

THRIFTY OIL CO.

July 19, 2001

2004

O.17132

Ms. Susan Hugo
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

JUL 24 2001

RE: **Former Thrifty Oil Co. Station #049**
ARCO Products Company Station #9535
3400 San Pablo Avenue
Oakland, CA 94612
2nd Quarter 2001, Status Report

Dear Ms. Hugo:

Presented herewith is the Second Quarter 2001, Status Report for former Thrifty Oil Co. Station #049 located at 3400 San Pablo Avenue, Oakland, California.

If you have any questions or comments, please contact the undersigned in this report or myself at (562) 921-3581.

Sincerely,



Chris Panaitescu
General Manager
Environmental Affairs

cc: ARCO Products Company
File



THRIFTY OIL CO.

July 17, 2001

Ms. Susan Hugo
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

RE: **Former Thrifty Oil Co. Station #049**
3400 San Pablo Avenue
Oakland, CA 94612
2nd Quarter 2001, Status Report

Dear Ms. Hugo:

Presented herein is the Second Quarter 2001, Status Report prepared for former Thrifty Oil Co. (Thrifty) Station #049 located at 3400 San Pablo Avenue, Oakland, California (**Figure 1**). Presented in this report are the results of the site monitoring and remediation efforts conducted in the Second Quarter 2001. Thrifty has retained the services of Earth Management Company (EMC) to conduct quarterly monitoring and sampling, and remediation system monitoring activities at this site.

Groundwater Monitoring

Depth to groundwater is measured in each monitoring well on a quarterly basis. In general, groundwater occurs under water table conditions beneath the station at depths ranging from 3.86 feet below surface grade (bsg) in monitoring well MW-6 to 8.87 feet bsg in recovery well MW-3 (**Appendix A**). A groundwater elevation contour map based on the April 19, 2001 data is presented in **Figure 2**. Groundwater elevation data indicates that the flow direction is toward the west-northwest with a groundwater gradient of approximately 0.06 feet/foot.

Quarterly Groundwater Sampling

As part of the ongoing groundwater monitoring program, groundwater samples were obtained from monitoring wells MW-1 through MW-7 on April 19, 2001. Groundwater samples were obtained by



EMC and delivered in a chilled state following strict Chain-of-Custody procedures to a state-certified laboratory and analyzed for total petroleum hydrocarbons (TPH-g) by EPA method 8015 modified for gasoline. Volatile aromatic compounds of benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert-butyl ether (MTBE) were analyzed by EPA method 8021B. A summary of historical analytical sampling results are provided in **Table 1**. Copies of the EMC Field Status Reports are presented in **Appendix A**, and copies of the laboratory analytical reports are contained in **Appendix B**.

TPH-g, BTEX, and MTBE concentrations appear in **Table 1** and **Appendix B**. The TPH-g, benzene, and MTBE isoconcentration maps are presented in **Figures 3, 4, and 5**. The isoconcentration maps incorporate data from the treatment system influent, due to the fact the groundwater is pumped solely from RW-1. Laboratory results indicated the highest concentrations of TPH-g, benzene, and MTBE were in well MW-4 (103,000 ug/L, 4,880 ug/L, and 66,900 ug/L, respectively). Groundwater samples from wells MW-4 and MW-6 were also analyzed for Generals Minerals by EPA method 200.7, Total Alkalinity by EPA method 2320B, Total Hardness by EPA method 2340B, Specific Conductance by EPA method 2510, Total Dissolved Solids by EPA method 2540C, Chloride by Ion Chromatography by EPA method 300, MBAS (Methylene Blue Active Substance) by EPA method 425.1, Fluoride by ISE by EPA method 4500-F, pH by EPA method 4500-H, and Ion Balance. These laboratory results are presented in **Appendix B**.

The Second Quarter 2001 groundwater analytical data indicated a significant increase in hydrocarbon concentrations in well MW-4 when compared with the last several quarters data. The increased concentrations may indicate a new hydrocarbon release in this area. ARCO Products Company is the current operator at the service station property and has leased the property since May 14, 1997. Thrifty will evaluate the next quarter's sampling data to determine whether or not a line and/or tank integrity testing needs to be performed.

Remediation Status

Site remedial activities were initiated in April 1991. Presently, the remediation system consists of a Groundwater Treatment System with carbon, with groundwater extraction from recovery well RW-1. System operational data is included in **Table 2** and **Appendix C**. During this reporting period, the groundwater treatment system processed 71,830 gallons of groundwater, and has treated approximately 558,648 gallons of groundwater since start up (through June 29, 2001). The groundwater system was shut down on April 6, 2001 for carbon changeout, and restarted on April 13, 2001. The system was shut down again on April 27, 2001 because of a pressure switch failure, and another carbon changeout on May 4, 2001. The system was restarted on May 21, 2001 and was shut down on June 29, 2001 because of electrical problems.

Influent, intermediate, and effluent water samples were collected on April 19, April 30, and May 30, 2001 from the treatment unit, and the samples collected by EMC were sent a state certified laboratory for analysis. The samples collected on April 19, April 30 and May 30, 2001 were analyzed for TPH-g by 8015, and BTEX, and samples collected on April 30 and May 30, 2001 were analyzed for TPH-g, BTEX, and MTBE by EPA method 8021B.

Effluent samples collected on April 19, 2001 indicated 88 ug/L of TPH-g and 93 ug/L MTBE, and on April 30, 2001 indicated 320 ug/L of TPH-g and 60 ug/L MTBE (by EPA method 8260B), BTEX for both collection periods were below the laboratory detection limits. Following the carbon change-out, all effluent samples collected on May 30, 2001, for TPH-g, BTEX, MTBE were below laboratory detection limits. Copies of the laboratory analytical reports are included in **Appendix D**.

Other Activities

With the high concentration of petroleum hydrocarbon contamination in well MW-4, Thrifty proposes to connect this well (MW-4) to the existing remediation system to continue the reduction of the petroleum hydrocarbons in the groundwater.

The groundwater monitoring wells, and the treatment unit, will be monitored and sampled for the next quarter. All site monitoring/sampling data generated during the next quarter will be reported in the Third Quarter 2001 monitoring report.

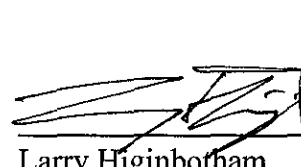
Interpretations expressed herein are based upon data collected by EMC.


Written by:

Reviewed by:

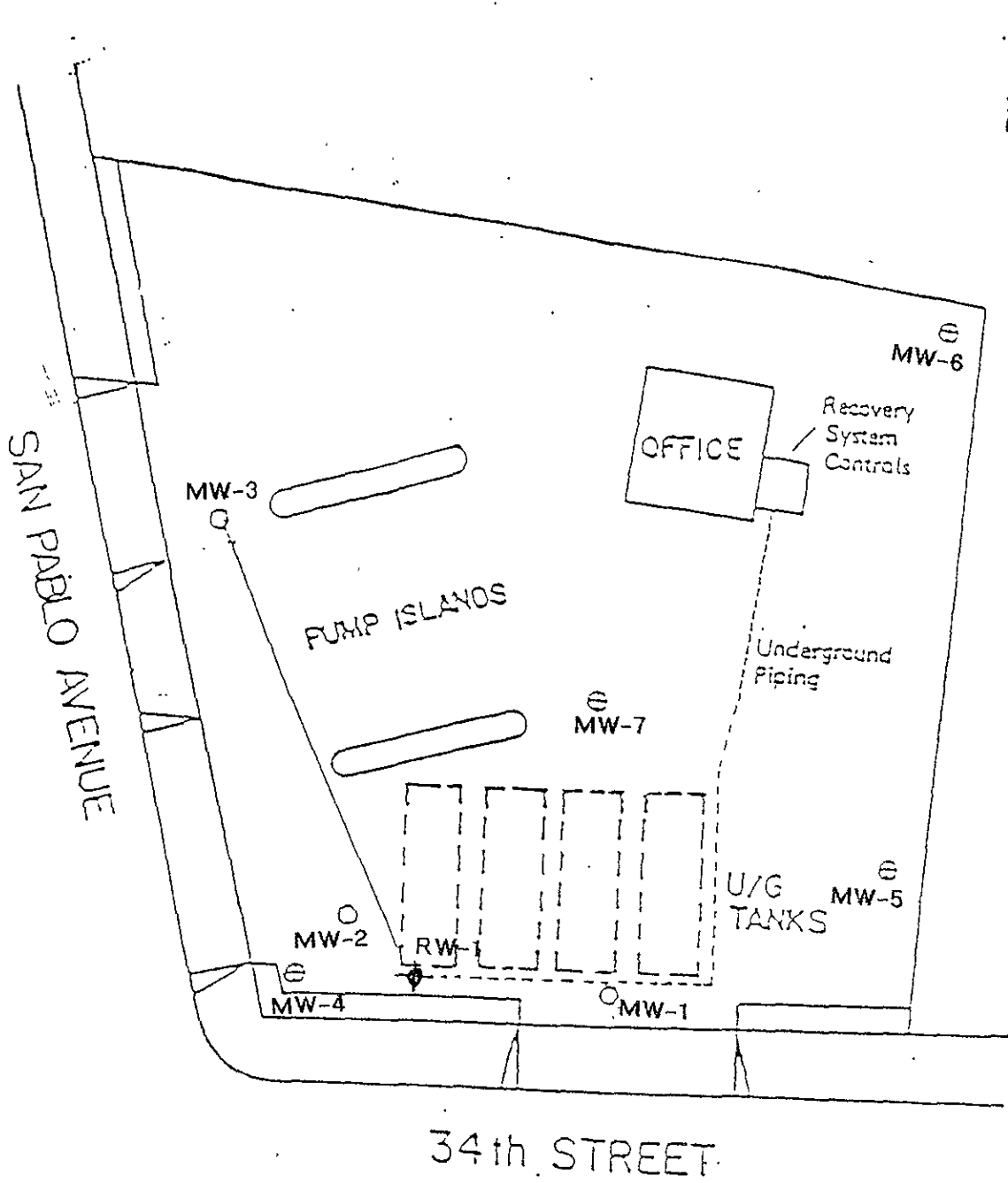

Raymond C. Friedrichsen, REA
Project Manager, MBA
Senior Environmental Hydrogeologist




Larry Higinbotham
Registered Geologist #5490



FIGURES



SITE PLAN AND RECOVERY SYSTEM LOCATION
 THRIFTY SERVICE STATION NO. 49
 3400 SAN PABLO AVE.
 OAKLAND, CA

LEGEND

- MW1 - GT MONITORING WELLS
- ⊕ MW-4 - WCC MONITORING WELLS
- ⊕ RW-1 - PROPOSED RECOVERY WELL

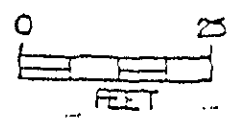
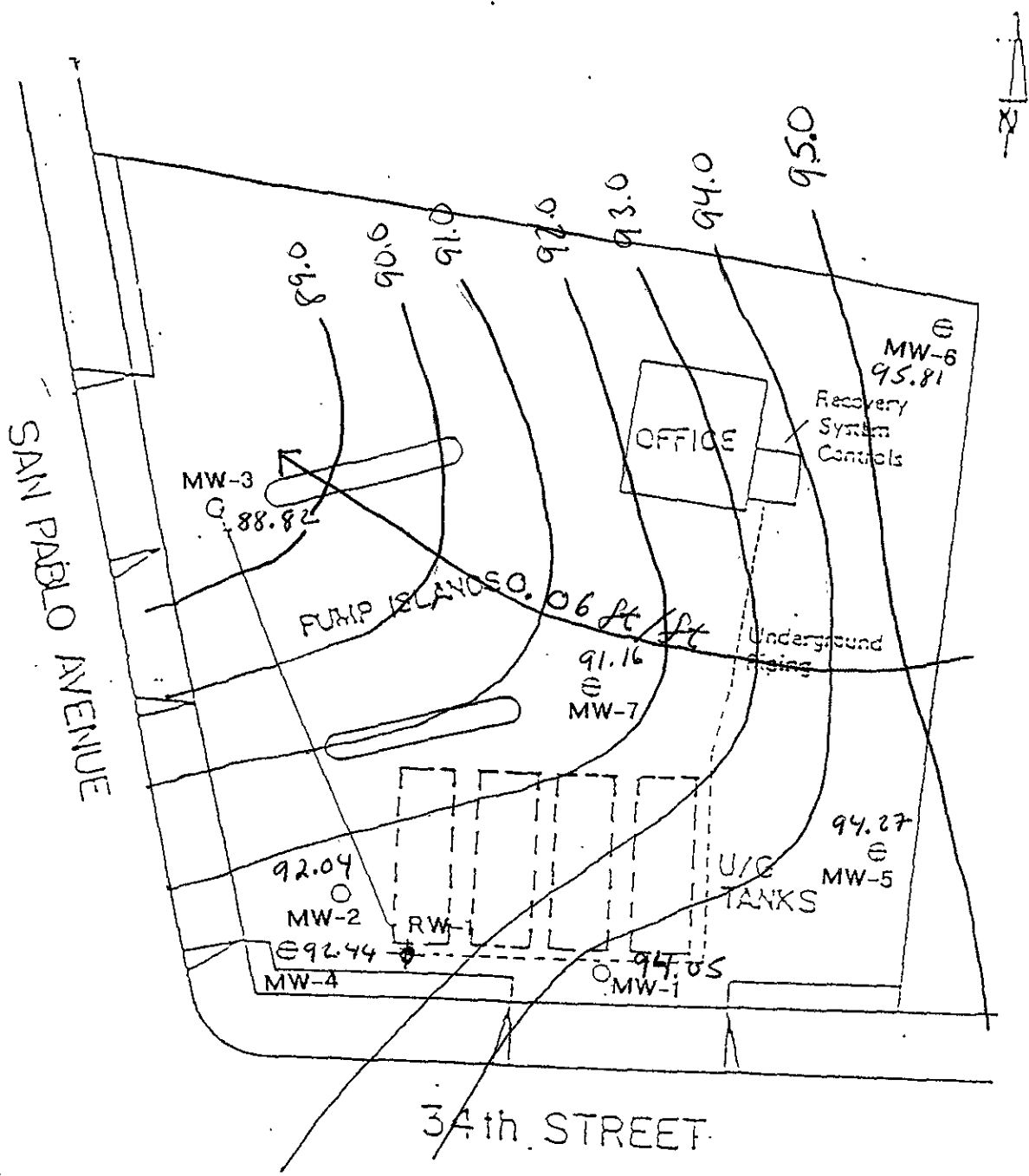


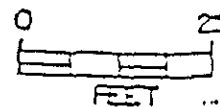
FIGURE 1



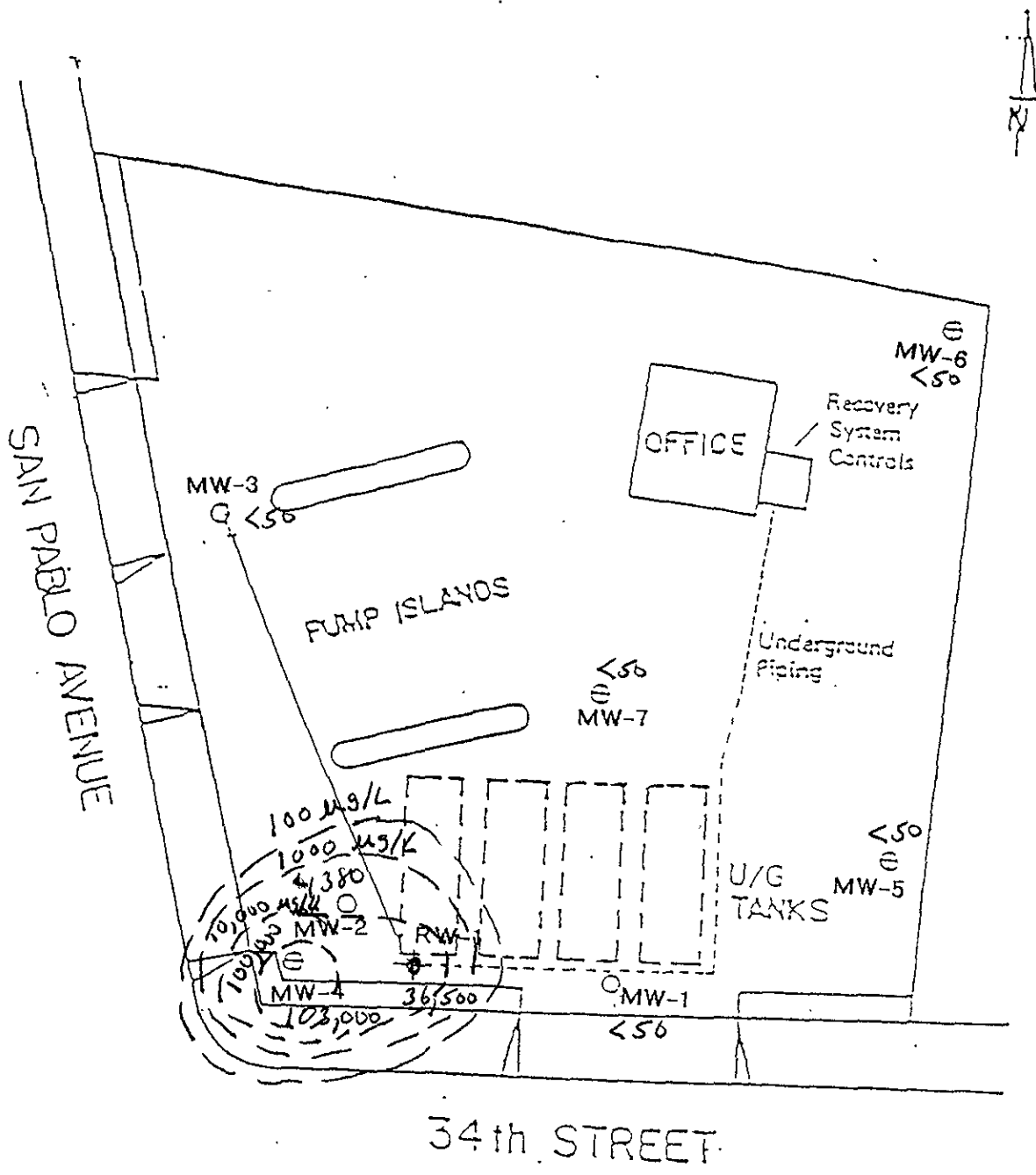
GROUNDWATER CONTOUR MAP
 THRIFTY SERVICE STATION NO. 49
 3400 SAN PABLO AVE.
 OAKLAND, CA

