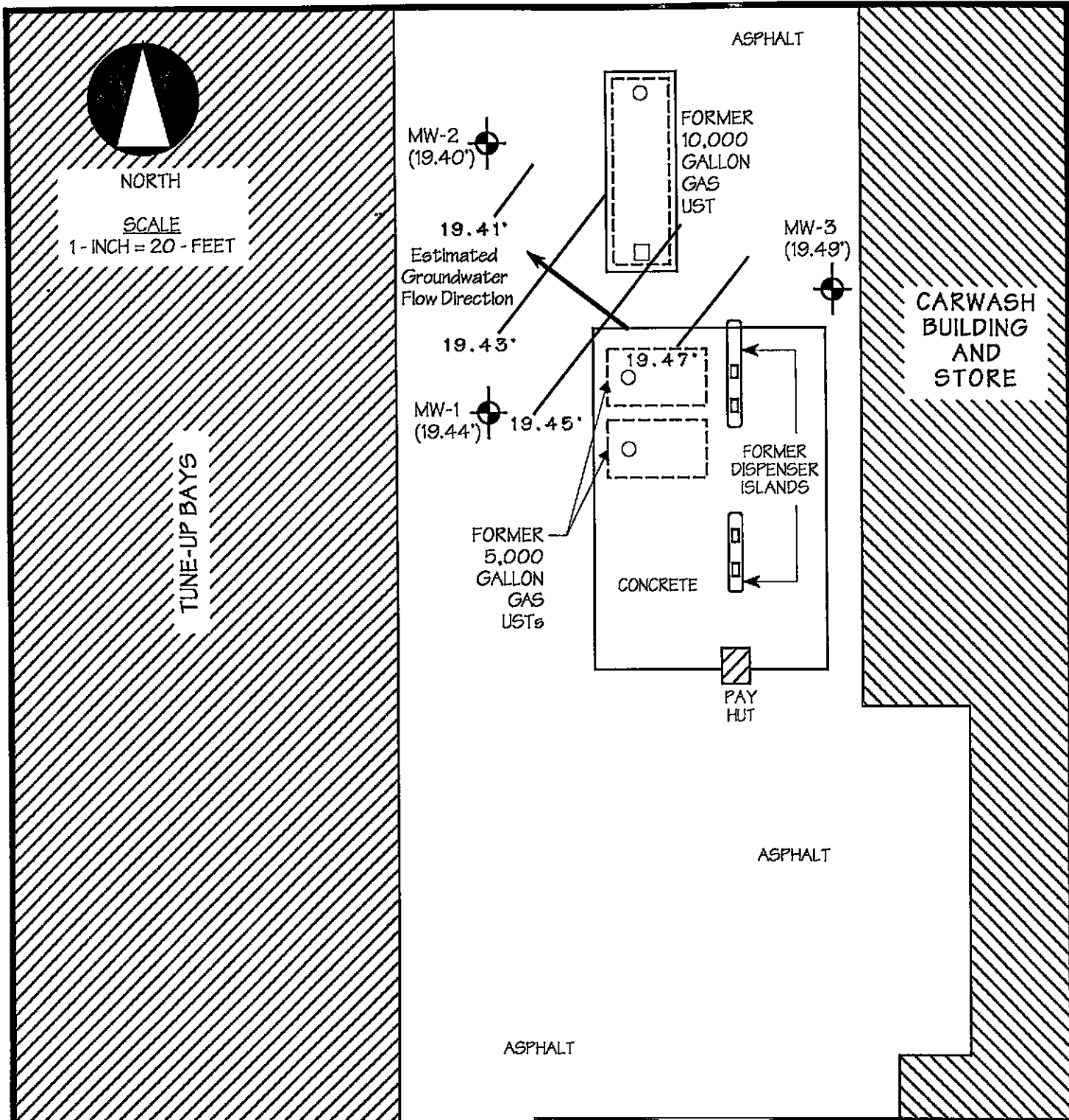


# LOCATION MAP

Hutch's Carwash  
17945 Hesperian Boulevard  
San Lorenzo, California

AQUA SCIENCE ENGINEERS, INC.

