aqua science engineers inc.

10321

March 1, 2004

QUARTERLY GROUNDWATER MONITORING REPORT
JANUARY 2004 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 January 2004 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 January 28, 2004, 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 was 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 or southwest, but inconsistent, possibly due to air sparging.

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) 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

Though some hydrocarbon concentrations increased, and others decreased, concentrations overall remained consistent with those reported during previous quarters. The TPH-G, BTEX and/or MTBE concentrations detected in the groundwater samples collected from all 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. However, based upon the proximity of extraction well EW-1 to monitoring well MW-1, and the costs associated with sampling and disposing of purge water from a 6-inch diameter well, it is recommend that groundwater sampling of extraction well EW-1 be discontinued. The next groundwater sampling is scheduled for April 2004.

Additionally, ASE has received approval from the ACHCSA for a workplan to conduct in-situ chemical oxidation of hydrocarbons in the soil and groundwater below the site. 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

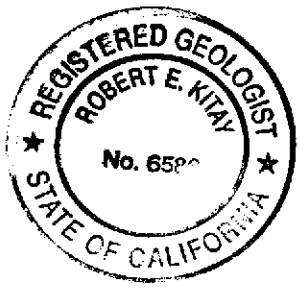
The results presented in this report represent the conditions at the time of the groundwater sampling, at the specific locations where the groundwater samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting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

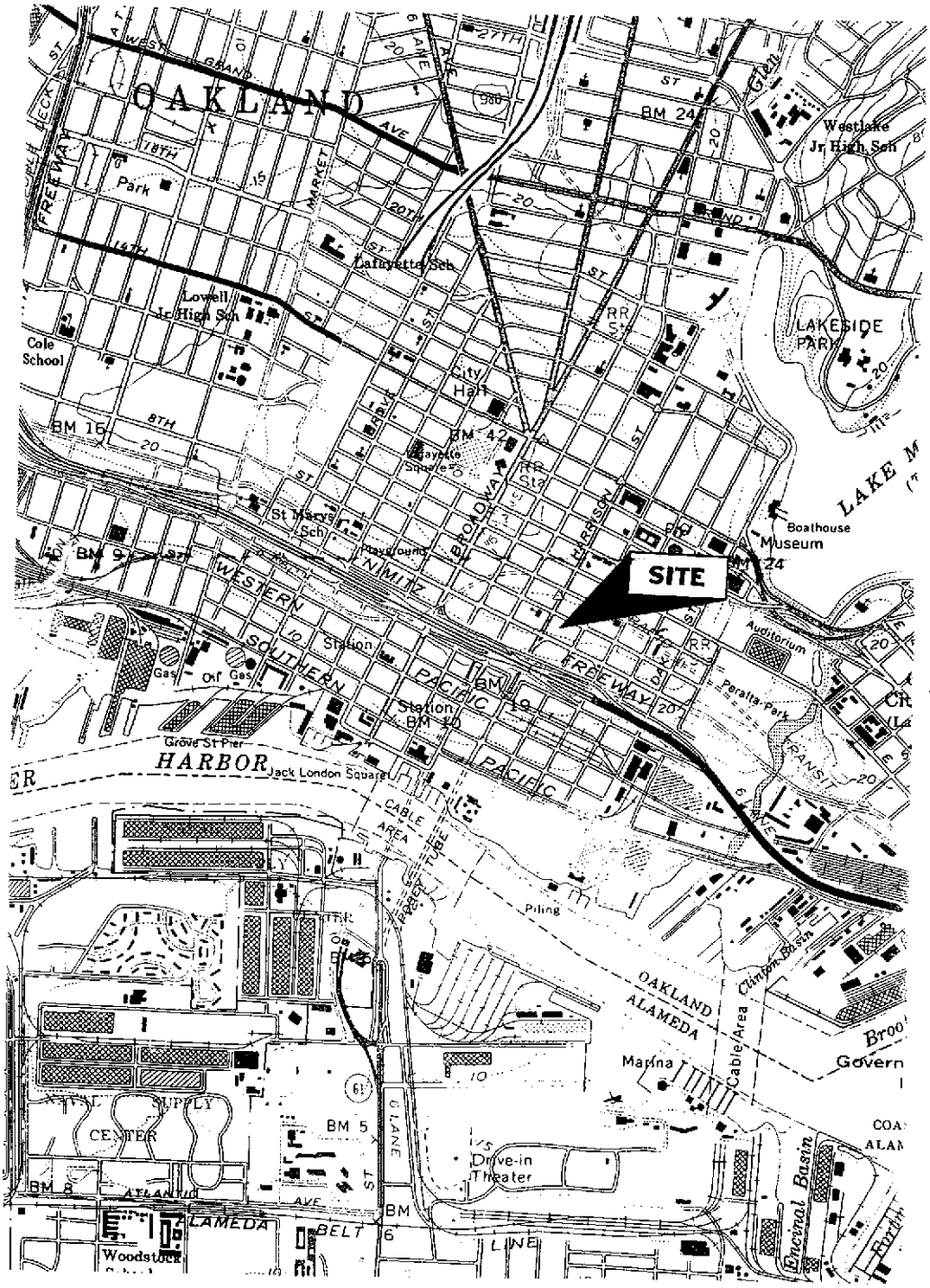
Damian Hriciga
Project Geologist



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 HARRISION STREET
OAKLAND, CALIFORNIA