LEGEND

- MW1 - GT MONITORING WELLS
- ⊕ MW-4 - WCC MONITORING WELLS
- ⊕ RW-1 - PROPOSED RECOVERY WELL



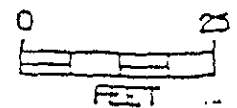
April 19, 2001



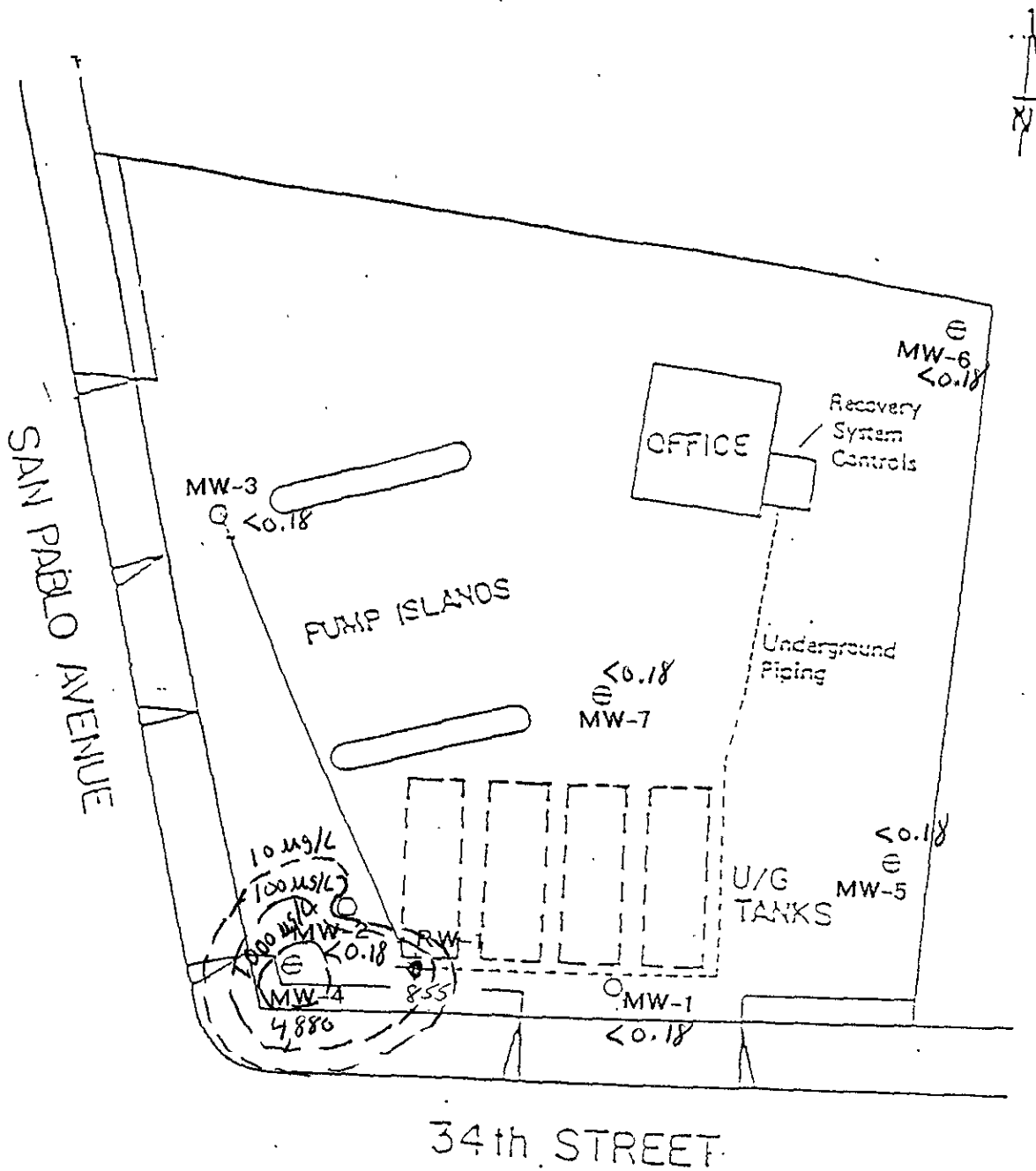
TPH ISOCONCENTRATION MAP - ug/L
 THRIFTY SERVICE STATION NO. 49
 3400 SAN PABLO AVE.
 OAKLAND, CA

LEGEND

- MW1 - GT MONITORING WELLS
- ⊗ MW-4 - WCC MONITORING WELLS
- ⊕ RW-1 - PROPOSED RECOVERY WELL



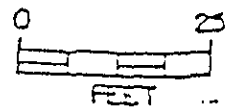
APR 19, 2001



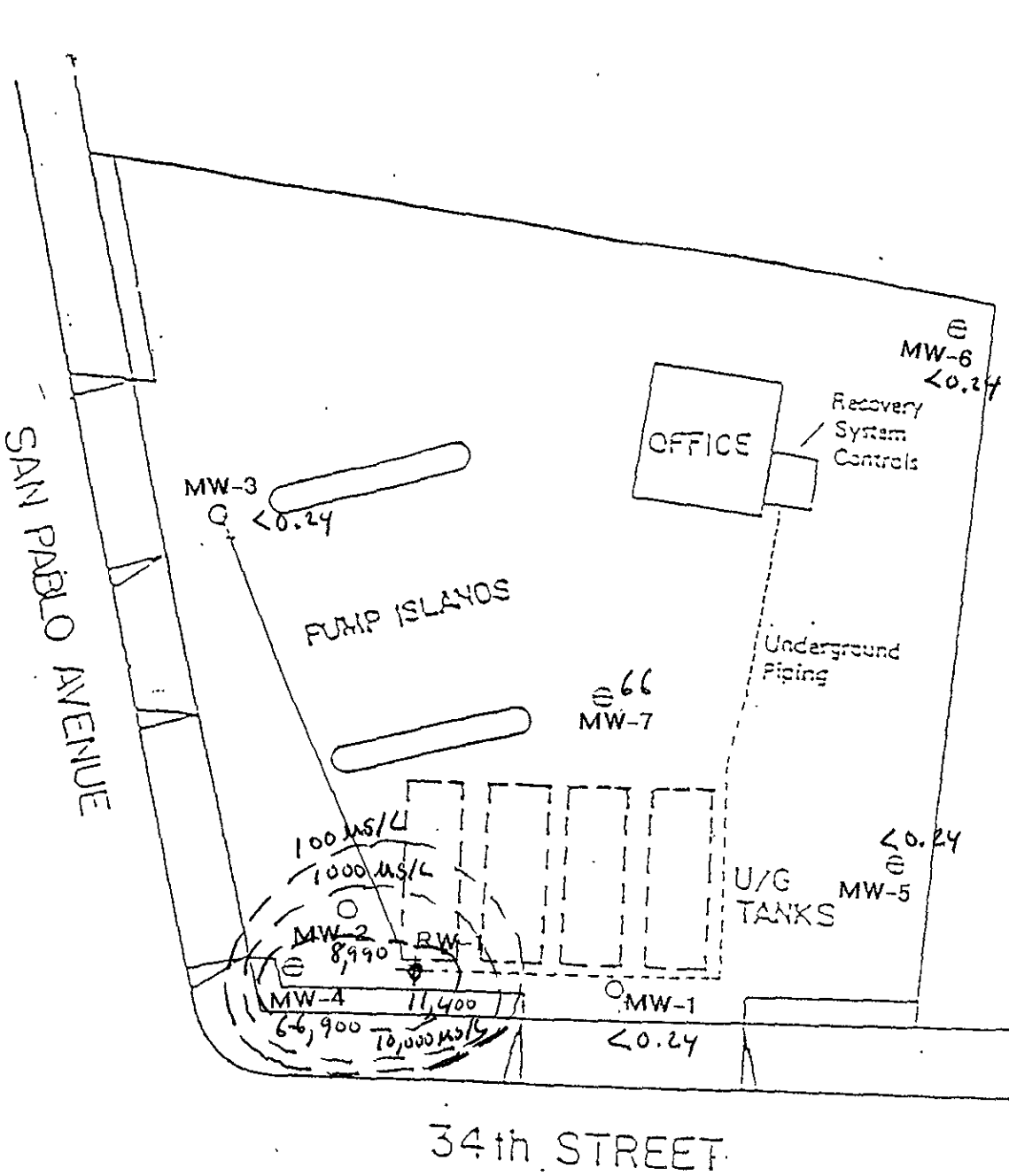
BENZENE ISOCONCENTRATION MAP ug/L
 THRIFTY SERVICE STATION NO. 49
 3400 SAN PABLO AVE.
 OAKLAND, CA

LEGEND

- MW1 - GT MONITORING WELLS
- ⊕ MW-4 - WCC MONITORING WELLS
- ⊕ RW-1 - PROPOSED RECOVERY WELL



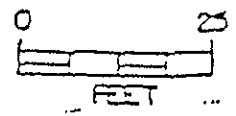
April 19, 2001



MTBE ISOCONCENTRATION MAP ug/L
 THRIFTY SERVICE STATION NO. 49
 3400 SAN PABLO AVE.
 OAKLAND, CA

LEGEND

- MW1 - GT MONITORING WELLS
- ⊕ MW4 - WCC MONITORING WELLS
- ⊕ RW-1 - PROPOSED RECOVERY WELL



APRIL 19, 2001

TABLES

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #049, OAKLAND, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MIBE (ug/L)					
MONITORING WELL #MW-1											
01/09/92	-	-	-	-	-	-	5.54	NP	0.00	98.03	92.49
04/13/92	-	-	-	-	-	-	5.86	NP	0.00	98.03	92.17
10/05/92	-	-	-	-	-	-	9.39	NP	0.00	98.03	88.64
01/06/93	-	-	-	-	-	-	4.76	NP	0.00	98.03	93.27
04/26/93	-	-	-	-	-	-	4.96	NP	0.00	98.03	93.07
01/04/94	-	-	-	-	-	-	7.00	NP	0.00	98.03	91.03
04/05/94	-	-	-	-	-	-	6.44	NP	0.00	98.03	91.59
10/09/95	44,000	4,500	4,300	1,700	10,000	-	-	-	-	98.03	-
01/08/96	21,000	1,200	150	34	4,800	-	6.15	NP	0.00	98.03	91.88
04/08/96	4,700	80	110	10	910	-	5.40	NP	0.00	98.03	92.63
07/22/96	7,000	280	130	<3	2,100	440	5.50	NP	0.00	98.03	92.53
10/16/96	120	<0.3	<0.3	<0.3	<0.5	180	6.02	NP	0.00	98.03	92.01
01/22/97	160	<0.3	<0.3	<0.3	<0.5	360	4.40	NP	0.00	98.03	93.63
04/21/97	20,000	420	140	5.8	840	55,000	6.30	NP	0.00	98.03	91.73
07/14/97	13,000	<0.3	<0.3	<0.3	<0.55	30,000	5.92	NP	0.00	98.03	92.11
10/07/97	-	-	-	-	-	-	7.71	7.70	0.01	98.03	90.33
01/15/98	<50	0.3	<0.3	<0.3	<0.5	-	4.40	NP	0.00	98.03	93.63
04/23/98	540	<0.3	<0.3	<0.3	<0.5	<20	8.10	NP	0.00	98.03	89.93
07/20/98	<50	<0.3	<0.3	<0.3	<0.5	<5	5.55	NP	0.00	98.03	92.48
10/14/98	50	1.4	0.56	<0.3	11	22	7.05	NP	0.00	98.03	90.98
01/21/99	<50	0.59	<0.3	<0.3	<0.5	<5	4.10	NP	0.00	98.03	93.93
04/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	4.30	NP	0.00	98.03	93.73
07/26/99	<50	<0.3	<0.3	<0.3	<0.5	<5	5.54	NP	0.00	98.03	92.49
10/13/99	<50	<0.3	<0.3	<0.3	<0.5	<5	6.13	NP	0.00	98.03	91.90
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	<5	6.04	NP	0.00	98.03	91.99
04/05/00	<50	<0.25	<0.25	<0.25	<0.5	<5	4.03	NP	0.00	98.03	94.00
07/19/00	<50	<0.3	<0.3	<0.3	<0.6	<5	4.00	NP	0.00	98.03	94.03
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	5.53	NP	0.00	98.03	92.50
01/17/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.97	NP	0.00	98.03	94.06
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.98	NP	0.00	98.03	94.05
MONITORING WELL #MW-2											
01/09/92	-	-	-	-	-	-	5.35	NP	0.00	97.44	92.09
04/13/92	-	-	-	-	-	-	7.42	NP	0.00	97.44	90.02

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #049, OAKLAND, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
10/05/92	-	-	-	-	-	-	12.15	NP	0.00	97.44	85.29
01/06/93	-	-	-	-	-	-	5.46	NP	0.00	97.44	91.98
04/26/93	-	-	-	-	-	-	5.15	NP	0.00	97.44	92.29
01/04/94	-	-	-	-	-	-	9.45	NP	0.00	97.44	87.99
04/05/94	-	-	-	-	-	-	8.23	NP	0.00	97.44	89.21
10/09/95	33,000	6,000	390	1,700	4,900	-	-	-	-	97.44	-
01/08/96	<50	0.32	<0.3	0.41	2.1	-	5.60	NP	0.00	97.44	91.84
04/08/96	10,000	490	210	210	830	-	5.43	NP	0.00	97.44	92.01
07/22/96	60,000	6,500	1,000	1,500	10,000	8,500	5.65	NP	0.00	97.44	91.79
10/16/96	6,500	12	0.34	0.72	110	4,700	5.82	NP	0.00	97.44	91.62
01/22/97	3,200	<0.3	0.46	0.37	<0.5	8,000	4.30	NP	0.00	97.44	93.14
04/21/97	66,000	5,300	1,000	2,300	14,000	30,000	5.80	NP	0.00	97.44	91.64
07/14/97	17,000	1.8	4.6	4.6	350	24,000	8.92	NP	0.00	97.44	88.52
10/07/97	220,000	5,200	1,700	3,800	15,000	-	6.80	NP	0.00	97.44	90.64
01/19/98	25,000	5.4	2.2	2.1	240	-	8.50	NP	0.00	97.44	88.94
04/23/98	7,700	<0.3	0.55	0.38	4.9	28,000	7.60	NP	0.00	97.44	89.84
07/20/98	430,000	4,200	10,000	5,400	28,000	77,000	6.94	NP	0.00	97.44	90.50
10/14/98	27,000	<0.3	4.5	4.1	4.6	65,000	8.45	NP	0.00	97.44	88.99
01/21/99	16,000	7.6	9.8	4.2	310	*49,000 / 42,000	6.95	NP	0.00	97.44	90.49
04/15/99	20,000	<0.3	<0.3	<0.3	<0.5	*31,000 / 30,000	8.45	NP	0.00	97.44	88.99
07/26/99	6,700	<6	<6	<6	<10	*11,000 / 15,000	6.94	NP	0.00	97.44	90.50
10/13/99	7,600	<3	3.7	<3	11	11,000	5.48	NP	0.00	97.44	91.96
01/20/00	7,500	<6	<6	<6	<10	*14,000 / 16,000	5.84	NP	0.00	97.44	91.60
04/05/00	10,400	<0.25	<0.25	<0.25	<0.5	*10,000 / 14,400	5.41	NP	0.00	97.44	92.03
07/19/00	130	<0.3	<0.3	<0.3	<0.6	*9,620 / 6,520	5.40	NP	0.00	97.44	92.04
10/18/00	150	<0.18	<0.14	<0.18	<0.26	*9,090 / 6,560	6.91	NP	0.00	97.44	90.53
01/17/01	75	<0.18	2	2	3	*8,650 / 9,710	5.41	NP	0.00	97.44	92.03
04/19/01	4,380	<0.18	<0.14	<0.18	<0.26	8,890	5.40	NP	0.00	97.44	92.04
MONITORING WELL #MW-3											
01/09/92	-	-	-	-	-	-	17.60	NP	0.00	97.69	80.09
04/13/92	-	-	-	-	-	-	17.40	NP	0.00	97.69	80.29
10/05/92	-	-	-	-	-	-	17.35	NP	0.00	97.69	80.34
01/06/93	-	-	-	-	-	-	17.40	NP	0.00	97.69	80.29
04/26/93	-	-	-	-	-	-	17.90	NP	0.00	97.69	79.79

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #049, OAKLAND, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MIBE (ug/L)					
01/04/94	-	-	-	-	-	-	17.60	NP	0.00	97.69	80.09
04/05/94	-	-	-	-	-	-	16.25	NP	0.00	97.69	81.44
01/08/96	-	-	-	-	-	-	7.11	NP	0.00	97.69	90.58
04/08/96	8,800	610	31	530	900	-	7.20	NP	0.00	97.69	90.49
07/22/96	38,000	4,100	1,500	1,600	5,400	2,600	6.82	NP	0.00	97.69	90.87
10/16/96	2,400	<0.3	<0.3	<0.3	<0.5	3,800	6.84	NP	0.00	97.69	90.85
01/22/97	2,200	<0.3	<0.3	<0.3	<0.5	5,500	4.80	NP	0.00	97.69	92.89
04/21/97	15,000	1,500	36	260	710	11,000	9.40	NP	0.00	97.69	88.29
07/14/97	5,400	0.45	<0.3	<0.3	<0.5	14,000	10.92	NP	0.00	97.69	86.77
10/07/97	8,800	0.39	<0.3	<0.3	0.88	-	11.95	NP	0.00	97.69	85.74
01/19/98	22,000	1,300	15	20	310	-	7.85	NP	0.00	97.69	89.84
04/23/98	9,200	3.9	3.1	5.7	9.8	16,000	11.20	NP	0.00	97.69	86.49
07/20/98	750	0.41	1.4	0.47	1.8	2,800	7.36	NP	0.00	97.69	90.33
10/14/98	750	<0.3	<0.3	<0.3	<0.5	15,000	11.95	NP	0.00	97.69	85.74
01/21/99	4,700	0.32	<0.3	<0.3	<0.5	* 12,000 / 16,000	10.45	NP	0.00	97.69	87.24
04/15/99	7,900	0.59	0.69	<0.3	0.94	* 11,000 / 14,000	7.86	NP	0.00	97.69	89.83
07/26/99	5,200	<3	<3	<3	<5	*9,600 / 11,000	10.40	NP	0.00	97.69	87.29
10/13/99	<50	<0.3	<0.3	<0.3	<0.5	<5	7.09	NP	0.00	97.69	90.60
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	<5	6.86	NP	0.00	97.69	90.83
04/05/00	<50	0.8	<0.25	<0.25	<0.5	*5.6 / <5	8.85	NP	0.00	97.69	88.84
07/19/00	<50	<0.3	<0.3	<0.3	<0.6	<5	8.86	NP	0.00	97.69	88.83
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	7.32	NP	0.00	97.69	90.37
01/17/01	<50	<0.18	2	<0.18	1	*39 / 39	5.40	NP	0.00	97.69	92.29
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	8.87	NP	0.00	97.69	88.82
MONITORING WELL #MW-4											
01/09/92	-	-	-	-	-	-	5.25	NP	0.00	97.33	92.08
04/13/92	-	-	-	-	-	-	6.40	NP	0.00	97.33	90.93
10/05/92	-	-	-	-	-	-	9.95	NP	0.00	97.33	87.38
01/06/93	-	-	-	-	-	-	4.10	NP	0.00	97.33	93.23
04/26/93	-	-	-	-	-	-	4.84	NP	0.00	97.33	92.49
01/04/94	-	-	-	-	-	-	9.05	NP	0.00	97.33	88.28
04/05/94	-	-	-	-	-	-	8.10	NP	0.00	97.33	89.23
10/09/95	63,000	9,000	2,100	2,500	9,600	-	-	-	-	97.33	-
01/08/96	23,000	2,200	830	880	3,600	-	5.57	NP	0.00	97.33	91.76

**TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #049, OAKLAND, CA.**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
04/08/96	56,000	5,000	2,500	2,600	11,000	-	5.36	NP	0.00	97.33	91.97
07/22/96	33,000	3,700	1,600	1,400	6,000	2,400	4.80	NP	0.00	97.33	92.53
10/16/96	2,800	7.8	0.60	0.41	52	2,000	5.47	NP	0.00	97.33	91.86
01/22/97	1,400	<0.3	<0.3	<0.3	<0.5	3,100	5.15	NP	0.00	97.33	92.18
04/23/97	-	-	-	-	-	-	6.36	5.30	1.06	97.33	91.77
07/14/97	-	-	-	-	-	-	5.24	5.21	0.03	97.33	92.11
10/07/97	-	-	-	-	-	-	7.82	7.80	0.02	97.33	89.53
01/15/98	-	-	-	-	-	-	6.68	6.60	0.08	97.33	90.71
04/23/98	-	-	-	-	-	-	6.36	5.30	1.06	97.33	91.77
07/20/98	<50	<0.3	<0.3	<0.3	<0.5	<5	6.05	NP	0.00	97.33	91.28
10/14/98	3,100	86	23	2.0	520	1,100	6.85	NP	0.00	97.33	90.48
01/21/99	9,100	3.2	5.6	1.8	130	*24,000 / 17,000	6.10	NP	0.00	97.33	91.23
04/15/99	14,000	<0.3	0.71	<0.3	<0.5	*20,000 / 22,000	6.05	NP	0.00	97.33	91.28
07/26/99	4,500	<6	<6	<6	<10	*8,700 / 9,800	6.07	NP	0.00	97.33	91.26
10/13/99	410	<0.3	0.63	<0.3	<0.5	660	5.54	NP	0.00	97.33	91.79
01/20/00	770	<0.3	<0.3	<0.3	<0.5	*2,400 / 1,900	5.49	NP	0.00	97.33	91.84
04/05/00	61,200	0.9	<0.25	<0.25	<0.5	*18,500 / 21,900	5.30	NP	0.00	97.33	92.03
07/19/00	96,600	1,770	1,760	2,690	8,730	21,900 / 9,740 J	5.29	NP	0.00	97.33	92.04
10/18/00	34,900	698	1,010	607	4,130	*27,800 / 15,900	6.02	NP	0.00	97.33	91.31
01/17/01	29,100	799	930	614	3,400	*24,300 / 31,400	4.88	NP	0.00	97.33	92.45
04/19/01	103,000	4,880	3,980	3,260	11,800	66,900	4.89	NP	0.00	97.33	92.44
MONITORING WELL #MW-5											
01/09/92	-	-	-	-	-	-	5.32	NP	0.00	98.85	93.53
04/13/92	-	-	-	-	-	-	4.82	NP	0.00	98.85	94.03
10/0/92	-	-	-	-	-	-	8.78	NP	0.00	98.85	90.07
01/06/93	-	-	-	-	-	-	3.46	NP	0.00	98.85	95.39
04/26/93	-	-	-	-	-	-	4.66	NP	0.00	98.85	94.19
01/04/94	-	-	-	-	-	-	6.36	NP	0.00	98.85	92.49
04/05/94	-	-	-	-	-	-	5.94	NP	0.00	98.85	92.91
07/12/95	<100	<0.5	<0.5	<0.5	<1	-	-	-	-	98.85	-
10/09/95	440	31	11	19	84	-	-	-	-	98.85	-
01/08/96	<50	<0.3	<0.3	<0.3	<0.5	-	6.63	NP	0.00	98.85	92.22
04/08/96	<50	<0.3	<0.3	<0.3	<0.5	-	5.22	NP	0.00	98.85	93.63
07/22/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.62	NP	0.00	98.85	92.23

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #049, OAKLAND, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
10/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.12	NP	0.00	98.85	92.73
01/22/97	<50	<0.3	<0.3	<0.3	<0.5	<20	5.17	NP	0.00	98.85	93.68
04/21/97	73	2.5	0.34	0.74	3.8	21	6.64	NP	0.00	98.85	92.21
07/14/97	<50	<0.3	<0.3	<0.3	<0.5	<20	6.67	NP	0.00	98.85	92.18
10/07/97	130	<0.3	<0.3	<0.3	<0.5	-	8.20	NP	0.00	98.85	90.65
01/19/98	85	<0.3	<0.3	<0.3	<0.5	-	1.55	NP	0.00	98.85	97.30
04/23/98	220	0.39	<0.3	<0.3	<0.5	350	8.10	NP	0.00	98.85	90.75
07/20/98	<50	<0.3	<0.3	<0.3	<0.5	<5	6.30	NP	0.00	98.85	92.55
10/14/98	<50	<0.3	<0.3	<0.3	<0.5	<5	7.65	NP	0.00	98.85	91.20
01/21/99	<50	<0.3	<0.3	<0.3	<0.5	*6.7 / <5	6.15	NP	0.00	98.85	92.70
04/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	1.60	NP	0.00	98.85	97.25
07/26/99	<50	<0.3	<0.3	<0.3	<0.5	<5	6.13	NP	0.00	98.85	92.72
10/13/99	<50	<0.3	<0.3	<0.3	<0.5	<5	6.61	NP	0.00	98.85	92.24
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	<5	6.14	NP	0.00	98.85	92.71
04/05/00	<50	0.5	<0.25	<0.25	<0.5	*5.4 / <5	4.58	NP	0.00	98.85	94.27
07/19/00	<50	<0.3	<0.3	<0.3	<0.6	<5	4.59	NP	0.00	98.85	94.26
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	6.28	NP	0.00	98.85	92.57
01/17/01	<50	<0.18	<0.14	<0.18	1	*5 / 4.8	4.58	NP	0.00	98.85	94.27
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4.58	NP	0.00	98.85	94.27
MONITORING WELL #MW-6											
01/09/92	-	-	-	-	-	-	6.30	NP	0.00	99.67	93.37
04/13/92	-	-	-	-	-	-	5.47	NP	0.00	99.67	94.20
10/05/92	-	-	-	-	-	-	9.85	NP	0.00	99.67	89.82
01/06/93	-	-	-	-	-	-	4.16	NP	0.00	99.67	95.51
04/26/93	-	-	-	-	-	-	5.75	NP	0.00	99.67	93.92
01/14/94	-	-	-	-	-	-	7.20	NP	0.00	99.67	92.47
04/05/94	-	-	-	-	-	-	6.76	NP	0.00	99.67	92.91
07/10/95	<100	<0.5	0.9	<0.5	1.1	-	-	-	-	99.67	-
10/09/95	250	4.8	5.6	11	58	-	-	-	-	99.67	-
01/08/96	<50	<0.3	<0.3	<0.3	<0.5	-	6.16	NP	0.00	99.67	93.51
04/08/96	230	4.6	4.7	3.2	33	-	4.60	NP	0.00	99.67	95.07
07/22/96	<50	<0.3	<0.3	<0.3	<0.5	<20	7.30	NP	0.00	99.67	92.37
10/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.82	NP	0.00	99.67	93.85
01/22/97	<50	<0.3	<0.3	<0.3	<0.5	<20	4.40	NP	0.00	99.67	95.27

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THRIFTY OIL STATION #049, OAKLAND, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
04/21/97	130	<0.3	<0.3	<0.3	<0.5	<20	7.10	NP	0.00	99.67	92.57
07/14/97	<50	<0.3	<0.3	<0.3	0.70	<20	7.35	NP	0.00	99.67	92.32
10/07/97	<50	0.78	0.3	<0.3	<0.5	-	6.98	NP	0.00	99.67	92.69
01/23/98	<50	<0.3	<0.3	<0.3	<0.5	-	2.35	NP	0.00	99.67	97.32
04/23/98	<50	<0.3	<0.3	<0.3	<0.5	<20	6.90	NP	0.00	99.67	92.77
07/20/98	<50	<0.3	1.1	<0.3	1.4	<5	5.45	NP	0.00	99.67	94.22
10/14/98	<50	<0.3	<0.3	<0.3	<0.5	<5	4.95	NP	0.00	99.67	94.72
01/21/99	<50	0.35	0.62	<0.3	<0.5	<5	3.90	NP	0.00	99.67	95.77
04/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	2.35	NP	0.00	99.67	97.32
07/26/99	1,000	<0.3	<0.3	<0.3	<0.5	*2,300 / 3,900	3.93	NP	0.00	99.67	95.74
10/13/99	<50	<0.3	<0.3	<0.3	<0.5	<5	6.15	NP	0.00	99.67	93.52
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	*42 / 41	5.84	NP	0.00	99.67	93.83
04/05/00	4,600	338	2.8	1.2	55.2	*282 / 230	3.89	NP	0.00	99.67	95.78
07/19/00	60	1	2	<0.3	<0.6	*87 / 76	3.07	NP	0.00	99.67	96.60
10/18/00	-	-	-	-	-	-	-	-	-	99.67	-
01/17/01	103	<0.18	2	<0.18	3	*78 / 106	3.87	NP	0.00	99.67	95.80
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.86	NP	0.00	99.67	95.81
MONITORING WELL #MW-7											
01/09/92	-	-	-	-	-	-	6.30	NP	0.00	99.02	92.72
04/13/92	-	-	-	-	-	-	6.68	NP	0.00	99.02	92.34
10/05/92	-	-	-	-	-	-	9.60	NP	0.00	99.02	89.42
01/06/93	-	-	-	-	-	-	13.90	NP	0.00	99.02	85.12
04/26/93	-	-	-	-	-	-	5.55	NP	0.00	99.02	93.47
01/04/94	-	-	-	-	-	-	7.58	NP	0.00	99.02	91.44
04/05/94	-	-	-	-	-	-	6.66	NP	0.00	99.02	92.36
10/09/95	27,000	2,400	140	1,700	2,700	-	-	-	-	99.02	-
01/08/96	13,000	800	42	540	860	-	6.94	NP	0.00	99.02	92.08
04/08/96	9,100	840	31	690	1,200	-	5.48	NP	0.00	99.02	93.54
07/22/96	11,000	1,700	22	660	700	840	6.60	NP	0.00	99.02	92.42
10/16/96	180	<0.3	<0.3	<0.3	<0.5	270	6.42	NP	0.00	99.02	92.60
01/22/97	130	<0.3	<0.3	<0.3	<0.5	470	5.70	NP	0.00	99.02	93.32
04/21/97	10,000	1,400	27	820	490	1,100	5.30	NP	0.00	99.02	93.72
07/14/97	8,200	660	15	230	270	560	7.90	NP	0.00	99.02	91.12
10/07/97	7,700	480	15	8.4	350	-	7.70	NP	0.00	99.02	91.32

**TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #049, OAKLAND, CA.**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
01/19/98	1,400	20	0.74	0.46	4.4	-	6.05	NP	0.00	99.02	92.97
04/23/98	590	<0.3	<0.3	<0.3	<0.5	1,700	7.60	NP	0.00	99.02	91.42
07/20/98	4,900	570	150	300	500	1,500	5.30	NP	0.00	99.02	93.72
10/14/98	1,100	1.0	<0.3	<0.3	5.3	2,000	8.60	NP	0.00	99.02	90.42
01/21/99	570	0.32	<0.3	<0.3	<0.5	* 1,500 / 1,700	6.70	NP	0.00	99.02	92.32
04/15/99	770	<0.3	<0.3	<0.3	<0.5	* 1,400 / 1,200	6.07	NP	0.00	99.02	92.95
07/26/99	500	<0.3	<0.3	<0.3	<0.5	*710 / 950	7.86	NP	0.00	99.02	91.16
10/13/99	<50	<0.3	0.44	<0.3	0.62	<5	6.93	NP	0.00	99.02	92.09
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	*5 / <5	6.44	NP	0.00	99.02	92.58
04/05/00	5,670	415	19	1.7	60.1	*329 / 194	7.86	NP	0.00	99.02	91.16
07/19/00	1,350	14	<3	<3	10	*237 / 120	7.10	NP	0.00	99.02	91.92
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	*63 / 41.1	5.28	NP	0.00	99.02	93.74
01/17/01	<50	<0.18	<0.14	<0.18	3	*57 / 81	5.27	NP	0.00	99.02	93.75
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	66	7.86	NP	0.00	99.02	91.16
MONITORING WELL #RW-1											
01/09/92	-	-	-	-	-	-	14.00	NP	0.00	-	-
04/13/92	-	-	-	-	-	-	14.00	NP	0.00	-	-
10/05/92	-	-	-	-	-	-	15.05	NP	0.00	-	-
01/06/93	-	-	-	-	-	-	5.43	NP	0.00	-	-
04/26/93	-	-	-	-	-	-	13.20	NP	0.00	-	-
01/04/94	-	-	-	-	-	-	14.30	NP	0.00	-	-
04/05/94	-	-	-	-	-	-	14.13	NP	0.00	-	-
01/08/96	-	-	-	-	-	-	14.22	NP	0.00	-	-
04/08/96	-	-	-	-	-	-	14.33	NP	0.00	-	-
07/22/96	8,100	530	84	120	860	-	14.27	NP	0.00	-	-
10/16/96	-	-	-	-	-	-	13.10	NP	0.00	-	-
01/22/97	-	-	-	-	-	-	16.97	NP	0.00	-	-
10/07/97	-	-	-	-	-	-	14.20	NP	0.00	-	-
01/15/98	-	-	-	-	-	-	15.60	NP	0.00	-	-
04/23/98	81,000	0.72	1.4	3.2	5.7	270,000	14.20	NP	0.00	-	-
07/20/98	-	-	-	-	-	-	14.30	NP	0.00	-	-
10/14/98	-	-	-	-	-	-	11.20	NP	0.00	-	-
01/21/99	-	-	-	-	-	-	-	-	-	-	-
04/15/99	-	-	-	-	-	-	13.10	NP	0.00	-	-

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DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
07/26/99	4,400	<3	<3	<3	<5	*6,800 / 9,000	13.83	NP	0.00	-	-
10/13/99	-	-	-	-	-	-	-	-	-	-	-
01/20/00	-	-	-	-	-	-	13.22	NP	0.00	-	-
04/05/00	-	-	-	-	-	-	-	-	-	-	-
07/19/00	-	-	-	-	-	-	13.25	NP	0.00	-	-
10/18/00	-	-	-	-	-	-	11.14	NP	0.00	-	-
01/17/01	-	-	-	-	-	-	11.12	NP	0.00	-	-
04/19/01	-	-	-	-	-	-	-	-	-	-	-

NOTE: * MTBE 8020 / 8260
 ND = Nondetectable
 NP = No free hydrocarbon product
 " - " = Not analyzed / Not available

Benzene, toluene, ethylbenzene, and xylene analyzed by EPA method 8020
 Total petroleum hydrocarbons (TPH) analyzed by EPA method 8015 modified for gasoline
 Methyl-tert Butyl Ether (MTBE) analyzed by EPA method 8020 or 8260

TABLE 2
GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM
 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum Discharge (gallons)	Flow (gal/day)	EFFLUENT (ug/L)						INFLUENT (ug/L)						
				TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE	
4/8/91	1,310	0	-	-	<0.3	<0.3	<0.3	<0.9	-	-	910	2000	160	2000	-	
4/15/91	1,434	124	18	-	<0.3	<0.3	<0.3	<0.3	-	-	2800	4600	310	5000	-	
4/22/91	1,510	200	11	-	<15	<15	<15	<45	-	-	3100	3300	<15	2800	-	
4/29/91	1,660	350	21	-	<0.3	<0.3	<0.3	<0.9	-	-	3600	4500	300	5000	-	
5/6/91	1,740	430	11	-	<0.3	<0.3	<0.3	<0.9	-	-	3600	3500	300	3800	-	
5/13/91	1,880	570	20	-	<0.3	<0.3	<0.3	<0.9	-	-	3300	3200	230	3900	-	
5/20/91	2,010	700	19	-	<0.3	<0.3	<0.3	<0.9	-	-	3300	3400	260	5100	-	
5/28/91	2,050	740	5	-	<0.3	<0.3	<0.3	<0.9	-	-	2900	3000	230	4200	-	
6/3/91	2,110	800	10	-	<0.3	<0.3	<0.3	<0.9	-	-	2500	2100	110	2800	-	
6/10/91	2,160	850	7	-	<0.3	<0.3	<0.3	<0.9	-	-	1800	1700	120	2100	-	
6/17/91	2,219	909	8	-	<0.3	<0.3	<0.3	<0.9	-	-	2100	1900	170	2700	-	
6/24/91	2,263	953	6	-	<0.3	<0.3	<0.3	<0.9	-	-	2100	1800	150	2700	-	
07/01/91	2,313	1,003	7	-	<0.5	<0.5	<1	<1	-	-	2,700	2,000	150	2,900	-	
07/08/91	2,700	1,390	55	-	<0.5	<0.5	<1	<1	-	-	4,000	2,500	130	4,400	-	
07/15/91	2,872	1,562	25	-	<0.5	<0.5	<1	<1	-	-	3,100	1,900	140	3,200	-	
07/22/91	3,144	1,834	39	-	<0.5	<0.5	<1	<1	-	-	3,400	2,100	110	2,800	-	
07/29/91	3,220	1,910	11	-	<0.5	<0.5	<1	<1	-	-	5,100	2,200	180	2,700	-	
08/05/91	3,348	2,038	18	-	<0.5	<0.5	<1	<1	-	-	5,100	3,900	400	4,200	-	
08/12/91	3,472	2,162	18	-	<0.5	<0.5	<1	<1	-	-	11,000	6,200	440	8,400	-	
08/19/91	3,548	2,238	11	-	<0.5	<0.5	<1	<1	-	-	4,500	2,400	130	2,600	-	
08/26/91	3,655	2,345	15	-	<0.5	<0.5	<1	<1	-	-	4,400	2,500	260	3,600	-	
09/09/91	3,822	2,512	12	-	<0.5	<0.5	<1	<1	-	-	5,200	3,000	390	3,700	-	
09/16/91	3,884	2,574	9	-	<0.5	<0.5	<1	<1	-	-	4,100	2,000	460	4,900	-	
09/23/91	4,013	2,703	18	-	<0.5	<0.5	<1	<1	-	-	4,600	1,600	710	6,400	-	
09/30/91	4,092	2,782	11	-	<0.5	<0.5	<1	<1	-	-	5,700	2,000	380	6,200	-	
10/07/91	4,131	2,821	6	System shut down						-	-	-	-	-	-	-
10/14/91	4,195	2,885	9	-	<0.5	<0.5	<1	<1	-	-	4,400	2,000	370	8,100	-	
10/21/91	4,406	3,096	30	-	<0.5	<0.5	<1	<1	-	-	2,300	1,100	190	4,200	-	
10/28/91	4,474	3,164	10	-	<0.5	<0.5	<1	<1	-	-	6,400	4,100	620	6,100	-	
11/03/91	4,613	3,303	23	-	<0.5	<0.5	<1	<1	-	-	6,100	2,800	200	5,600	-	
11/11/91	4,700	3,390	11	-	<0.5	<0.5	<1	<1	-	-	6,500	2,300	<30	4,900	-	
11/18/91	4,887	3,577	27	-	<0.5	<0.5	<1	<1	-	-	5,600	2,500	300	4,600	-	
11/25/91	5,042	3,732	22	-	<0.5	<0.5	<1	<1	-	-	5,400	2,800	230	5,700	-	
12/03/91	5,263	3,953	28	-	<0.5	<0.5	<1	<1	-	-	7,200	3,300	490	5,500	-	
12/09/91	5,362	4,052	17	-	<0.5	<0.5	<1	<1	-	-	4,400	1,700	140	3,900	-	
12/16/91	5,486	4,176	18	-	<0.5	<0.5	<0.5	<0.5	-	-	4,700	2,300	310	4,600	-	
12/23/91	5,516	4,206	4	-	<0.5	<0.5	<0.5	<0.5	-	-	4,000	2,200	290	5,900	-	
12/30/91	5,575	4,265	8	-	<0.5	<0.5	<0.5	<0.5	-	-	5,200	2,500	350	5,800	-	
01/15/92	5,720	4,410	9	-	<0.5	<0.5	<0.5	<0.5	-	-	3,400	1,900	300	6,300	-	

TABLE 2
GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM
 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Com- Discharge (gallons)	Flow (gal/day)	EFFLUENT (ug/L)						INFLUENT (ug/L)						
				TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE	
02/10/92	6,264	4,954	21	-	<0.5	<0.5	<0.5	<0.5	-	-	5,800	2,800	320	7,200	-	
03/09/92	8,520	7,210	81	<200	<0.5	1.6	<0.5	<0.5	-	47,000	7,100	4,800	630	10,300	-	
04/13/92	22,888	21,578	411	<200	<0.5	<0.5	<0.5	<0.5	-	29,000	4,500	2,200	160	4,800	-	
05/11/92	24,920	23,610	73	<200	<0.5	<0.5	<0.5	<0.5	-	22,000	4,300	1,500	130	3,800	-	
06/01/92	28,330	27,020	162	<200	<0.5	<0.5	<0.5	<0.5	-	18,000	3,400	1,500	660	4,200	-	
07/13/92	72,675	27,020	-	-	<0.5	<0.5	<0.5	<0.5	-	-	1,800	750	150	5,600	-	
07/13/92	72,675	27,020	-	The system pumped air and flowmeter jumped from 30,000 gallons to 70,000 gallons						-	-	-	-	-	-	-
08/17/92	75,046	29,391	68	-	<0.5	<0.5	<0.5	<0.5	-	-	1,100	350	200	1,100	-	
09/14/92	75,582	29,927	19	-	<0.5	<0.5	<0.5	<1	-	-	2,100	520	<25	3,500	-	
10/05/92	75,680	30,025	5	<200	<0.5	<0.5	<0.5	<1	-	19,000	1,700	270	<25	4,000	-	
11/09/92	77,280	31,625	46	-	<0.5	<0.5	<0.5	<0.5	-	-	4,000	1,400	120	5,900	-	
12/14/92	79,420	33,765	61	-	<0.5	<0.5	<0.5	<1	-	-	7,300	4,900	1,800	16,000	-	
01/04/93	84,720	39,065	252	-	<0.5	<0.5	<0.5	<1	-	-	5,400	2,100	450	7,800	-	
02/15/93	102,689	57,034	428	<200	<0.5	<0.5	<0.5	<1	-	41,000	6,600	3,200	260	9,600	-	
02/22/93	146,430	57,034	-	The system pumped air and flowmeter jumped from 102,689 gallons to 146,430 gallons						-	-	-	-	-	-	-
03/08/93	147,500	58,104	76	-	<0.5	<0.5	<0.5	<1	-	-	7,400	3,400	56	11,000	-	
04/26/93	151,200	61,804	76	<100	<0.5	<0.5	<0.5	<1	-	36,000	4,300	2,200	420	8,300	-	
04/26/93	151,200	61,804	-	Shut down system for repair						-	-	-	-	-	-	-
07/21/93	151,240	61,844	0	Restart the system						-	-	-	-	-	-	-
08/11/93	151,650	62,254	20	-	<0.5	<0.5	<0.5	<1	-	-	6,500	2,300	390	6,200	-	
09/16/93	154,005	64,609	65	<60	<0.3	<0.3	<0.3	<0.6	-	43,000	2,300	320	<4.4	2,900	-	
10/04/93	154,896	65,500	50	<60	<0.3	<0.3	<0.3	<0.6	-	33,000	2,900	470	6.9	3,500	-	
11/05/93	157,431	68,035	79	<50	<0.3	<0.3	<0.3	<0.5	-	15,000	1,100	27	<0.3	920	-	
12/03/93	159,324	69,928	68	<50	<0.3	<0.3	<0.3	<0.5	-	16,000	1,100	88	<6.6	2,300	-	
01/06/94	166,440	77,044	209	-	<0.3	<0.3	<0.3	<0.5	-	-	3,800	730	<13	1,200	-	
02/03/94	170,720	81,324	153	-	<0.3	<0.3	<0.3	<0.5	-	-	3,600	610	<4.4	4,800	-	
03/03/94	178,168	88,772	266	-	<0.3	<0.3	<0.3	<0.5	-	-	2,800	2,000	270	3,400	-	
04/07/94	185,670	96,274	214	<50	<0.3	<0.3	<0.3	<0.5	-	26,000	2,200	550	<6.6	1,900	-	
05/12/94	188,840	99,444	91	<50	<0.3	<0.3	<0.3	<0.5	-	4,600	100	10	8.4	280	-	
06/16/94	194,680	105,284	167	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-	
07/11/94	199,135	109,739	178	<50	<0.3	<0.3	<0.3	<0.5	-	4,000	220	<2.6	<2.6	320	-	
08/04/94	200,910	111,614	74	<50	<0.3	<0.3	<0.3	<0.5	-	7,800	480	6.2	<0.3	630	-	
09/15/94	203,450	114,054	60	<50	<0.3	<0.3	<0.3	<0.5	-	3,200	150	2.4	2.6	170	-	
10/10/94	205,210	115,814	70	<50	<0.3	<0.3	<0.5	<0.5	-	1,300	8.6	1.5	1.1	15	-	
11/07/94	206,060	116,664	30	<50	<0.3	<0.3	<0.5	<0.5	-	170	1.5	<0.3	<0.5	0.5	-	
12/05/94	207,093	117,697	37	<50	<0.3	<0.3	<0.5	<0.5	-	75	1.3	<0.3	<0.5	<0.5	-	
01/09/95	207,293	117,897	6	<50	<0.3	<0.3	<0.5	<0.5	-	<50	<0.3	<0.3	<0.5	<0.5	-	
02/01/95	207,650	118,254	16	<50	<0.3	<0.3	<0.5	<0.5	-	<50	<0.3	<0.3	<0.5	<0.5	-	
02/06/95	207,810	118,414	32	<50	<0.3	<0.3	<0.5	<0.5	-	<50	2.7	<0.3	<0.5	<0.5	-	

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GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM
 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	EFFLUENT (ug/L)						INFLUENT (ug/L)						
				TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE	
03/10/95	208,430	119,034	19	<100	<0.5	<0.5	<0.5	<1	-	<100	<0.5	<0.5	<0.5	<1	-	
04/10/95	208,564	119,168	4	<100	<0.5	<0.5	<0.5	<1	-	3,300	180	7.6	2.1	150	-	
05/08/95	208,608	119,212	2	<100	<0.5	<0.5	<0.5	<1	-	11,000	640	9.2	<5	1,100	-	
06/05/95	208,926	119,530	11	<100	<0.5	<0.5	<0.5	<1	-	5,100	270	2.2	<0.5	49	-	
07/10/95	214,182	124,786	150	<100	<0.5	<0.5	<0.5	<1	-	13,000	1,600	120	24	1,300	-	
08/07/95	221,876	132,480	275	Shut down system for repair						-	-	-	-	-	-	-
08/28/95	221,997	132,601	6	Restart the system						-	-	-	-	-	-	-
09/06/95	222,003	132,607	1	<100	<0.5	<0.5	<0.5	<1	-	2,300	<0.5	<0.5	<0.5	<1	-	
10/09/95	222,343	132,947	10	<100	<0.5	<0.5	<0.5	<1	-	2,000	5.6	0.77	0.66	3.8	-	
11/06/95	222,704	133,308	13	<50	0.3	0.31	<0.3	0.68	-	3,000	27	1.7	3.7	48	-	
12/11/95	223,792	134,396	31	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	0.96	-	
01/08/96	224,661	135,265	31	970	<0.3	<0.3	<0.3	0.67	-	1,800	39	<0.3	<0.3	<0.5	-	
02/12/96	227,812	138,416	90	<50	10	0.37	<0.3	0.53	-	3,300	190	<7.5	<7.5	20	-	
03/12/96	229,301	139,905	51	<50	<0.3	<0.3	<0.3	<0.5	-	2,700	250	2.3	<1.5	<2.5	-	
04/08/96	242,320	152,924	482	<50	<0.3	<0.3	<0.3	<0.5	-	1,000	90	5	<0.3	67	-	
05/06/96	247,840	158,444	197	100	<0.3	<0.3	<0.3	<0.5	-	15,000	2,200	600	32	2,400	-	
06/03/96	248,423	159,027	21	Shut down system for carbon change						-	-	-	-	-	-	-
08/08/96	248,423	159,027	-	Start-up system						-	-	-	-	-	-	-
08/20/96	248,630	159,234	17	<50	<0.3	<0.3	<0.3	<0.5	-	2,100	24	<0.3	<0.3	49	-	
09/23/96	259,030	169,634	306	<50	<0.3	<0.3	<0.3	<0.5	-	4,100	260	<3	<3	34	-	
10/16/96	263,610	174,214	199	<50	<0.3	<0.3	<0.3	<0.5	-	2,700	220	3.8	<0.6	44	-	
11/19/96	263,986	174,590	11	<50	<0.3	<0.3	<0.3	<0.5	-	1,200	<0.3	<0.3	<0.3	<0.5	-	
12/16/96	264,210	174,814	8	<50	<0.3	<0.3	<0.3	1.5	-	29,000	410	2,300	120	1,100	-	
01/22/97	266,220	176,824	54	<50	<0.3	<0.3	<0.3	<0.5	-	68,000	<0.3	<0.3	<0.3	<0.5	-	
02/24/97	267,030	177,634	25	<50	<0.3	<0.3	<0.3	<0.5	-	51,000	3,500	3,200	390	2,200	-	
03/17/97	267,230	177,834	10	<50	<0.3	<0.3	<0.3	<0.5	-	89,000	<6	11	<6	14	-	
04/21/97	267,415	178,019	5	<50	<0.3	<0.3	<0.3	<0.5	-	61,000	730	18	130	360	-	
05/22/97	276,535	187,139	294	<50	<0.3	<0.3	<0.3	<0.5	-	850	1.3	<0.3	0.4	4.6	-	
06/23/97	281,214	191,818	146	-	-	-	-	-	-	-	-	-	-	-	-	
07/14/97	284,210	194,814	143	<50	<0.3	<0.3	<0.3	<0.5	-	6,600	<0.3	0.59	<0.3	9	-	
08/18/97	298,610	209,214	411	-	-	-	-	-	-	-	-	-	-	-	-	
09/15/97	301,043	211,647	87	-	-	-	-	-	-	-	-	-	-	-	-	
10/07/97	333,480	244,084	1,474	<50	<0.3	<0.3	<0.3	<0.5	-	94,000	<0.3	<0.3	<0.3	<0.5	-	
11/17/97	334,286	244,890	20	-	-	-	-	-	-	-	-	-	-	-	-	
12/08/97	334,382	244,986	5	-	-	-	-	-	-	-	-	-	-	-	-	
12/12/97	334,382	244,986	-	Shut down system due to stolen equipment						-	-	-	-	-	-	-
04/08/98	334,382	244,986	-	<50	<0.3	<0.3	<0.3	<0.5	<20	3,100	12	1	<0.3	490	2,600	
05/11/98	334,382	244,986	-	-	-	-	-	-	-	-	-	-	-	-	-	
06/22/98	334,382	244,986	-	-	-	-	-	-	-	-	-	-	-	-	-	

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GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM
 Thrifty Oil Co. Station No 049, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum Discharge (gallons)	Flow (gal/day)	EFFLUENT (ug/L)						INFLUENT (ug/L)					
				TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE
07/20/98	334,382	244,986	-	<50	<0.3	<0.3	<0.3	<0.5	-	52,000	8	0.52	0.83	1.5	-
08/03/98	346,521	257,125	867	Shut down system for carbon canisters replacement						-	-	-	-	-	-
09/17/98	354,985	265,589	188	-	-	-	-	-	-	-	-	-	-	-	-
10/14/98	358,015	268,619	112	<50	<0.3	<0.3	<0.3	1.6	-	3,100	45	13	3.5	350	-
11/05/98	359,600	270,204	72	System shut down due to vandalism and stolen equipment						-	-	-	-	-	-
11/20/98	359,600	270,204	-	Restart						-	-	-	-	-	-
12/11/98	369,452	280,056	469	-	-	-	-	-	-	-	-	-	-	-	-
12/24/98	-	280,056	-	No reading, meter broken						-	-	-	-	-	-
01/15/99	0	280,056	-	Replaced Flowmeter started at 0						-	-	-	-	-	-
01/21/99	985.5	281,042	164	57	<0.3	<0.3	<0.3	0.76	-	380	6.2	1	<0.3	9.1	-
02/12/99	1,971.0	282,027	45	-	-	-	-	-	-	-	-	-	-	-	-
03/12/99	4,390.0	284,446	86	-	-	-	-	-	-	-	-	-	-	-	-
04/15/99	8,595.0	288,651	124	<50	<0.3	<0.3	<0.3	<0.5	<5	410	1.6	0.78	<0.3	5	*580 / 330
05/04/99	9,410.0	289,466	43	-	-	-	-	-	-	-	-	-	-	-	-
05/18/99	9,410.0	289,466	-	Shut down system for pump controller repair by manufacturer						-	-	-	-	-	-
09/20/99	9,411.0	289,467	0	Restart the system						-	-	-	-	-	-
09/24/99	9,412.4	289,468	0	-	-	-	-	-	-	-	-	-	-	-	-
10/13/99	9,509.8	289,566	5	<50	<0.3	<0.3	<0.3	<0.5	<5	6,000	<0.3	<0.3	<0.3	<0.5	13,000
11/12/99	9,701.9	289,758	6	-	-	-	-	-	-	-	-	-	-	-	-
12/17/99	9,893.7	289,950	5	-	-	-	-	-	-	-	-	-	-	-	-
01/20/00	10,052.1	290,108	5	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
02/17/00	10,156.6	290,213	4	-	-	-	-	-	-	-	-	-	-	-	-
03/13/00	10,354.7	290,411	8	-	-	-	-	-	-	-	-	-	-	-	-
04/05/00	10,545.7	290,602	8	72.7	1.8	4.1	0.7	6.7	-	119,000	2,360	6,440	6,240	25,200	*30,800 / 21,800
05/19/00	11,071.7	291,128	12	Shut down system for carbon drum replacement						-	-	-	-	-	-
06/05/00	11,075.4	291,131	0	Restart the system						-	-	-	-	-	-
06/14/00	11,131.6	291,188	6	<50	<0.3	<0.3	<0.3	<0.6	<5	<1,000	<6	<6	<6	14	24,500
07/06/00	11,362.0	291,418	10	Shut down system for carbon replacement						-	-	-	-	-	-
07/17/00	0.0	291,418	-	Restart the system after carbon change, repipe and flowmeter change (starting at 0.0)						-	-	-	-	-	-
07/24/00	411.0	291,829	59	<50	<0.3	<0.3	<0.3	<0.6	<5	205	<0.3	1	<0.3	<0.6	*99 / 104
08/21/00	8,193.0	299,611	278	-	-	-	-	-	-	-	-	-	-	-	-
09/18/00	27,251.0	318,669	681	-	-	-	-	-	-	-	-	-	-	-	-
10/18/00	54,280.0	345,698	901	<50	<0.18	<0.14	<0.18	<0.26	<0.24	357,000	2,380	2,960	1,290	6,850	9,630
10/30/00	64,610.0	356,028	861	-	-	-	-	-	-	-	-	-	-	-	-
11/27/00	79,870.0	371,288	545	-	-	-	-	-	-	-	-	-	-	-	-
12/22/00	99,240.0	390,658	775	-	-	-	-	-	-	-	-	-	-	-	-
01/17/01	101,250.0	392,668	77	<50	<0.18	<0.14	<0.18	<0.26	<0.24	24,700	783	373	2	3,480	15,000
02/23/01	144,120.0	435,538	1,159	-	-	-	-	-	-	-	-	-	-	-	-
03/30/01	195,400.0	486,818	1,465	-	-	-	-	-	-	-	-	-	-	-	-

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Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	EFFLUENT (µg/L)						INFLUENT (µg/L)					
				TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE
04/06/01	199,090.0	490,508	527	System shut down for carbon replacement. Replaced on 4/11/01, restart on 4/13/01											
04/20/01	207,050.0	498,468	569	88	<0.18	<0.14	<0.18	<0.26	93	36,500	855	716	659	1,570	11,400
04/27/01	210,640.0	502,058	513	System shut down for repair/replacement of compressor's pressure switch and exhaust valve											
04/30/01	210,640.0	502,058	-	320	<0.18	<0.14	<0.18	<0.26	*337 / 60	7,620	268	22	10	124	*13,600 / 9,130
05/11/01	210,640.0	502,058	-	Replaced pressure switch on 5/7/01, system still off for carbon replacement											
05/21/01	210,640.0	502,058	-	Restart the system											
05/30/01	226,830.0	518,248	1,799	<50	<0.18	<0.14	<0.18	<0.26	<0.24	96,600	4,980	1,660	2,770	11,300	*53,600 / 41,600
06/29/01	267,230.0	558,648	1,347	-	-	-	-	-	-	-	-	-	-	-	-

WD PERMIT LIMITS:	NE	5.0	5.0	5.0	5.0	NE
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Note:

< = less than laboratory detection level indicated
 - = no sample / not analyzed
 NE = Permit Limit not established

TPH is analyzed by EPA Method 8015 M
 BTEX is analyzed by EPA Method 602 or 8020
 *MTBE 8020/8260

In February 2000, the total cumulative discharge amount was corrected to reflect all system maintenance and flowmeter changeouts since the startup of the system. The total number may be different from previous versions of this table

APPENDIX A

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: # 049	Date: 04.19.01
Address:	
Personnel: SERBAN	Weather: SUNNY DAY
Well No: MW-1	Equip: BAILER

Before Purging:			
Total Well Depth: (ft.)	17.78	Well Diameter	2"
Depth to Water (ft)	3.98	Est. Purge Volume:	9

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	9:42	9:43	9:44	9:46	9:47	9:48	9:50
EC	1680	1670	1660	1660	1630	1630	1630
pH	6.02	6.08	6.07	6.07	6.08	6.07	6.08
Temp	70.4	70.3	70.2	70.1	70.1	69.9	69.9
Gal.	1	2	3	5	6	7	9
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	5.32
Total Well Depth(ft.)	17.78

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: # 049	Date: 04.19.01
Address:	
Personnel: SEARAW	Weather: SUNNY DAY
Well No: MW-4	Equip: BAUER

Before Purging:			
Total Well Depth: (ft.)	13.69	Well Diameter	4"
Depth to Water (ft)	4.89	Est. Purge Volume:	23

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	10:15	10:18	10:21	10:25	10:28	10:31	10:35
EC	1430	1460	1440	1420	1430	1430	1420
pH	6.05	6.06	6.05	6.01	6.04	6.04	6.06
Temp	70.3	70.1	69.9	69.7	69.7	69.6	69.6
Gal.	3	6	9	13	16	19	23
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	7.30
Total Well Depth(ft).	13.69

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u># 049</u>	Date: <u>04.19.01</u>
Address: _____	
Personnel: <u>SERBAH</u>	Weather: <u>JUNNY DAY</u>
Well No: <u>MW-5</u>	Equip: <u>BATLER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>13.78</u>	Well Diameter	<u>24</u>
Depth to Water (ft)	<u>4.58</u>	Est. Purge Volume:	<u>6</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>9:34</u>	<u>9:35</u>	<u>9:36</u>	<u>9:37</u>	<u>9:38</u>	<u>9:39</u>	<u>9:40</u>
EC	<u>1600</u>	<u>1630</u>	<u>1670</u>	<u>1660</u>	<u>1630</u>	<u>1620</u>	<u>1620</u>
pH	<u>6.01</u>	<u>6.08</u>	<u>6.09</u>	<u>6.01</u>	<u>6.00</u>	<u>6.01</u>	<u>6.01</u>
Temp	<u>70.4</u>	<u>70.2</u>	<u>70.1</u>	<u>69.9</u>	<u>69.8</u>	<u>69.7</u>	<u>69.7</u>
Gal.	<u>0.5</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	<u>6.20</u>
Total Well Depth(ft).	<u>13.78</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	#049	Date:	04.19.01
Address:			
Personnel:	SERBAN	Weather:	JUNKY DAY
Well No:	MW-6	Equip:	BAUER

Before Purging:			
Total Well Depth: (ft.)	13.06	Well Diameter	2"
Depth to Water (ft)	3.86	Est. Purge Volume:	6

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	9:04	9:05	9:06	9:07	9:08	9:09	9:10
EC	890	870	880	890	900	890	880
pH	6.10	6.03	5.97	5.87	5.87	5.64	5.64
Temp	70.3	70.2	70.2	69.4	69.8	69.7	69.5
Gal.	0.5	1	2	3	4	5	6
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	6.30
Total Well Depth(ft).	13.06

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: #049	Date: 04.19.01
Address:	
Personnel: SERBANI	Weather: SUNNY DAY
Well No: MW-7	Equip: BATTER

Before Purging:			
Total Well Depth: (ft.)	13.58	Well Diameter	4"
Depth to Water (ft)	7.84	Est. Purge Volume:	15

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	9:17	9:19	9:21	9:25	9:25	9:27	9:30
EC	1800	1870	1890	1890	1900	1910	1910
pH	6.08	6.04	6.04	6.02	6.06	6.05	6.03
Temp	70.4	70.3	70.3	70.1	70.2	70.1	69.9
Gal.	2	4	6	8	10	12	15
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	8.20
Total Well Depth(ft).	13.58

049



DATE: 04.13.01

START UP / SHUT DOWN REPORT
STATION # 049
SYSTEM TYPE : GW

START UP REPORT:

After replace 3 drums of spent carbon and check connections between them / restart system

SHUT DOWN REPORT:

SIGNATURE: *[Signature]*



049

DATE: 04.06.01

START UP / SHUT DOWN REPORT
STATION # 049
SYSTEM TYPE : G.W. CARBON

START UP REPORT:

SHUT DOWN REPORT:

System shut down for carbon change —
FLOW METER
0199090

SIGNATURE: *[Signature]*

049

THRIFTY OIL CO. SERVICE STATION #

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: JERRY P

DATE OF INSPECTION: 03.30.01

OBSERVATIONS AND COMMENTS: check out, clean water filter bag,
uploc cartridge water filter,

FLOW METER READING: 0195400

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 14

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.3

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 1.1

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.9

INSPECTOR'S SIGNATURE: Jerry P

APPENDIX B



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Thrifty Oil (8871)
ATTN: Jeff Suryakusuma
13539 E. Foster Rd.
Santa Fe Springs, CA 90670

LAB REQUEST 71429

REPORTED 05/09/2001

RECEIVED 04/20/2001

PROJECT Station #049
3400 San Pablo Ave., Oakland

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
259855	TOC #049, MW-3
259856	TOC #049, MW-6
259857	TOC #049, MW-7
259858	TOC #049, MW-5
259859	TOC #049, MW-1
259861	TOC #049, MW-4
259862	TOC #049, TRIP BLANK
259863	TOC #049, MW-4
259864	TOC #049, MW-6
260616	TOC #049, MW-2

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 259855

Client Sample ID TOC #049, MW-3

Matrix: WATER

Date Sampled: 04/19/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	04/23/01 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	04/23/01 HP
Methyl t - butyl ether	ND	1	5	0.24	ug/L	04/23/01 HP
Toluene	ND	1	0.3	0.14	ug/L	04/23/01 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	04/23/01 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	04/23/01 HP
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Order #: 259856

Client Sample ID TOC #049, MW-6

Matrix: WATER

Date Sampled: 04/19/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	04/23/01 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	04/23/01 HP
Methyl t - butyl ether	ND	1	5	0.24	ug/L	04/23/01 HP
Toluene	ND	1	0.3	0.14	ug/L	04/23/01 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	04/23/01 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	04/23/01 HP
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Order #: 259857

Client Sample ID TOC #049, MW-7

Matrix: WATER

Date Sampled: 04/19/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	04/23/01 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	04/23/01 HP
Methyl t - butyl ether	66	2	10.0	0.24	ug/L	04/23/01 HP
Toluene	ND	1	0.3	0.14	ug/L	04/23/01 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	04/23/01 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	04/23/01 HP
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PQL = Practical Quantitation Limit. MDL = Method detection limit. DF = Dilution Factor

ND = Not detected below indicated MDL. J=Trace



Order #: 259858

Client Sample ID TOC #049, MW-5

Matrix: WATER

Date Sampled: 04/19/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	04/23/01 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	04/23/01 HP
Methyl t - butyl ether	ND	1	5	0.24	ug/L	04/23/01 HP
Toluene	ND	1	0.3	0.14	ug/L	04/23/01 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	04/23/01 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	04/23/01 HP
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Order #: 259859

Client Sample ID TOC #049, MW-1

Matrix: WATER

Date Sampled: 04/19/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	04/23/01 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	04/23/01 HP
Methyl t - butyl ether	ND	1	5	0.24	ug/L	04/23/01 HP
Toluene	ND	1	0.3	0.14	ug/L	04/23/01 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	04/23/01 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	04/23/01 HP
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Order #: 259861

Client Sample ID TOC #049, MW-4

Matrix: WATER

Date Sampled: 04/19/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	4,880	200	60.0	0.18	ug/L	04/23/01 HP
Ethyl benzene	3,260	200	60.0	0.18	ug/L	04/23/01 HP
Methyl t - butyl ether	66,900	2500	12500.0	0.24	ug/L	04/23/01 HP
Toluene	3,980	200	60.0	0.14	ug/L	04/23/01 HP
Xylene (total)	11,800	200	120.0	0.26	ug/L	04/23/01 HP

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL. J=Trace



8015M - Total Petroleum Hydrocarbons

Gasoline	103.000	200	10000.0	50	ug/L	04/23/01	HP
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Order #: 259862

Client Sample ID TOC #049, TRIP BLANK

Matrix: WATER

Date Sampled: 04/19/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX

Benzene	ND	1	0.3	0.18	ug/L	04/23/01	HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	04/23/01	HP
Toluene	ND	1	0.3	0.14	ug/L	04/23/01	HP
Xylene (total)	ND	1	0.6	0.26	ug/L	04/23/01	HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	04/23/01	HP
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Order #: 259863

Client Sample ID TOC #049, MW-4

Matrix: WATER

Date Sampled: 04/19/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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Metals for General Mineral 200.7

Calcium	56.1	1	0.05		mg/L	05/01/01	KN
Copper	0.184	1	0.004		mg/L	05/01/01	KN
Iron	4.17	1	0.010		mg/L	05/01/01	KN
Magnesium	39.1	1	0.05		mg/L	05/01/01	KN
Manganese	7.39	1	0.002		mg/L	05/01/01	KN
Potassium	0.61	1	0.50		mg/L	05/01/01	KN
Sodium	38.1	1	0.05		mg/L	05/01/01	KN
Zinc	0.016	1	0.002		mg/L	05/01/01	KN

2320B Total Alkalinity

Bicarbonate	429	1	5.0	1.0	mg/L	05/08/01	DK
Carbonate	ND	1	5.0	0.7	mg/L	05/08/01	DK
Hydroxide	ND	1	5.0	0.3	mg/L	05/08/01	DK
Total Alkalinity as CaCO3	352	1	5.0	1.8	mg/L	05/08/01	DK

2340B Total Hardness

Total Hardness	301	1	0.5	0.2	mg/L	05/09/01	BGS
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2510B Specific Conductance

Specific Conductance	634	1	1.0	0.86	umhos/cm	05/01/01	LN
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PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
 ND = Not detected below indicated MDL, J=Trace



2540C Total Dissolved Solids

Total Dissolved Solids	404	1	10.0	5.7	mg/L	04/25/01	HK
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300.0 Chloride by Ion Chromatography

Chloride	9.8	1	1.0	0.2	mg/L	04/21/01	CM
Nitrate (as NO3)	ND	1	0.5	0.1	mg/L	04/21/01	CM
Sulfate	ND	1	1.0	0.2	mg/L	04/21/01	CM

425.1 MBAS (Methylene Blue Active Substances)

MBAS	0.13	1	0.04	0.04	mg/L	04/20/01	HK
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4500-F Fluoride by ISE

Fluoride	0.38	1	0.05	0.005	mg/L	05/01/01	CM
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4500-H pH

pH	6.88	1				05/01/01	LN
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Ion Balance

Anions	7.31	1			mEq/L	05/09/01	BGS
Cations	7.69	1			mEq/L	05/09/01	BGS

Order #: 259864	Client Sample ID TOC #049, MW-6
Matrix: WATER	Date Sampled: 04/19/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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Metals for General Mineral 200.7

Calcium	39.8	1	0.05		mg/L	05/01/01	KN
Copper	0.048	1	0.004		mg/L	05/01/01	KN
Iron	1.55	1	0.010		mg/L	05/01/01	KN
Magnesium	26.6	1	0.05		mg/L	05/01/01	KN
Manganese	0.111	1	0.002		mg/L	05/01/01	KN
Potassium	3.22	1	0.50		mg/L	05/01/01	KN
Sodium	58.7	1	0.05		mg/L	05/01/01	KN
Zinc	0.032	1	0.002		mg/L	05/01/01	KN

2320B Total Alkalinity

Bicarbonate	183	1	5.0	1.0	mg/L	05/08/01	DK
Carbonate	ND	1	5.0	0.7	mg/L	05/08/01	DK
Hydroxide	ND	1	5.0	0.3	mg/L	05/08/01	DK
Total Alkalinity as CaCO3	150	1	5.0	1.8	mg/L	05/08/01	DK

2340B Total Hardness

Total Hardness	209	1	0.5	0.2	mg/L	05/09/01	BGS
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PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
 ND = Not detected below indicated MDL, J=Trace



2510B Specific Conductance

Specific Conductance	650	1	1.0	0.86 umhos/cm	05/01/01	LN
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2540C Total Dissolved Solids

Total Dissolved Solids	432	1	10.0	5.7 mg/L	04/25/01	HK
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300.0 Chloride by Ion Chromatography

Chloride	37	1	1.0	0.2 mg/L	04/21/01	CM
Nitrate (as NO3)	16.4	1	0.5	0.1 mg/L	04/21/01	CM
Sulfate	105	5	5.0	0.2 mg/L	04/21/01	CM

425.1 MBAS (Methylene Blue Active Substances)

MBAS	ND	1	0.04	0.04 mg/L	04/20/01	HK
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4500-F Fluoride by ISE

Fluoride	0.21	1	0.05	0.005 mg/L	05/01/01	CM
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4500-H pH

pH	7.68	1			05/01/01	LN
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Ion Balance

Anions	6.49	1		mEq/L	05/09/01	BGS
Cations	6.81	1		mEq/L	05/09/01	BGS

Order #: 260616

Client Sample ID TOC #049, MW-2

Matrix: WATER

Date Sampled: 04/19/2001 Time Sampled: 13:35

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L	04/28/01	HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	04/28/01	HP
Methyl t - butyl ether	8,890	200	1000.0	0.24 ug/L	04/28/01	HP
Toluene	ND	1	0.3	0.14 ug/L	04/28/01	HP
Xylene (total)	ND	1	0.6	0.26 ug/L	04/28/01	HP

8015M - Total Petroleum Hydrocarbons

Gasoline	4,380	1	50	50 ug/L	04/28/01	HP
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PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
 ND = Not detected below indicated MDL, J=Trace



ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 71674 - 704

Matrix: WATER

Prep. Date: 04/27/01

Analysis Date: 04/27/01-04/28/01

ID#'s in Batch: LR 71674, 71603, 71429, 71672, 71720

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = ug/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
TPH	8015M-G	ND	200	235	229	117.5	114.5	2.6

ND = Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

<i>%REC LIMITS = 70 - 130</i>

<i>RPD LIMITS = 30</i>

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

PREP BL	LCS				
Value	Result	True	%Rec	L.Limit	H.Limit
ND	179	200	89.5	80%	120%

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 71579 - 314

Matrix: WATER

Prep. Date: 04/27/01

Analysis Date: 04/27/01-04/28/01

LAB ID#'s in Batch: LR 71602, 71574, 71579, 71638, 71429

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = ug/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD
Benzene	8021	ND	10.0	11.3	11.3	113	113	0
Toluene	8021	ND	10.0	9.8	9.9	98	99	1
Ethylbenzene	8021	ND	10.0	10.6	10.8	106	108	2
Xylenes	8021	ND	20.0	18.7	19.2	94	96	3

ND = Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130

RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP. BL	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
Benzene	8021	ND	10.9	10.0	109	80%	120%
Toluene	8021	ND	9.5	10.0	95	80%	120%
Ethylbenzene	8021	ND	10.3	10.0	103	80%	120%
Xylenes	8021	ND	18.4	20.0	92	80%	120%

LCS = Lab Control Sample Result

TRUE = True Value of LCS

L.LIMIT / H.LIMIT = LCS Control Limits

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 71429/259864

Matrix: WATER

Prep. Date: 04/20/01

Analysis Date: 04/20/01

ID#'s in Batch: LR 71429, 71458

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
MBAS	425.1	ND	1.0	1.02	1.01	102.0	101.0	1.0

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 75 - 125
RPD LIMITS = 20

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

PREP BLK		LCS			
Value	Result	True	%Rec	L.Limit	H.Limit
ND	1.00	1.0	100.0	80%	120%

Value = Preparation Blank Value

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample : LR 71429-259863

Matrix: WATER

Prep.Date: 04/20/2001

Analysis Date: 04/21/2001

Lab ID#'s in Batch: LR 71413, 71414, 71415, 71416, 71429, 71295, 71429, 71459, 71460

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
CL	300.0	9.8	200	198	199	94	95	0.5
SO4	300.0	ND	200	194	192	97	96	1.0
NO3	300.0	ND	100	94.2	95.0	94	95	0.8
NO2	300.0	ND	100	95.2	95.4	95	95	0.2

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup
%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%Recovery Limits: 80 - 120 % %RPD Limit: 20 %
--

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP BLK LCS					
		Value	Result	True	%Rec	L.Limit	H.Limit
CL	300.0	ND	48.9	50	98	90%	110%
SO4	300.0	ND	49.1	50	98	90%	110%
NO3	300.0	ND	23.9	25	96	90%	110%
NO2	300.0	ND	9.4	10	94	90%	110%

VALUE = Preparation Blank Value; ND = Not-Detected
LCS = Lab Control Sample Result
TRUE = True Value of LCS
L.LIMIT / H.LIMIT = LCS Control Limits

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 71507-260077

Matrix: WATER

Prep. Date: 04/25/01

Analysis Date: 04/25/01

ID#'s in Batch: LR 71507, 71332, 71477, 71456, 71471, 71497, 71506, 71429

SAMPLE RESULT / SAMPLE DUPLICATE

Reporting Units = mg/L

Test	Method	Sample Result	Sample Duplicate	RPD
TDS	160-1 / 2540C	1006	1015	0.9

RPD LIMITS = 20

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

PREP BLANK	LCS				
Value	Result	TRUE	% Rec	L. Limit	H. Limit
ND	284	293	96.9	80%	120%

Value = Preparation Blank Value; ND = Not-Detected

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits

ASSOCIATED LABORATORIES
LCS/MB REPORT FORM

QC Code #: H042601W12

Prep. Method : 3010

Prep. Date : 04/26/01

Matrix : WATER

Wt./Vol : 25ml/25ml

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Lab ID#'s in Batch: LR 71581, 71429, 71634, 71460, 71459, 71475, 71474, 71643, 71573, 71575, 71594, 71584, LR 71556, 71536, 71639, 71535

Reporting Units : mg/L

Lab Control Sample (LCS)							Method Blank	
Element	Method	Result	True	%Rec	L.Limit	H.Limit	MB	ND
Arsenic	200.7	1.952	2.0	97.6	80%	120%	0.005	U
Selenium	200.7	1.799	2.0	90.0	80%	120%	0.004	U
Thallium	200.7	2.177	2.0	108.9	80%	120%	0.003	U
Lead	200.7	1.977	2.0	98.9	80%	120%	0.002	U
Aluminum	200.7	2.042	2.0	102.1	80%	120%	0.030	U
Antimony	200.7	2.143	2.0	107.2	80%	120%	0.030	U
Barium	200.7	1.942	2.0	97.1	80%	120%	0.002	U
Beryllium	200.7	2.054	2.0	102.7	80%	120%	0.001	U
Boron	200.7	2.105	2.0	105.3	80%	120%	0.010	U
Cadmium	200.7	2.053	2.0	102.7	80%	120%	0.003	U
Chromium	200.7	2.091	2.0	104.6	80%	120%	0.003	U
Cobalt	200.7	2.082	2.0	104.1	80%	120%	0.005	U
Copper	200.7	2.024	2.0	101.2	80%	120%	0.004	U
Iron	200.7	2.143	2.0	107.2	80%	120%	0.010	U
Magnesium	200.7	2.045	2.0	102.3	80%	120%	0.050	U
Manganese	200.7	2.049	2.0	102.5	80%	120%	0.002	U
Molybdenum	200.7	2.084	2.0	104.2	80%	120%	0.010	U
Nickel	200.7	2.052	2.0	102.6	80%	120%	0.007	U
Vanadium	200.7	2.057	2.0	102.9	80%	120%	0.005	U
Zinc	200.7	2.035	2.0	101.8	80%	120%	0.002	U
Silver	200.7	0.942	1.0	94.2	80%	120%	0.005	U

Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True
 L.LIMIT / H.LIMIT = Low / High Control Limits
 MB = Preparation Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: LR 71459 - 259946

Matrix: WATER

Prep. Date: 04/26/01

Analysis Date: 05/04/01

Lab ID#'s in Batch: LR 71581, 71429, 71634, 71460, 71459, 71475, 71474, 71643, 71573, 71575, 71594, 71584, LR 71556, 71536, 71639, 71535

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Arsenic	200.7	0.005		0.1	0.095	0.093	90.0	88.0	2.1
Selenium	* 200.7	0.026		0.1	0.103	0.099	77.0	73.0	4.0
Thallium	200.7	0.003	U	0.1	0.076	0.075	76.0	75.0	1.3
Lead	200.7	0.004		0.2	0.181	0.180	88.5	88.0	0.6
Antimony	200.7	0.030	U	1.0	0.950	0.950	95.0	95.0	0.0
Barium	200.7	0.044		1.0	0.960	0.940	91.6	89.6	2.1
Beryllium	200.7	0.001	U	1.0	0.900	0.870	90.0	87.0	3.4
Cadmium	200.7	0.003	U	1.0	0.880	0.880	88.0	88.0	0.0
Chromium	200.7	0.010		1.0	0.910	0.880	90.0	87.0	3.4
Cobalt	200.7	0.005	U	1.0	0.890	0.870	89.0	87.0	2.3
Copper	200.7	0.011		1.0	0.930	0.950	91.9	93.9	2.1
Molybdenum	200.7	0.043		1.0	0.950	0.940	90.7	89.7	1.1
Nickel	200.7	0.007	U	1.0	0.890	0.860	89.0	86.0	3.4
Silver	200.7	0.005	U	0.4	0.320	0.320	80.0	80.0	0.0
Vanadium	200.7	0.014		1.0	0.930	0.910	91.6	89.6	2.2
Zinc	200.7	0.007		1.0	0.890	0.900	88.3	89.3	1.1
Aluminum	200.7	0.030	U	1.0	0.930	0.910	93.0	91.0	2.2
Iron	200.7	0.010	U	1.0	0.930	0.910	93.0	91.0	2.2
Boron	* 200.7	0.054		1.0	1.410	1.390	135.6	133.6	1.4
Manganese	200.7	0.035		1.0	0.940	0.920	90.5	88.5	2.2

* = MS/MSD outside Limits. LCS/MB Accepted.

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 - 125
RPD LIMITS = 20

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 71439-885

Matrix: WATER

Prep. Date: 04/23/01

Analysis Date: 04/23/01-04/24/01

ID#'s in Batch: LR 71439, 71364, 71429, 71451, 71524, 71525

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = ug/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
TPH	8015M-G	ND	200	207	186	103.5	93.0	10.7

ND = Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

<i>%REC LIMITS = 70 - 130</i>

<i>RPD LIMITS = 30</i>

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

PREP BL	LCS				
Value	Result	True	%Rec	L.Limit	H.Limit
ND	202	200	101.0	80%	120%

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 71439-885

Matrix: WATER

Prep. Date: 04/24/01

Analysis Date: 04/24/01-04/25/01

LAB ID#'s in Batch: LR 71364, 71429

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = ug/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD
Benzene	8021	ND	10.0	10.5	10.9	105	109	4
Toluene	8021	ND	10.0	9.3	9.6	93	96	3
Ethylbenzene	8021	ND	10.0	9.9	10.1	99	101	2
Xylenes	8021	ND	20.0	18.3	18.8	92	94	3

ND = Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130

RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP. BL	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
Benzene	8021	ND	10.8	10.0	108	80%	120%
Toluene	8021	ND	9.6	10.0	96	80%	120%
Ethylbenzene	8021	ND	10.0	10.0	100	80%	120%
Xylenes	8021	ND	18.8	20.0	94	80%	120%

LCS = Lab Control Sample Result

TRUE = True Value of LCS

L.LIMIT / H.LIMIT = LCS Control Limits

71429 ✓

ASSOCIATED LABORATORIES

806 North Batavia • Orange, CA 92868

Phone: (714) 771-6900 • Fax: (714) 538-1209



Chain of Custody Record

Company THRIFTY OIL CO.		Phone (562) 921-3581		A.L. Job No.		Page _____ of _____																																	
Project Manager JEFF JURYAKUSUMA		Fax		Analysis Requested				Test Instructions & Comments																															
Project Name Q.W.S.		Project # 049 ✓		<table border="1"> <tr> <td>T</td><td>B</td><td>M</td><td>PERM</td><td>NUM</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>P</td><td>T</td><td>T</td><td>PERM</td><td>NUM</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>H</td><td>X</td><td>E</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>				T	B	M	PERM	NUM						P	T	T	PERM	NUM						H	X	E									
T	B	M	PERM					NUM																															
P	T	T	PERM	NUM																																			
H	X	E																																					
Site Name and Address 3400 SAN PABLO AVE. OAKLAND, CA. 94612																																							
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.																																	
1 MW-3		04.19.01		WATER	3 VIALS	HCL	X	X	X				contacted client																										
2 MW-6		↑		↑	↑	↑	X	X	X				lost missing																										
3 MW-7		↑		↑	↑	↑	X	X	X				containers Sev MW 2																										
4 MW-5		↑		↑	↑	↑	X	X	X				4-20-01																										
5 MW-1		↑		↑	↑	↑	X	X	X				Die																										
6 MW-2		↑		↑	↑	↑	X	X	X																														
7 MW-4		↑		↑	↓	↓	X	X	X																														
8 TRIP BUNK		↓		↓	2 VIALS	↓	X	X																															
9 MW-4		↓		↓	1L AMBER							X																											
10 MW-6		↓		↓	1L AMBER							X																											
11																																							
12																																							
13																																							
14																																							
15																																							

Sample Receipt - To Be Filled By Laboratory				Relinquished by 1.		Relinquished by 2.		Relinquished by 3.	
Total Number of Containers	22	Properly Cooled Y/N/NA	YES	Signature:	<i>[Signature]</i>	Signature:	fed-ex	Signature:	
Custody Seals Y/N/NA	NC	Samples Intact Y/N/NA	YES	Printed Name:	SERBATA P-	Printed Name:		Printed Name:	
Received in Good Condition Y/N	YES	Samples Accepted Y/N	YES	Date:	04.19.01	Date:		Date:	
Turn Around Time				Received By: 1.		Received By: 2.		Received By: 3.	
<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Same Day <input type="checkbox"/> 48 hrs. <input type="checkbox"/> 24 hrs. <input type="checkbox"/> 72 hrs.				Signature:	UPS	Signature:	<i>[Signature]</i>	Signature:	
				Printed Name:	fed-ex	Printed Name:	Ken Hulsey	Printed Name:	
				Date:		Date:	4-20-01	Date:	
				Time:		Time:	H30	Time:	

T. ✓ 22 11/10

APPENDIX C

049

THRIFTY OIL CO. SERVICE STATION # 49

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 06-29-01

OBSERVATIONS AND COMMENTS: check oil, belt, replace cartridge water filter, clean water bag filter. System was shut down ?? electric problem

FLOW METER READING: 0267230

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.0

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 0.9

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.7

INSPECTOR'S SIGNATURE: [Signature]

049

THRIFTY OIL CO. SERVICE STATION # 49

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBINA POPESCU,

DATE OF INSPECTION: 06.22.01

OBSERVATIONS AND COMMENTS: check oil, belt, clean water filter bag,

FLOW METER READING: 0264160

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: M

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.0

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 0.9

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.6

INSPECTOR'S SIGNATURE: [Signature]

THRIFTY OIL CO. SERVICE STATION #

044

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBONE D.

DATE OF INSPECTION: 06.15.01

OBSERVATIONS AND
COMMENTS: check oil, belt, replace cartridge
water filter,

FLOW METER READING: 0256700

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 14

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.1

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 1.0

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.8

INSPECTOR'S SIGNATURE: [Signature]

049

THRIFTY OIL CO. SERVICE STATION #49

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBATA P.

DATE OF INSPECTION: 06.08.01

OBSERVATIONS AND COMMENTS: check oil, belt, clean water filter bag

FLOW METER READING: 0248290

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.0

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 0.9

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.7

INSPECTOR'S SIGNATURE: [Signature]

THRIFTY OIL CO. SERVICE STATION

49

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBINA P.

DATE OF INSPECTION: 5.30.01

OBSERVATIONS AND COMMENTS: Check oil, belt, clean water filter bag, replace cartridge water filter,

FLOW METER READING: 0226830

SAMPLES OBTAINED: yes

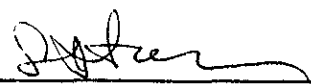
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 14

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.3

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 1.2

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.9

INSPECTOR'S SIGNATURE: 

049



DATE: 05.11.01

START UP / SHUT DOWN REPORT
STATION # 049
SYSTEM TYPE :

START UP REPORT:

SHUT DOWN REPORT:

System still shut down for change the carbon.

0210640

SIGNATURE: *[Signature]*



049

DATE: 05.04.01

START UP / SHUT DOWN REPORT
STATION # 049
SYSTEM TYPE : G.W.

START UP REPORT:

SHUT DOWN REPORT:

SHUT DOWN SYSTEM FOR CHANGE CARBON

0210640

SIGNATURE: [Signature]



049

DATE: 04.27.01

START UP / SHUT DOWN REPORT
STATION # 049
SYSTEM TYPE : G.W.

START UP REPORT:

SHUT DOWN REPORT:

System shut down because pressure switch failure
and exhaust valve from U.L. ENCLOSURE TYPE 13 -
need replace or fixed -

FLOW METER WAS 0210640 04.27.01 -

SIGNATURE: DePina

049

THRIFTY OIL CO. SERVICE STATION # 049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBA R

DATE OF INSPECTION: 04.20.01

OBSERVATIONS AND COMMENTS: check oil, hoses and pipe connections
clean water bag filter,

FLOW METER READING: 0207050

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 14

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.3

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 1.1

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.9

INSPECTOR'S SIGNATURE: [Signature]

049



DATE: 04.13.01

START UP / SHUT DOWN REPORT
STATION # 049
SYSTEM TYPE : GW

START UP REPORT:

After replace 3 drums of spent carbon and check connections between them / restart system

SHUT DOWN REPORT:

SIGNATURE: *[Signature]*



049

MAINTENANCE & REPAIR REPORT

A) SS #: 049 SYSTEM TYPE:
B) DEFICIENCY DESCRIPTION :
CHANGE SPENT CARBON
C) NAME OF REPORTING PARTY AND DATE:
D) DATE SCHEDULED : 04-12-01

1) NAME:	DATE/TIME
2) FINDINGS:	
3) HAS THE JOB BEEN COMPLETED? YES/NO IF "NO", PLEASE DESCRIBE WHY AND WHAT YOU NEED TO FINISH:	
4) POST REPAIR TEST RESULTS:	
5) THE CAUSE OF THE DEFICIENCY:	
BRIEF INSTRUCTIONS FOR PREVENTIVE MAINTENANCE TO THE TECHNICIAN:	
6) OTHER: DISCHARGE WATER AND REFILL FOR 24 H. AGAIN FROM 3 DRUMS WITH CARBON -	



049

MAINTENANCE & REPAIR REPORT

A) SS #: 044 SYSTEM TYPE: GW.
B) DEFICIENCY DESCRIPTION :
CARBON CHANGE
C) NAME OF REPORTING PARTY AND DATE:
D) DATE SCHEDULED : 04.11.01

1) NAME:	DATE/TIME
2) FINDINGS:	
3) HAS THE JOB BEEN COMPLETED? YES/NO IF "NO", PLEASE DESCRIBE WHY AND WHAT YOU NEED TO FINISH:	
4) POST REPAIR TEST RESULTS:	
5) THE CAUSE OF THE DEFICIENCY:	
BRIEF INSTRUCTIONS FOR PREVENTIVE MAINTENANCE TO THE TECHNICIAN:	
6) OTHER: Fill with clean water all 3 drums for 24H-	



049

DATE: 04.06.01

START UP / SHUT DOWN REPORT
STATION # 049
SYSTEM TYPE : G.W. CARBON

START UP REPORT:

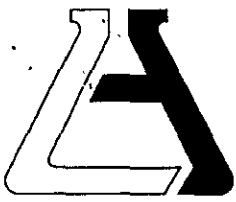
SHUT DOWN REPORT:

System shut down for carbon change —
FLOW METER
0199090

SIGNATURE: _____

[Handwritten Signature]

APPENDIX D



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Thrifty Oil (8871)
ATTN: Jeff Suryakusuma
13539 E. Foster Rd.
Santa Fe Springs, CA 90670

LAB REQUEST 73752

REPORTED 06/07/2001

RECEIVED 05/31/2001

PROJECT TOC #049
3400 San Pablo Ave., Oakland

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
269352	TOC #049, SS1 Outlet Grab
269353	TOC #049, Int2 Grab
269354	TOC #049, Int1 Grab
269355	TOC #049, Inlet Grab

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 269352

Matrix: WATER

Client Sample ID TOC #049, SS1 Outlet Gr

Date Sampled: 05/30/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	06/03/01 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	06/03/01 HP
Methyl t - butyl ether	ND	1	5	0.24	ug/L	06/03/01 HP
Toluene	ND	1	0.3	0.14	ug/L	06/03/01 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	06/03/01 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	06/03/01 HP
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Order #: 269353

Matrix: WATER

Client Sample ID TOC #049, Int2 Grab

Date Sampled: 05/30/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	06/03/01 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	06/03/01 HP
Methyl t - butyl ether	ND	1	5	0.24	ug/L	06/03/01 HP
Toluene	ND	1	0.3	0.14	ug/L	06/03/01 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	06/03/01 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	06/03/01 HP
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Order #: 269354

Matrix: WATER

Client Sample ID TOC #049, Int1 Grab

Date Sampled: 05/30/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	06/03/01 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	06/03/01 HP
Methyl t - butyl ether	ND	1	5	0.24	ug/L	06/03/01 HP
Toluene	ND	1	0.3	0.14	ug/L	06/03/01 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	06/03/01 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	06/03/01 HP
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PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace



Order #: 269355**Client Sample ID** TOC #049, Inlet Grab**Matrix:** WATER**Date Sampled:** 05/30/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	4,980	1000	300.0	0.18	ug/L	06/03/01 HP
Ethyl benzene	2,770	1000	300.0	0.18	ug/L	06/03/01 HP
Methyl t - butyl ether	53,600	1428	7140.0	0.24	ug/L	06/03/01 HP
Toluene	1,660	50	15.0	0.14	ug/L	06/03/01 HP
Xylene (total)	11,300	1000	600.0	0.26	ug/L	06/03/01 HP

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	41,600	500	500.0	0.6	ug/L	06/06/01 MB
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8015M - Total Petroleum Hydrocarbons

Gasoline	96,600	50	2500.0	50	ug/L	06/03/01 HP
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PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace



ASSOCIATED LABORATORIES LAB REQUEST RESULTS SUMMARY

Client: Thrifty Oil
 Jeff Suryakusuma
 13539 E. Foster Rd.
 Santa Fe Springs, CA 90670

Lab Request: 73752
 Date Received: 5/31/2001
 Print Date: 06/12/2001

Project: TOC #049
 3400 San Pablo Ave., Oakland

Objectives: Confirm MTBE by 8260.

Sample ID.	Gasoline	Benzene	Toluene	Ethyl benzene	Xylene (total)	MTBE	MTBE by EPA8260
TOC #049, Inlet Grab.	96,600 ug/L	4,980 ug/L	1,660 ug/L	2,770 ug/L	11,300 ug/L	53,600 ug/L	41,600 ug/L
TOC #049, Int1 Grab	ND	ND	ND	ND	ND	ND	
TOC #049, Int2 Grab	ND	ND	ND	ND	ND	ND	
TOC #049, SS1 Outlet Grab	ND	ND	ND	ND	ND	ND	

ND = Not Detected
 Blank Field = Component not analyzed by this method.

ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: LCS/LCSD , water samples #3

Method : 8260

Analysis Date: 06/06/01

Applies to: LR 73156, 73851, 73595, 73800, 73908, 73589, 73755, 73666, 73752

REPORTING UNITS = ug/L

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50.0	50.62	47.56	101	95	6	22	59-172
MTBE	ND	50.0	35.05	40.08	70	80	13	24	62-137
Benzene	ND	50.0	51.45	47.37	103	95	8	24	62-137
Trichloroethene	ND	50.0	52.64	48.07	105	96	9	21	66-142
Toluene	ND	50.0	49.81	46.36	100	93	7	21	59-139
Chlorobenzene	ND	50.0	54.57	49.59	109	99	10	21	60-133

ND = Not Detected

RPD = Relative Percent Difference of LCS and LCS Dup.

%REC-MS & MSD = Percent Recovery of LCS & LCS Dup.

Method Blank = All ND

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: 73800-567, water samples

Method : 8260

Analysis Date: 06/05/01

Applies to: LR 73851, 73595, 73800, 73819, 73908, 73589, 73752

REPORTING UNITS = ug/L

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50.0	53.54	46.88	107	94	13	22	59-172
MTBE	ND	50.0	38.95	34.98	78	70	11	24	62-137
Benzene	ND	50.0	35.27	36.48	71	73	3	24	62-137
Trichloroethene	ND	50.0	38.28	42.00	77	84	9	21	66-142
Toluene	ND	50.0	41.97	42.41	84	85	1	21	59-139
Chlorobenzene	ND	50.0	41.43	45.99	83	92	10	21	60-133

ND = Not Detected

RPD = Relative Percent Difference of MS and MSD

%REC-MS & MSD = Percent Recovery of MS & MSD

Method Blank = All ND

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 73668-031

Matrix: WATER

Prep. Date: 06/02/01

Analysis Date: 06/02/01-06/03/01

ID#'s in Batch: LR 73671, 73668, 73757, 73752

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = ug/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
TPH	8015M-G	ND	200	200	204	100.0	102.0	2.0

ND = Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130

RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

PREP BL	LCS				
Value	Result	True	%Rec	L.Limit	H.Limit
ND	176	200	88.0	80%	120%

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR73668-031

Matrix: WATER

Prep. Date: 06/02/01

Analysis Date: 06/02/01-06/03/01

LAB ID#'s in Batch: LR 73671, 73757, 73752, 73750

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = ug/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD
Benzene	8021	ND	10.0	11.10	11.50	111	115	4
Toluene	8021	ND	10.0	9.90	10.20	99	102	3
Ethylbenzene	8021	ND	10.0	10.90	11.20	109	112	3
Xylenes	8021	ND	20.0	20.90	20.80	105	104	0

ND = Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130

RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP. BL	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
Benzene	8021	ND	11.10	10.0	111	80%	120%
Toluene	8021	ND	9.90	10.0	99	80%	120%
Ethylbenzene	8021	ND	10.60	10.0	106	80%	120%
Xylenes	8021	ND	19.60	20.0	98	80%	120%

LCS = Lab Control Sample Result

TRUE = True Value of LCS

L.LIMIT / H.LIMIT = LCS Control Limits

Chain of Custody Record

73752

ASSOCIATED LABORATORIES

806 North Batavia • Orange, CA 92868

Phone: (714) 771-6900 • Fax: (714) 538-1209



Company THRIFTY OIL CO.		Phone (562) 921-3581		A.L. Job No.		Page _____ of _____														
Project Manager JEFF SURYARDUSUMA		Fax		Analysis Requested				Test Instructions & Comments												
Project Name		Project # # 044		<table border="1"> <tr> <td>T</td><td>B</td><td>*</td></tr> <tr> <td>P</td><td>T</td><td>T</td></tr> <tr> <td>H</td><td>X</td><td>E</td></tr> </table>				T	B	*	P	T	T	H	X	E				
T	B	*																		
P	T	T																		
H	X	E																		
Site Name and Address 3400 SAN PABLO AVE. OAKLAND, CA. 94612																				
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.														
1 SS#1 OUTLET GRAB		05.30.01		WATER	3012LS	HCL	X	X	X											
2 INT2 GRAB		05.30.01		↓	3012LS	HCL	X	X	X											
3 INT1 GRAB		05.30.01		↓	3012LS	HCL	X	X	X											
4 INT1 GRAB		05.30.01		↓	3012LS	HCL	X	X	X											
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

* CONFIRMED BY EPA METHOD 8260B IF DETECTED

Sample Receipt - To Be Filled By Laboratory				Relinquished by 1.	Relinquished by 2.	Relinquished by 3.
Total Number of Containers	12	Properly Cooled Y / N / NA	Y	Signature: [Signature]	Signature: [Signature]	Signature:
Custody Seals Y / N / NA	[Signature]	Samples Intact Y / N / NA	Y	Printed Name: SARAH PROTOPOPSCU	Printed Name: M Montiel	Printed Name:
Received in Good Condition Y / N	Y	Samples Accepted Y / N	Y	Date: 05.31.01 Time: 4:30p	Date: 5-31-01 Time: 1710	Date: Time:
Turn Around Time				Received By: 1.	Received By: 2.	Received By: 3.
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Same Day	<input type="checkbox"/> 48 hrs.	Signature: [Signature]	Signature: [Signature]	Signature:
		<input type="checkbox"/> 24 hrs.	<input type="checkbox"/> 72 hrs.	Printed Name: M Montiel	Printed Name: [Signature]	Printed Name:
				Date: 5-31-01 Time: 1630	Date: 5/31/01 Time: 1712	Date: 5-1 Time: 9:00



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Thrifty Oil (8871)
ATTN: Jeff Suryakusuma
13539 E. Foster Rd.
Santa Fe Springs, CA 90670

LAB REQUEST 71977

REPORTED 05/04/2001

RECEIVED 05/01/2001

PROJECT Station #049
3400 San Pablo Ave., Oakland

SUBMITTER Client

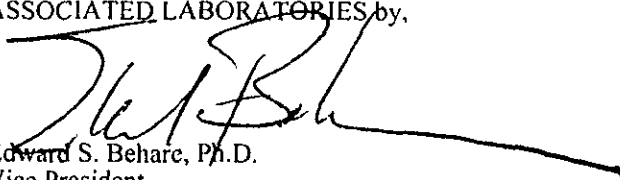
COMMENTS Added 8260 MTBE to all samples per DR 5-2-01 AV

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
261888	TOC #049, Outlet
261889	TOC #049, Inter 1
261890	TOC #049, Inter 2
261891	TOC #049, Inlet

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,


Edward S. Behar, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 261888

Matrix: WATER

Client Sample ID TOC #049, Outlet

Date Sampled: 04/30/2001 Time Sampled: 11:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	05/01/01 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	05/01/01 HP
Methyl t - butyl ether	337	10	50.0	0.24	ug/L	05/01/01 HP
Toluene	ND	1	0.3	0.14	ug/L	05/01/01 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	05/01/01 HP

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	60	1	1	0.6	ug/L	05/03/01 MB
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8015M - Total Petroleum Hydrocarbons

Gasoline	320	1	50	50	ug/L	05/01/01 HP
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Order #: 261889

Matrix: WATER

Client Sample ID TOC #049, Inter 1

Date Sampled: 04/30/2001 Time Sampled: 11:10

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	05/01/01 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	05/01/01 HP
Methyl t - butyl ether	1,070	33	165.0	0.24	ug/L	05/01/01 HP
Toluene	ND	1	0.3	0.14	ug/L	05/01/01 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	05/01/01 HP

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	333	10	10.0	0.6	ug/L	05/03/01 MB
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8015M - Total Petroleum Hydrocarbons

Gasoline	797	1	50	50	ug/L	05/01/01 HP
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Order #: 261890

Matrix: WATER

Client Sample ID TOC #049, Inter 2

Date Sampled: 04/30/2001 Time Sampled: 11:15

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace



8021B BTEX + MTBE

Benzene	50	2	0.6	0.18	ug/L	05/01/01	HP
Ethyl benzene	5.0	1	0.3	0.18	ug/L	05/01/01	HP
Methyl t - butyl ether	13,400	333	1665.0	0.24	ug/L	05/01/01	HP
Toluene	1.0	1	0.3	0.14	ug/L	05/01/01	HP
Xylene (total)	6.0	1	0.6	0.26	ug/L	05/01/01	HP

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	9,360	50	50.0	0.6	ug/L	05/03/01	MB
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8015M - Total Petroleum Hydrocarbons

Gasoline	6,080	2	100	50	ug/L	05/01/01	HP
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Order #: 261891

Client Sample ID TOC #049, Inlet

Matrix: WATER

Date Sampled: 04/30/2001 Time Sampled: 11:25

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	268	10	3.0	0.18	ug/L	05/01/01	HP
Ethyl benzene	10	1	0.3	0.18	ug/L	05/01/01	HP
Methyl t - butyl ether	13,600	250	1250.0	0.24	ug/L	05/01/01	HP
Toluene	22	1	0.3	0.14	ug/L	05/01/01	HP
Xylene (total)	124	1	0.6	0.26	ug/L	05/01/01	HP

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	9,130	50	50.0	0.6	ug/L	05/03/01	MB
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8015M - Total Petroleum Hydrocarbons

Gasoline	7,620	10	500	50	ug/L	05/01/01	HP
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PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
 ND = Not detected below indicated MDL, J=Trace



ASSOCIATED LABORATORIES LAB REQUEST RESULTS SUMMARY

Client: Thrifty Oil
 Jeff Suryakusuma
 13539 E. Foster Rd.
 Santa Fe Springs, CA 90670

Lab Request: 71977
 Date Received: 5/1/2001
 Print Date: 05/04/2001

Project: Station #049
 3400 San Pablo Ave., Oakland

Objectives: Confirm MTBE by 8260.

Sample ID.	Gasoline	Benzene	Toluene	Ethyl benzene	Xylene (total)	MTBE	MTBE by EPA8260
TOC #049, Inlet	7,620 ug/L	268 ug/L	22 ug/L	10 ug/L	124 ug/L	13,600 ug/L	9,130 ug/L
TOC #049, Inter 1	797 ug/L	ND	ND	ND	ND	1,070 ug/L	333 ug/L
TOC #049, Inter 2	6,080 ug/L	50 ug/L	1.0 ug/L	5.0 ug/L	6.0 ug/L	13,400 ug/L	9,360 ug/L
TOC #049, Outlet	320 ug/L	ND	ND	ND	ND	337 ug/L	60 ug/L

ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: LCS / LCSD , water samples

Method : 8260

Analysis Date: 05/03/01

Applies to: LR 71977

REPORTING UNITS = ug/L

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50.0	62.49	57.66	125	115	8	22	59-172
MTBE	ND	50.0	65.46	64.64	131	129	1	24	62-137
Benzene	ND	50.0	68.19	64.77	136	130	5	24	62-137
Trichloroethene	ND	50.0	51.52	51.15	103	102	1	21	66-142
Toluene	ND	50.0	55.06	54.79	110	110	0	21	59-139
Chlorobenzene	ND	50.0	60.31	58.20	121	116	4	21	60-133

ND = Not Detected

RPD = Relative Percent Difference of LCS and LCS Dup.

%REC-MS & MSD = Percent Recovery of LCS & LCS Dup.

Method Blank = All ND

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 71755-068

Matrix: WATER

Prep. Date: 04/30/01

Analysis Date: 04/30/01-05/01/01

ID#'s in Batch: LR 71977, 71951, 71710, 71722, 71751

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = ug/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
TPH	8015M-G	ND	200	204	204	102.0	102.0	0.0

ND = Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

<i>%REC LIMITS = 70 - 130</i>
<i>RPD LIMITS = 30</i>

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

PREP BL	LCS				
Value	Result	True	%Rec	L.Limit	H.Limit
ND	209.0	200	104.5	80%	120%

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 71708-836

Matrix: WATER

Prep. Date: 04/30/01

Analysis Date: 04/30/01-05/01/01

LAB ID#'s in Batch: LR 71708, 71977, 71710, 71722, 71889

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = ug/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD
Benzene	8021	ND	10.0	10.6	10.7	106	107	1
Toluene	8021	ND	10.0	9.8	9.8	98	98	0
Ethylbenzene	8021	ND	10.0	10.2	10.3	102	103	1
Xylenes	8021	ND	20.0	19.3	19.3	97	97	0

ND = Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130

RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP. BL	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
Benzene	8021	ND	10.1	10.0	101	80%	120%
Toluene	8021	ND	9.4	10.0	94	80%	120%
Ethylbenzene	8021	ND	9.7	10.0	97	80%	120%
Xylenes	8021	ND	18.5	20.0	93	80%	120%

LCS = Lab Control Sample Result

TRUE = True Value of LCS

L.LIMIT / H.LIMIT = LCS Control Limits

Chain of Custody Record

719772

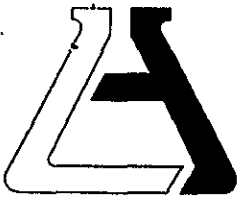
ASSOCIATED LABORATORIES

806 North Batavia ■ Orange, CA 92868
 Phone: (714) 771-6900 ■ Fax: (714) 538-1209



Company THRIFTY OIL CO		Phone (562) 921-3581		A.L. Job No.		Page _____ of _____																																																					
Project Manager JEFF SURYAKUSUMA		Fax		Analysis Requested				Test Instructions & Comments																																																			
Project Name SPECIAL SAMPLING		Project # #049 ✓		<table border="1" style="width:100%; text-align: center;"> <tr> <td>T</td><td>B</td><td>M</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>P</td><td>P</td><td>T</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>H</td><td>T</td><td>T</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>X</td><td>E</td><td>B</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>				T	B	M								P	P	T								H	T	T								X	E	B								X	X	X								<p>*CONFIRMED BY EPA METHOD 8260B IF DETECTED</p>	
T	B	M																																																									
P	P	T																																																									
H	T	T																																																									
X	E	B																																																									
X	X	X																																																									
Site Name and Address 3400 SAN PABLO AVE. OAKLAND, CA. 94612																																																											
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.																																																					
1 OUTLET		04.30.01	11:00	WATER	3VIALS	HCL	X	X	X																																																		
2 INTER 1		↓	11:10	↑	↓	↓	X	X	X																																																		
3 INTER 2		↓	11:15	↓	↓	↓	X	X	X																																																		
4 INLET		↓	11:25	↓	↓	↓	X	X	X																																																		
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Sample Receipt - To Be Filled By Laboratory				Relinquished by 1.		Relinquished by 2.		Relinquished by 3.	
Total Number of Containers	12	Property Cooled Y/N/NA	yes	Signature:	<i>[Signature]</i>	Signature:	Federal Express	Signature:	
Custody Seals Y/N/NA	No	Samples Intact Y/N/NA	yes	Printed Name:	SERBAY P.	Printed Name:		Printed Name:	
Received in Good Condition Y/N	yes	Samples Accepted Y/N	yes	Date:		Date:	5-101	Time:	12:20
Turn Around Time				Received By: 1.		Received By: 2.		Received By: 3.	
<input type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Same Day	<input type="checkbox"/> 48 hrs.	Signature:	Federal Express	Signature:	<i>[Signature]</i>	Signature:	
		<input checked="" type="checkbox"/> 24 hrs.	<input type="checkbox"/> 72 hrs.	Printed Name:		Printed Name:	Ken Mulsey	Printed Name:	
				Date:	Unknown	Date:	5-101	Time:	12:20



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Thrifty Oil (8871)
ATTN: Jeff Suryakusuma
13539 E. Foster Rd.
Santa Fe Springs, CA 90670

LAB REQUEST 71426

REPORTED 04/23/2001

RECEIVED 04/20/2001

PROJECT Station #049
3400 San Pablo Ave., Oakland

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.

259768
259769
259770

Client Sample Identification

TOC #049, EFFLUENT
TOC #049, INTERMED
TOC #049, INFLUENT

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 259768

Matrix: WATER

Client Sample ID TOC #049, EFFLUENT

Date Sampled: 04/19/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	04/20/01 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	04/20/01 HP
Methyl t - butyl ether	93	2	10.0	0.24	ug/L	04/20/01 HP
Toluene	ND	1	0.3	0.14	ug/L	04/20/01 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	04/20/01 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	88	1	50	50	ug/L	04/20/01 HP
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Order #: 259769

Matrix: WATER

Client Sample ID TOC #049, INTERMED

Date Sampled: 04/19/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	04/20/01 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	04/20/01 HP
Methyl t - butyl ether	87	2	10.0	0.24	ug/L	04/20/01 HP
Toluene	ND	1	0.3	0.14	ug/L	04/20/01 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	04/20/01 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	112	1	50	50	ug/L	04/20/01 HP
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Order #: 259770

Matrix: WATER

Client Sample ID TOC #049, INFLUENT

Date Sampled: 04/19/2001

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	855	20	6.0	0.18	ug/L	04/20/01 HP
Ethyl benzene	659	20	6.0	0.18	ug/L	04/20/01 HP
Methyl t - butyl ether	11,400	1000	5000.0	0.24	ug/L	04/20/01 HP
Toluene	716	20	6.0	0.14	ug/L	04/20/01 HP
Xylene (total)	1,570	20	12.0	0.26	ug/L	04/20/01 HP

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
 ND = Not detected below indicated MDL, J=Trace



8015M - Total Petroleum Hydrocarbons

Gasoline	36,500	10	500.0	50	ug/L	04/20/01	HP
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PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace



ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 71392-690

Matrix: WATER

Prep. Date: 04/21/01

Analysis Date: 04/21/01-04/22/01

ID#'s in Batch: LR 71325, 71327, 71426

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = ug/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
TPH	8015M-G	ND	200	209	222	104.5	111.0	6.0

ND = Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

PREP BL	LCS				
Value	Result	True	%Rec	L.Limit	H.Limit
ND	231.0	200	115.5	80%	120%

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 71269-311

Matrix: WATER

Prep. Date: 04/21/01

Analysis Date: 04/21/01-04/22/01

LAB ID#'s in Batch: LR 71326, 71426

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = ug/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD
Benzene	8021	ND	10.0	9.6	10.6	96	106	10
Toluene	8021	ND	10.0	8.3	9.3	83	93	11
Ethylbenzene	8021	ND	10.0	9.1	10.1	91	101	10
Xylenes	8021	ND	20.0	16.1	18.0	81	90	11

* = Matrix Interference. LCS OK, Data Reported.

ND = Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP. BL	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
Benzene	8021	ND	9.5	9.0	106	80%	120%
Toluene	8021	ND	8.2	9.0	91	80%	120%
Ethylbenzene	8021	ND	9.0	9.0	100	80%	120%
Xylenes	8021	ND	15.9	18.0	88	80%	120%

LCS = Lab Control Sample Result

TRUE = True Value of LCS

L.LIMIT / H.LIMIT = LCS Control Limits

Chain of Custody Record

71424 ✓

ASSOCIATED LABORATORIES

806 North Batavia ■ Orange, CA 92868
Phone: (714) 771-6900 ■ Fax: (714) 538-1209



Company THRIFTY OIL CO.		Phone (562) 921-3581		A.L. Job No.		Page _____ of _____			
Project Manager JEFF JURYARUSUMA		Fax		Analysis Requested				Test Instructions & Comments	
Project Name System Sampling		Project # 049 ✓		T P H B X X X					
Site Name and Address 3400 SAN PABLO AVE - OAKLAND, CA. 94612									
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.			
1		04.19.01		WATER	2 VIALS	HCL	X	X	
2		04.19.01		WATER	2 VIALS	HCL	X	X	
3		04.19.01		WATER	2 VIALS	HCL	X	X	
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

Sample Receipt - To Be Filled By Laboratory				Relinquished by Sampler: 1. PTD		Relinquished by: 2. Fed-er		Relinquished by: 3.	
Total Number of Containers	6	Properly Cooled Y / N / NA	YES	Signature:	[Signature]	Signature:		Signature:	
Custody Seals Y / N / NA	NO	Samples Intact Y / N / NA	YES	Printed Name:	SERBAX P.	Printed Name:		Printed Name:	
Received in Good Condition Y / N	YES	Samples Accepted Y / N	YES	Date:	04.19.01	Date:		Date:	
Turn Around Time				Received By: 1. Fed ex		Received By: 2. [Signature]		Received By: 3. [Signature]	
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Same Day	<input type="checkbox"/> 48 hrs.	Signature:		Signature:		Signature:	
		<input type="checkbox"/> 24 hrs.	<input type="checkbox"/> 72 hrs.	Printed Name:		Printed Name:	Ken Hulsay	Printed Name:	
				Date:		Date:	4-20-01	Date:	4-20
				Time:		Time:	14:30	Time:	4:20