

ema

July 31, 2003

ROGS

Alameda County
AUG 03 2003
Environmental Health

QUARTERLY GROUNDWATER MONITORING REPORT
JUNE 2003 GROUNDWATER SAMPLING
ASE JOB NO. 3540

at
Oakland Truck Stop
8255 San Leandro Street
Oakland, 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
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1.0 INTRODUCTION

Site Location (Site), See Figure 1

Oakland Truck Stop
8255 San Leandro Street
Oakland, California

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 June 2003 quarterly groundwater sampling at the above-referenced site. 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 6, 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 using an electronic oil/water interface probe. The presence of free-floating hydrocarbons was confirmed with a disposable bailer half-filled for direct observation. Monitoring well MW-1 contained approximately 4.63-feet of free-floating diesel this quarter. ASE has been performing periodic free-product removal again this quarter. No free-floating hydrocarbons or sheen was observed in any of the remaining site monitoring wells. Groundwater elevation data is presented as Table One.

A groundwater potentiometric surface map for June 5, 2003 is presented as Figure 2. Groundwater beneath the site flows to the west and northwest with a gradient of approximately 0.0051 feet/foot. The groundwater flow direction at the site has been very inconsistent and highly variable.

3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

Prior to sampling, monitoring wells MW-2 through MW-9 were purged of three well casing volumes of groundwater using dedicated polyethylene bailers. The parameters pH, temperature, and conductivity were monitored during the well purging. Samples were not collected until these parameters stabilized. Groundwater samples were collected from each well using dedicated polyethylene bailers. Since free-floating hydrocarbons were present in monitoring well MW-1, this well was not sampled.

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 were analyzed for total petroleum hydrocarbons as diesel (TPH-D) by EPA Method 3550/8015M, and total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethylbenzene, and

total xylenes (collectively known as BTEX), and oxygenates by EPA Method 8260B. The analytical results are presented in Table Two. The certified analytical report and chain-of-custody documentation are included as Appendix B.

4.0 CONCLUSIONS

Monitoring well MW-1 contained approximately 4.63-feet of free-floating diesel hydrocarbons. ASE will once again perform product removal from this well as needed.

The benzene and MTBE concentrations detected in groundwater samples collected from monitoring wells MW-3 and MW-6 exceeded the Risk Based Screening Levels (RBSLs) for sites where groundwater 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. Additionally, the total xylenes concentration in the sample collected from MW-3 also exceeded its RBSL. With the exceptions of monitoring wells MW-8 and MW-9, hydrocarbon concentrations generally increased this quarter.

5.0 RECOMMENDATIONS

ASE recommends that this site remain on a quarterly sampling schedule. The next sampling is scheduled for September 2003. ASE will continue periodic free-product removal from monitoring well MW-1 during the next quarter. In addition, ASE anticipates conducting a pilot study for ozone sparging remediation at the site once an approval letter is received from the ACHCSA.

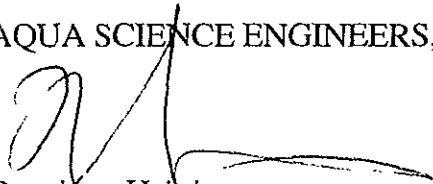
6.0 REPORT LIMITATIONS

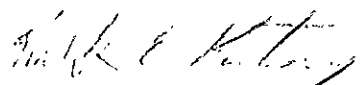
The results presented in this report represent conditions at the time of the groundwater sampling, at the specific locations where the groundwater samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from 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-DHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

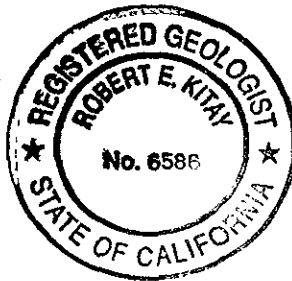
Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project, and trust that this report meets your needs. Please feel free to call us at (925) 820-9391 if you have any questions or comments.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.


Damian Hriciga
Project Geologist


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



Attachments: Table One through Three
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

FIGURES

TABLE ONE
Groundwater Elevation Data
Oakland Truck Stop
8255 San Leandro Street, Oakland, CA

Well ID & Date Sampled	Top of Casing Elevation (me)	Depth to Water (feet)	Free-Floating Hydrocarbon Thickness (feet)	Groundwater Elevation (me)
MW-1				
8/16/1999	97.12	Unknown	> 1.0	Unknown
8/27/1999		6.90	0.36	90.51*
9/10/1999		6.85	0.18	90.41*
9/24/1999		6.65	0.08	90.53*
10/8/1999		6.87	0.28	90.47*
10/22/1999		6.81	0.23	90.49*
11/2/1999		6.94	0.31	90.43*
11/19/1999		6.91	0.12	90.31*
12/6/1999		6.93	0.12	90.29*
3/8/2000		5.93	0.21	91.36*
6/14/2000		6.57	0.72	90.41*
12/11/2000		6.70	0.60	90.90*
3/6/2001		5.75	0.40	91.69*
6/6/2001		7.60	1.48	90.70*
9/4/2001		6.80	0.20	90.48*
3/11/2002		approx. 7.47	approx. 3	approx. 92.05*
6/6/2002		6.49	0.67	91.17*
9/4/2002	11.02	6.89	0.54	4.56*
12/17/2002		4.65		6.47*
3/7/2003		6.55	1.19	3.52*
6/5/2003		9.77	4.63	4.95*
MW-2				
8/16/1999	96.82	6.30	--	90.52
12/6/1999		8.46	--	88.36
3/8/2000		9.12	--	87.70
6/14/2000		8.34	--	88.48
12/11/2000		5.94	--	90.88
3/6/2001		4.70	--	92.12
6/6/2001		6.03	--	90.79
9/4/2001		6.34	--	90.48
3/11/2002		4.89	--	91.93
6/6/2002		5.69	--	91.13
9/4/2002	10.70	6.17	--	4.53
12/17/2002		4.39	--	6.31
3/7/2003		5.44	--	5.26
6/5/2003		5.59	--	5.11

TABLE ONE
 Groundwater Elevation Data
 Oakland Truck Stop
 8255 San Leandro Street, Oakland, CA

Well ID & Date Sampled	Top of Casing Elevation (msl)	Depth to Water (feet)	Free-Floating Hydrocarbon Thickness (feet)	Groundwater Elevation (msl)
MW-3				
8/16/1999	96.43	5.85	--	90.58
12/6/1999		5.70	--	90.73
3/8/2000		5.32	--	91.11
6/14/2000		6.95	--	89.48
12/11/2000		6.22	--	90.21
3/6/2001		4.83	--	91.60
6/6/2001		5.62	--	90.81
9/4/2001		5.91	--	90.52
3/11/2002		4.42	--	92.01
6/6/2002		5.19	--	91.24
9/4/2002	10.32	5.72	--	4.60
12/17/2002		3.96	--	6.36
3/7/2003		4.88	--	5.44
6/5/2003		5.05	--	5.27
MW-4				
8/16/1999	96.60	6.12	--	90.48
12/6/1999		5.98	--	90.62
3/8/2000		4.32	--	92.28
6/14/2000		5.58	--	91.02
12/11/2000		5.70	--	90.90
3/6/2001		4.46	--	92.14
6/6/2001		5.89	--	90.71
9/4/2001		6.16	--	90.44
3/11/2002		4.67	--	91.93
6/6/2002		5.50	--	91.10
9/4/2002	10.50	5.97	--	4.53
12/17/2002		4.22	--	6.28
3/7/2003		5.23	--	5.27
6/5/2003		5.38	--	5.12
MW-5				
12/6/1999	96.30	5.94	--	90.36
3/8/2000		4.06	--	92.24
6/14/2000		5.25	--	91.05
12/11/2000		5.45	--	90.85
3/6/2001		4.12	--	92.18
6/6/2001		5.56	--	90.74
9/4/2001		5.84	--	90.46
3/11/2002		4.38	--	91.92
6/6/2002		5.16	--	91.14
9/4/2002	10.20	5.62	--	4.58
12/17/2002		4.12	--	6.08
3/7/2003		4.89	--	5.31
6/5/2003		5.04	--	5.16