Figure 1



**LEGEND**

- 
 MW-1 (19.44') Monitoring well with groundwater elevation
- 
 Groundwater elevation contour

<b>GROUNDWATER ELEVATION CONTOUR MAP - 10/25/00</b>	
HUTCH'S CARWASH 17945 HESPERIAN BOULEVARD SAN LORENZO, CALIFORNIA	
AQUA SCIENCE ENGINEERS, INC.	FIGURE 2



# **APPENDIX A**

Well Sampling Field Logs



# WELL SAMPLING FIELD LOG

Project Name and Address: Hutch's Car Wash  
 Job #: 3411 Date of sampling: 6/25  
 Well Name: MW-1 Sampled by: ITR  
 Total depth of well (feet): 26.68 Well diameter (inches): 2"  
 Depth to water before sampling (feet): 15.56  
 Thickness of floating product if any: —  
 Depth of well casing in water (feet): 11.12  
 Number of gallons per well casing volume (gallons): 1.9  
 Number of well casing volumes to be removed: 9  
 Req'd volume of groundwater to be purged before sampling (gallons): 8  
 Equipment used to purge the well: ded. bailer  
 Time Evacuation Began: 1400 Time Evacuation Finished: 1415  
 Approximate volume of groundwater purged: 8  
 Did the well go dry?: NO After how many gallons: —  
 Time samples were collected: 1420  
 Depth to water at time of sampling: 16.97  
 Percent recovery at time of sampling: \_\_\_\_\_  
 Samples collected with: ded. bailer  
 Sample color: clear/bean Odor: v. slight HC odor  
 Description of sediment in sample: cl silt

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity (µS)
<u>1</u>	<u>21.0</u>	<u>7.01</u>	<u>21</u>
<u>2</u>	<u>21.6</u>	<u>7.01</u>	<u>21</u>
<u>3</u>	<u>21.3</u>	<u>7.02</u>	<u>21</u>
<u>4</u>	<u>21.4</u>	<u>7.02</u>	<u>22</u>

## SAMPLES COLLECTED

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



# WELL SAMPLING FIELD LOG

Project Name and Address: Hutch's Car Wash  
 Job #: 3411 Date of sampling: 10/25/00  
 Well Name: MW-2 Sampled by: ITR  
 Total depth of well (feet): 25.56 Well diameter (inches): 20  
 Depth to water before sampling (feet): 15.81  
 Thickness of floating product if any: -  
 Depth of well casing in water (feet): 9.75  
 Number of gallons per well casing volume (gallons): 1.7  
 Number of well casing volumes to be removed: 4  
 Req'd volume of groundwater to be purged before sampling (gallons): 6.8  
 Equipment used to purge the well: ded. bailer  
 Time Evacuation Began: 1340 Time Evacuation Finished: 1350  
 Approximate volume of groundwater purged: 6.8  
 Did the well go dry?: NO After how many gallons: -  
 Time samples were collected: 1355  
 Depth to water at time of sampling: 16.74  
 Percent recovery at time of sampling: -  
 Samples collected with: ded. bailer  
 Sample color: clear/brown Odor: v. slight H Cedar  
 Description of sediment in sample: f. silt and f. sand.

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity (µS)
<u>1</u>	<u>19.8</u>	<u>7.13</u>	<u>20</u>
<u>2</u>	<u>19.9</u>	<u>7.12</u>	<u>20</u>
<u>3</u>	<u>19.9</u>	<u>7.12</u>	<u>21</u>
<u>4</u>	<u>19.8</u>	<u>7.13</u>	<u>21</u>

## SAMPLES COLLECTED

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



# WELL SAMPLING FIELD LOG

Project Name and Address: Hutch's Car Wash  
 Job #: 3411 Date of sampling: 10/25/00  
 Well Name: MW-3 Sampled by: TR  
 Total depth of well (feet): 26.94 Well diameter (inches): 24  
 Depth to water before sampling (feet): 14.98  
 Thickness of floating product if any: -  
 Depth of well casing in water (feet): 11.96  
 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: 1320 Time Evacuation Finished: 1330  
 Approximate volume of groundwater purged: 8  
 Did the well go dry?: NO After how many gallons: -  
 Time samples were collected: 1335  
 Depth to water at time of sampling: 15.74  
 Percent recovery at time of sampling: -  
 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 (µs)
<u>1</u>	<u>24.0</u>	<u>7.31</u>	<u>17</u>
<u>2</u>	<u>24.1</u>	<u>7.29</u>	<u>16</u>
<u>3</u>	<u>24.3</u>	<u>7.28</u>	<u>14</u>
<u>4</u>	<u>24.2</u>	<u>7.28</u>	<u>17</u>

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-3</u>	<u>3</u>	<u>40ml VOA</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
			<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: 3411  
Hutch's Car Wash

Site: 17945 Hesperion Blvd.  
San Lorenzo, CA

Dear Mr. Reed,

Attached is our report for your samples received on Wednesday October 25, 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 December 9, 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 #: 2000-10-0517