Aqua Science Engineers | Figure 1

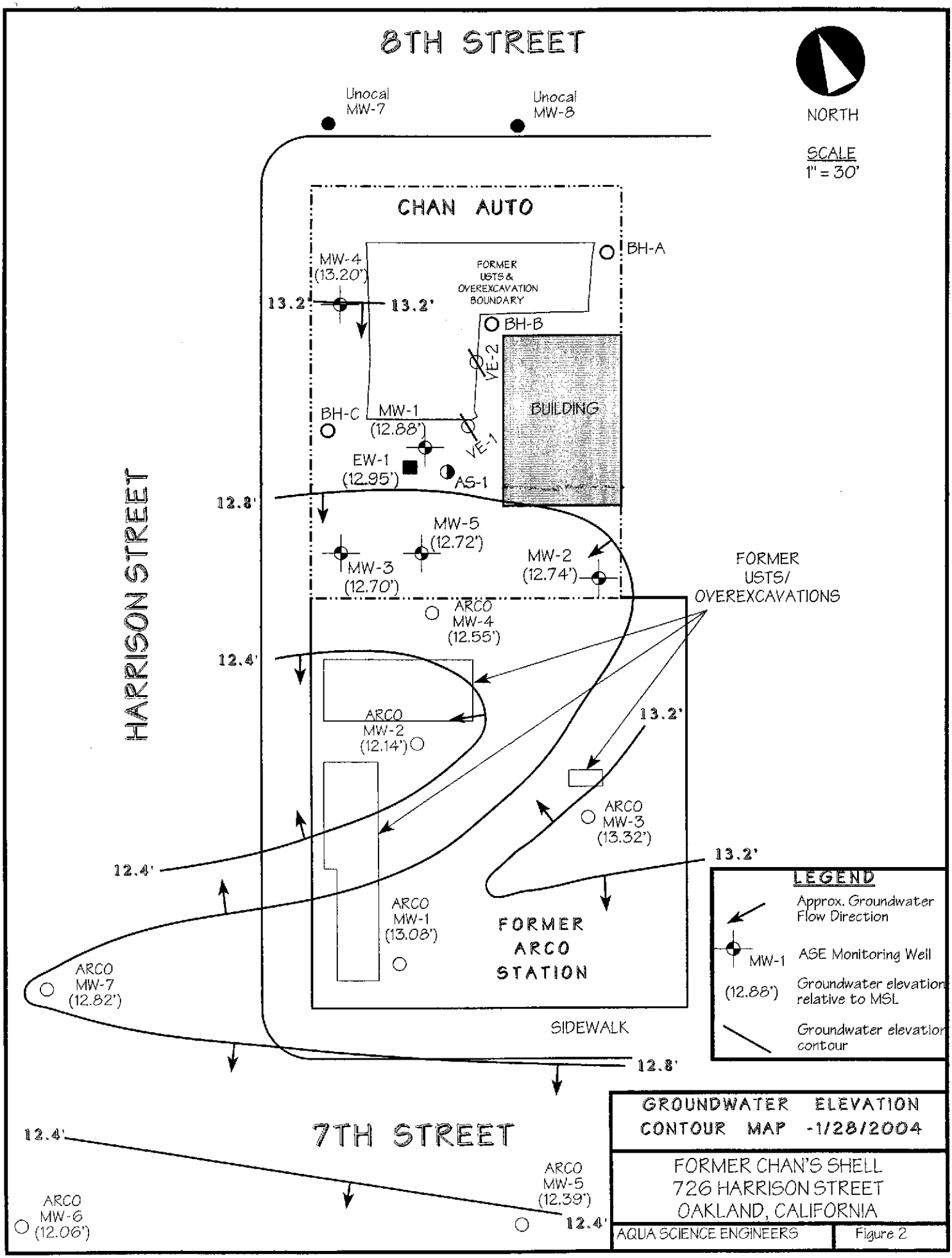

8TH STREET
Unocal MW-7
Unocal MW-8
NORTH
SCALE 1" = 30'
CHAN AUTO
MW-4 (13.20')
FORMER USTS & OVEREXCAVATION BOUNDARY
BH-A
BH-B
VE-2
BUILDING
BH-C
MW-1 (12.88')
VE-1
EW-1 (12.95')
AS-1
MW-5 (12.72')
MW-3 (12.70')
MW-2 (12.74')
FORMER USTS/ OVEREXCAVATIONS
ARCO MW-4 (12.55')
ARCO MW-2 (12.14')
ARCO MW-3 (13.32')
ARCO MW-1 (13.08')
FORMER ARCO STATION
ARCO MW-7 (12.82')
SIDEWALK
HARRISON STREET
13.2'
12.8'
12.4'
LEGEND
Approx. Groundwater Flow Direction
MW-1 ASE Monitoring Well
(12.88') Groundwater elevation relative to MSL
Groundwater elevation contour
7TH STREET
ARCO MW-5 (12.39')
ARCO MW-6 (12.06')
GROUNDWATER ELEVATION CONTOUR MAP -1/28/2004
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	12/15/98	31.95*	17.32	14.63
	3/4/99		15.52	16.43
	6/17/99		16.9	15.05
	8/27/99		17.39	14.56
	12/9/99		18.03	13.92
	3/7/00		15.11	16.84
	6/7/00		16.66	15.29
	10/11/00		18.08	13.87
	1/18/01		17.96	13.99
	4/5/01		16.35	15.60
	7/17/01		16.94	15.01
	10/5/01	28.98	17.35	11.63
	1/18/02		15.40	13.58
	4/11/02		15.76	13.22
	7/8/02		16.17	12.81
	10/9/02		16.72	12.26
	1/29/03		16.26	12.72
	4/11/03		16.56	12.42
	7/18/03		16.42	12.56
	10/9/03		16.88	12.10
	1/28/04		**16.10**	**12.88**
MW-2	12/15/98	32.40*	18.03	14.37
	3/4/99		16.11	16.29
	6/17/99		17.72	14.68
	8/27/99	Inaccessible		
	12/9/99	Inaccessible		
	3/7/00	Inaccessible		
	6/7/00		17.67	14.73
	10/11/00		18.91	13.49
	1/18/01		18.66	13.74
	4/5/01		16.97	15.43
	7/17/01		17.54	14.86
	10/5/01	29.44	17.98	11.46
	1/18/02		15.87	13.57
	4/11/02		16.36	13.08
	7/8/02		16.72	12.72
	10/9/02		17.33	12.11
	1/29/03		16.82	12.62
	4/11/03		17.15	12.29
	7/18/03		17.05	12.39
	10/9/03		17.52	11.92
	1/28/04		**16.70**	**12.74**
MW-3	12/15/98	31.61*	17.26	14.35
	3/4/99		15.47	16.14
	6/17/99		16.92	14.69
	8/27/99		17.40	14.21
	12/9/99		18.01	13.60
	3/7/00		16.15	15.46
	6/7/00		16.85	14.76
