



October 18, 2001

NOV 13 2001

STUD 730

Handwritten notes:
11/3/01
DW

QUARTERLY GROUNDWATER MONITORING REPORT
OCTOBER 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 October 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 October 1, 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.

The groundwater flow is to the northwest at a gradient of 0.0023-feet/foot. Groundwater elevation (potentiometric surface) contours are plotted on Figure 2.

3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

On October 1, 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 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.

The well sampling purge water was contained in sealed and labeled 55-gallon steel drums. The well sampling field logs are included as Appendix A.

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.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The groundwater samples collected from monitoring well MW-1 contained 1,100 parts per billion (ppb) TPH-G, 4.1 ppb benzene, 18 ppb ethyl benzene, 19 ppb total xylenes, and 520 ppb MTBE. The groundwater samples collected from monitoring well MW-2 contained 21 ppb MTBE. Monitoring well MW-3 was removed from the sampling schedule in January 2001 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.

In general, there appears to be a decreasing trend in hydrocarbon concentrations detected from monitoring well MW-1 since April 2000. The MTBE concentration decreased in groundwater samples collected from monitoring well MW-1 this quarter. The only compound detected in groundwater samples collected from monitoring well MW-2 was MTBE at 21 ppb, which is an increase over most of the previous sampling periods at the site. ASE recommends that this site remain on a quarterly groundwater monitoring program. The next sampling period is scheduled for January 2002.

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.

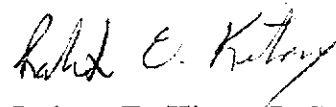
Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

Respectfully submitted,

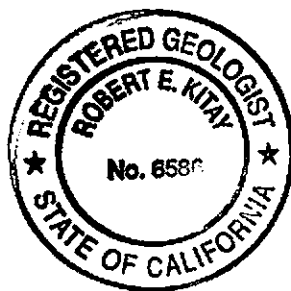
AQUA SCIENCE ENGINEERS, INC.



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

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
	04-04-01		15.05	19.95
	07-06-01		15.49	19.51
	10-01-01		15.78	19.22
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
	04-04-01		15.28	19.93
	07-06-01		15.73	19.48
	10-01-01		16.06	19.15
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
	04-04-01		14.43	20.04
	07-06-01		14.85	19.62
	10-01-01		15.21	19.26

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
	04-04-01	2,900	14	< 0.5	34	32	2,000
	07-06-01	1,300	4.4	< 0.5	12	13	700
	10-01-01	1,100	4.1	< 0.5	18	19	520
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
	04-04-01	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
	07-06-01	< 50	< 0.5	< 0.5	< 0.5	< 0.5	5.9
	10-01-01	< 50	< 0.5	< 0.5	< 0.5	< 0.5	21
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				
	04-04-01	Not	Sampled				
	07-06-01	Not	Sampled				
	10-01-01	Not	Sampled				

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.

