

June 24, 2002

JUN 28 2002

QUARTERLY GROUNDWATER MONITORING REPORT  
JUNE 2002 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. Barney Chan  
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 June 5, 2002 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 June 5, 2002, 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 southwest with a gradient of approximately 0.0083-feet/foot, which is relatively consistent with previous findings.

## 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 coolers 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 diesel (TPH-D) by EPA Method 3550/8015M, 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. 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 flow was to the southwest at a gradient of 0.0083 feet/foot, which is relatively consistent with previous findings.

Groundwater samples collected from monitoring well MW-1 contained 7,400 parts per billion (ppb) TPH-G, 9.3 ppb benzene, 6.7 ppb toluene, 180 ppb ethyl benzene, and 230 ppb total xylenes. No oxygenates were detected in groundwater samples collected from monitoring well MW-1. The groundwater samples collected from monitoring well MW-2 contained 2,300 ppb TPH-D. No other hydrocarbons or oxygenates were detected in the groundwater sample collected from monitoring well MW-2. The groundwater samples collected from monitoring well MW-3 contained 11,000 ppb TPH-G, 1,600 ppb benzene, 46 ppb toluene, 210 ppb ethyl benzene, 47 ppb total xylenes, 790 ppb methyl-tertiary-butyl ether (MTBE), and 220 ppb tert-butanol (TBA). No other oxygenates were detected in monitoring well MW-3.

The benzene concentration detected in groundwater samples collected from monitoring well MW-3 exceeded the Risk-Based Screening Level (RBSL) 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 August 2000. The TPH-G and total xylene concentrations in the water samples collected from monitoring wells MW-1 and MW-3 also exceeded the RBSLs. The TPH-D concentration in water samples collected from monitoring well MW-2 also exceeded the RBSL for that compound.

Hydrocarbon concentrations in groundwater samples collected from monitoring well MW-1 have decreased since the last sampling period. TPH-D concentration detected in the water sample collected from MW-2 has increased substantially since the previous sampling period. The TPH-G and BTEX concentrations in the water samples collected from monitoring well MW-3 decreased since the previous sampling period, although the MTBE and TBA concentrations increased during this same period.

#### 5.0 RECOMMENDATIONS

ASE recommends that this site be sampled on a quarterly sampling schedule. The next sampling is scheduled for September 2002. In addition,

a workplan to conduct additional environmental assessment activities at the site will be prepared during the next quarter.

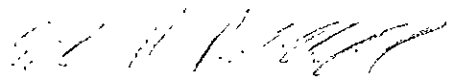
## 6.0 REPORT LIMITATIONS

The results of this sampling 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.

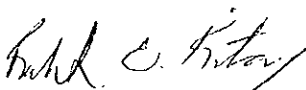
Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project, and trust that this report meets your needs. Please feel free to call us at (925) 820-9391 if you have any questions or comments.

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. Barney Chan, ACHCSA  
Mr. Chuck Headlee, RWQCB, San Francisco Bay Region

# TABLES

TABLE ONE  
 Groundwater Elevation Data  
 Saldian 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
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
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

## TABLE TWO

### Summary of Chemical Analysis of GROUNDWATER Samples

Saidian Property-Alameda

Petroleum Hydrocarbons

All results are in parts per billion (ppb)

Well/ Date Sampled	TPH Gasoline	TPH Diesel	Serzens	Tolylene	Ethyl Benzene	Total Xylenes	MTBE	TAME	TBA	Other Oxygenates
<u>MW-1</u>										
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	< 50	< 5.0
8/3/2000	20,000	< 6,000	56	9.7	920	1,600	< 0.5	< 0.5	< 50	< 0.5
12/5/2000	31,000	< 4,000	64	27	820	2,200	< 10	< 50	< 50	< 5.0
3/5/2001	20,000	< 4,000	19	< 5.0	480	870	< 5.0	< 5.0	< 50	< 5.0
6/4/2001	23,000	< 7,000	58	50	710	2,100	5.1	< 5.0	< 50	< 5.0
6/5/2002	7,400	< 1,500	9.3	6.7	180	230	< 1.0	< 1.0	< 10	< 1.0
<u>MW-2</u>										
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	< 50	< 5.0
8/3/2000	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 0.5
12/5/2000	< 50	1,400	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 0.5
3/5/2001	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 0.5
6/4/2001	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 0.5
6/5/2002	< 50	2,300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 50	< 0.5
<u>MW-3</u>										
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
RBSL	500	640	46	130	290	15	1,500	NE	NE	VARIES

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 August 2000.