	10/11/00		18.07	13.54
	1/18/01		17.89	13.72
	4/5/01		16.21	15.40
	7/17/01		16.90	14.71
	10/5/01	28.64	17.32	11.32
	1/18/02		15.35	13.29
	4/11/02		15.82	12.82
	7/8/02		16.15	12.49
	10/9/02		16.67	11.97
	1/29/03		16.19	12.45
	4/11/03		16.49	12.15
	7/18/03		16.42	12.22
	10/9/03		16.80	11.84
	1/28/03		**15.94**	**12.70**

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	12/15/98	32.53*	17.59	14.94
	3/4/99		15.88	16.65
	6/17/99		17.14	15.39
	8/27/99		17.65	14.88
	12/9/99		18.28	14.25
	3/7/00		15.41	17.12
	6/7/00		17.09	15.44
	10/11/00		18.33	14.20
	1/18/01		18.23	14.30
	4/5/01		16.69	15.84
	7/17/01		17.32	15.21
	10/5/01	29.58	17.71	11.87
	1/18/02		15.85	13.73
	4/11/02		16.14	13.44
	7/8/02		16.56	13.02
	10/9/02		17.09	12.49
	1/29/03		16.65	12.93
	4/11/03		16.93	12.65
	7/18/03		16.78	12.80
	10/9/03		17.26	12.32
	1/28/04		16.38	13.20
MW-5	8/29/01	29.06	17.42	11.64
	1/18/02		15.68	13.38
	4/11/02		16.17	12.89
	7/8/02		16.51	12.55
	10/9/02		17.10	11.96
	1/29/03		16.58	12.48
	4/11/03		16.87	12.19
	7/18/03		16.77	12.29
	10/9/03		17.21	11.85
	1/28/04		16.34	12.72
EW-1	1/18/02	28.89	15.35	13.54
	4/11/02		15.73	13.16
	7/8/02		16.13	12.76
	10/9/02		16.70	12.19
	1/29/03		16.20	12.69
	4/11/03		16.52	12.37
	7/18/03		16.38	12.51
	10/9/03		16.84	12.05
	1/28/04		15.94	12.95

* 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	7/18/03	29.15	14.50	14.65
	10/9/03	26.17	13.81	12.36
	1/28/04		13.09	13.08
MW-2	7/18/03	30.51	16.84	13.67
	10/9/03	27.53	16.05	11.48
	1/28/04		15.39	12.14
MW-3	7/18/03	29.77	14.80	14.97
	10/9/03	26.79	14.13	12.66
	1/28/04		13.47	13.32
MW-4	7/18/03	31.18	17.08	14.10
	10/9/03	28.20	16.25	11.95
	1/28/04		15.65	12.55
MW-5	7/18/03	28.04	14.28	13.76
	10/9/03	25.07	13.36	11.71
	1/28/04		12.68	12.39
MW-6	7/18/03	29.10	15.47	13.63
	10/9/03	26.13	14.73	11.40
	1/28/04		14.05	12.08
MW-7	7/18/03	29.67	15.19	14.48
	10/9/03	26.70	14.45	12.25
	1/28/04		13.88	12.82