TABLE ONE
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Oakland Truck Stop
8255 San Leandro Street, Oakland, CA

Well ID & Date Sampled	Top of Casing Elevation (msl)	Depth to Water (feet)	Free-Floating Hydrocarbon Thickness (feet)	Groundwater Elevation (msl)
<u>MW-6</u>				
12/6/1999	96.79	5.80	--	90.99
3/8/2000		4.10	--	92.69
6/14/2000		5.64	--	91.15
12/11/2000		5.72	--	91.07
3/6/2001		4.32	--	92.47
6/6/2001		5.81	--	90.98
9/4/2001		6.12	--	90.67
3/11/2002		4.49	--	92.30
6/6/2002		5.33	--	91.46
9/4/2002	10.71	5.92	--	4.79
12/17/2002		3.85	--	6.86
3/7/2003		4.96	--	5.75
6/5/2003		5.18	--	5.53
<u>MW-7</u>				
9/4/2002	9.17	4.67	--	4.50
12/17/2002		3.11	--	6.06
3/7/2003		3.89	--	5.28
6/5/2003		3.57	--	5.60
<u>MW-8</u>				
9/4/2002	9.68	4.94	--	4.74
12/17/2002		3.26	--	6.42
3/7/2003		4.01	--	5.67
6/5/2003		4.28	--	5.40
<u>MW-9</u>				
9/4/2002	11.07	6.26	--	4.81
12/17/2002		4.23	--	6.84
3/7/2003		5.26	--	5.81
6/5/2003		5.56	--	5.51

Notes:

* = Groundwater elevation adjusted for the presence of free-floating hydrocarbons by the equation: Adjusted groundwater elevation = Top of casing elevation - depth to groundwater + (0.8 x free-floating hydrocarbon thickness)

Mid Coast Engineers (MCE) surveyed all site monitoring wells on July 11, 2002 to mean sea level (MSL). The updated elevation data is reflected in the table above.

TABLE TWO
Summary of Chemical Analysis of GROUNDWATER Samples
Petroleum Hydrocarbons
All results are in parts per billion

Well ID DATE	TPH Gasoline	TPH Diesel	TPH Motor Oil	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA
MW-1												
8/16/1999												
12/6/1999												
3/8/2000												
6/14/2000												
12/11/2000												
3/6/2001												
6/6/2001												
9/4/2001												
3/11/2002												
6/6/2002												
9/4/2002												
12/17/2002												
3/7/2003												
6/5/2003												
MW-2												
8/16/1999	2,200	970*	< 500	3.8	< 2.0	3	< 4.0	< 20	NA	NA	NA	NA
12/6/1999	1,900	400*	< 500	16	< 0.5	15	< 0.5	5.2	NA	NA	NA	NA
3/8/2000	1,600*	530*	< 500	9.7	< 0.5	2.7	< 0.5	27	NA	NA	NA	NA
6/14/2000	2,000	75	< 100	2.8	< 0.5	3.4	< 0.5	16	3.4	< 0.5	< 0.5	64
12/11/2000	1,000	120	< 100	2.6	< 0.5	< 0.5	< 0.5	15	2.9	< 0.5	< 0.5	62
3/6/2001	1,500	1,400	NA	2.2	< 0.5	1.7	< 0.5	22	3.4	< 0.5	< 0.5	83
6/6/2001	1,700	190	NA	2.6	< 0.5	2.3	< 0.5	26	3.2	< 0.5	< 0.5	83
9/4/2001	2,000	450	NA	2.7	< 0.5	2.1	< 0.5	33	3.4	< 0.5	< 0.5	93
3/11/2002	1,100	410	NA	1.0	< 0.5	0.5	< 0.5	26	2.5	< 0.5	< 0.5	69
6/6/2002	900	430	NA	1.2	< 0.5	< 0.5	< 0.5	23	2.8	< 0.5	< 0.5	73
9/4/2002	910	510	NA	1.6	< 0.5	< 0.5	< 0.5	45	2.5	< 0.5	< 0.5	67
12/17/2002	190	220	NA	0.65	< 0.5	< 0.5	< 0.5	34	1.5	< 0.5	< 0.5	46
3/7/2003	380	300	NA	0.81	< 0.5	< 0.5	< 0.5	50	1.9	< 0.5	< 0.5	73
6/5/2003	2,200	2,200	NA	1.7	< 0.5	1.5	< 0.5	180	4.9	< 0.5	1.3	110
MW-3												
8/16/1999	56,000	10,000**	< 500	17,000	2,600	2,600	1,200	6,100	NA	NA	NA	NA
12/6/1999	40,000	9,100*	< 500	16,000	140	1,800	100	2,200/4,000‡	NA	NA	NA	NA
3/8/2000	22,000	4,500*	< 500	11,000	72	1,100	130	3,400	NA	NA	NA	NA
6/14/2000	34,000	16,000	< 100	13,000	94	1,300	160	4,800	31	< 10	21	2,700
12/11/2000	24,000	14,000	< 100	13,000	88	780	120	4,300	< 50	< 50	< 50	2,300
3/6/2001	34,000	12,000	NA	15,000	100	1,100	130	4,000	< 50	< 50	< 50	2,100
6/6/2001	34,000	20,000	NA	14,000	94	550	110	4,400	< 50	< 50	< 50	2,300
9/4/2001	29,000	19,000	NA	13,000	83	480	83	4,100	< 50	< 50	< 50	3,400
3/11/2002	12,000	14,000	NA	2,900	< 20	110	< 20	530	< 20	< 20	< 20	330
6/6/2002	20,000	14,000	NA	10,000	< 50	200	51	2,400	< 50	< 50	< 50	1,200
9/4/2002	24,000	17,000	NA	11,000	< 50	140	< 50	3,200	< 50	< 50	< 50	1,400
12/17/2002	4,900	17,000	NA	2,000	< 10	52	12	360	< 10	< 10	< 10	220
3/7/2003	8,700	16,000	NA	2,300	< 10	43	11	770	< 10	< 10	< 10	360
6/5/2003	27,000	14,000	NA	10,000	53	220	53	5,000	< 50	< 50	< 50	1,600

TABLE TWO
Summary of Chemical Analysis of GROUNDWATER Samples
Petroleum Hydrocarbons
All results are in parts per billion