NA = Samples Not Analyzed for this compound.

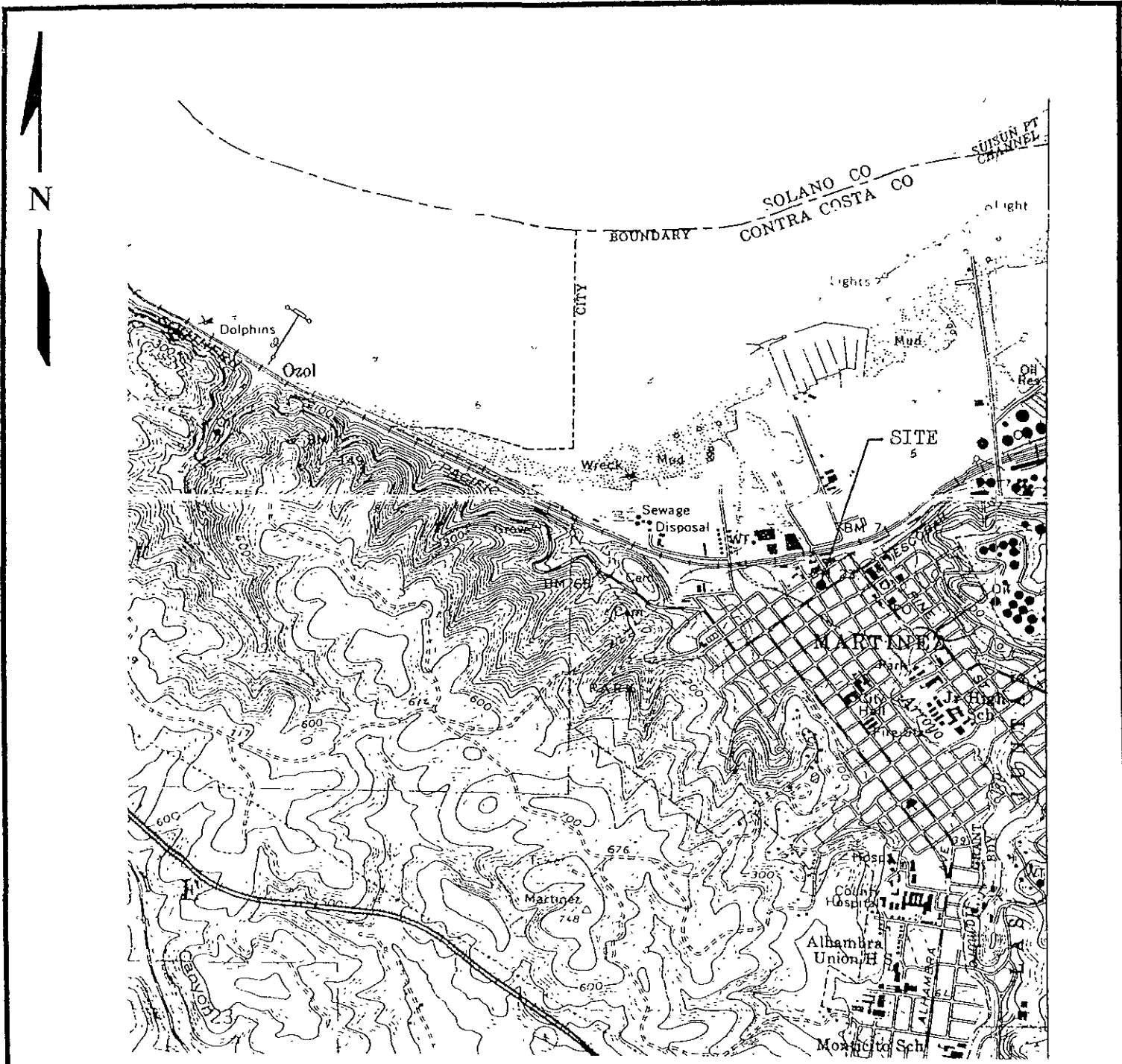
NE = DHS MCLs are not established.

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

Most recent data in bold.

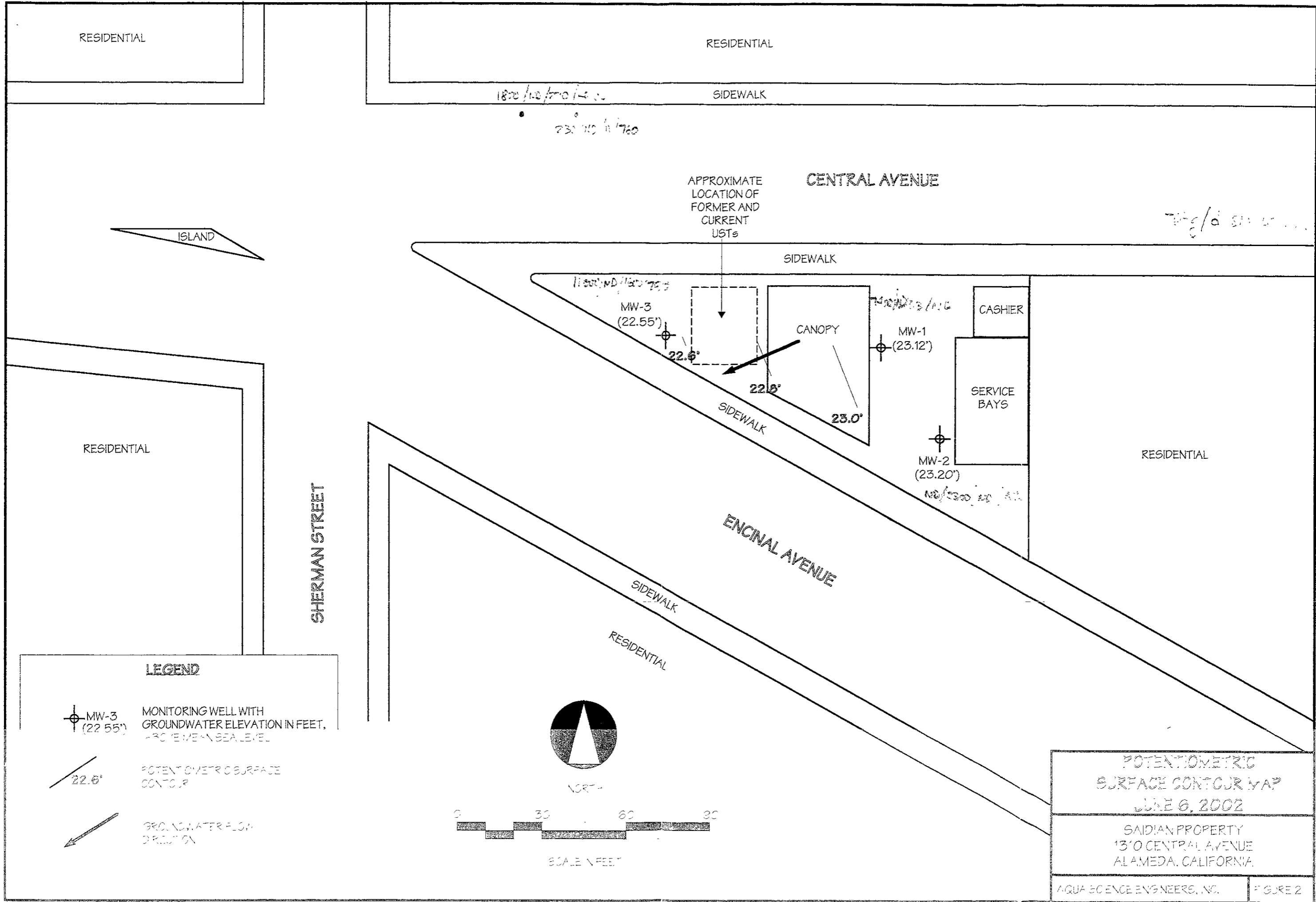


## **FIGURES**



<b>SITE LOCATION MAP</b>	
Former Tucker Property 735 Escobar Street Martinez, California	
Aqua Science Engineers	Figure 1

BASE Benicia, Calif. 7.5 minute quadrangle topographic map,  
dated 1980, scale 1:24,000.



RESIDENTIAL

RESIDENTIAL

1870 / 110 / 710 / 140

SIDEWALK

230' / 110' / 760

CENTRAL AVENUE

APPROXIMATE  
LOCATION OF  
FORMER AND  
CURRENT  
USTs

70' / 6' / 5' / 10'

ISLAND

SIDEWALK

1100' / 110' / 760' / 760'

MW-3  
(22.55')

CANOPY

1100' / 110' / 760'

MW-1  
(23.12')

CASHIER

SERVICE  
BAYS

RESIDENTIAL

RESIDENTIAL

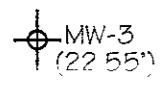
SHERMAN STREET

ENCINAL AVENUE

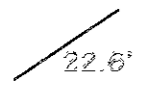
SIDEWALK

RESIDENTIAL

**LEGEND**



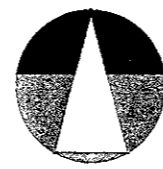
MW-3  
(22.55')  
MONITORING WELL WITH  
GROUNDWATER ELEVATION IN FEET,  
ABOVE MEAN SEA LEVEL



22.6'  
POTENTIOMETRIC SURFACE  
CONTOUR



GROUNDWATER FLOW  
DIRECTION



NORTH



SCALE IN FEET

POTENTIOMETRIC  
SURFACE CONTOUR MAP  
JUNE 6, 2002

SAIDIAN PROPERTY  
1310 CENTRAL AVENUE  
ALAMEDA, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC.

FIGURE 2

# **APPENDIX A**

Well Sampling Field Logs



# WELL SAMPLING FIELD LOG

Project Name and Address: Saidian - Alameda  
 Job #: 3849 Date of sampling: 6/5/02  
 Well Name: MW-3 Sampled by: EP  
 Total depth of well (feet): 18.0 Well diameter (inches): 2  
 Depth to water before sampling (feet): 2.75  
 Thickness of floating product if any: —  
 Depth of well casing in water (feet): 15.25  
 Number of gallons per well casing volume (gallons): 2.44  
 Number of well casing volumes to be removed: ~~7.32~~ 3  
 Req'd volume of groundwater to be purged before sampling (gallons): 7.32  
 Equipment used to purge the well: bailer  
 Time Evacuation Began: 1305 Time Evacuation Finished: 1320  
 Approximate volume of groundwater purged: 7.0  
 Did the well go dry?: no After how many gallons: —  
 Time samples were collected: 1330  
 Depth to water at time of sampling: —  
 Percent recovery at time of sampling: —  
 Samples collected with: bailer  
 Sample color: clear/grey Odor: moderate  
 Description of sediment in sample: silt

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>72.7</u>	<u>6.30</u>	<u>621</u>
<u>2</u>	<u>71.3</u>	<u>6.28</u>	<u>618</u>
<u>3</u>	<u>71.0</u>	<u>6.25</u>	<u>617</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>	



# WELL SAMPLING FIELD LOG

Project Name and Address: Seidigh - Alameda  
 Job #: 3648 Date of sampling: 6/5/02  
 Well Name: MW-2 Sampled by: \_\_\_\_\_  
 Total depth of well (feet): 17.80 Well diameter (inches): \_\_\_\_\_  
 Depth to water before sampling (feet): 3.98  
 Thickness of floating product if any: -  
 Depth of well casing in water (feet): 13.82  
 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: 1200 Time Evacuation Finished: 1215  
 Approximate volume of groundwater purged: 6.5  
 Did the well go dry?: NO After how many gallons: -  
 Time samples were collected: 1220  
 Depth to water at time of sampling: -  
 Percent recovery at time of sampling: -  
 Samples collected with: bailer  
 Sample color: clear/brown Odor: none  
 Description of sediment in sample: silt

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>70.1</u>	<u>6.20</u>	<u>626</u>
<u>2</u>	<u>70.1</u>	<u>6.19</u>	<u>422</u>
<u>3</u>	<u>69.9</u>	<u>6.18</u>	<u>381</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>x</u>	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____



# WELL SAMPLING FIELD LOG

Project Name and Address: Saidian - Alameda  
 Job #: 3648 Date of sampling: 6/5/02  
 Well Name: MW-1 Sampled by: EP  
 Total depth of well (feet): 18.0 Well diameter (inches): 2  
 Depth to water before sampling (feet): 3.73  
 Thickness of floating product if any: -  
 Depth of well casing in water (feet): 14.27  
 Number of gallons per well casing volume (gallons): 2.28  
 Number of well casing volumes to be removed: -  
 Req'd volume of groundwater to be purged before sampling (gallons): 6.8  
 Equipment used to purge the well: bailer  
 Time Evacuation Began: 1230 Time Evacuation Finished: 1245  
 Approximate volume of groundwater purged: 6.5  
 Did the well go dry?: no After how many gallons: -  
 Time samples were collected: 1255  
 Depth to water at time of sampling: -  
 Percent recovery at time of sampling: -  
 Samples collected with: bailer  
 Sample color: clear/gray Odor: slight  
 Description of sediment in sample: silt

## CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1</u>	<u>70.2</u>	<u>6.31</u>	<u>541</u>
<u>2</u>	<u>70.0</u>	<u>6.28</u>	<u>536</u>
<u>3</u>	<u>69.8</u>	<u>6.25</u>	<u>5.34</u>

## SAMPLES COLLECTED

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

## **APPENDIX B**

Certified Analytical Report  
and  
Chain of Custody Documentation





Report Number : 26754

Date : 6/14/2002

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 : 26754

Date : 6/14/2002

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

## Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples MW-2, MW-1, MW-3 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample. The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for samples MW-1 and MW-3.

Approved By:   
Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800



Report Number : 26754

Date : 6/14/2002

Project Name : **Saidian - Alameda**

Project Number : **3648**

Sample : **MW-1**

Matrix : Water

Lab Number : 26754-01

Sample Date :6/5/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	9.3	1.0	ug/L	EPA 8260B	6/10/2002
Toluene	6.7	1.0	ug/L	EPA 8260B	6/10/2002
Ethylbenzene	180	1.0	ug/L	EPA 8260B	6/10/2002
Total Xylenes	230	1.0	ug/L	EPA 8260B	6/10/2002
Methyl-t-butyl ether (MTBE)	< 1.0	1.0	ug/L	EPA 8260B	6/10/2002
Diisopropyl ether (DIPE)	< 1.0	1.0	ug/L	EPA 8260B	6/10/2002
Ethyl-t-butyl ether (ETBE)	< 1.0	1.0	ug/L	EPA 8260B	6/10/2002
Tert-amyl methyl ether (TAME)	< 1.0	1.0	ug/L	EPA 8260B	6/10/2002
Tert-Butanol	< 10	10	ug/L	EPA 8260B	6/10/2002
TPH as Gasoline	7400	100	ug/L	EPA 8260B	6/10/2002
Toluene - dB (Surr)	99.8		% Recovery	EPA 8260B	6/10/2002
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	6/10/2002
TPH as Diesel	< 1500	1500	ug/L	M EPA 8015	6/12/2002

Approved By:  Joel Kiff



Report Number : 26754

Date : 6/14/2002

Project Name : **Saidian - Alameda**

Project Number : **3648**

Sample : **MW-2**

Matrix : Water

Lab Number : 26754-02

Sample Date :6/5/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/9/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/9/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	6/9/2002
4-Bromofluorobenzene (Surr)	99.0		% Recovery	EPA 8260B	6/9/2002
TPH as Diesel	2300	50	ug/L	M EPA 8015	6/12/2002

Approved By:  Joel Kiff



Report Number : 26754

Date : 6/14/2002

Project Name : **Saidian - Alameda**

Project Number : **3648**

Sample : **MW-3**

Matrix : Water

Lab Number : 26754-03

Sample Date :6/5/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1600	10	ug/L	EPA 8260B	6/10/2002
Toluene	46	10	ug/L	EPA 8260B	6/10/2002
Ethylbenzene	210	10	ug/L	EPA 8260B	6/10/2002
Total Xylenes	47	10	ug/L	EPA 8260B	6/10/2002
Methyl-t-butyl ether (MTBE)	790	10	ug/L	EPA 8260B	6/10/2002
Diisopropyl ether (DIPE)	< 10	10	ug/L	EPA 8260B	6/10/2002
Ethyl-t-butyl ether (ETBE)	< 10	10	ug/L	EPA 8260B	6/10/2002
Tert-amyl methyl ether (TAME)	< 10	10	ug/L	EPA 8260B	6/10/2002
Tert-Butanol	220	100	ug/L	EPA 8260B	6/10/2002
TPH as Gasoline	11000	1000	ug/L	EPA 8260B	6/10/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	6/10/2002
4-Bromofluorobenzene (Surr)	99.3		% Recovery	EPA 8260B	6/10/2002
TPH as Diesel	< 2000	2000	ug/L	M EPA 8015	6/11/2002

Approved By:  Joel Kiff

Report Number : 26754

Date : 6/14/2002

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	6/10/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2002
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/9/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/9/2002
Toluene - d8 (Surr)	100		%	EPA 8260B	6/9/2002
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	6/9/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  Joel Kiff

Report Number : 26754

Date : 6/14/2002

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	1060	1100	ug/L	M EPA 8015	6/10/02	106	110	3.75	70-130	25
Benzene	26757-02	23	37.6	38.7	53.8	60.6	ug/L	EPA 8260B	6/9/02	82.5	97.7	16.9	70-130	25
Toluene	26757-02	1.1	37.6	38.7	32.8	38.0	ug/L	EPA 8260B	6/9/02	84.3	95.4	12.4	70-130	25
Tert-Butanol	26757-02	650	188	193	823	834	ug/L	EPA 8260B	6/9/02	92.6	96.0	3.66	70-130	25
Methyl-t-Butyl Ether	26757-02	300	37.6	38.7	332	319	ug/L	EPA 8260B	6/9/02	72.2	34.9	69.6	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

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

# Chain of Custody

26754

PAGE 1 OF 1

SAMPLER (SIGNATURE)

*E. Poddiford*

PROJECT NAME Saidian - Alameda

JOB NO. 3648

ADDRESS 1310 Central Ave., Alameda, CA

## ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

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)
					MW-1	6/5/02	1255	Water	5		XXX								
MW-2	↓	1220	↓	↓		XXX												XXX	
MW-3	↓	1330	↓	↓		XXX												XXX	

01  
02  
03

RELINQUISHED BY:  
*E. Poddiford*  
 (signature) (time)

RECEIVED BY:  
 \_\_\_\_\_  
 (signature) (time)

RELINQUISHED BY:  
 \_\_\_\_\_  
 (signature) (time)

RECEIVED BY LABORATORY:  
*John Cuttle* 10/15  
 (signature) (time)

COMMENTS:  
 1,2-DCP = 1,2-dichloropropane

*E. Poddiford*  
 (printed name) (date)

\_\_\_\_\_  
 (printed name) (date)

\_\_\_\_\_  
 (printed name) (date)

*John Cuttle* 10/15  
 (printed name) (date)

TURN AROUND TIME  
 STANDARD 24+ 48+ 72+

Company-  
*ASF*

Company-  
 \_\_\_\_\_

Company-  
 \_\_\_\_\_

Company-  
*KIFF*

OTHER:  
 \_\_\_\_\_