* 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
MW-1						
7/3/97	18,000	2,700	350	450	900	7,400
12/5/98	18,000	1,500	270	260	560	14,000
3/4/99	44,000	2,800	400	440	960	43,000
6/17/99	33,000	2,200	250	460	660	25,000
8/27/99	6,000	1,000	97	190	230	14,000/ 16,000*
12/9/99	15,000	1,500	160	220	420	17,000
3/7/00	9,300	1,500	210	66	530	12,000
6/7/00	26,000**	1,700	< 250	360	580	30,000
10/11/00	13,000**	1,600	< 100	140	160	19,000
1/18/01	14,000**	450	< 100	110	230	9,600
4/5/01	38,000	2,200	180	290	590	35,000
7/17/01	35,000**	1,800	< 100	300	170	35,000
10/5/01	17,000	1,500	210	420	790	27,000
1/18/02	18,000	1,500	120	160	220	22,000
4/11/02	41,000	2,700	210	340	380	30,000
7/8/02	36,000	2,800	140	360	300	31,000
10/9/02	30,000	1,700	310	< 100	< 100	19,000
1/29/03	26,000	2,400	< 100	310	520	20,000
4/11/03	22,000	1,700	< 100	270	580	16,000
7/18/03	40,000	3,200	290	480	830	39,000
10/9/03	54,000**	3,300	< 130	350	310	49,000
1/28/04	**26,000*** **	**3,000**	**310**	**420**	**800**	**31,000**
MW-2						
12/5/98	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5
3/4/99		Inaccessible due to car parked over well				
6/17/99	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5
8/27/99		Inaccessible due to car parked over well				
12/9/99		Inaccessible due to car parked over well				
3/7/00		Inaccessible due to car parked over well				
6/7/00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
10/11/00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
1/18/01	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
4/5/01	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
7/17/01		No Longer Sampled				
MW-3						
12/5/98	6,500***	< 50	50	60	50	3,900
3/4/99	2,800	< 25	< 25	< 25	< 25	1,600
6/17/99	1,000	< 10	< 10	< 10	< 10	1,400
8/27/99	230	< 0.5	0.51	0.5	1	1,500/ 1,600*
12/9/99	870**	< 0.5	< 0.5	< 0.5	< 0.5	2,100
3/7/00	150**	4	< 0.5	< 0.5	< 0.5	830
6/7/00	140**	< 0.5	< 0.5	< 0.5	< 0.5	1,100
10/11/00	620**	< 5.0	< 5.0	< 5.0	< 5.0	1,500
1/18/01	1,200**	< 5.0	< 5.0	< 5.0	< 5.0	1,000
4/5/01	1,700**	< 5.0	< 5.0	< 5.0	< 5.0	1,900
7/17/01	1,400**	< 10	< 10	< 10	< 10	1,700
10/5/01	< 1,000	< 10	< 10	< 10	< 10	1,700
1/18/02	1,600	26	20	16	54	2,100
4/11/02	2,600	21	16	< 10	21	2,300
7/8/02	2,800	< 10	< 10	< 10	< 10	3,800
10/9/02	6,000	< 50	< 50	< 50	< 50	4,900
1/29/03	1,800	< 10	< 10	< 10	< 10	2,300
4/11/03	2,900	< 25	< 25	< 25	< 25	3,100
7/18/03	3,400	< 10	< 10	< 10	< 10	3,200
10/9/03	2,300	< 10	< 10	< 10	< 10	2,700
1/28/03	**1,700****	**< 10**	**< 10**	**< 10**	**< 10**	**2,900**

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
MW-4						
12/5/98	880	3	< 0.5	< 0.5	< 0.5	950
3/4/99	3,800	< 25	< 25	< 25	< 25	3,700
6/17/99	2,700	< 25	< 25	< 25	< 25	2,700
8/27/99	440	4.7	1.1	0.58	1.3	1,600/ 1,700*
12/9/99	1,100**	< 2.5	< 2.5	< 2.5	< 2.5	1,700
3/7/00	< 250	< 2.5	< 2.5	< 2.5	< 2.5	1,700
6/7/00	530**	8.8	< 2.5	< 2.5	< 2.5	440
10/11/00	700**	3.9	< 2.5	< 2.5	< 2.5	680
1/18/01	2,000**	< 2.5	< 2.5	< 2.5	< 2.5	780
4/5/01	810**	< 2.5	< 2.5	< 2.5	< 2.5	620
7/17/01	880**	< 2.5	< 2.5	< 2.5	< 2.5	570
10/5/01	550**	< 2.5	< 2.5	< 2.5	< 2.5	710
1/18/02	960**	< 5.0	< 5.0	< 5.0	< 5.0	1,300
4/11/02	1,100**	< 5.0	< 5.0	< 5.0	< 5.0	550
7/8/02	1,200**	< 5.0	< 5.0	< 5.0	< 5.0	890
10/9/02	1,300**	< 5.0	< 5.0	< 5.0	< 5.0	880
1/29/03	530**	< 1.0	< 1.0	< 1.0	< 1.0	190
4/11/03	690**	< 2.5	< 2.5	< 2.5	< 2.5	310
7/18/03	1,600**	< 10	< 10	< 10	< 10	1,300
10/9/03	1500***	< 10	< 10	< 10	< 10	1,400
1/28/04	**1,200****	**< 10**	**< 10**	**< 10**	**< 10**	**1,900**
MW-5						
8/29/01	14,000	1,300	470	230	800	14,000
1/18/02	24,000	3,200	1,300	390	1,500	5,700
4/11/02	23,000	2,700	980	38	950	4,300
7/8/02	19,000	3,300	25	360	1,100	2,100
10/9/02	24,000	2,800	990	360	820	2,400
1/29/03	17,000	2,100	1,400	380	1,400	< 250
4/11/03	26,000	2,900	2,200	590	2,200	630
7/18/03	26,000	3,500	1,700	480	1,300	1,300
10/9/03	27,000	3,800	1,900	510	1,700	1,200
1/28/04	**29,000**	**4,800**	**2,900**	**770**	**2,300**	**3,300**
EW-1						
1/18/02	11,000	1,000	< 100	220	350	6,700
4/11/02	17,000	1,000	< 100	120	140	9,700
7/8/02	21,000	1,300	< 100	< 100	200	12,000
10/9/02	12,000	900	< 25	< 25	200	9,200
1/29/03	12,000	860	73	130	500	4,500
4/11/03	8,700	890	< 25	< 25	82	5,400
7/18/03	8,200	650	77	99	140	4,300
10/9/03	5,700**	500	28	53	35	3,600
1/28/04	**17,000*****	**1,600**	**90**	**250**	**280**	**9,700**
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
MW-1						
7/18/03	<50	<0.5	<0.5	<0.5	<0.5	<5.0
10/9/03	<50	<0.5	<0.5	<0.5	<0.5	<5.0
1/28/04	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-2						
7/18/03	57,000	2,100	8,700	2,200	10,000	<50*
10/9/03	49,000	1,800	7,000	1,700	7,600	26*
1/28/04	**550**	**21**	**33**	**3**	**61**	**<100**
MW-3						
7/18/03	<50	<0.5	<0.5	<0.5	<0.5	<5.0
1/28/04	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-4						
7/18/03	<50	<0.5	<0.5	<0.5	<0.5	0.74*
10/9/03	210	5	0.57	1.6	1.1	10*
1/28/04	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-5						
7/18/03	<50	<0.5	<0.5	<0.5	<0.5	<5.0
1/28/04	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-6						
7/18/03	<50	<0.5	<0.5	<0.5	<0.5	<5.0
1/28/04	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-7						
7/18/03	<50	<0.5	<0.5	<0.5	<0.5	<5.0
1/28/04	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
ESL	400	46	130	290	13	1,800

Notes:

* EPA Method 8260

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.

APPENDIX A

Well Sampling Field Logs

aqua science engineers inc.

WELL SAMPLING FIELD LOG

Project Name and Address: SHAN - OAKLAND
Job #: 3412 Date of sampling: 1/26/04
Well Name: MW-1 Sampled by: DH
Total depth of well (feet): 27.2 Well diameter (inches): 2
Depth to water before sampling (feet): 10.10
Thickness of floating product if any: —
Depth of well casing in water (feet): 17.1
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): 5.3
Equipment used to purge the well: BAILER
Time Evacuation Began: 8:20 Time Evacuation Finished: 8:36
Approximate volume of groundwater purged: —
Did the well go dry?: NO After how many gallons: —
Time samples were collected: 8:35
Depth to water at time of sampling: 10.16
Percent recovery at time of sampling: —
Samples collected with: BAILER
Sample color: — Odor: HC
Description of sediment in sample: —

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
2	63.2	6.55	692
4	62.9	6.67	708
6	63.7	6.70	687

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-1	3	40 ml VOA	HCl	Y	

aqua science engineers inc.

WELL SAMPLING FIELD LOG

Project Name and Address: CHAN CAKLAND
Job #: 3412 Date of sampling: 1/25/04
Well Name: MW-2 Sampled by: AM
Total depth of well (feet): _____ Well diameter (inches): 2
Depth to water before sampling (feet): 16.70
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: _____ Odor: _____
Description of sediment in sample: _____

NOT SAMPLED THIS QUARTER

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity

SAMPLES COLLECTED

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

aqua science engineers inc.

WELL SAMPLING FIELD LOG

Project Name and Address: CHAN / OAKLAND
Job #: 3412 Date of sampling: 1/28/04
Well Name: MW-3 Sampled by: DH
Total depth of well (feet): 29.7 Well diameter (inches): 2
Depth to water before sampling (feet): 15.94
Thickness of floating product if any: —
Depth of well casing in water (feet): 13.76
Number of gallons per well casing volume (gallons): 2.2
Number of well casing volumes to be removed: 3
Req'd volume of groundwater to be purged before sampling (gallons): 6.6
Equipment used to purge the well: BAILER
Time Evacuation Began: 935 Time Evacuation Finished: 950
Approximate volume of groundwater purged: 6.6
Did the well go dry?: No After how many gallons: —
Time samples were collected: 955
Depth to water at time of sampling: 16.71
Percent recovery at time of sampling: —
Samples collected with: BAILER
Sample color: — Odor: —
Description of sediment in sample: —

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
2.2	63.7	6.79	627
4.4	65.4	6.40	630
6.6	66.0	6.43	647

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-3	3	VOA	HCl	Y	

aqua science engineers inc.