WellID DATE	TPH Gasoline	TPH Diesel	TPH Motor Oil	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA
MW-4												
8/16/1999	61**	1,100*	< 500	< 0.5	< 0.5	< 0.5	< 1.0	86	NA	NA	NA	NA
12/6/1999	130***	220*	< 500	< 1.0	< 1.0	< 1.0	< 1.0	130	NA	NA	NA	NA
3/8/2000	< 50	220*	< 500	< 0.5	< 0.5	< 0.5	< 0.5	130	NA	NA	NA	NA
6/14/2000	< 50	< 50	< 100	< 0.5	< 0.5	< 0.5	< 0.5	100	< 0.5	< 0.5	< 0.5	20
12/11/2000	< 50	< 50	< 100	< 0.5	< 0.5	< 0.5	< 0.5	110	< 0.5	< 0.5	< 0.5	16
3/6/2001	< 50	670	NA	< 0.5	< 0.5	< 0.5	< 0.5	110	< 0.5	< 0.5	< 0.5	9.9
6/6/2001	< 50	790	NA	< 0.5	< 0.5	< 0.5	< 0.5	110	< 0.5	< 0.5	< 0.5	20
9/4/2001	< 50	950	NA	< 0.5	< 0.5	< 0.5	< 0.5	110	< 0.5	< 0.5	< 0.5	26
3/11/2002	< 50	250	NA	< 0.5	< 0.5	< 0.5	< 0.5	84	< 0.5	< 0.5	< 0.5	21
6/6/2002	< 50	710	NA	< 0.5	< 0.5	< 0.5	< 0.5	92	< 0.5	< 0.5	< 0.5	21
9/4/2002	< 50	1,100	NA	< 0.5	< 0.5	< 0.5	< 0.5	150	< 0.5	< 0.5	< 0.5	18
12/17/2002	< 50	470	NA	< 0.5	< 0.5	< 0.5	< 0.5	120	< 0.5	< 0.5	< 0.5	< 5.0
3/7/2003	< 50	470	NA	< 0.5	< 0.5	< 0.5	< 0.5	120	< 0.5	< 0.5	0.52	18
6/5/2003	< 50	2,000	NA	< 0.5	< 0.5	< 0.5	< 0.5	110	< 0.5	< 0.5	0.50	23
MW-5												
12/6/1999	450***	2,000*	< 500	< 1.0	< 1.0	< 1.0	< 1.0	21	NA	NA	NA	NA
3/8/2000	51***	530*	< 500	< 0.5	< 0.5	< 0.5	< 0.5	84	NA	NA	NA	NA
6/14/2000	380	1,400	< 100	< 0.5	< 0.5	< 0.5	< 0.5	160	12	< 0.5	< 0.5	22
12/11/2000	540	590	< 100	< 0.5	< 0.5	< 0.5	< 0.5	240	9.5	< 0.5	< 0.5	32
3/6/2001	510	2,900	NA	< 0.5	< 0.5	< 0.5	< 0.5	140	13	< 0.5	< 0.5	19
6/6/2001	280	2,700	NA	< 0.5	< 0.5	< 0.5	< 0.5	180	13	< 0.5	< 0.5	26
9/4/2001	630	2,600	NA	< 0.5	< 0.5	< 0.5	< 0.5	180	9.4	< 0.5	< 0.5	29
3/11/2002	97	3,500	NA	< 0.5	< 0.5	< 0.5	< 0.5	29	0.79	< 0.5	< 0.5	7.4
6/6/2002	61	3,500	NA	< 0.5	< 0.5	< 0.5	< 0.5	150	2.9	< 0.5	< 0.5	34
9/4/2002	92	6,100	NA	< 0.5	< 0.5	< 0.5	< 0.5	370	3.6	< 0.5	< 0.5	72
12/17/2002	110	2,100	NA	< 0.5	< 0.5	< 0.5	< 0.5	110	4.2	< 0.5	< 0.5	14
3/7/2003	71	1,600	NA	< 0.5	< 0.5	< 0.5	< 0.5	150	2.2	< 0.5	< 0.5	35
6/5/2003	95	3,300	NA	< 0.5	< 0.5	< 0.5	< 0.5	170	4.6	< 0.5	< 0.5	43
MW-6												
12/6/1999	13,000	< 50	< 500	180	21	11	24	< 100	NA	NA	NA	NA
3/8/2000	< 10,000	4,600*	< 500	230	26	18	39	12,000	NA	NA	NA	NA
6/14/2000	8,400	12,000	< 100	190	12	9.5	22	15,000	< 5.0	< 5.0	70	3,300
12/11/2000	< 5,000	10,000	< 100	190	< 50	< 50	< 50	14,000	< 50	< 50	74	2,900
3/6/2001	5,300	6,700	NA	220	< 50	< 50	< 50	13,000	< 50	< 50	84	2,100
6/6/2001	5,000	23,000	NA	210	< 25	< 25	< 25	12,000	< 25	< 25	84	4,200
9/4/2001	5,400	22,000	NA	190	12	< 10	23	15,000	< 10	< 10	79	4,000
3/11/2002	4,600	11,000	NA	160	< 25	< 25	< 25	15,000	< 25	< 25	39	5,100
6/6/2002	< 5,000	14,000	NA	200	< 50	< 50	< 50	17,000	< 50	< 50	77	8,700
9/4/2002	< 5,000	50,000	NA	140	< 50	< 50	< 50	21,000	< 50	< 50	52	7,500
12/17/2002	< 5,000	9,100	NA	130	< 50	< 50	< 50	16,000	< 50	< 50	64	6,300
3/7/2003	< 5,000	12,000	NA	160	< 50	< 50	< 50	20,000	< 50	< 50	53	7,500
6/5/2003	< 5,000	23,000	NA	230	< 50	< 50	< 50	19,000	< 50	< 50	86	7,100

TABLE TWO
Summary of Chemical Analysis of GROUNDWATER Samples
Petroleum Hydrocarbons
All results are in parts per billion

Well ID DATE	TPH Gasoline	TPH Diesel	TPH Motor Oil	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA
MW-7												
9/4/2002	< 50	130****	NA	< 0.5	< 0.5	< 0.5	< 0.5	3.4	< 0.5	< 0.5	< 0.5	< 5.0
12/17/2002	< 50	220	NA	< 0.5	< 0.5	< 0.5	< 0.5	2.8	< 0.5	< 0.5	< 0.5	< 5.0
3/7/2003	< 50	140	NA	< 0.5	< 0.5	< 0.5	< 0.5	1.8	< 0.5	< 0.5	< 0.5	< 5.0
6/5/2003	< 50	200	NA	< 0.5	< 0.5	< 0.5	< 0.5	2.5	< 0.5	< 0.5	< 0.5	< 5.0
MW-8												
9/4/2002	< 50	170	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
12/17/2002	< 50	100	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
3/7/2003	< 50	62	NA	< 0.5	< 0.5	< 0.5	< 0.5	33	< 0.5	< 0.5	< 0.5	< 5.0
6/5/2003	< 50	270	NA	< 0.5	< 0.5	< 0.5	< 0.5	13	< 0.5	< 0.5	< 0.5	< 5.0
MW-9												
9/4/2002	< 2,500	1,000	NA	< 25	< 25	< 25	< 25	12,000	< 25	< 25	70	1,700
12/17/2002	< 2,000	880	NA	< 20	< 20	< 20	< 20	4,500	< 20	< 20	23	2,300
3/7/2003	< 500	450	NA	< 5.0	< 5.0	< 5.0	< 5.0	1,700	< 5.0	< 5.0	8.4	6,600
6/5/2003	< 500	4,500	NA	< 5.0	< 5.0	< 5.0	< 5.0	120	< 5.0	< 5.0	< 5.0	17,000
DHS MCL	NE	NE	NE	1	150	700	1,750	15	NE	NE	NE	NE
RBSL	400	500	500	46	130	290	1	1,800	NE	NE	NE	NE

Notes

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

Most recent concentrations are in bold.

DHS MCL is the California Department of Health Services maximum contaminant level for drinking water.

RBSL is the RWQCB Risk-Based Screening Level where groundwater is not a potential source of drinking water

NE = MCL/RBSL not established

NA = Sample not analyzed for this compound.

* = Non-typical diesel pattern, hydrocarbons in early diesel range

** = Estimated concentration due to overlapping fuel patterns in the sample

*** = Non-typical gasoline pattern

**** = Non-typical diesel pattern.

= MTBE concentration by EPA Method 8260

TABLE THREE
 Summary of Chemical Analysis of **GROUNDWATER** Samples
 HVOCs, SVOCs, PCBs and LUFT 5 Metals
 All results are in **parts per billion**

Boring	Isopropyl- benzene	Other VOCs	SVOCs	PCBs	Cd	Cr	Pb	Ni	Zn
<u>MW-2</u>									
8-16-99	11	ND	ND	ND	< 2.0	9.0	< 5.0	19	< 10
<u>MW-4</u>									
8-16-99	< 0.5	ND	ND	ND	2.7	45	260	55	320
12-06-99	---	---	---	---	---	---	< 5	---	---
MCL	NE	Various	Various	0.5	5	50	15	100	5,000

Notes:

Non-detectable concentrations are noted by the less than symbol (<) followed by the detection limit or are indicated by ND if various detection limits are used for multiple compounds. Please see the original reports for detection limits for these compounds.

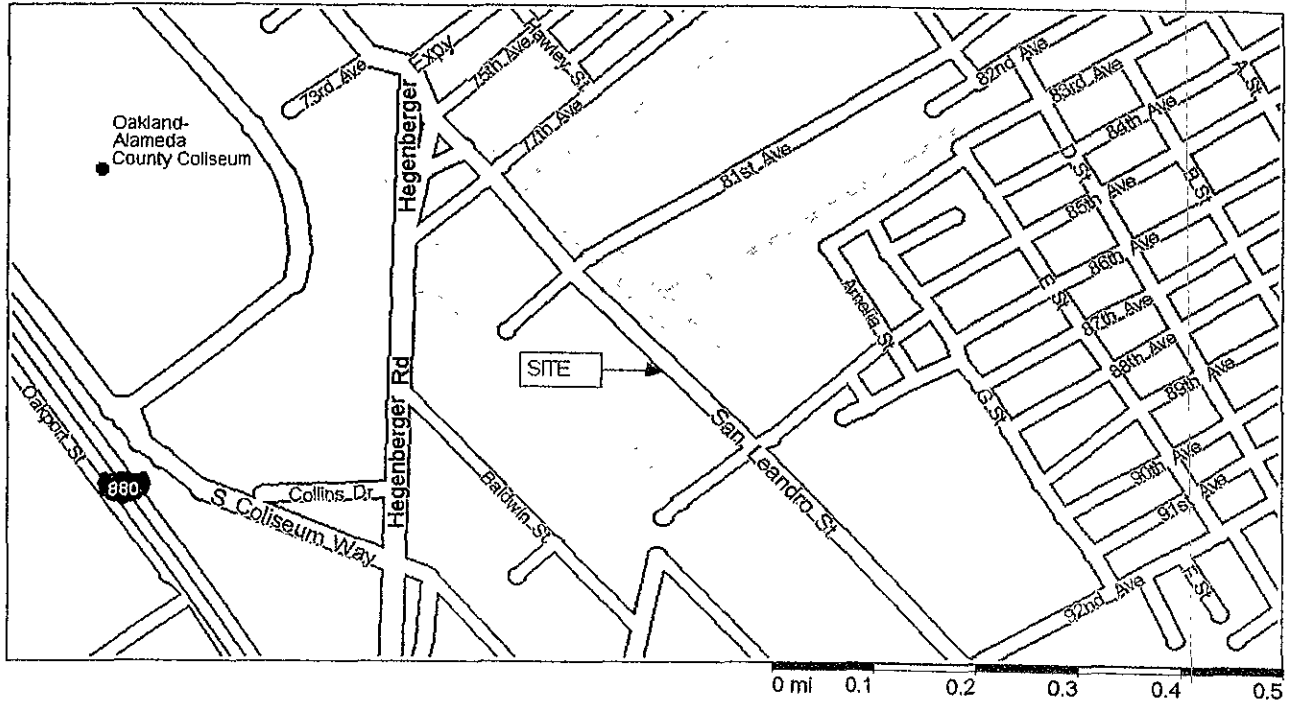
Detectable concentrations are in **bold**.

MCL is the California Department of Health Services maximum contaminant level for drinking water.

NE = Not established



NORTH

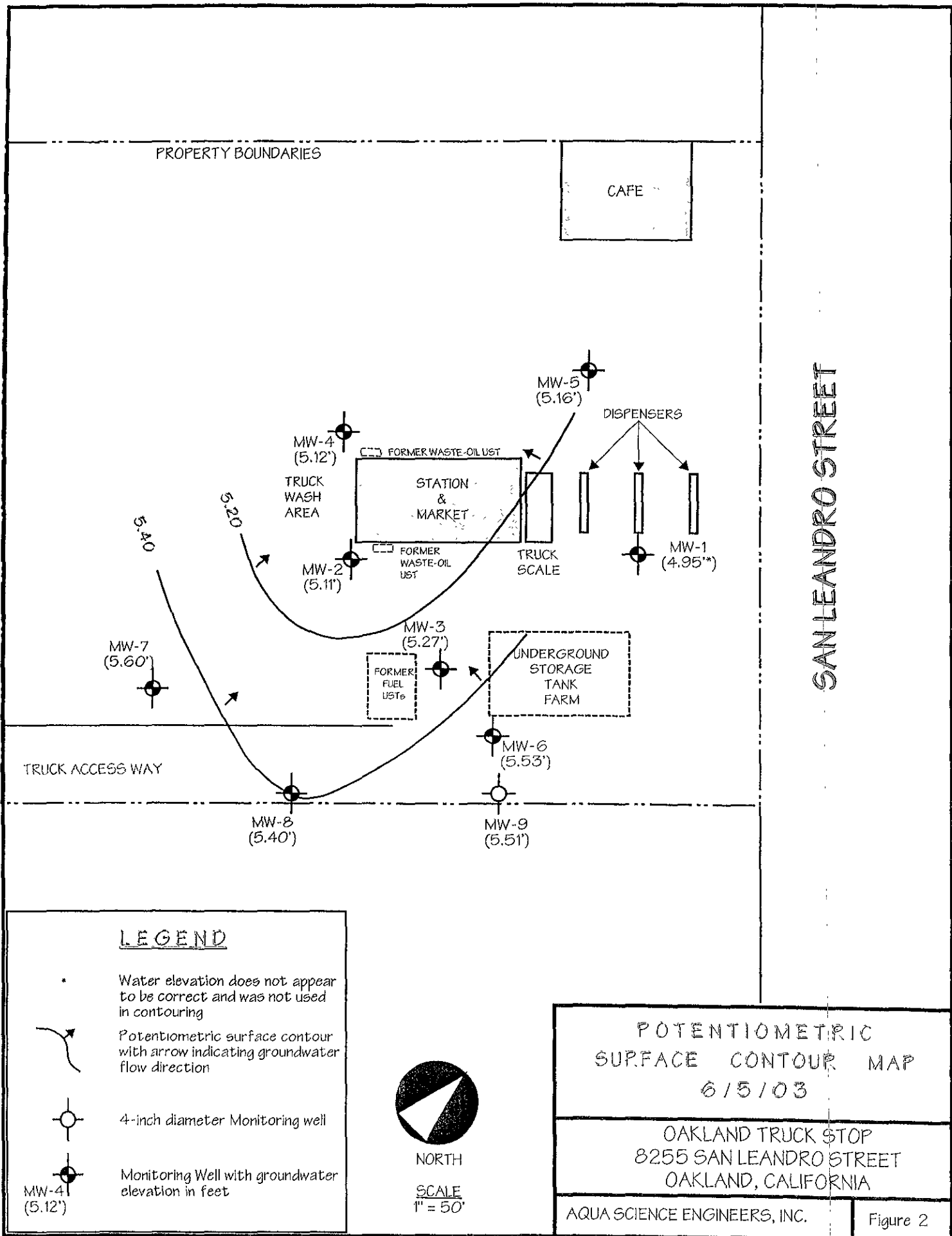


LOCATION MAP

OAKLAND TRUCK STOP
8255 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC.

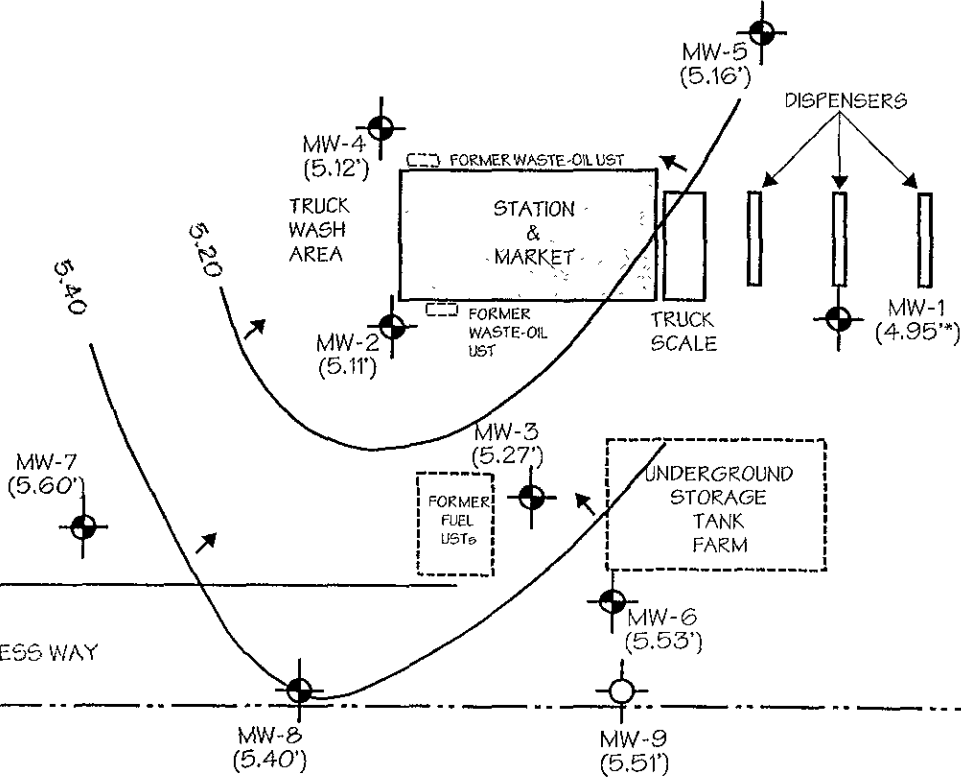
Figure 1



PROPERTY BOUNDARIES

CAFE

SAN LEANDRO STREET



LEGEND

- Water elevation does not appear to be correct and was not used in contouring
 - Potentiometric surface contour with arrow indicating groundwater flow direction
 - 4-inch diameter Monitoring well
 - Monitoring Well with groundwater elevation in feet
- MW-4 (5.12')



NORTH

SCALE
1" = 50'

POTENTIOMETRIC
SURFACE CONTOUR MAP
6/5/03

OAKLAND TRUCK STOP
8255 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

AQUA SCIENCE ENGINEERS, INC.

Figure 2

APPENDIX A

Well Sampling Field Logs



WELL SAMPLING FIELD LOG

Project Name and Address: OAKLAND TRUCKSTOP
 Job #: 5733 Date of sampling: 6/5/03
 Well Name: MW-1 Sampled by: DAF
 Total depth of well (feet): _____ Well diameter (inches): _____
 Depth to water before sampling (feet): 5.14/9.77
 Thickness of floating product if any: 4.63
 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: _____ 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: ORLANDO RIVER STOP
 Job #: 5733 Date of sampling: 6/5/53
 Well Name: MU-2 Sampled by: DA
 Total depth of well (feet): 14.9 Well diameter (inches): 2
 Depth to water before sampling (feet): 5.59
 Thickness of floating product if any: —
 Depth of well casing in water (feet): 9.31
 Number of gallons per well casing volume (gallons): 1.6
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 4.7
 Equipment used to purge the well: BAILER
 Time Evacuation Began: _____ Time Evacuation Finished: _____
 Approximate volume of groundwater purged: 4.8
 Did the well go dry?: — After how many gallons: —
 Time samples were collected: 1618
 Depth to water at time of sampling: 10.68
 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
<u>1.6</u>	<u>69.2</u>	<u>5.57</u>	<u>1932</u>
<u>3.2</u>	<u>68.1</u>	<u>6.31</u>	<u>1858</u>
<u>4.8</u>	<u>67.2</u>	<u>5.82</u>	<u>1847</u>
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

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



WELL SAMPLING FIELD LOG

Project Name and Address: CAVILAND TRUCK STOP
 Job #: 5733 Date of sampling: 6/5/03
 Well Name: MW-3 Sampled by: DA
 Total depth of well (feet): 15.02 Well diameter (inches): 2
 Depth to water before sampling (feet): 5.05
 Thickness of floating product if any: _____
 Depth of well casing in water (feet): 9.97
 Number of gallons per well casing volume (gallons): 1.7
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 5.1
 Equipment used to purge the well: BAILER
 Time Evacuation Began: _____ Time Evacuation Finished: 184
 Approximate volume of groundwater purged: _____
 Did the well go dry?: _____ After how many gallons: _____
 Time samples were collected: 1845
 Depth to water at time of sampling: _____
 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
<u>1.7</u>	<u>69.0</u>	<u>7.25</u>	<u>910</u>
<u>3.4</u>	<u>68.0</u>	<u>7.26</u>	<u>1007</u>
<u>5.1</u>	<u>68.0</u>	<u>7.25</u>	<u>1090</u>
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

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



WELL SAMPLING FIELD LOG

Project Name and Address: OAKLAND TROOP STAP
 Job #: 5733 Date of sampling: 6/5/03
 Well Name: MW-4 Sampled by: PH
 Total depth of well (feet): 13.17 Well diameter (inches): 2
 Depth to water before sampling (feet): 5.38
 Thickness of floating product if any: —
 Depth of well casing in water (feet): 8.59
 Number of gallons per well casing volume (gallons): 1.46
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 4.4
 Equipment used to purge the well: BAULER
 Time Evacuation Began: _____ Time Evacuation Finished: _____
 Approximate volume of groundwater purged: 4.5
 Did the well go dry?: — After how many gallons: —
 Time samples were collected: BAULER 1450
 Depth to water at time of sampling: 6.53
 Percent recovery at time of sampling: _____
 Samples collected with: BAULER
 Sample color: _____ Odor: _____
 Description of sediment in sample: _____

CHEMICAL DATA

Volume Purged	Temp.	pH	Conductivity
<u>1.5</u>	<u>70.7</u>	<u>5.32</u>	<u>1574</u>
<u>3.0</u>	<u>69.4</u>	<u>6.08</u>	<u>1601</u>
<u>4.5</u>	<u>69.2</u>	<u>6.20</u>	<u>1602</u>
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

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



WELL SAMPLING FIELD LOG

Project Name and Address: DAVLANO TRUCK STOP
 Job #: 5733 Date of sampling: 6/5/03
 Well Name: MW 5 Sampled by: AT
 Total depth of well (feet): 14.67 Well diameter (inches): 2
 Depth to water before sampling (feet): 5.04
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 9.00
 Number of gallons per well casing volume (gallons): 1.5
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 2
 Equipment used to purge the well: BAULOR
 Time Evacuation Began: _____ Time Evacuation Finished: _____
 Approximate volume of groundwater purged: 4.5
 Did the well go dry?: NO After how many gallons: 1
 Time samples were collected: 1617
 Depth to water at time of sampling: 11.17
 Percent recovery at time of sampling: _____
 Samples collected with: BAULOR
 Sample color: _____ Odor: _____
 Description of sediment in sample: _____

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1.5</u>	<u>71.6</u>	<u>7.25</u>	<u>1226</u>
<u>3.0</u>	<u>69.7</u>	<u>7.28</u>	<u>1227</u>
<u>4.5</u>	<u>68.7</u>	<u>7.25</u>	<u>1245</u>
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

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



WELL SAMPLING FIELD LOG

Project Name and Address: CAVANO TRUCK STOP
 Job #: 5733 Date of sampling: 6/5/03
 Well Name: MW-6 Sampled by: OH
 Total depth of well (feet): 14.32 Well diameter (inches): 2
 Depth to water before sampling (feet): 5.18
 Thickness of floating product if any: —
 Depth of well casing in water (feet): 9.14
 Number of gallons per well casing volume (gallons): 1.6
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 4.7
 Equipment used to purge the well: BALLER
 Time Evacuation Began: _____ Time Evacuation Finished: _____
 Approximate volume of groundwater purged: 4.8
 Did the well go dry?: NO After how many gallons: —
 Time samples were collected: 1810
 Depth to water at time of sampling: 13.04
 Percent recovery at time of sampling: _____
 Samples collected with: BALLER
 Sample color: _____ Odor: _____
 Description of sediment in sample: _____

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1.6</u>	<u>67.3</u>	<u>6.14</u>	<u>807</u>
<u>3.2</u>	<u>66.2</u>	<u>6.12</u>	<u>803</u>
<u>4.8</u>	<u>66.0</u>	<u>6.29</u>	<u>793</u>
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

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



WELL SAMPLING FIELD LOG

Project Name and Address: OAKLAND RESCUE STOP
 Job #: 5733 Date of sampling: 6/5/03
 Well Name: MW-7 Sampled by: DH
 Total depth of well (feet): 15.41 Well diameter (inches): 2
 Depth to water before sampling (feet): 3.57
 Thickness of floating product if any: —
 Depth of well casing in water (feet): 11.84
 Number of gallons per well casing volume (gallons): 2
 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: BALLER
 Time Evacuation Began: _____ Time Evacuation Finished: _____
 Approximate volume of groundwater purged: _____
 Did the well go dry?: NO After how many gallons: _____
 Time samples were collected: 1520
 Depth to water at time of sampling: 6.14
 Percent recovery at time of sampling: _____
 Samples collected with: BALLER
 Sample color: _____ Odor: _____
 Description of sediment in sample: _____

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>2</u>	<u>65.1</u>	<u>6.00</u>	<u>1302</u>
<u>4</u>	<u>63.6</u>	<u>6.02</u>	<u>1331</u>
<u>6</u>	<u>63.4</u>	<u>6.27</u>	<u>1333</u>
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

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



WELL SAMPLING FIELD LOG

Project Name and Address: OAKLAND RIVER STOP
 Job #: 5733 Date of sampling: 2/5/03
 Well Name: MW-8 Sampled by: PIF
 Total depth of well (feet): 15.04 Well diameter (inches): 2
 Depth to water before sampling (feet): 4.28
 Thickness of floating product if any: -
 Depth of well casing in water (feet): 10.76
 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): 5.5
 Equipment used to purge the well: BALLER
 Time Evacuation Began: _____ Time Evacuation Finished: _____
 Approximate volume of groundwater purged: 5.5
 Did the well go dry?: no After how many gallons: _____
 Time samples were collected: 1543
 Depth to water at time of sampling: 5.17
 Percent recovery at time of sampling: _____
 Samples collected with: BALLER
 Sample color: _____ Odor: _____
 Description of sediment in sample: _____

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>1.8</u>	<u>65.7</u>	<u>5.96</u>	<u>1222</u>
<u>3.6</u>	<u>64.5</u>	<u>6.26</u>	<u>1262</u>
<u>5.5</u>	<u>64.1</u>	<u>6.01</u>	<u>1255</u>
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

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



WELL SAMPLING FIELD LOG

Project Name and Address: CLEVELAND TRUCK STOP
 Job #: 5733 Date of sampling: 6/5/03
 Well Name: MW-9 Sampled by: DW
 Total depth of well (feet): 19.91 Well diameter (inches): 4
 Depth to water before sampling (feet): 5.56
 Thickness of floating product if any: —
 Depth of well casing in water (feet): 14.35
 Number of gallons per well casing volume (gallons): 9.5
 Number of well casing volumes to be removed: 3
 Req'd volume of groundwater to be purged before sampling (gallons): 28.5
 Equipment used to purge the well: SAUER
 Time Evacuation Began: _____ Time Evacuation Finished: _____
 Approximate volume of groundwater purged: _____
 Did the well go dry?: _____ After how many gallons: _____
 Time samples were collected: 17.45
 Depth to water at time of sampling: 6.87
 Percent recovery at time of sampling: _____
 Samples collected with: SAUER
 Sample color: _____ Odor: _____
 Description of sediment in sample: _____

CHEMICAL DATA

Volume Purged	Temp	pH	Conductivity
<u>9.5</u>	<u>65.5</u>	<u>7.26</u>	<u>1142</u>
<u>19</u>	<u>64.0</u>	<u>7.26</u>	<u>1080</u>
<u>28.5</u>	<u>64.0</u>	<u>7.26</u>	<u>1074</u>
_____	_____	_____	_____
_____	_____	_____	_____

SAMPLES COLLECTED

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

APPENDIX B

Certified Analytical Report
and
Chain of Custody Documentation



Report Number : 33558

Date : 6/17/2003

Damian Hriciga
Aqua Science Engineers, Inc.
208 W. El Pintado Road
Danville, CA 94526

Subject : 8 Water Samples
Project Name : OAKLAND TRUCK STOP
Project Number :

Dear Mr. Hriciga,

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,

A handwritten signature in black ink, appearing to read "Jeff Dahl".

Jeff Dahl



Report Number : 33558

Date : 6/17/2003

Project Name : OAKLAND TRUCK STOP

Project Number :


Sample : MW-2

Matrix : Water

Lab Number : 33558-01

Sample Date :6/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.7	0.50	ug/L	EPA 8260B	6/10/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Ethylbenzene	1.5	0.50	ug/L	EPA 8260B	6/10/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Methyl-t-butyl ether (MTBE)	180	0.50	ug/L	EPA 8260B	6/10/2003
Diisopropyl ether (DIPE)	4.9	0.50	ug/L	EPA 8260B	6/10/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Tert-amyl methyl ether (TAME)	1.3	0.50	ug/L	EPA 8260B	6/10/2003
Tert-Butanol	110	5.0	ug/L	EPA 8260B	6/10/2003
TPH as Gasoline	2200	50	ug/L	EPA 8260B	6/10/2003
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	6/10/2003
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	6/10/2003
TPH as Diesel	2200	50	ug/L	M EPA 8015	6/13/2003

Approved By:  Jeff Dahl



Report Number : 33558

Date : 6/17/2003

Project Name : OAKLAND TRUCK STOP

Project Number :

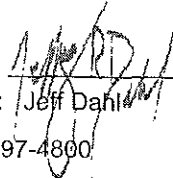
Sample : MW-3

Matrix : Water

Lab Number : 33558-02

Sample Date :6/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	10000	50	ug/L	EPA 8260B	6/12/2003
Toluene	53	50	ug/L	EPA 8260B	6/12/2003
Ethylbenzene	220	50	ug/L	EPA 8260B	6/12/2003
Total Xylenes	53	50	ug/L	EPA 8260B	6/12/2003
Methyl-t-butyl ether (MTBE)	5000	50	ug/L	EPA 8260B	6/12/2003
Diisopropyl ether (DIPE)	< 50	50	ug/L	EPA 8260B	6/12/2003
Ethyl-t-butyl ether (ETBE)	< 50	50	ug/L	EPA 8260B	6/12/2003
Tert-amyl methyl ether (TAME)	< 50	50	ug/L	EPA 8260B	6/12/2003
Tert-Butanol	1600	500	ug/L	EPA 8260B	6/12/2003
TPH as Gasoline	27000	5000	ug/L	EPA 8260B	6/12/2003
Toluene - d8 (Surr)	89.4		% Recovery	EPA 8260B	6/12/2003
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	6/12/2003
TPH as Diesel	14000	50	ug/L	M EPA 8015	6/13/2003

Approved By:  Jeff Dahm



Report Number : 33558

Date : 6/17/2003

Project Name : OAKLAND TRUCK STOP

Project Number :

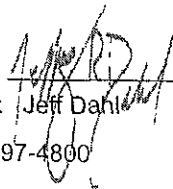
Sample : MW-4

Matrix : Water

Lab Number : 33558-03

Sample Date :6/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Methyl-t-butyl ether (MTBE)	110	0.50	ug/L	EPA 8260B	6/10/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Tert-amyl methyl ether (TAME)	0.50	0.50	ug/L	EPA 8260B	6/10/2003
Tert-Butanol	23	5.0	ug/L	EPA 8260B	6/10/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/10/2003
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	6/10/2003
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	6/10/2003
TPH as Diesel	2000	50	ug/L	M EPA 8015	6/13/2003

Approved By:  Jeff Dahl



Report Number : 33558

Date : 6/17/2003

Project Name : OAKLAND TRUCK STOP

Project Number :

Sample : MW-5

Matrix : Water

Lab Number : 33558-04

Sample Date :6/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Methyl-t-butyl ether (MTBE)	170	0.50	ug/L	EPA 8260B	6/10/2003
Diisopropyl ether (DIPE)	4.6	0.50	ug/L	EPA 8260B	6/10/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Tert-Butanol	43	5.0	ug/L	EPA 8260B	6/10/2003
TPH as Gasoline	95	50	ug/L	EPA 8260B	6/10/2003
Toluene - d8 (Surr)	107		% Recovery	EPA 8260B	6/10/2003
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	6/10/2003
TPH as Diesel	3300	50	ug/L	M EPA 8015	6/13/2003

Approved By:  Jeff Dahl



Report Number : 33558

Date : 6/17/2003

Project Name : OAKLAND TRUCK STOP

Project Number :

Sample : MW-6

Matrix : Water

Lab Number : 33558-05

Sample Date :6/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	230	50	ug/L	EPA 8260B	6/12/2003
Toluene	< 50	50	ug/L	EPA 8260B	6/12/2003
Ethylbenzene	< 50	50	ug/L	EPA 8260B	6/12/2003
Total Xylenes	< 50	50	ug/L	EPA 8260B	6/12/2003
Methyl-t-butyl ether (MTBE)	19000	50	ug/L	EPA 8260B	6/12/2003
Diisopropyl ether (DIPE)	< 50	50	ug/L	EPA 8260B	6/12/2003
Ethyl-t-butyl ether (ETBE)	< 50	50	ug/L	EPA 8260B	6/12/2003
Tert-amyl methyl ether (TAME)	86	50	ug/L	EPA 8260B	6/12/2003
Tert-Butanol	7100	500	ug/L	EPA 8260B	6/12/2003
TPH as Gasoline	< 5000	5000	ug/L	EPA 8260B	6/12/2003
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	6/12/2003
4-Bromofluorobenzene (Surr)	97.9		% Recovery	EPA 8260B	6/12/2003
TPH as Diesel	23000	50	ug/L	M EPA 8015	6/13/2003

Approved By:  Jeff Dahl



Report Number : 33558

Date : 6/17/2003

Project Name : OAKLAND TRUCK STOP

Project Number :

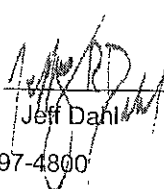
Sample : MW-7

Matrix : Water

Lab Number : 33558-06

Sample Date :6/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Methyl-t-butyl ether (MTBE)	2.5	0.50	ug/L	EPA 8260B	6/10/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/10/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/10/2003
Toluene - d8 (Surr)	107		% Recovery	EPA 8260B	6/10/2003
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	6/10/2003
TPH as Diesel	200	50	ug/L	M EPA 8015	6/14/2003

Approved By:  Jeff Dahl



Report Number : 33558

Date : 6/17/2003

Project Name : OAKLAND TRUCK STOP

Project Number :

Sample : MW-8

Matrix : Water

Lab Number : 33558-07

Sample Date : 6/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Methyl-t-butyl ether (MTBE)	13	0.50	ug/L	EPA 8260B	6/9/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/9/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/9/2003
Toluene - d8 (Surr)	95.9		% Recovery	EPA 8260B	6/9/2003
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	6/9/2003
TPH as Diesel	270	50	ug/L	M EPA 8015	6/13/2003

Approved By:  Jeff Dahl



Report Number : 33558

Date : 6/17/2003

Project Name : OAKLAND TRUCK STOP

Project Number :

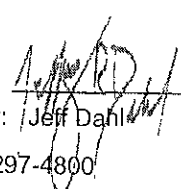
Sample : MW-9

Matrix : Water

Lab Number : 33558-08

Sample Date :6/5/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 5.0	5.0	ug/L	EPA 8260B	6/12/2003
Toluene	< 5.0	5.0	ug/L	EPA 8260B	6/12/2003
Ethylbenzene	< 5.0	5.0	ug/L	EPA 8260B	6/12/2003
Total Xylenes	< 5.0	5.0	ug/L	EPA 8260B	6/12/2003
Methyl-t-butyl ether (MTBE)	120	5.0	ug/L	EPA 8260B	6/12/2003
Diisopropyl ether (DIPE)	< 5.0	5.0	ug/L	EPA 8260B	6/12/2003
Ethyl-t-butyl ether (ETBE)	< 5.0	5.0	ug/L	EPA 8260B	6/12/2003
Tert-amyl methyl ether (TAME)	< 5.0	5.0	ug/L	EPA 8260B	6/12/2003
Tert-Butanol	17000	100	ug/L	EPA 8260B	6/10/2003
TPH as Gasoline	< 500	500	ug/L	EPA 8260B	6/12/2003
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	6/12/2003
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	6/12/2003
TPH as Diesel	4500	50	ug/L	M EPA 8015	6/13/2003

Approved By:  Jeff Dahl

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

Report Number : 33558

Date : 6/17/2003

QC Report : Method Blank Data

Project Name : OAKLAND TRUCK STOP


Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	6/12/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/10/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/10/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/10/2003
Toluene - d8 (Surr)	99.9		%	EPA 8260B	6/10/2003
4-Bromofluorobenzene (Surr)	99.0		%	EPA 8260B	6/10/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/9/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/9/2003
Toluene - d8 (Surr)	94.9		%	EPA 8260B	6/9/2003
4-Bromofluorobenzene (Surr)	106		%	EPA 8260B	6/9/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/9/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/9/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/9/2003
Toluene - d8 (Surr)	108		%	EPA 8260B	6/9/2003
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	6/9/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	6/11/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	6/11/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/11/2003
Toluene - d8 (Surr)	102		%	EPA 8260B	6/11/2003
4-Bromofluorobenzene (Surr)	94.2		%	EPA 8260B	6/11/2003

KIFF ANALYTICAL, LLC

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

Approved By: 

Report Number : 33558

Date : 6/17/2003

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : OAKLAND TRUCK STOP

Project Number :

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	1010	972	ug/L	M EPA 8015	6/12/03	101	97.2	3.88	70-130	25
Benzene	33553-01	<0.50	39.9	40.0	41.8	40.6	ug/L	EPA 8260B	6/10/03	105	102	2.93	70-130	25
Toluene	33553-01	<0.50	39.9	40.0	41.6	40.4	ug/L	EPA 8260B	6/10/03	104	101	3.14	70-130	25
Tert-Butanol	33553-01	<5.0	200	200	202	197	ug/L	EPA 8260B	6/10/03	101	98.5	2.44	70-130	25
Methyl-t-Butyl Ether	33553-01	<0.50	39.9	40.0	41.6	39.8	ug/L	EPA 8260B	6/10/03	104	99.5	4.57	70-130	25
Benzene	33558-07	<0.50	40.0	40.0	40.6	39.9	ug/L	EPA 8260B	6/9/03	102	99.7	1.84	70-130	25
Toluene	33558-07	<0.50	40.0	40.0	37.2	36.6	ug/L	EPA 8260B	6/9/03	93.1	91.6	1.62	70-130	25
Tert-Butanol	33558-07	<5.0	200	200	210	209	ug/L	EPA 8260B	6/9/03	105	105	0.119	70-130	25
Methyl-t-Butyl Ether	33558-07	13	40.0	40.0	54.4	57.6	ug/L	EPA 8260B	6/9/03	104	112	7.44	70-130	25
Benzene	33522-06	<0.50	40.0	40.0	39.2	38.2	ug/L	EPA 8260B	6/9/03	97.9	95.5	2.48	70-130	25
Toluene	33522-06	<0.50	40.0	40.0	42.4	41.0	ug/L	EPA 8260B	6/9/03	106	103	3.24	70-130	25
Tert-Butanol	33522-06	<5.0	200	200	198	205	ug/L	EPA 8260B	6/9/03	99.2	102	3.26	70-130	25
Methyl-t-Butyl Ether	33522-06	8.9	40.0	40.0	54.2	52.1	ug/L	EPA 8260B	6/9/03	113	108	4.74	70-130	25
Benzene	33577-03	<0.50	40.0	40.0	43.0	42.4	ug/L	EPA 8260B	6/11/03	108	106	1.38	70-130	25
Toluene	33577-03	<0.50	40.0	40.0	42.1	41.8	ug/L	EPA 8260B	6/11/03	105	104	0.787	70-130	25
Tert-Butanol	33577-03	<5.0	200	200	210	209	ug/L	EPA 8260B	6/11/03	105	104	0.358	70-130	25
Methyl-t-Butyl Ether	33577-03	<0.50	40.0	40.0	38.5	37.8	ug/L	EPA 8260B	6/11/03	96.2	94.6	1.65	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By:  Jeff Dahl

Report Number : 33558

Date : 6/17/2003

QC Report : Laboratory Control Sample (LCS)

Project Name : **OAKLAND TRUCK STOP**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	6/10/03	101	70-130
Toluene	40.0	ug/L	EPA 8260B	6/10/03	99.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/10/03	99.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/10/03	99.4	70-130
Benzene	40.0	ug/L	EPA 8260B	6/9/03	100	70-130
Toluene	40.0	ug/L	EPA 8260B	6/9/03	95.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/9/03	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/9/03	99.4	70-130
Benzene	40.0	ug/L	EPA 8260B	6/9/03	93.0	70-130
Toluene	40.0	ug/L	EPA 8260B	6/9/03	107	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/9/03	99.7	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/9/03	94.2	70-130
Benzene	40.0	ug/L	EPA 8260B	6/11/03	105	70-130
Toluene	40.0	ug/L	EPA 8260B	6/11/03	104	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/11/03	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/11/03	88.0	70-130

KIFF ANALYTICAL, LLC

Approved By:  Jeff Darr

2795 2nd St, Suite 300 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 33558

PAGE 1 OF 1

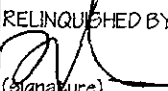
SAMPLER (SIGNATURE)


PROJECT NAME OAKLAND TRUCK STOP JOB NO. _____
 ADDRESS _____

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)	LIPT 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/5 OXY'S / LEAD SCAVENGER (EPA 8260)		
Mw-2	6/10/03	1618	W	5		X													X		01
Mw-3		1845	W	5		X													X		02
Mw-4		1450	W	5		X													X		03
Mw-5		1617	W	5		X													X		04
Mw-6		1810	W	5		X													X		05
Mw-7		1520	W	5		X													X		06
Mw-8		1543	W	5		X													X		07
Mw-9		1745	W	5		X													X		08

RELINQUISHED BY:

 (signature) (time)
 DAMIAN HRICKA
 (printed name) (date)
 Company- _____

RECEIVED BY:

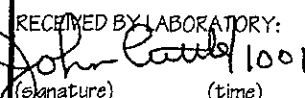
 (signature) (time)

 (printed name) (date)
 Company- _____

RELINQUISHED BY:

 (signature) (time)

 (printed name) (date)
 Company- _____

RECEIVED BY LABORATORY:

 (signature) (time)
 JOHN COTTLE / 060903
 (printed name) (date)
 Company- KIFF ANALYTICAL

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