



December 15, 2003

Alameda County

DEC 17 2003

R0321

Environmental Health

QUARTERLY GROUNDWATER MONITORING REPORT  
OCTOBER 2003 GROUNDWATER SAMPLING  
ASE JOB NO. 3412

at

Former Chan's Shell Station  
726 Harrison Street  
Oakland, CA 94602

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

## 1.0 INTRODUCTION

### Site Location (Site). See Figure 1

Former Chan's Shell Station  
726 Harrison Street  
Oakland, CA 94602  
(510) 444-6583

### Responsible Party

Kin Chan  
4328 Edgewood Avenue  
Oakland, CA 94602

### Environmental Consulting Firm

Aqua Science Engineers, Inc. (ASE)  
208 W. El Pintado  
Danville, CA 94526  
Contact: Robert Kitay, Senior Geologist  
(925) 820-9391

### Agency Review

Contact: Mr. Barney Chan  
Alameda County Health Care Services Agency (ACHCSA)  
1131 Harbor Bay Pkwy., Suite 250  
Alameda, CA 94502  
(510) 567-6700

### California Regional Water Quality Control Board (RWQCB)

San Francisco Bay Region  
1515 Clay Street, Suite 1400  
Oakland, CA 94612  
Contact: Mr. Chuck Headlee  
(510) 622-2433

The following is a report detailing the results of the October 2003 quarterly groundwater sampling at the former Chan's Shell Station. This sampling was conducted as required by the ACHCSA and RWQCB. ASE has prepared this report on behalf of Kin Chan, property owner. This report is intended to supplement the ASE report: "Report of Soil and Groundwater Assessment" dated January 8, 1999.

## **2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT**

On October 9, 2003, ASE measured the depth to groundwater in five site monitoring wells and one site extraction 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 site well. As requested by the ACHCSA, the groundwater gauging and sampling was coordinated with Cambria Environmental Technology, Inc., (Cambria). Cambria is investigating the adjacent property, located at 706 Harrison Street, referred to in this report as the former ARCO station. Groundwater elevation data for both sites is presented in Tables One and Two. A groundwater potentiometric surface map illustrating elevation is presented as Figure 2. The groundwater flow direction below the Former Chan's Shell property is generally to the south/southwest with a gradient of approximately 0.011-feet/foot which is consistent with previous findings. The gradient below the former ARCO station is generally to the west, but inconsistent.

## **3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS**

Prior to sampling, monitoring wells MW-1, MW-3, MW-4, MW-5, and extraction well EW-1 were purged of three well casing volumes of groundwater using dedicated polyethylene bailers or a submersible pump. Groundwater monitoring well MW-2 is no longer being sampled at the site in accordance with ASE's recommendation in the April 2001 quarterly groundwater monitoring report and the May 14, 2001 letter from the ACHCSA. Petroleum hydrocarbon odors were noted during the purging and sampling of all sampled monitoring wells. The parameters pH, temperature, and conductivity were monitored during the well purging, and samples were not collected until these parameters stabilized. Groundwater samples were collected from each well using dedicated polyethylene bailers. The samples were decanted from the bailers into 40-ml volatile organic analysis (VOA) vials, pre-preserved with hydrochloric acid. The samples were capped without headspace, labeled, and placed in coolers with wet ice for transport to Severn Trent Laboratories (STL) San Francisco of Pleasanton, California (ELAP #2496) under appropriate chain-of-custody documentation. Well sampling field logs are presented in Appendix A.

The well purge water was placed into 55-gallon steel drums, labeled, and staged on-site for temporary storage until proper off-site disposal could be arranged.

The groundwater samples were analyzed by STL San Francisco for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 5030/8015M, benzene, toluene, ethylbenzene and total xylenes (collectively known as BTEX) by EPA Method 8021B and methyl tertiary butyl ether (MTBE) by EPA Method 8021B. The analytical results for this and previous sampling periods are presented in Table Three. The certified analytical report and chain-of-custody documentation are included as Appendix B. Recent and current analytical data for the former ARCO station is summarized in Table Four.

#### **4.0 CONCLUSIONS**

Hydrocarbon concentrations in extraction well EW-1 continued to decrease this quarter, while concentrations in the other sampled wells remained generally stable or increased. Samples collected from monitoring wells MW-1 and MW-5 both contained their highest levels to date of TPH-G and benzene, with MW-1 also containing a record high level of MTBE. The TPH-G, BTEX and/or MTBE concentrations detected in the groundwater samples collected from all monitoring and extraction wells sampled remain in excess of Environmental Screening Levels (ESLs) as presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region dated July 2003.

#### **5.0 RECOMMENDATIONS**

ASE recommends continued groundwater monitoring on a quarterly basis. The next groundwater sampling is scheduled for January 2003. Additionally, ASE has received approval from the ACHCSA for a workplan to conduct in-situ chemical oxidation of hydrocarbons in soil and groundwater. Negotiations for the sale of the property are currently underway, and the remediation work will begin either upon finalization of the contract, or subsequent to the sale.

## 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 an independent CAL-DHS 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, 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,

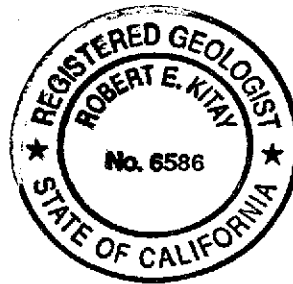
AQUA SCIENCE ENGINEERS, INC.



Damian Hreiga  
Project Geologist

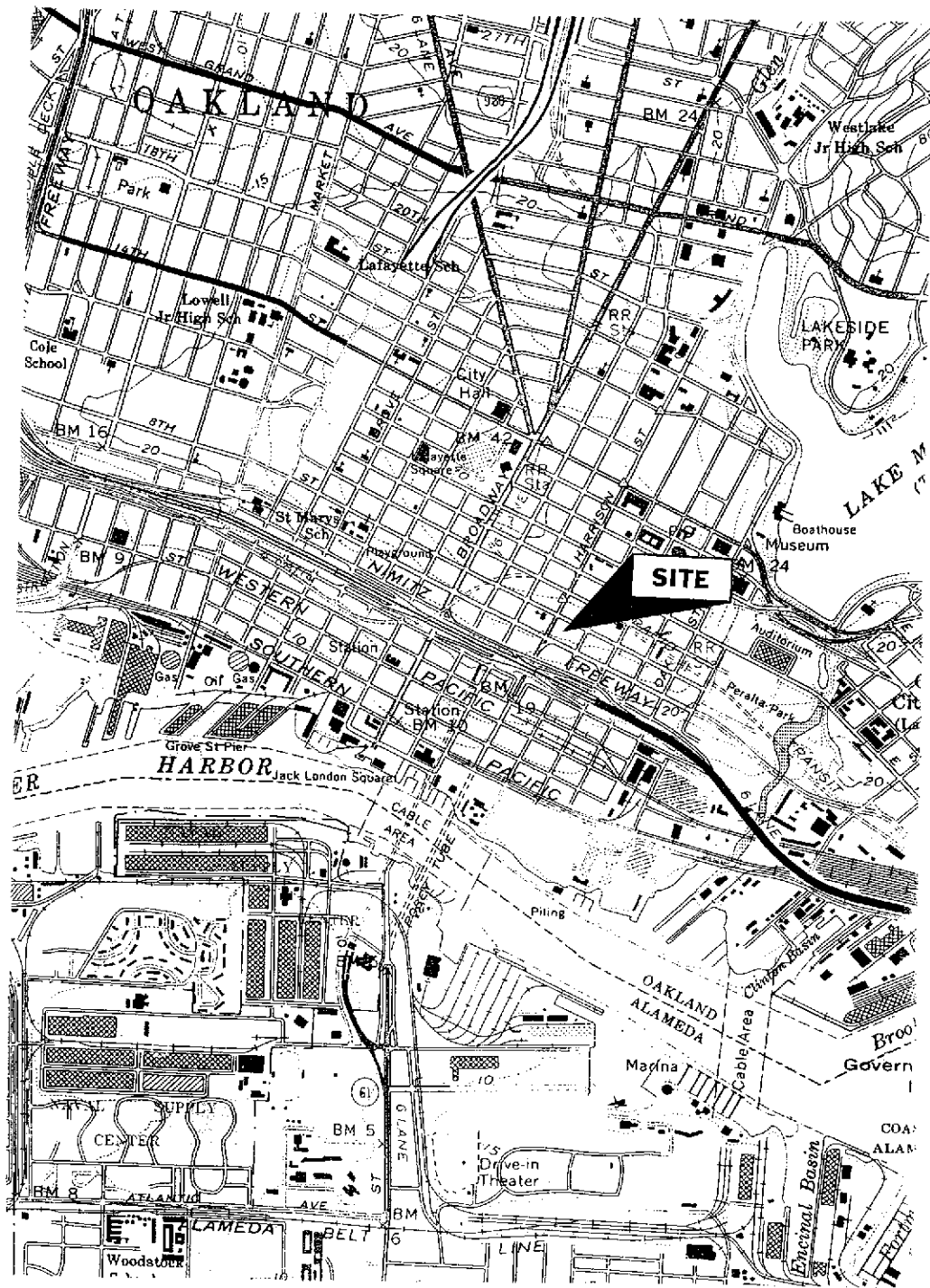


Robert E. Kitay, R.G., R.E.A.  
Senior Geologist



Attachments: Figures 1 and 2  
Appendices A and B

cc: Mr. Barney Chan, Alameda County Health Care Services  
Mr. Chuck Headlee, RWQCB, San Francisco Bay Region



SITE LOCATION MAP  
FORMER CHAN'S SHELL STATION  
726 HARRISON STREET  
OAKLAND, CALIFORNIA  
Aqua Science Engineers | Figure 1

# 8TH STREET



NORTH

SCALE  
1" = 30'

Unocal  
MW-7

Unocal  
MW-8

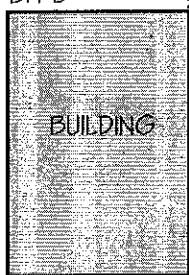
CHAN AUTO

MW-4  
(12.32')

FORMER  
USTS &  
OVEREXCAVATION  
BOUNDARY

BH-A

BH-B



BUILDING

12.0'

BH-C

MW-1  
(12.10')

EW-1  
(12.05')

AS-1

MW-5  
(11.85')

MW-3  
(11.84')

MW-2  
(11.92')

11.5'

ARCO  
MW-4  
(11.95')

FORMER  
USTS/  
OVEREXCAVATIONS

ARCO  
MW-2  
(11.48')

12.5'

ARCO  
MW-3  
(12.66')

ARCO  
MW-1  
(12.36')

FORMER  
ARCO  
STATION

HARRISON STREET

SIDEWALK

12.5'

# 7TH STREET

ARCO  
MW-7  
(12.25')

LEGEND	
	Approx. Groundwater Flow Direction
	MW-1 ASE Monitoring Well
	(12.20') Groundwater elevation relative to MSL
	Groundwater elevation contour

ARCO  
MW-6  
(11.40')

12.0'

ARCO  
MW-5  
(11.71')

11.5'

## GROUNDWATER ELEVATION CONTOUR MAP -10/9/03

FORMER CHAN'S SHELL  
726 HARRISON STREET  
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS

Figure 2

TABLE ONE  
 Groundwater Elevation Data  
 Former Chan's Shell Station  
 726 Harrison St., Oakland, CA

Well ID	Date of Measurement	Top of Casing Elevation (Relative to Mean Sea Level)	Depth to Water (feet)	Groundwater Elevation (project data)	
MW-1	12/15/1998	31.95*	17.32	14.63	
	3/4/1999		15.52	16.43	
	6/17/1999		16.9	15.05	
	8/27/1999		17.39	14.56	
	12/9/1999		18.03	13.92	
	3/7/2000		15.11	16.84	
	6/7/2000		16.66	15.29	
	10/11/2000		18.08	13.87	
	1/18/2001		17.96	13.99	
	4/5/2001		16.35	15.60	
	7/17/2001	16.94	15.01		
	10/5/2001	28.98	17.35	11.63	
	1/18/2002		15.40	13.58	
	4/11/2002		15.76	13.22	
	7/8/2002		16.17	12.81	
	10/9/2002		16.72	12.26	
	1/29/2003		16.26	12.72	
	4/11/2003		16.56	12.42	
	7/18/2003		16.42	12.56	
	10/9/2003		16.88	12.10	
MW-2	12/15/1998		32.40*	18.03	14.37
	3/4/1999	16.11		16.29	
	6/17/1999	17.72		14.68	
	8/27/1999	Inaccessible			
	12/9/1999	Inaccessible			
	3/7/2000	Inaccessible			
	6/7/2000			17.67	14.73
	10/11/2000			18.91	13.49
	1/18/2001			18.66	13.74
	4/5/2001			16.97	15.43
	7/17/2001		17.54	14.86	
	10/5/2001	29.44	17.98	11.46	
	1/18/2002		15.87	13.57	
	4/11/2002		16.36	13.08	
	7/8/2002		16.72	12.72	
	10/9/2002		17.33	12.11	
	1/29/2003		16.82	12.62	
	4/11/2003		17.15	12.29	
	7/18/2003		17.05	12.39	
	10/9/2003		17.52	11.92	
MW-3	12/15/1998		31.61*	17.26	14.35
	3/4/1999	15.47		16.14	
	6/17/1999	16.92		14.69	
	8/27/1999	17.40		14.21	
	12/9/1999	18.01		13.60	
	3/7/2000	16.15		15.46	
	6/7/2000	16.85		14.76	
	10/11/2000	18.07		13.54	
	1/18/2001	17.89		13.72	
	4/5/2001	16.21		15.40	
	7/17/2001	16.90	14.71		
	10/5/2001	28.64	17.32	11.32	
	1/18/2002		15.35	13.29	
	4/11/2002		15.82	12.82	
	7/8/2002		16.15	12.49	
	10/9/2002		16.67	11.97	
	1/29/2003		16.19	12.45	
	4/11/2003		16.49	12.15	
	7/18/2003		16.42	12.22	
	10/9/2003		16.80	11.84	



TABLE ONE  
Groundwater Elevation Data  
Former Chan's Shell Station  
726 Harrison St., Oakland, CA

Well ID	Date of Measurement	Top of Casing Elevation (Relative to Mean Sea Level)	Depth to Water (feet)	Groundwater Elevation (project data)	
MW-4	12/15/1998	32.53*	17.59	14.94	
	3/4/1999		15.88	16.65	
	6/17/1999		17.14	15.39	
	8/27/1999		17.65	14.88	
	12/9/1999		18.28	14.25	
	3/7/2000		15.41	17.12	
	6/7/2000		17.09	15.44	
	10/11/2000		18.33	14.20	
	1/18/2001		18.23	14.30	
	4/5/2001		16.69	15.84	
	7/17/2001		17.32	15.21	
	10/5/2001		29.58	17.71	11.87
	1/18/2002			15.85	13.73
	4/11/2002	16.14		13.44	
	7/8/2002	16.56		13.02	
	10/9/2002	17.09		12.49	
	1/29/2003	16.65		12.93	
	4/11/2003	16.93	12.65		
	7/18/2003	16.78	12.80		
10/9/2003	17.26	12.32			
MW-5	8/29/2001	29.06	17.42	11.64	
	1/18/2002		15.68	13.38	
	4/11/2002		16.17	12.89	
	7/8/2002		16.51	12.55	
	10/9/2002		17.10	11.96	
	1/29/2003		16.58	12.48	
	4/11/2003		16.87	12.19	
	7/18/2003		16.77	12.29	
	10/9/2003		17.21	11.85	
EW-1	1/18/2002	28.89	15.35	13.54	
	4/11/2002		15.73	13.16	
	7/8/2002		16.13	12.76	
	10/9/2002		16.70	12.19	
	1/29/2003		16.20	12.69	
	4/11/2003		16.52	12.37	
	7/18/2003		16.38	12.51	
10/9/2003	16.84	12.05			

\* Top of casing elevation relative to arbitrary project datum

TABLE TWO  
 Groundwater Elevation Data  
 Former ARCO Station  
 706 Harrison St., Oakland, CA

Well ID	Date of Measurement	Top of Casing Elevation* (Relative to Mean Sea Level)	Depth to Water (feet)	Groundwater Elevation (project data)
MW-1	7/18/2003	29.15	14.50	14.65
	10/9/2003	26.17	13.81	12.36
MW-2	7/18/2003	30.51	16.84	13.67
	10/9/2003	27.53	16.05	11.48
MW-3	7/18/2003	29.77	14.80	14.97
	10/9/2003	26.79	14.13	12.66
MW-4	7/18/2003	31.18	17.08	14.10
	10/9/2003	28.20	16.25	11.95
MW-5	7/18/2003	28.04	14.28	13.76
	10/9/2003	25.07	13.36	11.71
MW-6	7/18/2003	29.10	15.47	13.63
	10/9/2003	26.13	14.73	11.40
MW-7	7/18/2003	29.67	15.19	14.48
	10/9/2003	26.70	14.45	12.25

\* Survey data updated on 10/27/2003

**TABLE THREE**  
**Certified Analytical Results for GROUNDWATER Samples**  
**Former Chan's Shell Station**  
**726 Harrison St., Oakland, CA**  
**All results are in parts per billion (ppb)**

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
<b>MW-1</b>						
7/3/1997	18,000	2,700	350	450	900	7,400
12/5/1998	18,000	1,500	270	260	560	14,000
3/4/1999	44,000	2,800	400	440	960	43,000
6/17/1999	33,000	2,200	250	460	660	25,000
8/27/1999	6,000	1,000	97	190	230	14,000/ 16,000*
12/9/1999	15,000	1,500	160	220	420	17,000
3/7/2000	9,300	1,500	210	66	530	12,000
6/7/2000	26,000**	1,700	< 250	360	580	30,000
10/11/2000	13,000**	1,600	< 100	140	160	19,000
1/18/2001	14,000**	450	< 100	110	230	9,600
4/5/2001	38,000	2,200	180	290	590	35,000
7/17/2001	35,000**	1,800	< 100	300	170	35,000
10/5/2001	17,000	1,500	210	420	790	27,000
1/18/2002	18,000	1,500	120	160	220	22,000
4/11/2002	41,000	2,700	210	340	380	30,000
7/18/2002	36,000	2,800	140	360	300	31,000
10/9/2002	30,000	1,700	310	< 100	< 100	19,000
1/29/2003	26,000	2,400	< 100	310	520	20,000
4/11/2003	22,000	1,700	< 100	270	580	16,000
7/18/2003	40,000	3,200	290	480	830	39,000
10/9/2003	54,000**	3,300	< 130	350	310	49,000
<b>MW-2</b>						
12/5/1998	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5
3/4/1999			Inaccessible due to car parked over well			
6/17/1999	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5
8/27/1999			Inaccessible due to car parked over well			
12/9/1999			Inaccessible due to car parked over well			
3/7/2000			Inaccessible due to car parked over well			
6/7/2000	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
10/11/2000	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
1/18/2001	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
4/5/2001	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
7/17/2001			No Longer Sampled			
<b>MW-3</b>						
12/5/1998	6,500***	< 50	50	60	50	3,900
3/4/1999	2,800	< 25	< 25	< 25	< 25	1,600
6/17/1999	1,000	< 10	< 10	< 10	< 10	1,400
8/27/1999	230	< 0.5	0.51	0.5	1	1,500/ 1,600*
12/9/1999	870**	< 0.5	< 0.5	< 0.5	< 0.5	2,100
3/7/2000	150**	4	< 0.5	< 0.5	< 0.5	830
6/7/2000	140**	< 0.5	< 0.5	< 0.5	< 0.5	1,100
10/11/2000	620**	< 5.0	< 5.0	< 5.0	< 5.0	1,500
1/18/2001	1,200**	< 5.0	< 5.0	< 5.0	< 5.0	1,000
4/5/2001	1,700**	< 5.0	< 5.0	< 5.0	< 5.0	1,900
7/17/2001	1,400**	< 10	< 10	< 10	< 10	1,700
10/5/2001	< 1,000	< 10	< 10	< 10	< 10	1,700
1/18/2002	1,600	26	20	16	54	2,100
4/11/2002	2,600	21	16	< 10	21	2,300
7/18/2002	2,800	< 10	< 10	< 10	< 10	3,800
10/9/2002	6,000	< 50	< 50	< 50	< 50	4,900
1/29/2003	1,800	< 10	< 10	< 10	< 10	2,300
4/11/2003	2,900	< 25	< 25	< 25	< 25	3,100
7/18/2003	3,400	< 10	< 10	< 10	< 10	3,200
10/9/2003	2,300	< 10	< 10	< 10	< 10	2,700

TABLE THREE  
 Certified Analytical Results for GROUNDWATER Samples  
 Former Chan's Shell Station  
 726 Harrison St., Oakland, CA  
 All results are in parts per billion (ppb)

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
<b>MW-4</b>						
12/5/1998	880	3	< 0.5	< 0.5	< 0.5	950
3/4/1999	3,800	< 25	< 25	< 25	< 25	3,700
6/17/1999	2,700	< 25	< 25	< 25	< 25	2,700
8/27/1999	440	4.7	1.1	0.58	1.3	1,600/ 1,700*
12/9/1999	1,100**	< 2.5	< 2.5	< 2.5	< 2.5	1,700
3/7/2000	< 250	< 2.5	< 2.5	< 2.5	< 2.5	1,700
6/7/2000	530**	8.8	< 2.5	< 2.5	< 2.5	440
10/11/2000	700**	3.9	< 2.5	< 2.5	< 2.5	680
1/18/2001	2,000**	< 2.5	< 2.5	< 2.5	< 2.5	780
4/5/2001	810**	< 2.5	< 2.5	< 2.5	< 2.5	620
7/17/2001	880**	< 2.5	< 2.5	< 2.5	< 2.5	570
10/5/2001	550**	< 2.5	< 2.5	< 2.5	< 2.5	710
1/18/2002	960**	< 5.0	< 5.0	< 5.0	< 5.0	1,300
4/11/2002	1,100**	< 5.0	< 5.0	< 5.0	< 5.0	550
7/18/2002	1,200**	< 5.0	< 5.0	< 5.0	< 5.0	890
10/9/2002	1,300**	< 5.0	< 5.0	< 5.0	< 5.0	880
1/29/2003	530**	< 1.0	< 1.0	< 1.0	< 1.0	190
4/11/2003	690**	< 2.5	< 2.5	< 2.5	< 2.5	310
7/18/2003	1,600**	< 10	< 10	< 10	< 10	1,300
10/9/2003	1500***	< 10	< 10	< 10	< 10	1,400
<b>MW-5</b>						
8/29/2001	14,000	1,300	470	230	800	14,000
1/18/2002	24,000	3,200	1,300	390	1,500	5,700
4/11/2002	23,000	2,700	980	38	950	4,300
7/18/2002	19,000	3,300	25	360	1,100	2,100
10/9/2002	24,000	2,800	990	360	820	2,400
1/29/2003	17,000	2,100	1,400	380	1,400	< 250
4/11/2003	26,000	2,900	2,200	590	2,200	630
7/18/2003	26,000	3,500	1,700	480	1,300	1,300
10/9/2003	27,000	3,800	1,900	510	1,700	1,200
<b>FW-1</b>						
1/18/2002	11,000	1,000	< 100	220	350	6,700
4/11/2002	17,000	1,000	< 100	120	140	9,700
7/18/2002	21,000	1,300	< 100	< 100	200	12,000
10/9/2002	12,000	900	< 25	< 25	200	9,200
1/29/2003	12,000	860	73	130	500	4,500
4/11/2003	8,700	890	< 25	< 25	82	5,400
7/18/2003	8,200	650	77	99	140	4,300
10/9/2003	5,700**	500	28	53	35	3,600
ESL	400	46	130	290	13	1,800

**Notes:**

\* EPA Method 8020/EPA Method 8260 (MTBE confirmation)

\*\* Hydrocarbon reported in the gasoline range does not match the laboratory gasoline standard

\*\*\* Sample contains a discrete peak in addition to gasoline

ESL = Environmental screening levels presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (July 2003)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

Most current data is in Bold

Non-detectable concentrations noted by the less than sign (<) followed by the laboratory method reporting limit.

**TABLE FOUR**  
**Certified Analytical Results for GROUNDWATER Samples**  
**Former ARCO Station**  
**706 Harrison St., Oakland, CA**  
**All results are in parts per billion (ppb)**

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
<b>MW-1</b>						
7/18/2003	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
10/9/2003	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
<b>MW-2</b>						
7/18/2003	57,000	2,100	8,700	2,200	10,000	< 50*
10/9/2003	49,000	1,800	7,000	1,700	7,600	26*
<b>MW-3</b>						
7/18/2003	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
<b>MW-4</b>						
7/18/2003	< 50	< 0.5	< 0.5	< 0.5	< 0.5	0.74*
10/9/2003	210	5	0.57	1.6	1.1	10*
<b>MW-5</b>						
7/18/2003	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
<b>MW-6</b>						
7/18/2003	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
<b>MW-7</b>						
7/18/2003	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
<b>EGL</b>	<b>400</b>	<b>46</b>	<b>130</b>	<b>290</b>	<b>15</b>	<b>1,800</b>

**Notes:**

\* EPA Method 8260

EGL = Environmental screening levels presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (July 2003)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

Most current data is in **Bold**

Non-detectable concentrations noted by the less than sign (<) followed by the laboratory method reporting limit.

# **APPENDIX A**

Well Sampling Field Logs



# WELL SAMPLING FIELD LOG

Project Name and Address: CADAWAY  
 Job #: 3412 Date of sampling: 10/9/03  
 Well Name: MW-1 Sampled by: DH  
 Total depth of well (feet): 27.2 Well diameter (inches): 2  
 Depth to water before sampling (feet): 16.88  
 Thickness of floating product if any: —  
 Depth of well casing in water (feet): 10.32  
 Number of gallons per well casing volume (gallons): 1.65  
 Number of well casing volumes to be removed: 3  
 Req'd volume of groundwater to be purged before sampling (gallons): 5  
 Equipment used to purge the well: BALER  
 Time Evacuation Began: 740 Time Evacuation Finished: 805  
 Approximate volume of groundwater purged: 5  
 Did the well go dry?: NO After how many gallons: —  
 Time samples were collected: 810  
 Depth to water at time of sampling: 18.75  
 Percent recovery at time of sampling: —  
 Samples collected with: BALER  
 Sample color: — Odor: HC  
 Description of sediment in sample: —

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1.7</u>	<u>68.1</u>	<u>6.18</u>	<u>618</u>
<u>3.4</u>	<u>67.4</u>	<u>6.49</u>	<u>728</u>
<u>5</u>	<u>67.2</u>	<u>6.53</u>	<u>731</u>

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	iced?	Analysis
<u>MW-1</u>	<u>3</u>	<u>40ml vial</u>	<u>HCL</u>	<u>✓</u>	<u>GAS BOX FREE</u>



# WELL SAMPLING FIELD LOG

Project Name and Address: CHAW AUTO  
 Job #: 3412 Date of sampling: 10/9/03  
 Well Name: MW-2 Sampled by: DH  
 Total depth of well (feet): \_\_\_\_\_ Well diameter (inches): 2  
 Depth to water before sampling (feet): 17.52  
 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: \_\_\_\_\_  
 Required 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: \_\_\_\_\_  
 Description of sediment in sample: \_\_\_\_\_

## CHEMICAL DATA

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

## SAMPLES COLLECTED

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

NOT SAMPLED THIS QUARTER





# WELL SAMPLING FIELD LOG

Project Name and Address: CALAN AUTO  
 Job #: MW-3 3412 Date of sampling: 10/9/03  
 Well Name: MW-3 Sampled by: DIA  
 Total depth of well (feet): 29.7 Well diameter (inches): 2  
 Depth to water before sampling (feet): 16.80  
 Thickness of floating product if any: -  
 Depth of well casing in water (feet): 12.90  
 Number of gallons per well casing volume (gallons): 2.1  
 Number of well casing volumes to be removed: 3  
 Req'd volume of groundwater to be purged before sampling (gallons): 6.3  
 Equipment used to purge the well: BAILER  
 Time Evacuation Began: 9:05 Time Evacuation Finished: 9:20  
 Approximate volume of groundwater purged: 6.5  
 Did the well go dry?: NO After how many gallons: -  
 Time samples were collected: 9:25  
 Depth to water at time of sampling: 17.26  
 Percent recovery at time of sampling: -  
 Samples collected with: BAILER  
 Sample color: - Odor: SLIGHT HC  
 Description of sediment in sample: -

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>2.1</u>	<u>67.9</u>	<u>5.68</u>	<u>5.98</u>
<u>4.2</u>	<u>67.5</u>	<u>6.18</u>	<u>6.03</u>
<u>6.3</u>	<u>67.2</u>	<u>6.30</u>	<u>6.05</u>
_____	_____	_____	_____
_____	_____	_____	_____

## SAMPLES COLLECTED

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



# WELL SAMPLING FIELD LOG

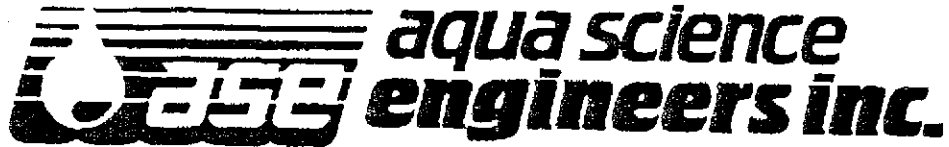
Project Name and Address: C HAW AUTO  
 Job #: 3402 Date of sampling: 10/9/03  
 Well Name: MW-4 Sampled by: DH  
 Total depth of well (feet): 29.7 Well diameter (inches): 2  
 Depth to water before sampling (feet): 17.26  
 Thickness of floating product if any: — 12.44  
 Depth of well casing in water (feet): 2.0  
 Number of gallons per well casing volume (gallons): 32.0  
 Number of well casing volumes to be removed: 3  
 Req'd volume of groundwater to be purged before sampling (gallons): 6  
 Equipment used to purge the well: BAILER  
 Time Evacuation Began: 940 Time Evacuation Finished: 955  
 Approximate volume of groundwater purged: 6  
 Did the well go dry?: NO After how many gallons: —  
 Time samples were collected: 958  
 Depth to water at time of sampling: 18.73  
 Percent recovery at time of sampling: —  
 Samples collected with: BAILER  
 Sample color: — Odor: SLIGHT HC  
 Description of sediment in sample: —

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>2</u>	<u>72.9</u>	<u>6.30</u>	<u>820</u>
<u>4</u>	<u>70.9</u>	<u>6.98</u>	<u>640</u>
<u>6</u>	<u>70.5</u>	<u>6.55</u>	<u>638</u>

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-4</u>	<u>3</u>	<u>40ml VBA</u>	<u>HCL</u>	<u>Y</u>	



# WELL SAMPLING FIELD LOG

Project Name and Address: CLAW AUTO  
 Job #: 3412 Date of sampling: 10/9/03  
 Well Name: MW-5 Sampled by: DLT  
 Total depth of well (feet): 280 Well diameter (inches): 2  
 Depth to water before sampling (feet): 17.21  
 Thickness of floating product if any: 11.29  
 Depth of well casing in water (feet): 18  
 Number of gallons per well casing volume (gallons): 1.8  
 Number of well casing volumes to be removed: 3  
 Req'd volume of groundwater to be purged before sampling (gallons): 5.4  
 Equipment used to purge the well: BAILER  
 Time Evacuation Began: 8:35 Time Evacuation Finished: 8:50  
 Approximate volume of groundwater purged: 5.5  
 Did the well go dry?: NO After how many gallons: -  
 Time samples were collected: 8:55  
 Depth to water at time of sampling: 18.73  
 Percent recovery at time of sampling: \_\_\_\_\_  
 Samples collected with: BAILER  
 Sample color: \_\_\_\_\_ Odor: MILD HC  
 Description of sediment in sample: \_\_\_\_\_

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1.8</u>	<u>66.9</u>	<u>6.30</u>	<u>1020</u>
<u>3.6</u>	<u>66.1</u>	<u>6.87</u>	<u>1042</u>
<u>5.4</u>	<u>66.0</u>	<u>6.93</u>	<u>1037</u>
_____	_____	_____	_____
_____	_____	_____	_____

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Ice?	Analysis
<u>MW-5</u>	<u>3</u>	<u>40ml VOA</u>	<u>HC</u>	<u>✓</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____



# WELL SAMPLING FIELD LOG

Project Name and Address: CHAN AUTO  
 Job #: 3412 Date of sampling: 10/9/03  
 Well Name: EW-1 Sampled by: DH  
 Total depth of well (feet): 28.5 Well diameter (inches): 6  
 Depth to water before sampling (feet): 16.84  
 Thickness of floating product if any: \_\_\_\_\_  
 Depth of well casing in water (feet): 11.66  
 Number of gallons per well casing volume (gallons): 17.1  
 Number of well casing volumes to be removed: 3  
 Req'd volume of groundwater to be purged before sampling (gallons): 51  
 Equipment used to purge the well: SUBPUMP  
 Time Evacuation Began: 7:25 Time Evacuation Finished: \_\_\_\_\_  
 Approximate volume of groundwater purged: 55  
 Did the well go dry?: No After how many gallons: \_\_\_\_\_  
 Time samples were collected: 8:25  
 Depth to water at time of sampling: 20.91  
 Percent recovery at time of sampling: \_\_\_\_\_  
 Samples collected with: BAILER  
 Sample color: \_\_\_\_\_ Odor: HC AND ?  
 Description of sediment in sample: \_\_\_\_\_

## CHEMICAL DATA ASCENTIVE?

Volume Purged	Temp	pH	Conductivity
<u>17</u>	<u>72.5</u>	<u>6.86</u>	<u>580</u>
<u>34</u>	<u>70.1</u>	<u>6.83</u>	<u>564</u>
<u>51</u>	<u>69.7</u>	<u>6.90</u>	<u>560</u>
_____	_____	_____	_____
_____	_____	_____	_____

## SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>EW-1</u>	<u>3</u>	<u>100ml VOA</u>	<u>Rel</u>	<u>Y</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

## **APPENDIX B**

Certified Analytical Report  
and  
Chain of Custody Documentation



STL

Submission#: 2003-10-0495

Aqua Science Engineers, Inc.

October 20, 2003

208 West El Pintado  
Danville, CA 94526

Attn: Damian Hriciga

Project#: 3412

Project: Chan

Dear Mr. Hriciga,

Attached is our report for your samples received on 10/13/2003 16:55

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 11/27/2003 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@stl-inc.com](mailto:vvancil@stl-inc.com)

Sincerely,

Vincent Vancil  
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496

**Gas/BTEX Compounds by 8015M/8021**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412

Chan

Received: 10/13/2003 16:55

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-1	10/09/2003 08:10	Water	1
MW-3	10/09/2003 09:25	Water	2
MW-4	10/09/2003 09:58	Water	3
MW-5	10/09/2003 08:55	Water	4
EW-1	10/09/2003 08:25	Water	5



STL

Submission #: 2003-10-0495

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412

Chan

Received: 10/13/2003 16:55

Prep(s):	5030	Test(s):	8015M
	5030		8021B
Sample ID:	MW-1	Lab ID:	2003-10-0495 - 1
Sampled:	10/09/2003 08:10	Extracted:	10/16/2003 22:07
Matrix:	Water	QC Batch#:	2003/10/16-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	54000	13000	ug/L	250.00	10/16/2003 22:07	g
Benzene	3300	130	ug/L	250.00	10/16/2003 22:07	
Toluene	ND	130	ug/L	250.00	10/16/2003 22:07	
Ethyl benzene	350	130	ug/L	250.00	10/16/2003 22:07	
Xylene(s)	310	130	ug/L	250.00	10/16/2003 22:07	
MTBE	49000	1300	ug/L	250.00	10/16/2003 22:07	
<b>Surrogate(s)</b>						
Trifluorotoluene	85.0	58-124	%	250.00	10/16/2003 22:07	
4-Bromofluorobenzene-FID	69.3	50-150	%	250.00	10/16/2003 22:07	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

10/17/2003 11:52



Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412

Chan

Received: 10/13/2003 16:55

Prep(s): 5030  
5030  
Test(s): 8015M  
8021B  
Sample ID: MW-3  
Lab ID: 2003-10-0495 - 2  
Sampled: 10/09/2003 09:25  
Extracted: 10/16/2003 22:39  
Matrix: Water  
QC Batch#: 2003/10/16-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2300	1000	ug/L	20.00	10/16/2003 22:39	dp
Benzene	ND	10	ug/L	20.00	10/16/2003 22:39	
Toluene	ND	10	ug/L	20.00	10/16/2003 22:39	
Ethyl benzene	ND	10	ug/L	20.00	10/16/2003 22:39	
Xylene(s)	ND	10	ug/L	20.00	10/16/2003 22:39	
MTBE	2700	100	ug/L	20.00	10/16/2003 22:39	
<b>Surrogate(s)</b>						
Trifluorotoluene	78.1	58-124	%	20.00	10/16/2003 22:39	
4-Bromofluorobenzene-FID	62.6	50-150	%	20.00	10/16/2003 22:39	

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412

Chan

Received: 10/13/2003 16:55

Prep(s):	5030	Test(s):	8015M
	5030		8021B
Sample ID:	<b>MW-4</b>	Lab ID:	2003-10-0495 - 3
Sampled:	10/09/2003 09:58	Extracted:	10/16/2003 23:11
Matrix:	Water	QC Batch#:	2003/10/16-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1500	1000	ug/L	20.00	10/16/2003 23:11	dp
Benzene	ND	10	ug/L	20.00	10/16/2003 23:11	
Toluene	ND	10	ug/L	20.00	10/16/2003 23:11	
Ethyl benzene	ND	10	ug/L	20.00	10/16/2003 23:11	
Xylene(s)	ND	10	ug/L	20.00	10/16/2003 23:11	
MTBE	1400	100	ug/L	20.00	10/16/2003 23:11	
<b>Surrogate(s)</b>						
Trifluorotoluene	121.6	58-124	%	20.00	10/16/2003 23:11	
4-Bromofluorobenzene-FID	100.4	50-150	%	20.00	10/16/2003 23:11	

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412

Chan

Received: 10/13/2003 16:55

Prep(s):	5030	Test(s):	8015M
	5030		8021B
Sample ID:	<b>MW-5</b>	Lab ID:	2003-10-0495 - 4
Sampled:	10/09/2003 08:55	Extracted:	10/16/2003 23:43
Matrix:	Water	QC Batch#:	2003/10/16-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	27000	5000	ug/L	100.00	10/16/2003 23:43	
Benzene	3800	50	ug/L	100.00	10/16/2003 23:43	
Toluene	1900	50	ug/L	100.00	10/16/2003 23:43	
Ethyl benzene	510	50	ug/L	100.00	10/16/2003 23:43	
Xylene(s)	1700	50	ug/L	100.00	10/16/2003 23:43	
MTBE	1200	500	ug/L	100.00	10/16/2003 23:43	
<b>Surrogate(s)</b>						
Trifluorotoluene	119.0	58-124	%	100.00	10/16/2003 23:43	
4-Bromofluorobenzene-FID	97.6	50-150	%	100.00	10/16/2003 23:43	

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412

Chan

Received: 10/13/2003 16:55

Prep(s):	5030	Test(s):	8015M
	5030		8021B
Sample ID:	<b>EW-1</b>	Lab ID:	2003-10-0495 - 5
Sampled:	10/09/2003 08:25	Extracted:	10/17/2003 00:15
Matrix:	Water	QC Batch#:	2003/10/16-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	5700	2500	ug/L	50.00	10/17/2003 00:15	g
Benzene	500	25	ug/L	50.00	10/17/2003 00:15	
Toluene	28	25	ug/L	50.00	10/17/2003 00:15	
Ethyl benzene	53	25	ug/L	50.00	10/17/2003 00:15	
Xylene(s)	35	25	ug/L	50.00	10/17/2003 00:15	
MTBE	3600	250	ug/L	50.00	10/17/2003 00:15	
<b>Surrogate(s)</b>						
Trifluorotoluene	119.7	58-124	%	50.00	10/17/2003 00:15	
4-Bromofluorobenzene-FID	94.4	50-150	%	50.00	10/17/2003 00:15	

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412

Chan

Received: 10/13/2003 16:55

Batch QC Report

Prep(s): 5030

Method Blank

MB: 2003/10/16-01.05-003

Water

Test(s): 8015M

QC Batch # 2003/10/16-01.05

Date Extracted: 10/16/2003 07:48

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/16/2003 07:48	
Benzene	ND	0.5	ug/L	10/16/2003 07:48	
Toluene	ND	0.5	ug/L	10/16/2003 07:48	
Ethyl benzene	ND	0.5	ug/L	10/16/2003 07:48	
Xylene(s)	ND	0.5	ug/L	10/16/2003 07:48	
MTBE	ND	5.0	ug/L	10/16/2003 07:48	
<b>Surrogates(s)</b>					
Trifluorotoluene	103.6	58-124	%	10/16/2003 07:48	
4-Bromofluorobenzene-FID	86.5	50-150	%	10/16/2003 07:48	

**Gas/BTEX Compounds by 8015M/8021**

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412

Chan

Received: 10/13/2003 16:55

**Batch QC Report**

Prep(s): 5030

Test(s): 8021B

**Laboratory Control Spike**

**Water**

**QC Batch # 2003/10/16-01.05**

LCS 2003/10/16-01.05-004

Extracted: 10/16/2003

Analyzed: 10/16/2003 08:20

LCSD 2003/10/16-01.05-005

Extracted: 10/16/2003

Analyzed: 10/16/2003 08:52

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrf.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	95.8	90.4	100.0	95.8	90.4	5.8	77-123	20		
Toluene	93.4	91.9	100.0	93.4	91.9	1.6	78-122	20		
Ethyl benzene	92.4	89.0	100.0	92.4	89.0	3.7	70-130	20		
Xylene(s)	271	261	300	90.3	87.0	3.7	75-125	20		
<b>Surrogates(s)</b>										
Trifluorotoluene	470	445	500	94.0	89.0		58-124			

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412

Chan

Received: 10/13/2003 16:55

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2003/10/16-01.05

LCS 2003/10/16-01.05-006

Extracted: 10/16/2003

Analyzed: 10/16/2003 09:23

LCSD 2003/10/16-01.05-007

Extracted: 10/16/2003

Analyzed: 10/16/2003 09:55

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	521	474	500	104.2	94.8	9.4	75-125	20		
<b>Surrogates(s)</b>										
4-Bromofluorobenzene-FID	393	384	500	78.6	76.8		50-150			

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Damian Hriciga

208 West El Pintado

Danville, CA 94526

Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412

Chan

Received: 10/13/2003 16:55

---

Legend and Notes

---

Result Flag

dp

Sample contains discrete peak in addition to gasoline.

g

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



78408

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

# Chain of Custody

## 2003.10-0495

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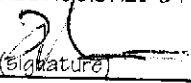
SAMPLER (SIGNATURE)  

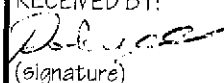

PROJECT NAME CHAN  
ADDRESS OAKLAND  
JOB NO. 3412

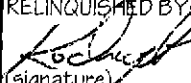
### ANALYSIS REQUEST


SPECIAL INSTRUCTIONS:  
PLEASE REPORT TO: OARRIGA@AQUASCIENCEENGINEERS.COM  
PLEASE SEND EPA  
CLUBALZ ID: T0600102122

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)	LIFT 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 / LEAD SCAVANGERS/ 1,2-DCP (EPA 8260)
1 MW-1	10/4	810	W	3	X														
2 MW-3		925		3	X														
3 MW-4		958		3	X														
4 MW-5		855		3	X														
5 EW-1		925		3	X														

RELINQUISHED BY:  
  
(signature) (time)  
DARRIAN  
(printed name) 10/3  
(date)  
Company- ASE

RECEIVED BY:  
  
(signature) (time) 10:10  
Rodney Allen  
(printed name) (date) 10-13-03  
Company- STL-SP

RELINQUISHED BY:  
  
(signature) (time) 10:55  
Rodney Allen  
(printed name) (date) 10/13/03  
Company- STL-SP

RECEIVED BY LABORATORY:  
  
(signature) (time) 10:55  
M. VILLANUBA  
(printed name) (date) 10/13/03  
Company- STL-SP

COMMENTS:  
1,2-DCP = 1,2-dichloropropane  
57C  
TURN AROUND TIME  
STANDARD 24Hr 48Hr 72Hr  
OTHER:

STL San Francisco

Sample Receipt Checklist

Submission #: 2003- 10 - 0495

Checklist completed by: (initials) NK Date: 10, 14 /03

Courier name:  STL San Francisco  Client \_\_\_\_\_

Custody seals intact on shipping container/samples

Yes \_\_\_ No \_\_\_ Not Present

Chain of custody present?

Yes  No \_\_\_

Chain of custody signed when relinquished and received?

Yes  No \_\_\_

Chain of custody agrees with sample labels?

Yes  No \_\_\_

Samples in proper container/bottle?

Yes  No \_\_\_

Sample containers intact?

Yes  No \_\_\_

Sufficient sample volume for indicated test?

Yes  No \_\_\_

All samples received within holding time?

Yes  No \_\_\_

Container/Temp Blank temperature in compliance ( $4^{\circ}C \pm 2$ )?

Temp: 5.7°C Yes  No \_\_\_

Ice Present Yes  No \_\_\_

Water - VOA vials have zero headspace?

No VOA vials submitted \_\_\_ Yes  No \_\_\_

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt?  Yes  No

pH adjusted- Preservative used:  HNO<sub>3</sub>  HCl  H<sub>2</sub>SO<sub>4</sub>  NaOH  ZnOAc -Lot #(s) \_\_\_\_\_

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) \_\_\_\_\_ Date: \_\_\_ / \_\_\_ /03

Client contacted:  Yes  No

Summary of discussion:

Corrective Action (per PM/Client):