WELL SAMPLING FIELD LOG

Project Name and Address: CHAN / OAKLAND
Job #: 3412 Date of sampling: 1/28/04
Well Name: MW-4 Sampled by: DM
Total depth of well (feet): 29.7 Well diameter (inches): 2
Depth to water before sampling (feet): 16.38
Thickness of floating product if any: —
Depth of well casing in water (feet): 13.32
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): 6.4
Equipment used to purge the well: BAILER
Time Evacuation Began: 1005 Time Evacuation Finished: 1020
Approximate volume of groundwater purged: 6.6
Did the well go dry?: NO After how many gallons: —
Time samples were collected: 1025
Depth to water at time of sampling: 17.42
Percent recovery at time of sampling: —
Samples collected with: BAILER
Sample color: — Odor: HC
Description of sediment in sample: —

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
2.2	66.6	6.06 5.80	761
4.4	67.2	6.57	680
6.6	67.5	6.72	679

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-4	3	40 mL VOA	HCl	Y	

aqua science engineers inc.

WELL SAMPLING FIELD LOG

Project Name and Address: CHAN / OAKLAND
Job #: 5912 Date of sampling: 12/8/04
Well Name: MW-5 Sampled by: DH
Total depth of well (feet): 28.5 Well diameter (inches): 2
Depth to water before sampling (feet): 16.54
Thickness of floating product if any: —
Depth of well casing in water (feet): 12.16
Number of gallons per well casing volume (gallons): 1.9
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: 745 Time Evacuation Finished: 800
Approximate volume of groundwater purged: 6
Did the well go dry?: NO After how many gallons: —
Time samples were collected: 805
Depth to water at time of sampling: 16.99
Percent recovery at time of sampling: —
Samples collected with: BAILER
Sample color: — Odor: MC
Description of sediment in sample: —

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
2	67.5	7.44	1085
4	67.6	7.44	1079
6	67.4	7.42	1011

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
MW-5	3	40 mL VOA	HCl	Y	

aqua science engineers inc.

WELL SAMPLING FIELD LOG

Project Name and Address: CITY OF OAKLAND
Job #: 3417
Well Name: EW-1
Date of sampling: 1/28/07
Sampled by: DH
Total depth of well (feet): 28.5
Well diameter (inches): 6
Depth to water before sampling (feet): 15.94
Thickness of floating product if any:
Depth of well casing in water (feet): 12.56
Number of gallons per well casing volume (gallons): 2" = 18.8
Number of well casing volumes to be removed: 3
Req'd volume of groundwater to be purged before sampling (gallons): 56
Equipment used to purge the well: SUB PUMP BAILER
Time Evacuation Began: 0815 Time Evacuation Finished: 0915
Approximate volume of groundwater purged: 56
Did the well go dry?: NO After how many gallons:
Time samples were collected: 0920
Depth to water at time of sampling: @ 16.81
Percent recovery at time of sampling:
Samples collected with: BAILER
Sample color: Odor: NONE
Description of sediment in sample:

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
1.5	64.7	6.90	598
32	64.1	6.97	602
56	63.9	6.96	611

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
EW-1	2	40 ml VOA		Y	

APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation

SEVERN TRENT STL

Submission#: 2004-01-0777

Aqua Science Engineers, Inc.

February 05, 2004

208 West El Pintado Road
Danville, CA 94526

Attn.: Robert Kitay

Project#: 3412
Project: Chan
Site: Oakland, CA

Dear Mr. Kitay,

Attached is our report for your samples received on 01/29/2004 11:13
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 03/14/2004 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: ssidhu@stl-inc.com

Sincerely,

Surinder Sidhu

Surinder Sidhu
Project Manager

SEVERN TRENT STL

Submission #: 2004-01-0777

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.
Attn.: Robert Kitay

208 West El Pintado Road
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412
Chan

Received: 01/29/2004 11:13

Site: Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	01/28/2004 08:35	Water	1
MW-3	01/28/2004 09:55	Water	2
MW-4	01/28/2004 10:25	Water	3
MW-5	01/28/2004 08:05	Water	4
EW-1	01/28/2004 09:20	Water	5

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.
Attn.: Robert Kitay

208 West El Pintado Road
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412
Chan

Received: 01/29/2004 11:13

Site: Oakland, CA

Prep(s): 5030
5030

Test(s): 8015M
8021B

Sample ID: **MW-1**

Lab ID: 2004-01-0777 - 1

Sampled: 01/28/2004 08:35

Extracted: 1/30/2004 17:44

Matrix: Water

QC Batch#: 2004/01/30-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	26000	13000	ug/L	250.00	01/30/2004 17:44	dp
Benzene	3000	130	ug/L	250.00	01/30/2004 17:44	
Toluene	310	130	ug/L	250.00	01/30/2004 17:44	
Ethyl benzene	420	130	ug/L	250.00	01/30/2004 17:44	
Xylene(s)	800	130	ug/L	250.00	01/30/2004 17:44	
MTBE	31000	1300	ug/L	250.00	01/30/2004 17:44	
Surrogate(s)						
Trifluorotoluene	95.4	58-124	%	1.00	01/30/2004 17:44	
4-Bromofluorobenzene-FID	99.3	50-150	%	1.00	01/30/2004 17:44	

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Robert Kitay

208 West El Pintado Road
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412
Chan

Received: 01/29/2004 11:13

Site: Oakland, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**MW-3**	Lab ID:	2004-01-0777 - 2
Sampled:	01/28/2004 09:55	Extracted:	1/30/2004 19:04
Matrix:	Water	QC Batch#:	2004/01/30-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1700	1000	ug/L	20.00	01/30/2004 19:04	g
Benzene	ND	10	ug/L	20.00	01/30/2004 19:04	
Toluene	ND	10	ug/L	20.00	01/30/2004 19:04	
Ethyl benzene	ND	10	ug/L	20.00	01/30/2004 19:04	
Xylene(s)	ND	10	ug/L	20.00	01/30/2004 19:04	
MTBE	2900	100	ug/L	20.00	01/30/2004 19:04	
Surrogate(s)						
Trifluorotoluene	90.7	58-124	%	1.00	01/30/2004 19:04	
4-Bromofluorobenzene-FID	101.0	50-150	%	1.00	01/30/2004 19:04	

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.
Attn.: Robert Kitay

208 West El Pintado Road
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412
Chan

Received: 01/29/2004 11:13

Site: Oakland, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**MW-4**	Lab ID:	2004-01-0777 - 3
Sampled:	01/28/2004 10:25	Extracted:	1/30/2004 19:31
Matrix:	Water	QC Batch#:	2004/01/30-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1200	1000	ug/L	20.00	01/30/2004 19:31	g
Benzene	ND	10	ug/L	20.00	01/30/2004 19:31	
Toluene	ND	10	ug/L	20.00	01/30/2004 19:31	
Ethyl benzene	ND	10	ug/L	20.00	01/30/2004 19:31	
Xylene(s)	ND	10	ug/L	20.00	01/30/2004 19:31	
MTBE	1900	100	ug/L	20.00	01/30/2004 19:31	
Surrogate(s)						
Trifluorotoluene	90.6	58-124	%	1.00	01/30/2004 19:31	
4-Bromofluorobenzene-FID	100.3	50-150	%	1.00	01/30/2004 19:31	

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Robert Kitay

208 West El Pintado Road
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412
Chan

Received: 01/29/2004 11:13

Site: Oakland, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**MW-5**	Lab ID:	2004-01-0777 - 4
Sampled:	01/28/2004 08:05	Extracted:	1/30/2004 19:58
Matrix:	Water	QC Batch#:	2004/01/30-01.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	29000	5000	ug/L	100.00	01/30/2004 19:58	
Benzene	4800	50	ug/L	100.00	01/30/2004 19:58	
Toluene	2900	50	ug/L	100.00	01/30/2004 19:58	
Ethyl benzene	770	50	ug/L	100.00	01/30/2004 19:58	
Xylene(s)	2300	50	ug/L	100.00	01/30/2004 19:58	
MTBE	3300	500	ug/L	100.00	01/30/2004 19:58	
Surrogate(s)						
Trifluorotoluene	108.7	58-124	%	1.00	01/30/2004 19:58	
4-Bromofluorobenzene-FID	100.7	50-150	%	1.00	01/30/2004 19:58	

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.
Attn.: Robert Kitay

208 West El Pintado Road
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412
Chan

Received: 01/29/2004 11:13

Site: Oakland, CA

Prep(s):	5030 5030	Test(s):	8015M 8021B
Sample ID:	**EW-1**	Lab ID:	2004-01-0777 - 5
Sampled:	01/28/2004 09:20	Extracted:	2/2/2004 14:55
Matrix:	Water	QC Batch#:	2004/02/02-01.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	17000	5000	ug/L	100.00	02/02/2004 14:55	dp
Benzene	1600	50	ug/L	100.00	02/02/2004 14:55	
Toluene	90	50	ug/L	100.00	02/02/2004 14:55	
Ethyl benzene	250	50	ug/L	100.00	02/02/2004 14:55	
Xylene(s)	280	50	ug/L	100.00	02/02/2004 14:55	
MTBE	9700	500	ug/L	100.00	02/02/2004 14:55	
Surrogate(s)						
Trifluorotoluene	78.2	58-124	%	100.00	02/02/2004 14:55	
4-Bromofluorobenzene-FID	55.4	50-150	%	100.00	02/02/2004 14:55	

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Robert Kitay

208 West El Pintado Road
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412
Chan

Received: 01/29/2004 11:13

Site: Oakland, CA

Batch QC Report

Prep(s): 5030 Test(s): 8015M

Method Blank **Water** **QC Batch # 2004/01/30-01.01**

MB: 2004/01/30-01.01-003 Date Extracted: 01/30/2004 07:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/30/2004 07:24	
Benzene	ND	0.5	ug/L	01/30/2004 07:24	
Toluene	ND	0.5	ug/L	01/30/2004 07:24	
Ethyl benzene	ND	0.5	ug/L	01/30/2004 07:24	
Xylene(s)	ND	0.5	ug/L	01/30/2004 07:24	
MTBE	ND	5.0	ug/L	01/30/2004 07:24	
Surrogates(s)					
Trifluorotoluene	92.9	58-124	%	01/30/2004 07:24	
4-Bromofluorobenzene-FID	95.2	50-150	%	01/30/2004 07:24	

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Robert Kitay

208 West El Pintado Road
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412
Chan

Received: 01/29/2004 11:13

Site: Oakland, CA

Batch QC Report

Prep(s): 5030
Method Blank

Water

Test(s): 8015M
QC Batch # 2004/02/02-01.05

MB: 2004/02/02-01.05-009

Date Extracted: 02/02/2004 10:58

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/02/2004 10:58	
Benzene	ND	0.5	ug/L	02/02/2004 10:58	
Toluene	ND	0.5	ug/L	02/02/2004 10:58	
Ethyl benzene	ND	0.5	ug/L	02/02/2004 10:58	
Xylene(s)	ND	0.5	ug/L	02/02/2004 10:58	
MTBE	ND	5.0	ug/L	02/02/2004 10:58	
Surrogates(s)					
Trifluorotoluene	88.3	58-124	%	02/02/2004 10:58	
4-Bromofluorobenzene-FID	70.3	50-150	%	02/02/2004 10:58	

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Robert Kitay

208 West El Pintado Road
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412
Chan

Received: 01/29/2004 11:13

Site: Oakland, CA

Batch QC Report

Prep(s): 5030

Test(s): 8021B

Laboratory Control Spike **Water** **QC Batch # 2004/01/30-01.01**

LCS 2004/01/30-01.01-004 Extracted: 01/30/2004 Analyzed: 01/30/2004 07:51

LCSD 2004/01/30-01.01-005 Extracted: 01/30/2004 Analyzed: 01/30/2004 08:18

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	51.3	52.3	50.0	102.6	104.6	1.9	77-123	20		
Toluene	53.6	54.9	50.0	107.2	109.8	2.4	78-122	20		
Ethyl benzene	54.1	52.6	50.0	108.2	105.2	2.8	70-130	20		
Xylene(s)	149	153	150	99.3	102.0	2.7	75-125	20		
Surrogates(s)										
Trifluorotoluene	451	474	500	90.2	94.8		58-124			

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.
Attn.: Robert Kitay

208 West El Pintado Road
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412
Chan

Received: 01/29/2004 11:13

Site: Oakland, CA

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike **Water** **QC Batch # 2004/01/30-01.01**

LCS 2004/01/30-01.01-006 Extracted: 01/30/2004 Analyzed: 01/30/2004 08:44
LCSD 2004/01/30-01.01-007 Extracted: 01/30/2004 Analyzed: 01/30/2004 09:11

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Gasoline	252	257	250	100.8	102.8	2.0	75-125	20		
Surrogates(s)										
4-Bromofluorobenzene-FID	489	512	500	97.8	102.4		50-150			

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.
Attn.: Robert Kitay

208 West El Pintado Road
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412
Chan

Received: 01/29/2004 11:13

Site: Oakland, CA

Batch QC Report

Prep(s): 5030

Test(s): 8021B

Laboratory Control Spike **Water** **QC Batch # 2004/02/02-01.05**

LCS 2004/02/02-01.05-005 Extracted: 02/02/2004 Analyzed: 02/02/2004 08:51
LCSD 2004/02/02-01.05-006 Extracted: 02/02/2004 Analyzed: 02/02/2004 09:23

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	101	98.6	100.0	101.0	98.6	2.4	77-123	20		
Toluene	103	98.0	100.0	103.0	98.0	5.0	78-122	20		
Ethyl benzene	93.1	90.2	100.0	93.1	90.2	3.2	70-130	20		
Xylene(s)	299	290	300	99.7	96.7	3.1	75-125	20		
Surrogates(s)										
Trifluorotoluene	501	474	500	100.2	94.8		58-124			

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.
Attn.: Robert Kitay

208 West El Pintado Road
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412
Chan

Received: 01/29/2004 11:13

Site: Oakland, CA

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike **Water** **QC Batch # 2004/02/02-01.05**

LCS 2004/02/02-01.05-007 Extracted: 02/02/2004 Analyzed: 02/02/2004 09:55
LCSD 2004/02/02-01.05-008 Extracted: 02/02/2004 Analyzed: 02/02/2004 10:26

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Gasoline	478	456	500	95.6	91.2	4.7	75-125	20		
Surrogates(s)										
4-Bromofluorobenzene-FID	382	371	500	76.4	74.2		50-150			

Gas/BTEX Compounds by 8015M/8021

Aqua Science Engineers, Inc.

Attn.: Robert Kitay

208 West El Pintado Road
Danville, CA 94526
Phone: (925) 820-9391 Fax: (925) 837-4853

Project: 3412
Chan

Received: 01/29/2004 11:13

Site: Oakland, CA

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.

2004-01-0777

82422

Chain of Custody

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

PAGE 1 OF 1

SAMPLER (SIGNATURE)

PROJECT NAME JHAN JOB NO. 3412

ADDRESS OAKLAND, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:
PLEASE SEND EDF

T0600102122

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GAS / MTBE & BTEX (EPA 8030/8015+8021)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	PURGEABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/5240/8260)	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 OXYS/1,2 DCA/EDC (EPA 8260)	LEAD		
MW-1	1/28/04	835	W	3	X																
MW-3	1/28/04	955	W	3	X																
MW-4	1/28/04	1025	W	3	X																
MW-5	1/28/04	845	W	3	X																
EW-1	1/28/04	0920	W	3	X																

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:
(signature) (time)	(signature) (time)	(signature) (time)	(signature) (time)
Yvonne Schiell 1/29/04	B Molina 1/29/04	B Molina 1/29/04	D Harrington 1131
(printed name) (date)	(printed name) (date)	(printed name) (date)	(printed name) (date)
Company: ASE	Company: STL-SF	Company: STL-SF	Company: STL-SF 1/29/04

COMMENTS:

2.0°C

TURN AROUND TIME

STANDARD 24Hr 48Hr 72Hr

OTHER: