

4/19/03
C. H. W. P.
AS

March 31, 2003

Alameda County
APR 04 2003
Environmental Health

QUARTERLY GROUNDWATER MONITORING REPORT
MARCH 2003 GROUNDWATER SAMPLING
ASE JOB NO. 3648

at
1310 Central Avenue
Alameda, California

Prepared for:
Mr. Nissan Saidian
5733 Medallion Court
Castro Valley, CA 94522

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

1310 Central Avenue
Alameda, CA

Responsible Party

Mr. Nissan Saidian
5733 Medallion Court
Castro Valley, CA 94522

Environmental Consulting Firm

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

Agency Review

Mr. Amir Gholami
Alameda County Health Care Services Agency (ACHCSA)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Mr. Chuck Headlee
California Regional Water Quality Control Board (RWQCB)
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

The following is a report detailing the methods and findings of the March 10, 2003 quarterly groundwater sampling at the above-referenced site (*Figure 1*). This sampling was conducted as required by the ACHCSA and RWQCB. ASE has prepared this report on behalf of Mr. Nissan Saidian, owner of the property.

2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On March 10, 2003, ASE measured the depth to water in each site groundwater 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 site monitoring well. Groundwater elevation data is presented as *Table One*.

A groundwater potentiometric surface map is presented as *Figure 2*. Groundwater beneath the site flows to the northwest with a gradient of approximately 0.007-feet/foot. This gradient is consistent with the previous quarter's results and the off-site distribution of hydrocarbons found during a previous subsurface investigation.

3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

Prior to sampling, all monitoring wells were purged of three well casing volumes of groundwater using dedicated polyethylene bailers. Petroleum hydrocarbon odors were present during the purging and sampling of monitoring wells MW-1 and MW-3. The parameters pH, temperature, and conductivity were monitored during the well purging, and samples were not collected until the parameters stabilized. Groundwater samples were collected from each well using dedicated polyethylene bailers.

All samples were decanted from the bailers into 40-ml volatile organic analysis (VOA) vials, pre-preserved with hydrochloric acid, and sealed without headspace. The samples were then labeled and placed in a cooler with wet ice for transport to Kiff Analytical, LLC of Davis, California under appropriate chain-of-custody documentation. Well sampling field logs are presented in *Appendix A*.

The well purge water was placed in 55-gallon steel drums and labeled for temporary storage.

The groundwater samples collected from all three site monitoring wells were analyzed for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethyl benzene, and total xylenes (collectively known as BTEX), and fuel oxygenates by EPA Method 8260, and total petroleum hydrocarbons as diesel (TPH-D) by EPA Method 3550/8015M. The analytical results are presented in *Table Two*, and the certified analytical report and chain-of-custody documentation are included as *Appendix B*.

4.0 CONCLUSIONS

The groundwater beneath the site flows to the northwest with a gradient of approximately 0.007-feet/foot.

Groundwater samples collected from monitoring well MW-1 continue to show a decreasing trend in concentrations of TPH-G and benzene, while the concentrations of toluene, ethyl benzene, and total xylenes have risen slightly since the previous quarter. Groundwater samples collected from monitoring well MW-2 contained TPH-D at a concentration of 3,000 ppb, which is the highest concentration ever detected at this well. The MTBE detected in the groundwater sample collected from monitoring well MW-2 decreased from 16 ppb last quarter to 1 ppb this quarter. The hydrocarbon concentrations detected in groundwater samples collected from monitoring well MW-3 have risen slightly this quarter and remain elevated.

The TPH-G and total xylene concentrations detected in groundwater samples collected from monitoring well MW-1 exceeded Risk-Based Screenings Levels (RBSLs) for groundwater that is not a current or potential source of drinking water as presented in the "Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region dated December 2001. The TPH-D detected in the groundwater samples collected from monitoring well MW-2 and the TPH-G, benzene, and total xylene concentrations detected in the groundwater sample collected from monitoring well MW-3 also exceeded the RBSLs.

5.0 RECOMMENDATIONS

ASE recommends that this site remain on a quarterly sampling schedule. The next sampling is scheduled for March 2003. ASE is awaiting approval of the workplan dated December 13, 2002 for the additional work needed to be performed at the site. Following the approval of the workplan, the cost for the additional assessment will require pre-approval from the UST Cleanup Fund.

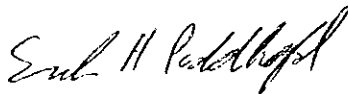
6.0 REPORT LIMITATIONS

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 independent CAL-EPA certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

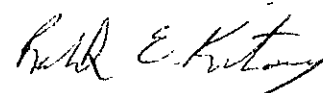
Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project, and trust that this report meets your needs. Please feel free to call us at (925) 820-9391 if you have any questions or comments.

Respectfully submitted,

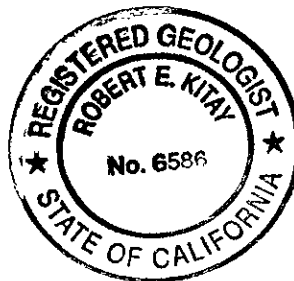
AQUA SCIENCE ENGINEERS, INC.



Erik H. Paddleford
Associate Geologist



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



Attachments: Table One and Two
Figures 1 and 2
Appendices A and B

cc: Mr. Nissan Saidian
Mr. Amir Gholami, ACHCSA
Mr. Chuck Headlee, RWQCB, San Francisco Bay Region

TABLES

TABLE ONE
 Groundwater Elevation Data
 Saidian Property-Alameda
 Alameda, CA

Well	Date of Measurement	Top of Casing Elevation (msl)	Depth to Water (feet)	Groundwater Elevation (msl)
MW-1	9/6/99	26.85	5.16	21.69
	5/16/00		3.24	23.61
	8/3/00		4.15	22.70
	12/5/00		4.90	21.95
	3/5/01		3.04	23.81
	6/4/01		4.01	22.84
	6/5/02		3.73	23.12
	9/9/02		5.06	21.79
	12/19/02		4.09	22.76
	3/10/03		3.50	23.35
MW-2	9/6/99	27.18	5.56	21.62
	5/16/00		3.52	23.66
	8/3/00		4.44	22.74
	12/5/00		5.24	21.94
	3/5/01		3.28	23.90
	6/4/01		4.33	22.85
	6/5/02		3.98	23.20
	9/9/02		5.34	21.84
	12/19/02		4.33	22.85
	3/10/03		3.58	23.60
MW-3	9/6/00	25.30	4.02	21.28
	5/16/00		2.06	23.24
	8/3/00		3.20	22.10
	12/5/00		3.71	21.59
	3/5/01		1.90	23.40
	6/4/01		2.72	22.58
	6/5/02		2.75	22.55
	9/9/02		3.88	21.42
	12/19/02		2.79	22.51
	3/10/03		2.36	22.94

TABLE TWO
 Summary of Chemical Analysis of GROUNDWATER Samples
 Suidan Property-Alameda
 Petroleum Hydrocarbons
 Concentrations are in parts per billion (ppb)

No. Date Sampled	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	TAME	TBA	Other Compounds
MW-1										
9/6/1999	5,700	8,700	170	59	22	85	20,000	NA	NA	NA
5/16/2000	20,000	< 7,500	38	6.3	740	1,600	< 5.0	< 5.0	< 5.0	< 5.0
8/3/2000	20,000	< 6,000	56	9.7	920	1,600	< 0.5	< 0.5	< 5.0	< 0.5
12/5/2000	31,000	< 4,000	64	27	820	2,200	< 10	< 5.0	< 5.0	< 5.0
3/5/2001	20,000	< 4,000	19	< 5.0	480	870	< 5.0	< 5.0	< 5.0	< 5.0
6/4/2001	23,000	< 7,000	58	50	710	2,100	5.1	< 5.0	< 5.0	< 5.0
6/5/2002	7,400	< 1,500	9.3	6.7	180	230	< 1.0	< 1.0	< 1.0	< 1.0
9/9/2002	8,300	< 3,500	32	20	390	670	< 2.0	< 2.0	< 2.0	< 2.0
12/19/2002	5,100	--	7.9	2.5	56	93	< 1.0	< 1.0	< 1.0	< 1.0
3/10/2003	2,000	< 2,000	3.4	2.9	80	98	< 0.5	< 0.5	< 5.0	< 0.5
MW-2										
9/6/1999	6,000	70	1,300	92	50	400	6,800	NA	NA	NA
5/16/2000	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 5.0
8/3/2000	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5
12/5/2000	< 50	1,400	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5
3/5/2001	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5
6/4/2001	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5
6/5/2002	< 50	2,300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5
9/9/2002	< 50	1,300	< 0.5	< 0.5	< 0.5	< 0.5	1.4	< 0.5	< 5.0	< 0.5
12/19/2002	< 50	--	< 0.5	< 0.5	< 0.5	< 0.5	16	< 0.5	< 5.0	< 0.5
3/10/2003	< 50	3,000	< 0.5	< 0.5	< 0.5	< 0.5	1.0	< 0.5	< 5.0	< 0.5
MW-3										
9/6/1999	43,000	870	860	70	< 0.5	65	120,000	NA	NA	NA
5/16/2000	17,000	< 5,000	2,800	60	380	190	990	9.1	350	< 5.0
8/3/2000	16,000	< 2,000	1,600	29	210	53	1,200	21	260	< 2.0
12/5/2000	17,000	5,800	1,700	45	460	240	1,100	21	230	< 5.0
3/5/2001	29,000	< 1300	2,100	68	280	100	180	< 8.0	< 80	< 8.0
6/4/2001	17,000	< 6,000	2,000	56	340	230	300	< 10	130	< 10
6/5/2002	11,000	< 2,000	1,600	46	210	47	790	< 10	220	< 10
9/9/2002	12,000	< 800	1,400	44	130	27	760	< 10	160	< 10
12/19/2002	10,000	--	740	32	180	38	86	< 5.0	< 50	< 5.0
3/10/2003	13,000	< 6,000	1,200	42	240	35	470	5.3	140	< 5.0
RBSL	500	640	16	130	290	13	1,800	NE	NE	VARIABLE

Notes

MTBE = Methyl-t-butyl ether

TAME = Tert-amyl methyl ether

TBA = Tert-Butanol

RBSL = Risk Based Screening Levels presented in the "Application of Risk-Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region, dated December 2001

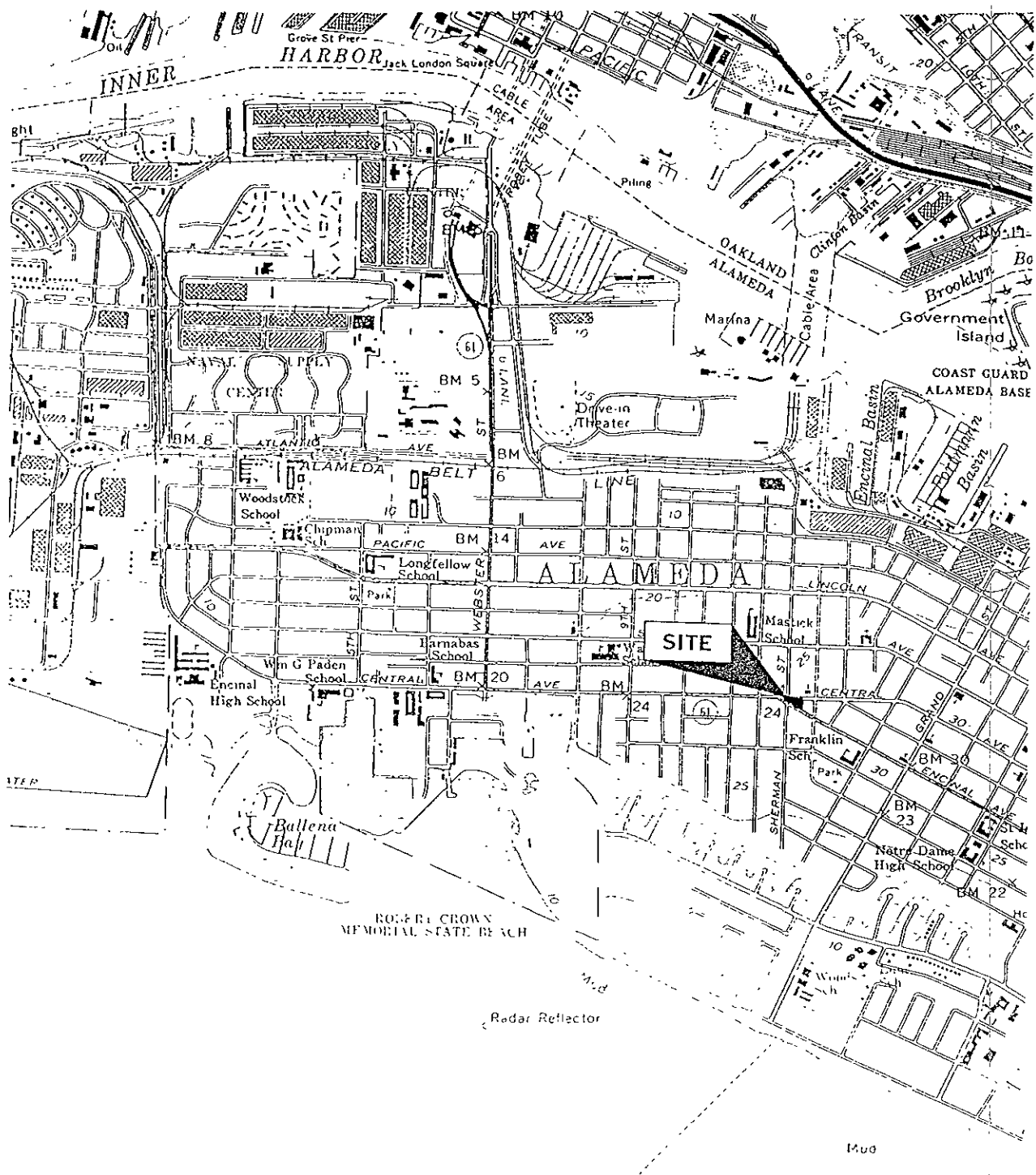
NA = Samples Not Analyzed for this compound

NE = DHS MCLs are not established

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

Most recent data in bold

FIGURES



LOCATION MAP

SAIDIAN PROPERTY
 1310 CENTRAL AVENUE
 ALAMEDA, CALIFORNIA

RESIDENTIAL

RESIDENTIAL

SIDEWALK

CENTRAL AVENUE

APPROXIMATE
LOCATION OF
FORMER AND
CURRENT
USTs

ISLAND

SIDEWALK

MW-3
(22.94')

CANOPY

MW-1
(23.35')

CASHIER

SERVICE
BAYS

MW-2
(23.60')