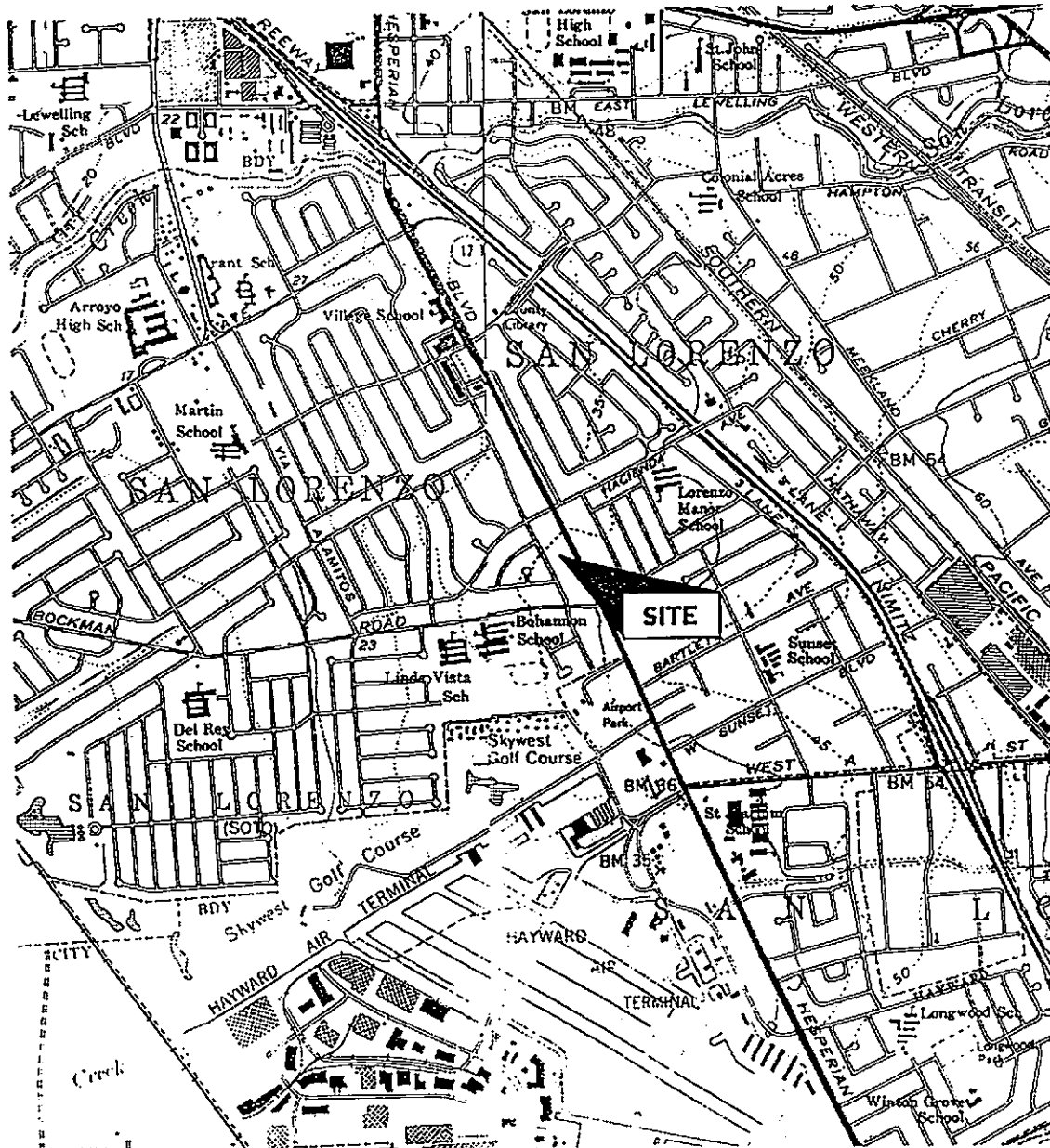
DHS MCL = California Department of Health Services maximum contaminant level for drinking water

NE = DHS MCL not established



NORTH

NOT TO SCALE

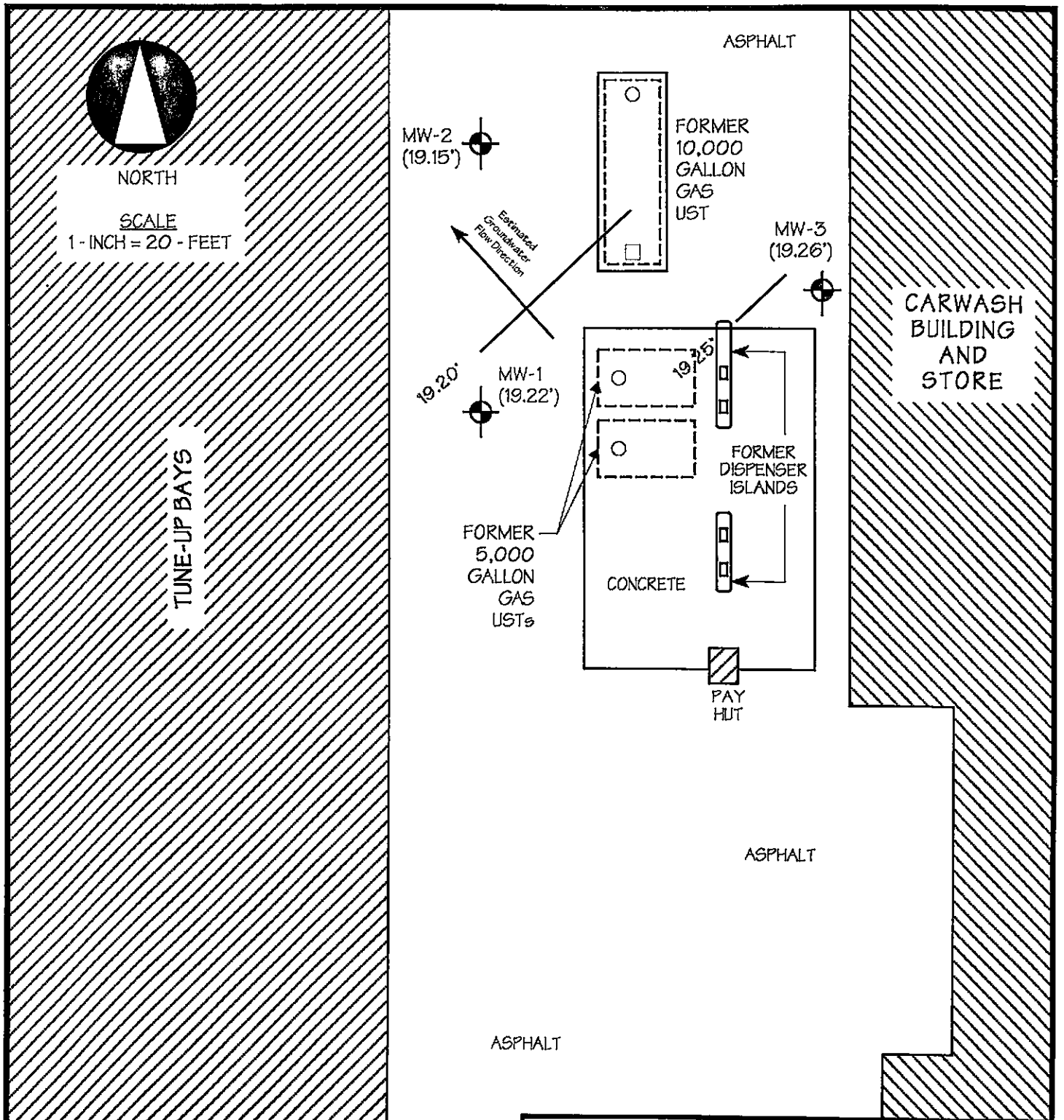


LOCATION MAP

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 - 10/1/01

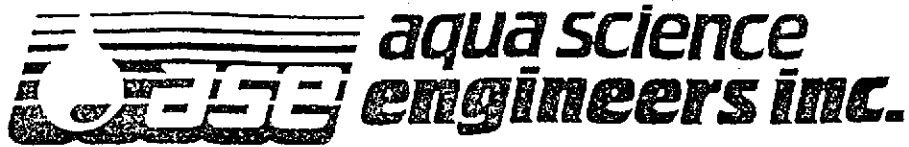
HUTCH'S CARWASH
17945 HESPERIAN BOULEVARD
SAN LORENZO, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC.

FIGURE 2

APPENDIX A

Well Sampling Field Logs



WELL SAMPLING FIELD LOG

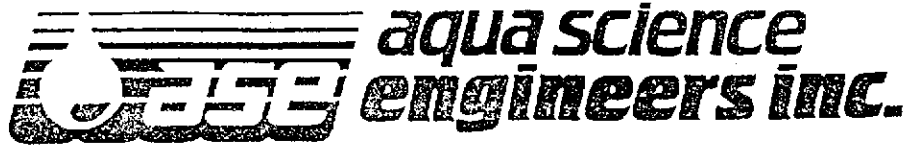
Project Name and Address: Butch's Carwash
 Job #: 3411 Date of sampling: 10/1/01
 Well Name: MW-2 Sampled by: EP
 Total depth of well (feet): 25.56 Well diameter (inches): 2"
 Depth to water before sampling (feet): 16.06
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 9.5
 Number of gallons per well casing volume (gallons): 1.52
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 6
 Equipment used to purge the well: bailer
 Time Evacuation Began: 1200 Time Evacuation Finished: 1213
 Approximate volume of groundwater purged: 16
 Did the well go dry?: NO After how many gallons: -
 Time samples were collected: 1220
 Depth to water at time of sampling: -
 Percent recovery at time of sampling: -
 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>75.7</u>	<u>6.15</u>	<u>855</u>
<u>2</u>	<u>74.2</u>	<u>6.17</u>	<u>841</u>
<u>3</u>	<u>72.8</u>	<u>6.19</u>	<u>833</u>
<u>4</u>	<u>71.3</u>	<u>6.20</u>	<u>827</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-2</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 Carwash
 Job #: 3411 Date of sampling: 10/1/01
 Well Name: MW-1 Sampled by: EP
 Total depth of well (feet): 26.68 Well diameter (inches): 2"
 Depth to water before sampling (feet): 15.78
 Thickness of floating product if any: -
 Depth of well casing in water (feet): - 10.9
 Number of gallons per well casing volume (gallons): 1.74
 Number of well casing volumes to be removed: 4
 Req'd volume of groundwater to be purged before sampling (gallons): 7
 Equipment used to purge the well: bailer
 Time Evacuation Began: 1240 Time Evacuation Finished: 1255
 Approximate volume of groundwater purged: 7
 Did the well go dry?: no After how many gallons: -
 Time samples were collected: 1310
 Depth to water at time of sampling: -
 Percent recovery at time of sampling: -
 Samples collected with: bailer
 Sample color: gray Odor: none
 Description of sediment in sample: silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>71.6</u>	<u>6.08</u>	<u>815</u>
<u>2</u>	<u>70.8</u>	<u>6.13</u>	<u>815</u>
<u>3</u>	<u>70.2</u>	<u>6.19</u>	<u>816</u>
<u>4</u>	<u>69.8</u>	<u>6.23</u>	<u>817</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 Carwash
Job #: 3411 Date of sampling: 10/1/01
Well Name: MW-3 Sampled by: EP
Total depth of well (feet): 15.21 Well diameter (inches): 2"
Depth to water before sampling (feet): _____
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: NOT

CHEMICAL DATA

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

SAMPLED

SAMPLES COLLECTED

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

APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation

Submission #: 2001-10-0065

Date: October 15, 2001

SEVERN
TRENT
SERVICES

Aqua Science Engineers, Inc.

208 West El Pintado
Danville, CA 94526

Attn: Erik Paddleford

Project: 3411
Hutch's Carwash

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com
CA DHS ELAP#1094

Attached is our report for your samples received on Monday October 1, 2001
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

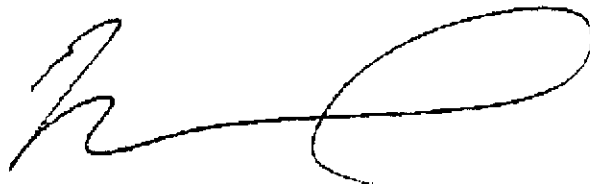
The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after
November 15, 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

Sincerely,



Vincent Vancil
Project Manager

Submission #: 2001-10-0065

Gas/BTEX Compounds by 8015M/8021



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

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	10/01/2001 13:10	1
MW-2	Water	10/01/2001 12:20	2

Submission #: 2001-10-0065



Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Test Method: 8021B
8015M

Attn: Erik Paddleford

Prep Method: 5030

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID: MW-1	Lab Sample ID: 2001-10-0065-001
Project: 3411	Received: 10/01/2001 13:12
Sampled: 10/01/2001 13:10	Extracted: 10/11/2001 14:26
Matrix: Water	QC-Batch: 2001/10/11-01.03 2001/10/11-01.05

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1100	1000	ug/L	20.00	10/11/2001 14:46	
Benzene	4.1	0.50	ug/L	1.00	10/11/2001 14:26	
Toluene	ND	0.50	ug/L	1.00	10/11/2001 14:26	
Ethyl benzene	18	0.50	ug/L	1.00	10/11/2001 14:26	
Xylene(s)	19	0.50	ug/L	1.00	10/11/2001 14:26	
MTBE	520	100	ug/L	20.00	10/11/2001 14:46	
Surrogate(s)						
Trifluorotoluene	115.6	58-124	%	1.00	10/11/2001 14:26	
4-Bromofluorobenzene-FID	63.2	50-150	%	1.00	10/11/2001 14:46	

Submission #: 2001-10-0065



Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Test Method: 8021B
8015M

Attn: Erik Paddieford

Prep Method: 5030

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Sample ID: MW-2	Lab Sample ID: 2001-10-0065-002
Project: 3411	Received: 10/01/2001 13:12
Sampled: 10/01/2001 12:20	Extracted: 10/11/2001 15:19
Matrix: Water	QC-Batch: 2001/10/11-01.05

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com
CA DHS ELAP#1094

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/11/2001 15:19	
Benzene	ND	0.50	ug/L	1.00	10/11/2001 15:19	
Toluene	ND	0.50	ug/L	1.00	10/11/2001 15:19	
Ethyl benzene	ND	0.50	ug/L	1.00	10/11/2001 15:19	
Xylene(s)	ND	0.50	ug/L	1.00	10/11/2001 15:19	
MTBE	21	5.0	ug/L	1.00	10/11/2001 15:19	
Surrogate(s)						
Trifluorotoluene	82.6	58-124	%	1.00	10/11/2001 15:19	
4-Bromofluorobenzene-FID	90.2	50-150	%	1.00	10/11/2001 15:19	

Submission #: 2001-10-0065



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5030

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Method Blank	Water	QC Batch # 2001/10/11-01.05
MB: 2001/10/11-01.05-003		Date Extracted: 10/11/2001 08:08

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/11/2001 08:08	
Benzene	ND	0.5	ug/L	10/11/2001 08:08	
Toluene	ND	0.5	ug/L	10/11/2001 08:08	
Ethyl benzene	ND	0.5	ug/L	10/11/2001 08:08	
Xylene(s)	ND	0.5	ug/L	10/11/2001 08:08	
MTBE	ND	5.0	ug/L	10/11/2001 08:08	
Surrogate(s)					
Trifluorotoluene	92.5	58-124	%	10/11/2001 08:08	
4-Bromofluorobenzene-FID	93.3	50-150	%	10/11/2001 08:08	

Submission #: 2001-10-0065



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5030

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Method Blank	Water	QC Batch # 2001/10/11-01.03
MB: 2001/10/11-01.03-004		Date Extracted: 10/11/2001 08:56

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/11/2001 08:56	
Benzene	ND	0.5	ug/L	10/11/2001 08:56	
Toluene	ND	0.5	ug/L	10/11/2001 08:56	
Ethyl benzene	ND	0.5	ug/L	10/11/2001 08:56	
Xylene(s)	ND	0.5	ug/L	10/11/2001 08:56	
MTBE	ND	5.0	ug/L	10/11/2001 08:56	
Surrogate(s)					
Trifluorotoluene	109.2	58-124	%	10/11/2001 08:56	
4-Bromofluorobenzene-FID	99.7	50-150	%	10/11/2001 08:56	

Submission #: 2001-10-0065



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5030

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)		Water	QC Batch # 2001/10/11-01.05
LCS: 2001/10/11-01.05-004	Extracted: 10/11/2001 08:40	Analyzed: 10/11/2001 08:40	
LCSD: 2001/10/11-01.05-005	Extracted: 10/11/2001 09:13	Analyzed: 10/11/2001 09:13	

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctr.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Benzene	98.4	95.4	100.0	100.0	98.4	95.4	3.1	77-123	20		
Toluene	100	96.4	100.0	100.0	100.0	96.4	3.7	78-122	20		
Ethyl benzene	99.9	95.9	100.0	100.0	99.9	95.9	4.1	70-130	20		
Xylene(s)	299	289	300	300	99.7	96.3	3.5	75-125	20		
Surrogate(s)											
Trifluorotoluene	477	463	500	500	95.4	92.6		58-124			

Submission #: 2001-10-0065

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5030



STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2001/10/11-01.05	
LCS:	2001/10/11-01.05-006	Extracted:	10/11/2001 09:45	Analyzed:	10/11/2001 09:45
LCSD:	2001/10/11-01.05-007	Extracted:	10/11/2001 10:17	Analyzed:	10/11/2001 10:17

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	530	537	500	500	106.0	107.4	1.3	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene-	542	565	500	500	108.4	113.0		50-150			

Submission #: 2001-10-0065



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B

Prep Method: 5030

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2001/10/11-01.03
LCS: 2001/10/11-01.03-005	Extracted: 10/11/2001 09:26	Analyzed: 10/11/2001 09:26
LCSD: 2001/10/11-01.03-006	Extracted: 10/11/2001 09:57	Analyzed: 10/11/2001 09:57

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Benzene	97.1	104	100.0	100.0	97.1	104.0	6.9	77-123	20		
Toluene	95.6	103	100.0	100.0	95.6	103.0	7.5	78-122	20		
Ethyl benzene	96.6	104	100.0	100.0	96.6	104.0	7.4	70-130	20		
Xylene(s)	278	297	300	300	92.7	99.0	6.6	75-125	20		
Surrogate(s)											
Trifluorotoluene	497	531	500	500	99.4	106.2		58-124			

Submission #: 2001-10-0065



Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M

Prep Method: 5030

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2001/10/11-01.03	
LCS:	2001/10/11-01.03-007	Extracted:	10/11/2001 10:28	Analyzed:	10/11/2001 10:28
LCSD:	2001/10/11-01.03-008	Extracted:	10/11/2001 10:58	Analyzed:	10/11/2001 10:58

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	501	543	500	500	100.2	108.6	8.0	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene-	443	482	500	500	88.6	96.4		50-150			

From						Analysis Request														Number of Containers				
Proj.Mgr	Company	Address	Sampler (Signature)	Phone	Fax/Email	TPH (EPA 8015, 8020/8021) <input checked="" type="checkbox"/> Gas w/ <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE	Purgeable Aromatics BTEX (EPA 8020/8021)	TEPH (EPA 8015M) <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other _____	Fuel Oxygenates (8260B): <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Full Oxygenate List <input type="checkbox"/> MTBE <input type="checkbox"/> BTEX	Purgeable Halocarbons (HVOCs) (EPA 8010/8021)	Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B)	Semivolatiles GC/MS (EPA 8270)	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	<input type="checkbox"/> Pesticides (EPA 8081) <input type="checkbox"/> PCBs (EPA 8082)	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: _____	<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP	Hexavalent Chromium pH (24h hold time for H ₂ O)		Spec Cond. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄		
Sample ID	Date	Time	Mat rix	Pres erv.																				
MW-1	10/1	1310	W	Hcl		X																		W
MW-2	10/1	1220	W	Hcl		X																		W

Project Info					Sample Receipt	
Project Name: <u>Hotel's Carwash</u>					# of Containers:	
Project#: <u>3411</u>					Head Space:	
PO#:					Temp:	
Credit Card#:					Conforms to record:	
T	Std 5 Day	72h	48h	24h	Other	
A						
T						
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD						
Special Instructions / Comments:						

1) Relinquished by: <u>Erik Paddelford</u> <u>1312</u> Signature Time	
<u>Erik Paddelford</u> <u>10/1/01</u> Printed Name Date	
<u>ASE</u> Company	
1) Received by:	
Signature	Time
Printed Name	Date
Company	

2) Relinquished by:	
Signature	Time
Printed Name	Date
Company	
2) Received by:	
Signature	Time
Printed Name	Date
Company	

3) Relinquished by:	
Signature	Time
Printed Name	Date
Company	
3) Received by:	
<u>Rowley</u> <u>1312</u> Signature Time	
<u>Rowley</u> <u>10/01/01</u> Printed Name Date	
<u>STL-CL</u> Company	