## 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 #: 3411

Project: Hutch's Car Wash

Site: 17945 Hesperion Blvd.  
San Lorenzo, CA

## Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	10/25/2000 14:20	1
MW-2	Water	10/25/2000 13:55	2
MW-3	Water	10/25/2000 13:35	3

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0517

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: 2000-10-0517-001
Project: 3411 Hutch's Car Wash	Received: 10/25/2000 14:30
Site: 17945 Hesperion Blvd. San Lorenzo, CA	Extracted: 11/01/2000 11:42
Sampled: 10/25/2000 14:20	QC-Batch: 2000/10/31-01.02 2000/11/01-01.02
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	3300	2500	ug/L	50.00	11/01/2000 11:42	g
Benzene	20	5.0	ug/L	10.00	10/31/2000 20:14	
Toluene	ND	5.0	ug/L	10.00	10/31/2000 20:14	
Ethyl benzene	9.8	5.0	ug/L	10.00	10/31/2000 20:14	
Xylene(s)	9.4	5.0	ug/L	10.00	10/31/2000 20:14	
MTBE	3300	250	ug/L	50.00	11/01/2000 11:42	
<b>Surrogate(s)</b>						
Trifluorotoluene	82.1	58-124	%	1.00	10/31/2000 20:14	
4-Bromofluorobenzene-FID	84.0	50-150	%	1.00	11/01/2000 11:42	

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



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0517

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:	2000-10-0517-002
Project:	3411 Hutch's Car Wash	Received:	10/25/2000 14:30
Site:	17945 Hesperion Blvd. San Lorenzo, CA	Extracted:	11/01/2000 00:24
Sampled:	10/25/2000 13:55	QC-Batch:	2000/10/31-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	11/01/2000 00:24	
Benzene	ND	0.50	ug/L	1.00	11/01/2000 00:24	
Toluene	ND	0.50	ug/L	1.00	11/01/2000 00:24	
Ethyl benzene	ND	0.50	ug/L	1.00	11/01/2000 00:24	
Xylene(s)	ND	0.50	ug/L	1.00	11/01/2000 00:24	
MTBE	6.0	5.0	ug/L	1.00	11/01/2000 00:24	
<b>Surrogate(s)</b>						
Trifluorotoluene	87.7	58-124	%	1.00	11/01/2000 00:24	
4-Bromofluorobenzene-FID	84.6	50-150	%	1.00	11/01/2000 00:24	

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

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0517

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: 2000-10-0517-003
Project: 3411 Hutch's Car Wash	Received: 10/25/2000 14:30
Site: 17945 Hesperion Blvd. San Lorenzo, CA	Extracted: 11/01/2000 12:13
Sampled: 10/25/2000 13:35	QC-Batch: 2000/11/01-01.02
Matrix: Water	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	11/01/2000 12:13	
Benzene	ND	0.50	ug/L	1.00	11/01/2000 12:13	
Toluene	ND	0.50	ug/L	1.00	11/01/2000 12:13	
Ethyl benzene	ND	0.50	ug/L	1.00	11/01/2000 12:13	
Xylene(s)	ND	0.50	ug/L	1.00	11/01/2000 12:13	
MTBE	ND	5.0	ug/L	1.00	11/01/2000 12:13	
<b>Surrogate(s)</b>						
Trifluorotoluene	109.1	58-124	%	1.00	11/01/2000 12:13	
4-Bromofluorobenzene-FID	87.0	50-150	%	1.00	11/01/2000 12:13	

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

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0517

To: Aqua Science Engineers, Inc.

Test Method: 8015M  
8020  
8021B

Attn.: Ian T. Reed

Prep Method: 5030

## Batch QC Report Gas/BTEX and MTBE

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2000/10/31-01.02</b>
MB: 2000/10/31-01.02-001		Date Extracted: 10/31/2000 06:41

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	10/31/2000 06:41	
Benzene	ND	0.5	ug/L	10/31/2000 06:41	
Toluene	ND	0.5	ug/L	10/31/2000 06:41	
Ethyl benzene	ND	0.5	ug/L	10/31/2000 06:41	
Xylene(s)	ND	0.5	ug/L	10/31/2000 06:41	
MTBE	ND	5.0	ug/L	10/31/2000 06:41	
<b>Surrogate(s)</b>					
Trifluorotoluene	79.8	58-124	%	10/31/2000 06:41	
4-Bromofluorobenzene-FID	80.8	50-150	%	10/31/2000 06:41	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0517

To: Aqua Science Engineers, Inc.

Test Method: 8015M  
8020  
8021B

Attn.: Ian T. Reed

Prep Method: 5030

## Batch QC Report Gas/BTEX and MTBE

Method Blank	Water	QC Batch # 2000/11/01-01.02
MB: 2000/11/01-01.02-001		Date Extracted: 11/01/2000 05:56

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	11/01/2000 05:56	
Benzene	ND	0.5	ug/L	11/01/2000 05:56	
Toluene	ND	0.5	ug/L	11/01/2000 05:56	
Ethyl benzene	ND	0.5	ug/L	11/01/2000 05:56	
Xylene(s)	ND	0.5	ug/L	11/01/2000 05:56	
MTBE	ND	5.0	ug/L	11/01/2000 05:56	
<b>Surrogate(s)</b>					
Trifluorotoluene	81.6	58-124	%	11/01/2000 05:56	
4-Bromofluorobenzene-FID	82.8	50-150	%	11/01/2000 05:56	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0517

To: Aqua Science Engineers, Inc.

Test Method: 8015M  
8020  
8021B

Attn: Ian T. Reed

Prep Method: 5030

## Batch QC Report

Gas/BTEX and MTBE

### Laboratory Control Spike (LCS/LCSD)

### Water

### QC Batch # 2000/10/31-01.02

LCS: 2000/10/31-01.02-002

Extracted: 10/31/2000 07:12

Analyzed 10/31/2000 07:12

LCSD: 2000/10/31-01.02-003

Extracted: 10/31/2000 07:43

Analyzed 10/31/2000 07:43

Compound	Conc. [ ug/L ]		Exp. Conc. [ ug/L ]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	490	499	500	500	98.0	99.8	1.8	75-125	20		
Benzene	103	102	100.0	100.0	103.0	102.0	1.0	77-123	20		
Toluene	99.7	99.8	100.0	100.0	99.7	99.8	0.1	78-122	20		
Ethyl benzene	92.3	98.6	100.0	100.0	92.3	98.6	6.6	70-130	20		
Xylene(s)	268	287	300	300	89.3	95.7	6.9	75-125	20		
<b>Surrogate(s)</b>											
Trifluorotoluene	434	416	500	500	86.8	83.2		58-124			
4-Bromofluorobenzene-FI	445	457	500	500	89.0	91.4		50-150			

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0517

To: Aqua Science Engineers, Inc.

Test Method: 8015M  
8020  
8021B

Attn: Ian T. Reed

Prep Method: 5030

## Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2000/11/01-01.02
LCS: 2000/11/01-01.02-002	Extracted: 11/01/2000 06:27	Analyzed 11/01/2000 06:27
LCSD: 2000/11/01-01.02-003	Extracted: 11/01/2000 06:58	Analyzed 11/01/2000 06:58

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	499	518	500	500	99.8	103.6	3.7	75-125	20		
Benzene	107	102	100.0	100.0	107.0	102.0	4.8	77-123	20		
Toluene	103	97.4	100.0	100.0	103.0	97.4	5.6	78-122	20		
Ethyl benzene	94.8	90.6	100.0	100.0	94.8	90.6	4.5	70-130	20		
Xylene(s)	274	264	300	300	91.3	88.0	3.7	75-125	20		
<b>Surrogate(s)</b>											
Trifluorotoluene	440	403	500	500	88.0	80.6		58-124			
4-Bromofluorobenzene-Fl	448	459	500	500	89.6	91.8		50-150			

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-10-0517

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

2000-10-0517

VJ312

PAGE 1 OF 1

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

PROJECT NAME HUTCH'S CAR WASH JOB NO. 3411  
 ADDRESS 17945 Hesperian Blvd. San Lorenzo 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)	LUFT METALS (5) (EPA 6010+7000)	CAM 17 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
MU-2	10/25	1355	water	3	X																
MU-3	10/25	1335	water	3	X																

RELINQUISHED BY: <u>Ian Reed</u> 1430 (signature) (time)	RECEIVED BY:  (signature) (time)	RELINQUISHED BY:  (signature) (time)	RECEIVED BY LABORATORY: <u>Epstein</u> 14:30 (signature) (time)	COMMENTS:  TURN AROUND TIME STANDARD 24H 48H 72H OTHER: <u>24 hrs</u>
<u>Ian T. Reed</u> 10/25/00 (printed name) (date)	 (printed name) (date)	 (printed name) (date)	<u>Epstein</u> 10/25/00 (printed name) (date)	
Company- <u>ASE</u>	Company-	Company-	Company- <u>M</u>	