RESIDENTIAL

RESIDENTIAL

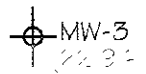
SHERMAN STREET

ENCINAL AVENUE

SIDEWALK

RESIDENTIAL

LEGEND

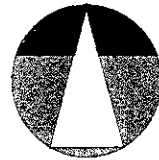


MW-3
(22.94')
MONITORING WELL WITH
GROUNDWATER ELEVATION IN FEET
AND PIEZOMETRIC HEAD

POTENTIAL SURFACE
ELEVATION



RELATIVE
ELEVATION



N



FEET

POTENTIOMETRIC
SURFACE CONTOUR MAP
3/10/03

SHIDIN PROPERTY
1310 CENTRAL AVENUE
ALAMEDA, CALIFORNIA

APPENDIX A

Well Sampling Field Logs



WELL SAMPLING FIELD LOG

Project Name and Address: Saidign - Alameda
 Job #: 3648 Date of sampling: 3/10/03
 Well Name: Mur-1 Sampled by: ep
 Total depth of well (feet): 18.0 Well diameter (inches): 2
 Depth to water before sampling (feet): 3.50
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 14.5
 Number of gallons per well casing volume (gallons): 23
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 7
 Equipment used to purge the well: baiter
 Time Evacuation Began: 1440 Time Evacuation Finished: 1500
 Approximate volume of groundwater purged: 7
 Did the well go dry?: no After how many gallons: -
 Time samples were collected: 1505
 Depth to water at time of sampling: -
 Percent recovery at time of sampling: -
 Samples collected with: baiter
 Sample color: clear/grey Odor: slight
 Description of sediment in sample: silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>67.4</u>	<u>6.58</u>	<u>379</u>
<u>2</u>	<u>66.8</u>	<u>6.60</u>	<u>380</u>
<u>3</u>	<u>66.2</u>	<u>6.60</u>	<u>382</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>Mur-1</u>	<u>5</u>	<u>40 ml VOA</u>	<u>X</u>	<u>X</u>	



WELL SAMPLING FIELD LOG

Project Name and Address: Saidian - Alameda
 Job #: 3648 Date of sampling: 3/10/07
 Well Name: MW-2 Sampled by: TP
 Total depth of well (feet): 17.80 Well diameter (inches): _____
 Depth to water before sampling (feet): 3.58
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 14.22
 Number of gallons per well casing volume (gallons): 2.3
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 7
 Equipment used to purge the well: baiter
 Time Evacuation Began: 1515 Time Evacuation Finished: 1535
 Approximate volume of groundwater purged: 7
 Did the well go dry?: no After how many gallons: -
 Time samples were collected: 1540
 Depth to water at time of sampling: -
 Percent recovery at time of sampling: -
 Samples collected with: baiter
 Sample color: clear/brown Odor: nat
 Description of sediment in sample: silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>65.0</u>	<u>6.45</u>	<u>365</u>
<u>2</u>	<u>64.2</u>	<u>6.43</u>	<u>360</u>
<u>3</u>	<u>63.8</u>	<u>6.41</u>	<u>357</u>
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-2</u>	<u>5</u>	<u>40 ml VOA</u>	<u>x</u>	<u><</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____



WELL SAMPLING FIELD LOG

Project Name and Address: Sardinia - Alameda
 Job #: 3648 Date of sampling: 3/10/02
 Well Name: MW-3 Sampled by: cp
 Total depth of well (feet): 18.0 Well diameter (inches): 2
 Depth to water before sampling (feet): ~~2.90~~ 2.30
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 15.1
 Number of gallons per well casing volume (gallons): 2.4
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 7
 Equipment used to purge the well: bauler
 Time Evacuation Began: 1545 Time Evacuation Finished: 1600
 Approximate volume of groundwater purged: 7
 Did the well go dry?: no After how many gallons: -
 Time samples were collected: 1610
 Depth to water at time of sampling: -
 Percent recovery at time of sampling: -
 Samples collected with: bauler
 Sample color: clear/gray Odor: moderate to strong
 Description of sediment in sample: silt

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>65.1</u>	<u>6.69</u>	<u>625</u>
<u>2</u>	<u>65.1</u>	<u>6.59</u>	<u>629</u>
<u>3</u>	<u>65.5</u>	<u>6.53</u>	<u>631</u>

SAMPLES COLLECTED

Sample	# of containers	Volume & type container	Pres	Iced?	Analysis
<u>MW-3</u>	<u>5</u>	<u>40 ml VOA</u>	<u>x</u>	<u>x</u>	

APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation



Report Number . 32076

Date : 3/24/2003

Eric Paddleford
Aqua Science Engineers, Inc.
208 West El Pintado Rd
Danville, CA 94526

Subject : 3 Water Samples
Project Name : Saidian-Alameda
Project Number : 3648

Dear Mr. Paddleford,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures, or results, please call me at 530-297-4800.

