



MAY 1, 2001

ST10 130

Neuman  
5/15/01  
*(Signature)*

MAY 07 2001

QUARTERLY GROUNDWATER MONITORING REPORT  
APRIL 2001 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 April 2001 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 April 4, 2001, ASE associate geologist Erik Paddleford 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
	01-16-01		15.22	19.78
	<b>04-04-01</b>		<b>15.05</b>	<b>19.95</b>
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
	01-16-01		15.50	19.71
	<b>04-04-01</b>		<b>15.28</b>	<b>19.93</b>
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
	01-16-01		14.58	19.89
	<b>04-04-01</b>		<b>14.43</b>	<b>20.04</b>

### 3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

On April 4, 2001, ASE associate geologist Erik Paddleford collected groundwater samples from monitoring wells MW-1 and MW-2 for analysis. Monitoring well MW-3 was not sampled this quarter because hydrocarbons have not been detected since its installation. No free-floating hydrocarbons or sheen was present in any of the groundwater monitoring wells. 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, and stored on ice for transport to Chromalab, Inc. of Pleasanton, California under appropriate chain of custody documentation. 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
	10-25-00	3,300	20	< 5.0	9.8	9.4	3,300
	01-16-01	4,100	34	14	60	120	1,300
	<b>04-04-01</b>	<b>2,900</b>	<b>14</b>	<b>&lt; 0.5</b>	<b>34</b>	<b>32</b>	<b>2,000</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
	10-25-00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	6.0
	01-16-01	< 50	< 0.5	< 0.5	< 0.5	< 0.5	8.2
	<b>04-04-01</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>
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
	10-25-00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	01-16-01	Not	Sampled				
	<b>04-04-01</b>	<b>Not</b>	<b>Sampled</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 2,900 parts per billion (ppb) TPH-G, 14 ppb benzene, 34 ppb ethyl benzene, 32 ppb total xylenes, and 2,000 ppb MTBE. No hydrocarbons were detected in samples collected from monitoring well MW-2 this quarter. Monitoring well MW-3 was not sampled this quarter because hydrocarbons have not been detected since its installation.

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

The MTBE concentrations in groundwater samples collected from monitoring well MW-1 increased from the previous quarter's results while the TPH-G, benzene, ethylbenzene, and total xylene concentrations decreased. There is no consistent increasing or decreasing trends in hydrocarbon concentrations at the site.

ASE recommends that this site remain on a quarterly groundwater monitoring program. The next sampling period is scheduled for July 2001.

#### **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.

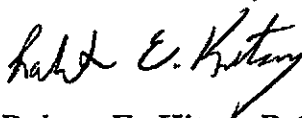
Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

Respectfully submitted,

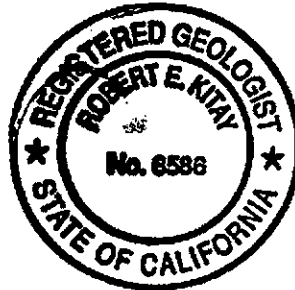
AQUA SCIENCE ENGINEERS, INC.



Erik H. Paddleford  
Associate Geologist



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

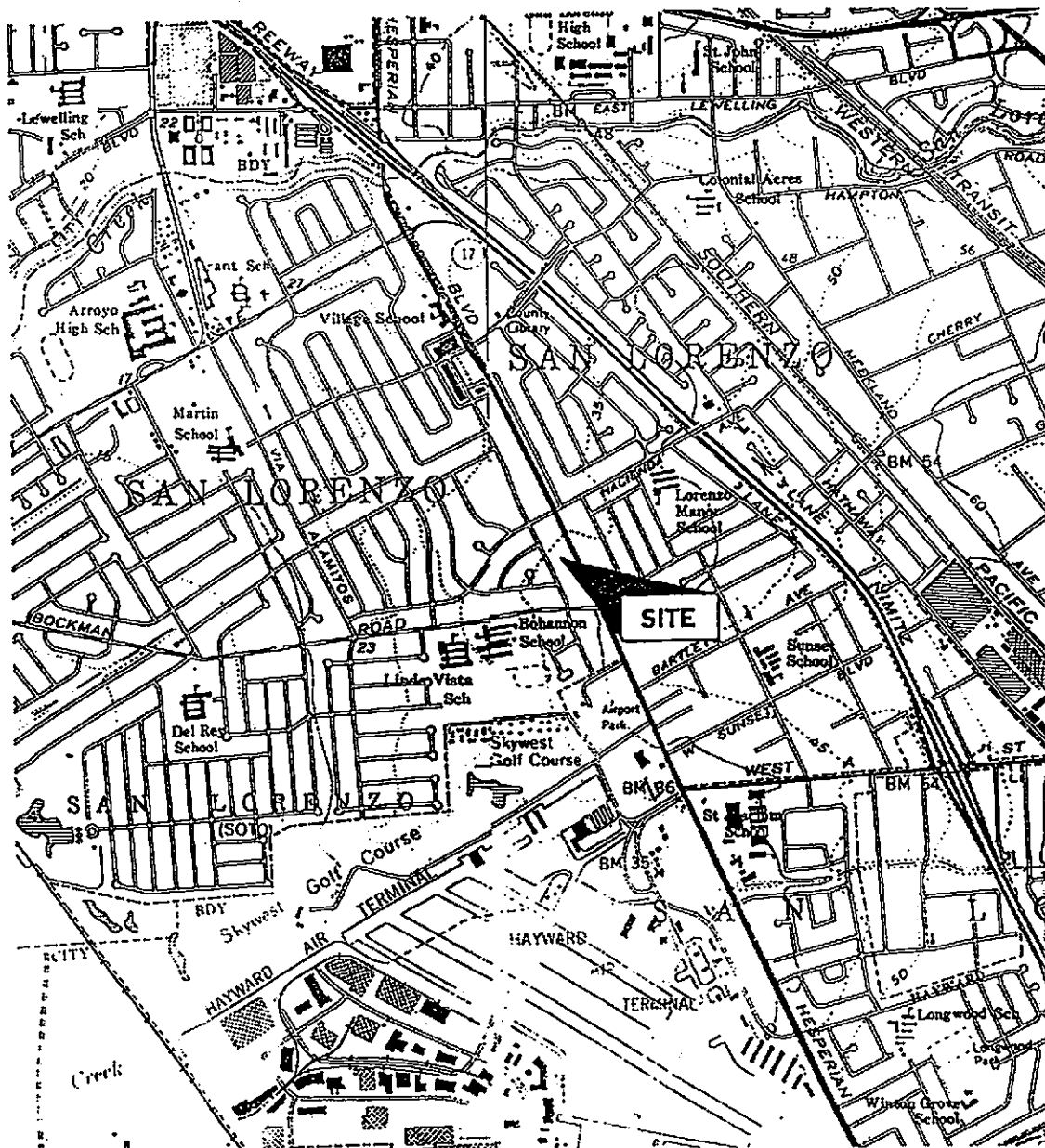


Attachments: Figures 1 and 2  
Appendices A and B

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



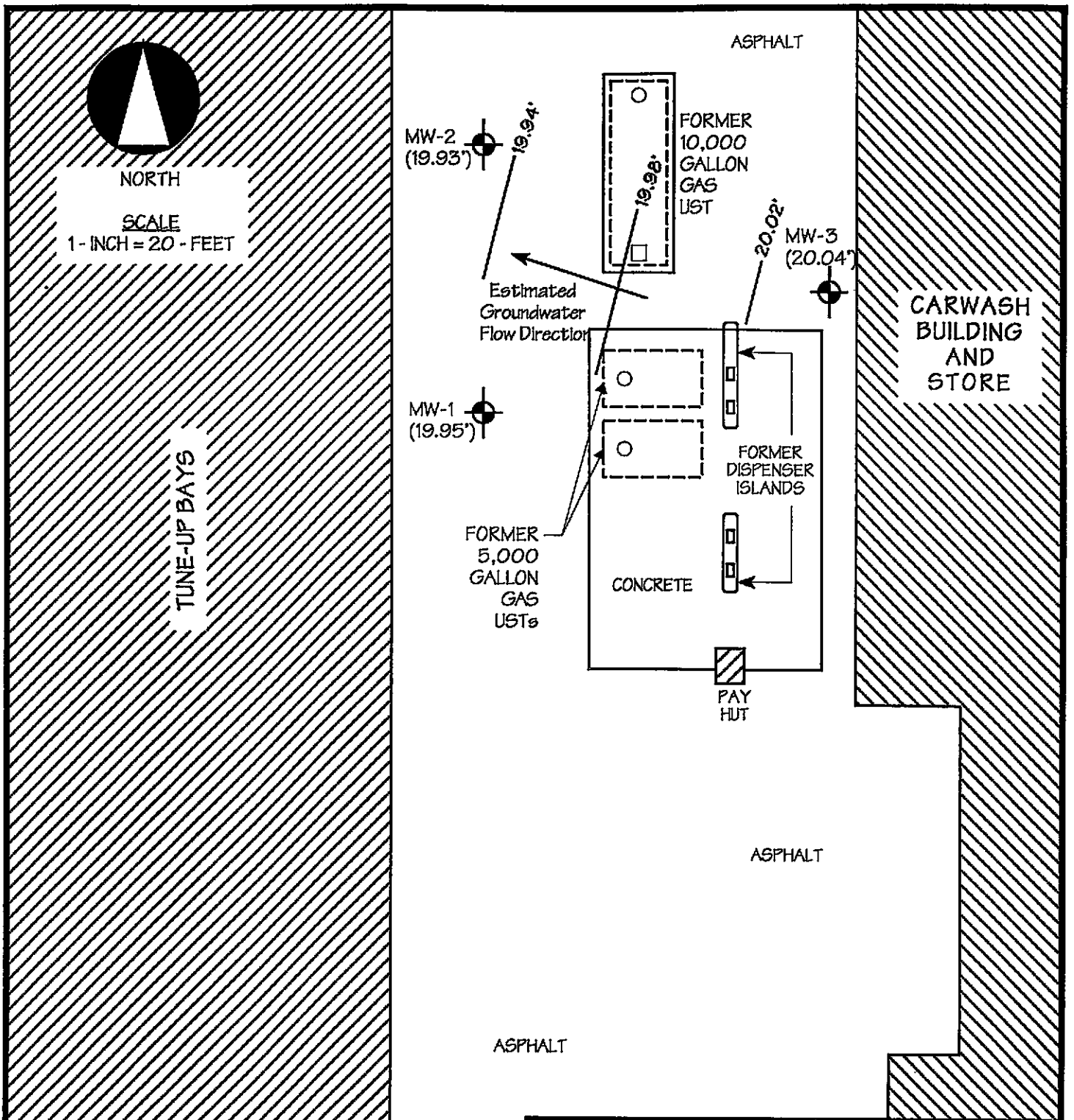
NORTH  
NOT TO SCALE



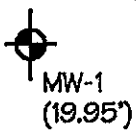
# LOCATION MAP

Hutch's Carwash  
17945 Hesperian Boulevard  
San Lorenzo, California

AQUA SCIENCE ENGINEERS, INC. Figure 1



**LEGEND**



Monitoring well with  
groundwater elevation



Groundwater elevation  
contour

**GROUNDWATER ELEVATION  
CONTOUR MAP - 4/4/01**

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: Hatch's Cor Wash  
 Job #: 3411 Date of sampling: 4/4/01  
 Well Name: MV-1 Sampled by: EP  
 Total depth of well (feet): 26.68 Well diameter (inches): 2  
 Depth to water before sampling (feet): 15.05  
 Thickness of floating product if any: -  
 Depth of well casing in water (feet): 11.63  
 Number of gallons per well casing volume (gallons): 1.9  
 Number of well casing volumes to be removed: 4  
 Req'd volume of groundwater to be purged before sampling (gallons): 8  
 Equipment used to purge the well: bailer  
 Time Evacuation Began: 1055 Time Evacuation Finished: 1120  
 Approximate volume of groundwater purged: 8  
 Did the well go dry?: no After how many gallons: -  
 Time samples were collected: 1130  
 Depth to water at time of sampling: -  
 Percent recovery at time of sampling: 790%  
 Samples collected with: bailer  
 Sample color: gray / clear Odor: none  
 Description of sediment in sample: Silt

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>20.0</u>	<u>8.29</u>	<u>1</u>
<u>2</u>	<u>20.1</u>	<u>8.21</u>	<u>1</u>
<u>3</u>	<u>19.8</u>	<u>8.25</u>	<u>1</u>
<u>4</u>	<u>19.8</u>	<u>8.26</u>	<u>1</u>

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MV-1</u>	<u>3</u>	<u>40 ml VOA</u>	<u>X</u>	<u>X</u>	



# WELL SAMPLING FIELD LOG

Project Name and Address: Hutch's Car Wash  
 Job #: 3411 Date of sampling: 4/4/01  
 Well Name: MW-2 Sampled by: EP  
 Total depth of well (feet): 25.56 Well diameter (inches): 2  
 Depth to water before sampling (feet): 15.28  
 Thickness of floating product if any: -  
 Depth of well casing in water (feet): 10.28  
 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: bailer  
 Time Evacuation Began: 1020 Time Evacuation Finished: 1035  
 Approximate volume of groundwater purged: 7  
 Did the well go dry?: No After how many gallons: -  
 Time samples were collected: 1045  
 Depth to water at time of sampling: 15.39  
 Percent recovery at time of sampling: 99%  
 Samples collected with: bailer  
 Sample color: clear/brown Odor: none  
 Description of sediment in sample: silt

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>20.0</u>	<u>8.03</u>	<u>1</u>
<u>2</u>	<u>20.1</u>	<u>8.01</u>	<u>1</u>
<u>3</u>	<u>19.8</u>	<u>7.98</u>	<u>0</u>
<u>4</u>	<u>19.7</u>	<u>8.02</u>	<u>1</u>

## SAMPLES COLLECTED

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



# WELL SAMPLING FIELD LOG

Project Name and Address: Hutch's Car Wash  
 Job #: 3411 Date of sampling: 4/4/02  
 Well Name: MW-3 Sampled by: EP  
 Total depth of well (feet): 26.68 (EP) Well diameter (inches): 2  
 Depth to water before sampling (feet): 14.43  
 Thickness of floating product if any: \_\_\_\_\_  
 Depth of well casing in water (feet): \_\_\_\_\_  
 Number of gallons per well casing volume (gallons): \_\_\_\_\_  
 Number of well casing volumes to be removed: \_\_\_\_\_  
 Req'd volume of groundwater to be purged before sampling (gallons): \_\_\_\_\_  
 Equipment used to purge the well: \_\_\_\_\_  
 Time Evacuation Began: \_\_\_\_\_ Time Evacuation Finished: \_\_\_\_\_  
 Approximate volume of groundwater purged: \_\_\_\_\_  
 Did the well go dry?: \_\_\_\_\_ After how many gallons: \_\_\_\_\_  
 Time samples were collected: \_\_\_\_\_  
 Depth to water at time of sampling: \_\_\_\_\_  
 Percent recovery at time of sampling: \_\_\_\_\_  
 Samples collected with: \_\_\_\_\_  
 Sample color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Description of sediment in sample: \_\_\_\_\_

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

## **APPENDIX B**

Certified Analytical Report  
and  
Chain of Custody Documentation

**Aqua Science Engineers, Inc.**

208 West El Pintado

Danville, CA 94526

Attn.: Erik Paddleford

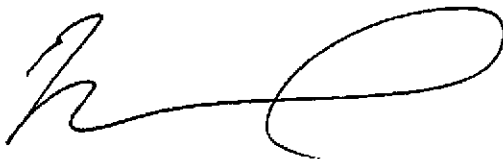
Project: 3411

Hutch's Carwash

Attached is our report for your samples received on Friday April 6, 2001  
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 May 21, 2001  
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

Gas/BTEX and MTBE

<b>Aqua Science Engineers, Inc.</b>	☐ 208 West El Pintado Danville, CA 94526
Attn: Erik Paddleford	Phone: (925) 820-9391 Fax: (925) 837-4853
Project #: 3411	Project: Hutch's Carwash

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	04/04/2001 11:30	1
MW-2	Water	04/04/2001 10:45	2

# STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-04-0167

To: Aqua Science Engineers, Inc.

Test Method: 8020  
8015M

Attn.: Erik Paddleford

Prep Method: 5030

## Gas/BTEX and MTBE

Sample ID: MW-1	Lab Sample ID: 2001-04-0167-001
Project: 3411 Hutch's Carwash	Received: 04/06/2001 18:38
Sampled: 04/04/2001 11:30	Extracted: 04/11/2001 11:47
Matrix: Water	QC-Batch: 2001/04/11-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	2900	1000	ug/L	20.00	04/11/2001 11:47	g
Benzene	14	10	ug/L	20.00	04/11/2001 11:47	
Toluene	ND	10	ug/L	20.00	04/11/2001 11:47	
Ethyl benzene	34	10	ug/L	20.00	04/11/2001 11:47	
Xylene(s)	32	10	ug/L	20.00	04/11/2001 11:47	
MTBE	2000	100	ug/L	20.00	04/11/2001 11:47	
<b>Surrogate(s)</b>						
Trifluorotoluene	100.0	58-124	%	20.00	04/11/2001 11:47	
4-Bromofluorobenzene-FID	83.5	50-150	%	20.00	04/11/2001 11:47	

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

Printed on: 04/11/2001 14:31

Page 2 of 10



# STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-04-0167

To: Aqua Science Engineers, Inc.

Test Method: 8020  
8015M

Attn.: Erik Paddleford

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: MW-2	Lab Sample ID: 2001-04-0167-002
Project: 3411 Hutch's Carwash	Received: 04/06/2001 18:38
Sampled: 04/04/2001 10:45	Extracted: 04/10/2001 13:17
Matrix: Water	QC-Batch: 2001/04/10-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/10/2001 13:17	
Benzene	ND	0.50	ug/L	1.00	04/10/2001 13:17	
Toluene	ND	0.50	ug/L	1.00	04/10/2001 13:17	
Ethyl benzene	ND	0.50	ug/L	1.00	04/10/2001 13:17	
Xylene(s)	ND	0.50	ug/L	1.00	04/10/2001 13:17	
MTBE	ND	5.0	ug/L	1.00	04/10/2001 13:17	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	116.3	50-150	%	1.00	04/10/2001 13:17	
4-Bromofluorobenzene-FID	95.9	50-150	%	1.00	04/10/2001 13:17	

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

# STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-04-0167

To: Aqua Science Engineers, Inc.

Test Method: 8015M

8020

Attn.: Erik Paddleford

Prep Method: 5030

## Batch QC Report Gas/BTEX and MTBE

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2001/04/10-01.03</b>
MB: 2001/04/10-01.03-008		Date Extracted: 04/10/2001 11:05

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	04/10/2001 11:05	
Benzene	ND	0.5	ug/L	04/10/2001 11:05	
Toluene	ND	0.5	ug/L	04/10/2001 11:05	
Ethyl benzene	ND	0.5	ug/L	04/10/2001 11:05	
Xylene(s)	ND	0.5	ug/L	04/10/2001 11:05	
MTBE	ND	5.0	ug/L	04/10/2001 11:05	
<b>Surrogate(s)</b>					
Trifluorotoluene	123.6	58-124	%	04/10/2001 11:05	
4-Bromofluorobenzene-FID	94.8	50-150	%	04/10/2001 11:05	

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

# STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-04-0167

To: Aqua Science Engineers, Inc.

Test Method: 8015M  
8020

Attn.: Erik Paddleford

Prep Method: 5030

## Batch QC Report Gas/BTEX and MTBE

<b>Method Blank</b>	<b>Water</b>	<b>QC Batch # 2001/04/11-01.03</b>
MB: 2001/04/11-01.03-003		Date Extracted: 04/11/2001 08:35

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	04/11/2001 08:35	
Benzene	ND	0.5	ug/L	04/11/2001 08:35	
Toluene	ND	0.5	ug/L	04/11/2001 08:35	
Ethyl benzene	ND	0.5	ug/L	04/11/2001 08:35	
Xylene(s)	ND	0.5	ug/L	04/11/2001 08:35	
MTBE	ND	5.0	ug/L	04/11/2001 08:35	
<b>Surrogate(s)</b>					
Trifluorotoluene	115.2	58-124	%	04/11/2001 08:35	
4-Bromofluorobenzene-FID	84.1	50-150	%	04/11/2001 08:35	

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

To: Aqua Science Engineers, Inc.  
Attn: Erik Paddleford

Test Method: 8020  
Prep Method: 5030

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

<b>Laboratory Control Spike (LCS/LCSD)</b>	<b>Water</b>	<b>QC Batch # 2001/04/10-01.03</b>
LCS: 2001/04/10-01.03-004	Extracted: 04/10/2001 09:02	Analyzed 04/10/2001 09:02
LCSD: 2001/04/10-01.03-005	Extracted: 04/10/2001 09:33	Analyzed 04/10/2001 09:33

Compound	Conc. [ ug/L ]		Exp.Conc. [ ug/L ]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Benzene	93.9	96.6	100.0	100.0	93.9	96.6	2.8	77-123	20		
Toluene	92.6	95.6	100.0	100.0	92.6	95.6	3.2	78-122	20		
Ethyl benzene	92.8	96.3	100.0	100.0	92.8	96.3	3.7	70-130	20		
Xylene(s)	276	290	300	300	92.0	96.7	5.0	75-125	20		
<b>Surrogate(s)</b>											
Trifluorotoluene	464	481	500	500	92.8	96.2		58-124			

To: Aqua Science Engineers, Inc.

Test Method: 8015M  
8020

Attn: Erik Paddleford

Prep Method: 5030

**Batch QC Report**

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2001/04/10-01.03
LCS: 2001/04/10-01.03-006	Extracted: 04/10/2001 10:04	Analyzed 04/10/2001 10:04
LCSD: 2001/04/10-01.03-007	Extracted: 04/10/2001 10:34	Analyzed 04/10/2001 10:34

Compound	Conc. [ ug/L ]		Exp. Conc. [ ug/L ]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	496	522	500	500	99.2	104.4	5.1	75-125	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene-FI	446	453	500	500	89.2	90.6		50-150			

# STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-04-0167

To: Aqua Science Engineers, Inc.

Test Method: 8020

Attn: Erik Paddleford

Prep Method: 5030

## Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2001/04/11-01.03	
LCS:	2001/04/11-01.03-004	Extracted:	04/11/2001 09:05	Analyzed	04/11/2001 09:05
LCSD:	2001/04/11-01.03-005	Extracted:	04/11/2001 09:36	Analyzed	04/11/2001 09:36

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Benzene	98.4	98.6	100.0	100.0	98.4	98.6	0.2	77-123	20		
Toluene	96.7	98.0	100.0	100.0	96.7	98.0	1.3	78-122	20		
Ethyl benzene	96.4	99.2	100.0	100.0	96.4	99.2	2.9	70-130	20		
Xylene(s)	289	299	300	300	96.3	99.7	3.5	75-125	20		
<b>Surrogate(s)</b>											
Trifluorotoluene	513	523	500	500	102.6	104.6		58-124			

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

Printed on: 04/11/2001 14:31

Page 8 of 10

To: Aqua Science Engineers, Inc.

Test Method: 8015M  
8020

Attn: Erik Paddleford

Prep Method: 5030

**Batch QC Report**

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2001/04/11-01.03
LCS: 2001/04/11-01.03-006	Extracted: 04/11/2001 10:07	Analyzed 04/11/2001 10:07
LCSD: 2001/04/11-01.03-007	Extracted: 04/11/2001 10:38	Analyzed 04/11/2001 10:38

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	433	453	500	500	86.6	90.6	4.5	75-125	20		
<b>Surrogate(s)</b>											
4-Bromofluorobenzene-FI	432	446	500	500	86.4	89.2		50-150			

To: Aqua Science Engineers, Inc.

Test Method: 8015M  
8020

Attn: Erik Paddleford

Prep Method: 5030

**Legend & Notes**

Gas/BTEX and MTBE

**Analyte Flags**

g

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



# CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

1220 Quarry Lane • Pleasanton, California 94566-4756  
(925) 484-1919 • Fax (925) 484-1096

2001-04-0167

Reference #: 58503

## Chain of Custody

DATE 4/4/01 PAGE 1 of 1

PROJ. MGR <u>Erik Paddleford</u> COMPANY <u>Agua Science Engineers</u> ADDRESS <u>208 W. El Pintado Rd</u> <u>San Jose CA 94526</u> SAMPLERS (SIGNATURE) <u>[Signature]</u> (PHONE NO.) <u>(925) 820-9391</u> (FAX NO.)	<b>ANALYSIS REPORT</b>														
<input type="checkbox"/> TPH (EPA 8015, 8020) <input checked="" type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> PURGEABLE AROMATICS <input type="checkbox"/> BTEX (EPA 8020)	<input type="checkbox"/> TPH-Diesel (EPA 8015M)	<input type="checkbox"/> TPEH (EPA 8015M) <input type="checkbox"/> Diesel <input type="checkbox"/> M.O. <input type="checkbox"/> Other	<input type="checkbox"/> PURGEABLE HALOCARBONS <input type="checkbox"/> (HVCs) (EPA 8010)	<input type="checkbox"/> VOLATILE ORGANICS <input type="checkbox"/> (VOCs) (EPA 8260)	<input type="checkbox"/> SEMIVOLATILES <input type="checkbox"/> (EPA 8270)	<input type="checkbox"/> TOTAL OIL AND GREASE <input type="checkbox"/> (SM 5520 B+F, E+F)	<input type="checkbox"/> PESTICIDES (EPA 8080) <input type="checkbox"/> PCB'S (EPA 8080)	<input type="checkbox"/> PNA's by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> TSS <input type="checkbox"/> TDS	<input type="checkbox"/> LUFT METALS: <input type="checkbox"/> Cd, Cr, Pb, Ni, Zn	<input type="checkbox"/> CAM 17 METALS <input type="checkbox"/> (EPA 8010/7470/7471)	<input type="checkbox"/> TOTAL LEAD	<input type="checkbox"/> W.X.T. (STLC) <input type="checkbox"/> TCLP	<input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24 hr hold time for H2O)	NUMBER OF CONTAINERS

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH (EPA 8015, 8020)	TPH-Diesel (EPA 8015M)	TPEH (EPA 8015M)	PURGEABLE HALOCARBONS (HVCs) (EPA 8010)	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMIVOLATILES (EPA 8270)	TOTAL OIL AND GREASE (SM 5520 B+F, E+F)	PESTICIDES (EPA 8080)	PNA's by 8270 / 8310	Spec. Cond. / TSS / TDS	LUFT METALS: Cd, Cr, Pb, Ni, Zn	CAM 17 METALS (EPA 8010/7470/7471)	TOTAL LEAD	W.X.T. (STLC) / TCLP	Hexavalent Chromium / pH (24 hr hold time for H2O)	NUMBER OF CONTAINERS	
MV-1	4/4	1130	Water	HCl	X																3
MW-2	4/4	1045	Water	HCl	X																3

<b>PROJECT INFORMATION</b>				<b>SAMPLE RECEIPT</b>				<b>RELINQUISHED BY</b> 1.			<b>RELINQUISHED BY</b> 2.			<b>RELINQUISHED BY</b> 3.		
PROJECT NAME: <u>Hutch's Carwash</u> PROJECT NUMBER: <u>3411</u> P.O. #				TOTAL NO. OF CONTAINERS HEAD SPACE TEMPERATURE <u>3.8°C</u> CONFORMS TO RECORD				(SIGNATURE) <u>[Signature]</u> (TIME) (PRINTED NAME) <u>Erik Paddleford</u> (DATE) (COMPANY) <u>ASE</u>			(SIGNATURE) (TIME) (PRINTED NAME) (DATE) (COMPANY)			(SIGNATURE) <u>[Signature]</u> (TIME) (PRINTED NAME) <u>[Signature]</u> (DATE) (COMPANY) <u>STL-CL</u>		
TAT	STANDARD 5-DAY	24	48	72	OTHER			<b>RECEIVED BY</b> 1.			<b>RECEIVED BY</b> 2.			<b>RECEIVED BY (LABORATORY)</b> 3.		
SPECIAL INSTRUCTIONS/COMMENTS: Report: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input checked="" type="checkbox"/> Electronic Report Email to: <u>epaddleford@agua.scienceengineers.com</u> <u>5 DAY TAT</u>							(SIGNATURE) <u>[Signature]</u> (TIME) <u>1007</u> (PRINTED NAME) <u>[Signature]</u> (DATE) <u>4-6-01</u> (COMPANY) <u>STL-CL</u>			(SIGNATURE) (TIME) (PRINTED NAME) (DATE) (COMPANY)			(SIGNATURE) <u>[Signature]</u> (TIME) (PRINTED NAME) <u>D. Harrington</u> (DATE) <u>1838</u> (LAB) <u>STL-CL 4/6/01</u>			