Sincerely,


Joel Kiff



Report Number : 32076

Date : 3/24/2003

Project Name : **Saidian-Alameda**

Project Number : **3648**


Sample : **MW-1**

Matrix : Water

Lab Number : 32076-01

Sample Date : 3/10/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	3.4	0.50	ug/L	EPA 8260B	3/16/2003
Toluene	2.9	0.50	ug/L	EPA 8260B	3/16/2003
Ethylbenzene	80	0.50	ug/L	EPA 8260B	3/16/2003
Total Xylenes	98	0.50	ug/L	EPA 8260B	3/16/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/16/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/16/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/16/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/16/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/16/2003
TPH as Gasoline	2000	50	ug/L	EPA 8260B	3/16/2003
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	3/16/2003
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	3/16/2003
TPH as Diesel	< 2000	2000	ug/L	M EPA 8015	3/15/2003

Approved By:  Joel Kiff

2795 2nd St , Suite 300 Davis, CA 95616 530-297-4800



Report Number : 32076

Date : 3/24/2003

Project Name : **Saidian-Alameda**

Project Number : **3648**

Sample : **MW-2**

Matrix : **Water**

Lab Number : **32076-02**

Sample Date : **3/10/2003**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/13/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/13/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/13/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/13/2003
Methyl-t-butyl ether (MTBE)	1.0	0.50	ug/L	EPA 8260B	3/13/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/13/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/13/2003
Toluene - d8 (Surr)	94.0		% Recovery	EPA 8260B	3/13/2003
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	3/13/2003
TPH as Diesel	3000	50	ug/L	M EPA 8015	3/15/2003

Approved By:  Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 32076 ;

Date : 3/24/2003

Project Name : Saidian-Alameda

Project Number : 3648


Sample : MW-3

Matrix : Water

Lab Number : 32076-03

Sample Date : 3/10/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1200	5.0	ug/L	EPA 8260B	3/19/2003
Toluene	42	5.0	ug/L	EPA 8260B	3/19/2003
Ethylbenzene	240	5.0	ug/L	EPA 8260B	3/19/2003
Total Xylenes	35	5.0	ug/L	EPA 8260B	3/19/2003
Methyl-t-butyl ether (MTBE)	470	5.0	ug/L	EPA 8260B	3/19/2003
Diisopropyl ether (DIPE)	< 5.0	5.0	ug/L	EPA 8260B	3/19/2003
Ethyl-t-butyl ether (ETBE)	< 5.0	5.0	ug/L	EPA 8260B	3/19/2003
Tert-amyl methyl ether (TAME)	5.3	5.0	ug/L	EPA 8260B	3/19/2003
Tert-Butanol	140	50	ug/L	EPA 8260B	3/19/2003
TPH as Gasoline	13000	500	ug/L	EPA 8260B	3/19/2003
Toluene - d8 (Surr)	110		% Recovery	EPA 8260B	3/19/2003
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	3/19/2003
TPH as Diesel	< 6000	6000	ug/L	M EPA 8015	3/15/2003

Approved By:  Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 32076

Date : 3/24/2003

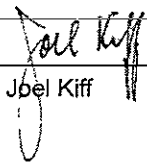
QC Report : Method Blank Data

Project Name : **Saidian-Alameda**

Project Number : **3648**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	3/15/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/16/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/16/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/16/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/16/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/16/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/16/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/16/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/16/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/16/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/16/2003
Toluene - d8 (Surr)	99.9		%	EPA 8260B	3/16/2003
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	3/16/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/13/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/13/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/13/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/13/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	3/13/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	3/13/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/13/2003
Toluene - d8 (Surr)	94.5		%	EPA 8260B	3/13/2003
4-Bromofluorobenzene (Surr)	105		%	EPA 8260B	3/13/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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Approved By:  Joel Kiff

Report Number : 32076

Date : 3/24/2003

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Saidian-Alameda**

Project Number : **3648**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	881	994	ug/L	M EPA 8015	3/15/03	88.1	99.4	12.1	70-130	25
Benzene	32076-01	3.4	39.9	40.0	43.6	43.5	ug/L	EPA 8260B	3/16/03	101	100	0.655	70-130	25
Toluene	32076-01	2.9	39.9	40.0	42.6	42.9	ug/L	EPA 8260B	3/16/03	99.4	99.8	0.467	70-130	25
Tert-Butanol	32076-01	<5.0	200	200	201	191	ug/L	EPA 8260B	3/16/03	101	95.7	5.10	70-130	25
Methyl-t-Butyl Ether	32076-01	<0.50	39.9	40.0	38.3	37.4	ug/L	EPA 8260B	3/16/03	96.0	93.6	2.58	70-130	25
Benzene	32076-02	<0.50	40.0	40.0	38.4	37.4	ug/L	EPA 8260B	3/13/03	96.1	93.6	2.69	70-130	25
Toluene	32076-02	<0.50	40.0	40.0	37.1	36.3	ug/L	EPA 8260B	3/13/03	92.8	90.7	2.37	70-130	25
Tert-Butanol	32076-02	<5.0	200	200	198	196	ug/L	EPA 8260B	3/13/03	99.0	98.2	0.852	70-130	25
Methyl-t-Butyl Ether	32076-02	1.0	40.0	40.0	38.7	39.4	ug/L	EPA 8260B	3/13/03	94.2	95.8	1.74	70-130	25

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

QC Report : Laboratory Control Sample (LCS)

Report Number : 32076

Date : 3/24/2003

Project Name : **Saidian-Alameda**

Project Number : **3648**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	3/16/03	101	70-130
Toluene	40.0	ug/L	EPA 8260B	3/16/03	99.3	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/16/03	96.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/16/03	95.7	70-130
Benzene	40.0	ug/L	EPA 8260B	3/13/03	94.6	70-130
Toluene	40.0	ug/L	EPA 8260B	3/13/03	92.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/13/03	94.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/13/03	90.5	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff



2795 2nd Street, Suite 300
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4808

Lab No. 32076 Page 1 of 1

Project Contact (Hardcopy or PDF To):
Erik Paddelford

California EDF Report? Yes No

Chain-of-Custody Record and Analysis Request

Company/Address:
ASE, Danville, CA

Recommended but not mandatory to complete this section:
 Sampling Company Log Code: - - -

Phone No.: 925-820-9391

FAX No.:

Global ID:

Project Number:
3648

P.O. No.:

EDF Deliverable To (Email Address):

Project Name:
Sagidian - Alameda

Sampler Signature:
Erik Paddelford

Project Address:
1310 Central Ave
 Alameda, CA

Sampling		Container		Preservative				Matrix	
Date	Time	40 ml VOA	SLEEVE	HCl	HNO ₃	ICE	NONE	WATER	SOIL

Sample Designation

MW-1
MW-2
MW-3

<u>3/10/03</u>	<u>1505</u>	<u>5</u>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
<u>↓</u>	<u>1540</u>	<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>	
<u>↓</u>	<u>1610</u>	<u>↓</u>		<u>↓</u>		<u>↓</u>		<u>↓</u>	

Analysis Request													TAT
BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	12 hr / 24 hr / 48 hr / 72 hr (1 wk)
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>

For Lab Use Only

Relinquished by:
Erik Paddelford

Date: _____ Time: _____ Received by: _____

Remarks:

Relinquished by: _____

Date: _____ Time: _____ Received by: _____

Relinquished by: _____

Date: 03/10/03 Time: 1530 Received by Laboratory: B. J. [Signature] Kiff Analytical

Bill to: