

KOY
EVA

THRIFTY OIL CO.

JUL 23 2002

July 18, 2002

O.29486

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

Local #4057
RWQCB #01-1478
Global ID #T0600101365
Confirmation #4536268889

RE: **Former Thrifty Oil Co. Station #049**
ARCO Products Company Station #9535
3400 San Pablo Avenue
Oakland, CA 94612
***2nd Quarter 2002, Status Report and Proposal to Upgrade
the existing Remediation System***

Dear Ms. Hugo:

Presented herewith is the Second Quarter 2002, Status Report for former Thrifty Oil Co. Station #049 located at 3400 San Pablo Avenue, Oakland, California.

Thrifty proposes not only to connect well MW-4 to the existing remediation system to enhance the reduction of petroleum hydrocarbons in the groundwater, but also to overhaul and upgrade the existing remediation system. Once written approval is received from the ACHCS, Thrifty will commence with this scope of work.

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

c: BP West Coast Products LLP; Ms. Kateri Luka
File



THRIFTY OIL CO.

July 17, 2002

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

Local #4057
RWQCB #01-1478
Global ID #T0600101365
Confirmation #4536268889

RE: **Former Thrifty Oil Co. Station #049**
3400 San Pablo Avenue
Oakland, CA 94612
2nd Quarter 2002, Status Report

Dear Ms. Hugo:

Presented herein is the Second Quarter 2002, 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 2002. 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 beneath the station at depths ranging from 2.46 feet below surface grade (bsg) in monitoring well MW-1 to 8.43 feet bsg in monitoring well MW-2 (**Appendix A**). A groundwater elevation contour map based on the May 17, 2002 data is presented in **Figure 2**. Groundwater elevation data indicates that the flow direction is toward the west-southwest with a groundwater gradient of approximately 0.06 feet/foot. Recovery well RW-1 was not sampled because it is a pumping well.

Quarterly Groundwater Sampling

As part of the ongoing groundwater monitoring program, groundwater samples were obtained from monitoring wells MW-1 through MW-7 on May 17, 2002. 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. MTBE confirmation was performed using EPA method 8260B. 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**, respectively. Laboratory results indicate the highest concentration of TPH-g, benzene, and MTBE were in monitoring well MW-4 (12,900 ug/L, 8



ug/L, and 13,600 ug/L, respectively).

Remediation Status

Site remedial activities were initiated in April 1991. Presently, the remediation system consists of a Groundwater Treatment System using activated 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 198,910 gallons of groundwater, and has treated approximately 1,303,568 gallons of groundwater since start up (April 1991) through June 2002. The system operated throughout the second quarter.

Inlet, intermediate 1, intermediate 2, intermediate 3, and outlet water samples were collected on April 12, 2002, and only outlet water samples were collected on June 3, 2002 from the treatment unit. The samples collected by EMC were sent to a state certified laboratory for analysis, and were analyzed for TPH-g, BTEX, and MTBE by EPA methods 8015M and 8021B, respectively. All analyzed outlet samples were below the laboratory detection limits. Copies of the laboratory analytical reports are included in **Appendix D**.

Other Activities


With the high concentration of petroleum hydrocarbons in well MW-4, Thrifty proposes not only to connect well MW-4 to the existing remediation system to enhance the reduction of the petroleum hydrocarbons in the groundwater, but also to overhaul and upgrade the existing remediation system. Once approval is received from the ACHCS to overhaul and upgrade the system including connecting well MW-4 to the system, Thrifty will bid out this scope of work to a consultant.


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 2002 monitoring report.

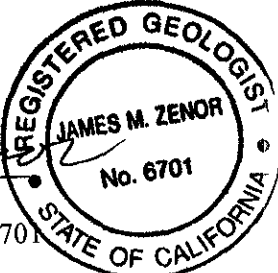
All interpretations expressed in this report are based solely upon data collected by EMC, and Associated Laboratories.

Written by:

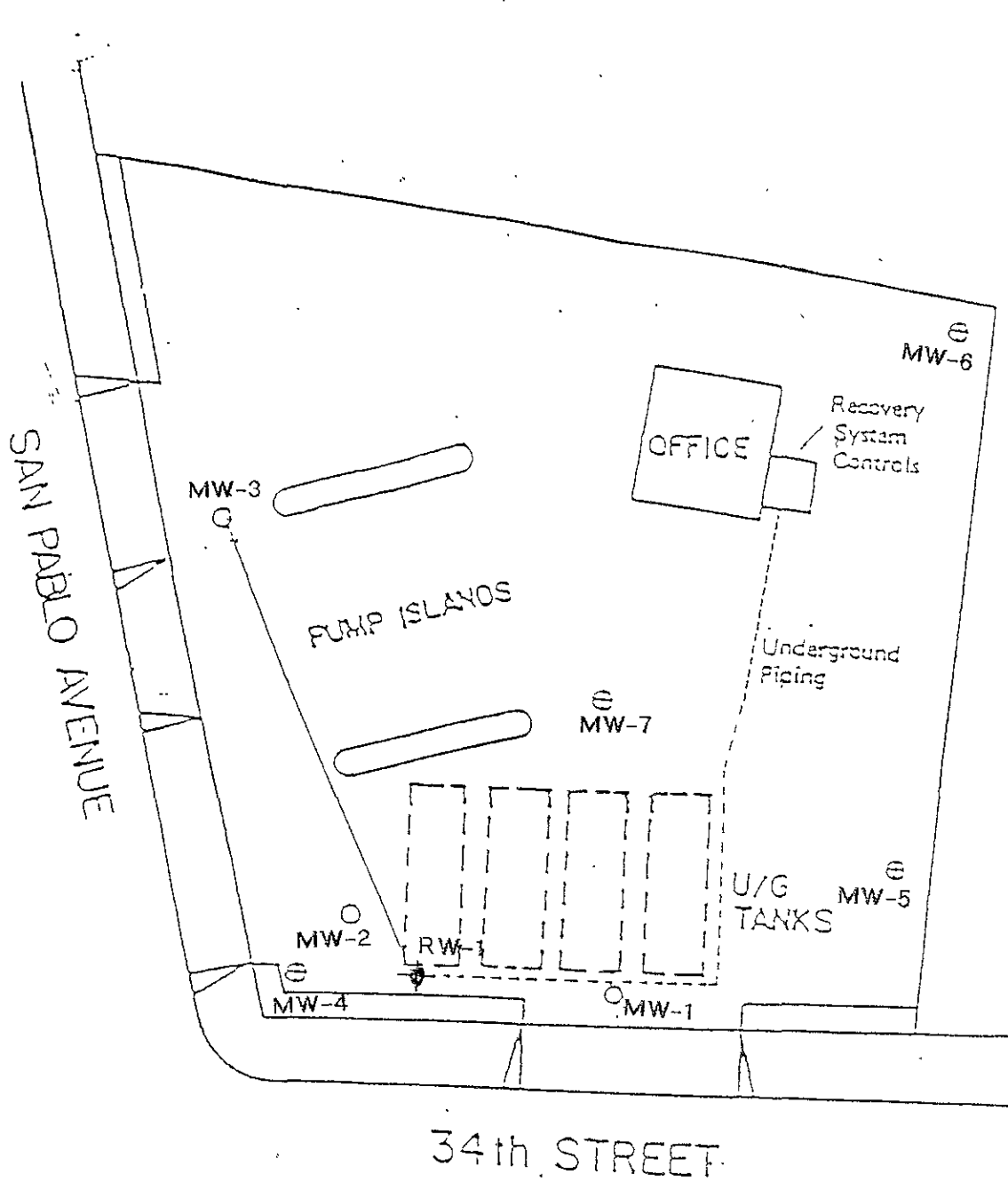
Reviewed by:


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


Jim Zenor, RG
Registered Geologist #6701



FIGURES

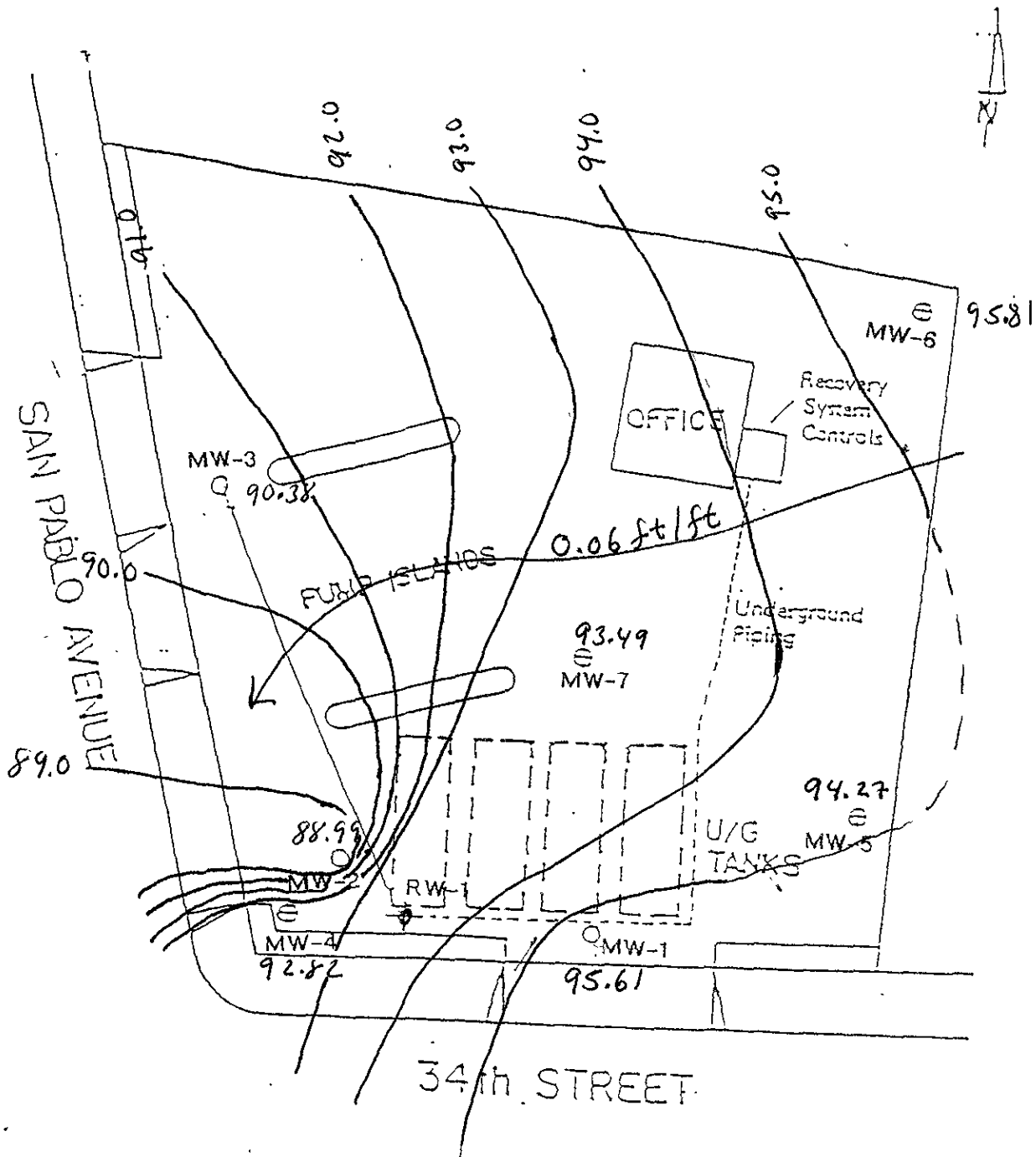


SITE PLAN AND RECOVERY SYSTEM LOCATION
 THRIFTY SERVICE STATION NO. 49
 3400 SAN PABLO AVE.
 OAKLAND, CA

LEGEND

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

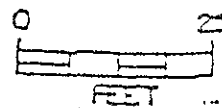




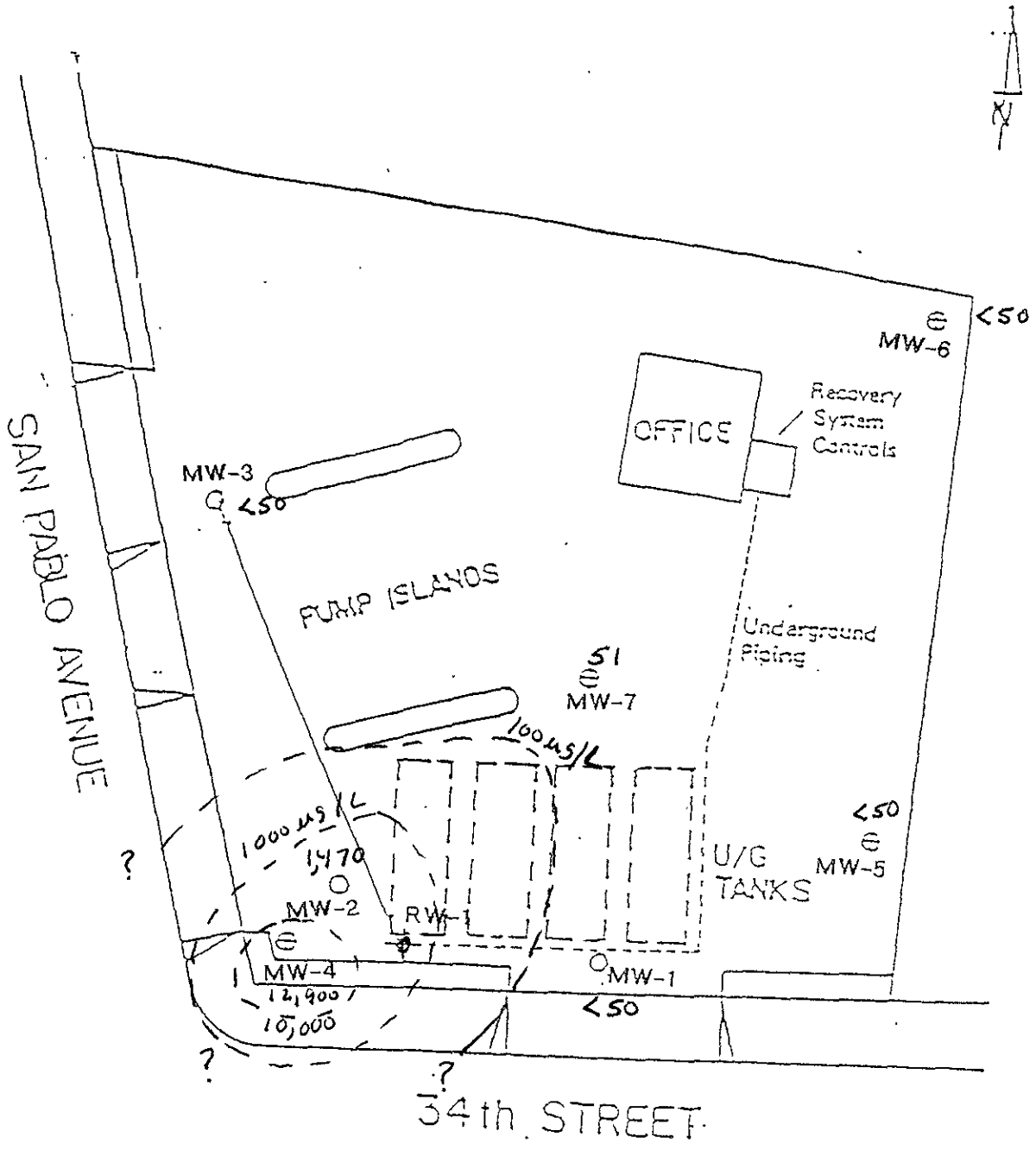
GROUNDWATER CONTOUR MAP
 THRIFTY SERVICE STATION NO. 49
 3400 SAN PABLO AVE.
 OAKLAND, CA

LEGEND

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



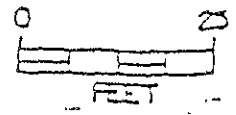
5/17/02



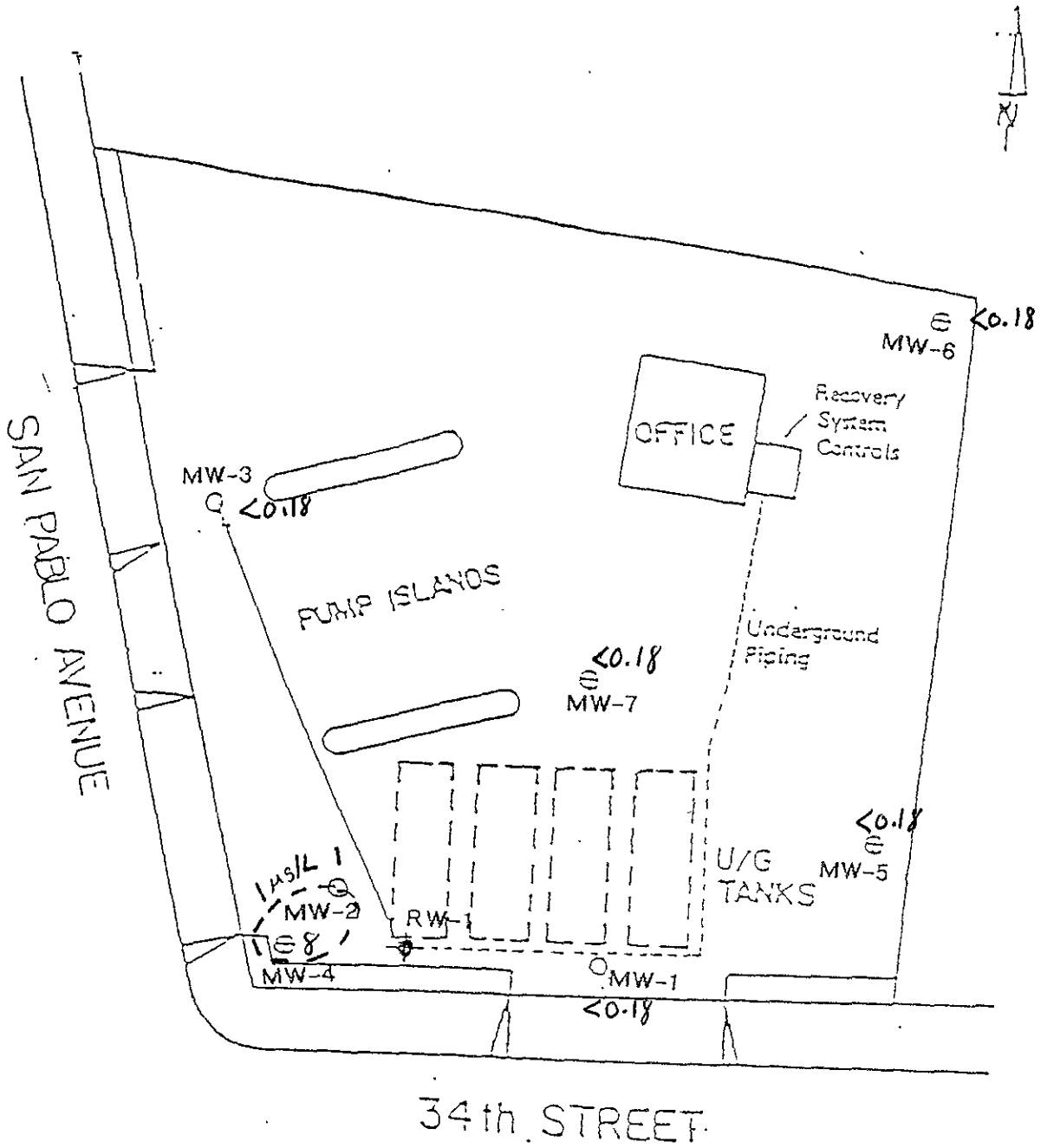
TPH ISOCONCENTRATION MAP · ug/L
 THRIFTY SERVICE STATION NO. 49
 3400 SAN PABLO AVE.
 OAKLAND, CA

LEGEND

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



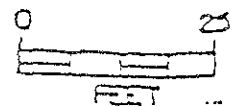
5/17/02



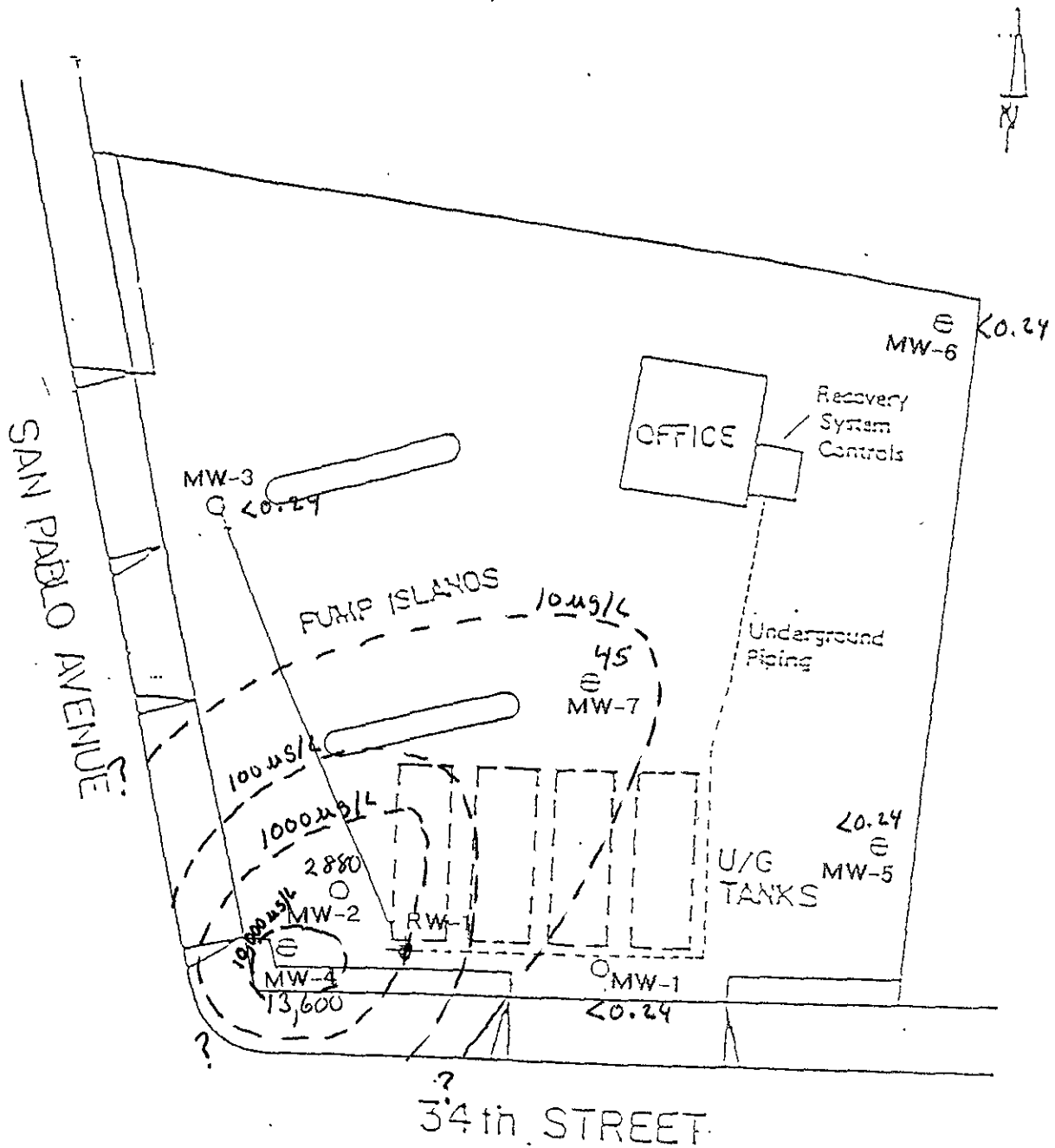
BENZENE ISOCONCENTRATION MAP ug/L
 THRIFTY SERVICE STATION NO. 49
 3400 SAN PABLO AVE.
 OAKLAND, CA

LEGEND

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



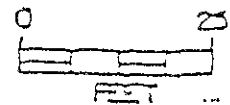
5/17/02



MTBE 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



5/17/02

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)	MTBE (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
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	5.51	NP	0.00	98.03	92.52
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.97	NP	0.00	98.03	94.06
01/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.95	NP	0.00	98.03	94.08
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	2.42	NP	0.00	98.03	95.61

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-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
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
07/18/01	3,260	<0.18	<0.14	<0.18	2	* 7,960 / 1,710	6.92	NP	0.00	97.44	90.52
10/10/01	1,760	<0.18	<0.14	<0.18	<0.26	* 2,980 / 2,600	3.87	NP	0.00	97.44	93.57
01/30/02	1,770	<0.18	1	1	2	* 2,560 / 1,590	8.45	NP	0.00	97.44	88.99
04/17/02	1,470	1	<0.14	<0.18	<0.26	* 2,460 / 2,080	8.45	NP	0.00	97.44	88.99

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)					
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
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
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	7.32	NP	0.00	97.69	90.37
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	8.87	NP	0.00	97.69	88.82
01/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	5.78	NP	0.00	97.69	91.91
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	7.31	NP	0.00	97.69	90.38

**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 (ng/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
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
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
04/21/97	-	-	-	-	-	-	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
07/18/01	52,200	3,320	2,090	440	5,520	*55,500 / 16,800	6.04	NP	0.00	97.33	91.29
10/10/01	8,580	6.1	14	5.3	70	*40,100 / 30,000	4.51	NP	0.00	97.33	92.82
01/30/02	36,500	<0.18	3	1	3	*43,000 / 24,900	4.51	NP	0.00	97.33	92.82
04/17/02	12,900	8	1	<0.18	1	16,000 / 13,600	4.51	NP	0.00	97.33	92.82

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-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
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
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	6.12	NP	0.00	98.85	92.73
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4.58	NP	0.00	98.85	94.27
01/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4.48	NP	0.00	98.85	94.37
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4.58	NP	0.00	98.85	94.27

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-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
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
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	5.40	NP	0.00	99.67	94.27
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.86	NP	0.00	99.67	95.81
01/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.86	NP	0.00	99.67	95.81
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.86	NP	0.00	99.67	95.81

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)	TOUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
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
04/08/94	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
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
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	*9 / 3.5	6.30	NP	0.00	99.02	92.72
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	*9.4 / 7.9	8.23	NP	0.00	99.02	90.79
01/30/02	2,590	40	9	8	6	*45 / 22	5.14	NP	0.00	99.02	93.88
04/17/02	51	<0.18	<0.14	<0.18	<0.26	*58 / 45	5.53	NP	0.00	99.02	93.49

**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)					
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	-	-
0104/94	-	-	-	-	-	-	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	-	-
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	-	-	-	-	-	-	-	-	-	-	-
07/18/01	-	-	-	-	-	-	11.20	NP	0.00	-	-
10/10/01	-	-	-	-	-	-	11.20	NP	0.00	-	-
01/30/02	-	-	-	-	-	-	12.30	NP	0.00	-	-
04/17/02	-	-	-	-	-	-	14.30	NP	0.00	-	-

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)					

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 Cam Discharge (gallons)	Flow (gal/day)	Total H-C Removed (lbs)	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	-	0.000	-	<0.3	<0.3	<0.3	<0.9	-	-	910	2000	160	2000	-
4/15/91	1,434	124	18	0.049	-	<0.3	<0.3	<0.3	<0.3	-	-	2800	4600	310	5000	-
4/22/91	1,510	200	11	0.073	-	<15	<15	<15	<45	-	-	3100	3300	<15	2800	-
4/29/91	1,660	350	21	0.137	-	<0.3	<0.3	<0.3	<0.9	-	-	3600	4500	300	5000	-
5/6/91	1,740	430	11	0.168	-	<0.3	<0.3	<0.3	<0.9	-	-	3600	3500	300	3800	-
5/13/91	1,880	570	20	0.223	-	<0.3	<0.3	<0.3	<0.9	-	-	3300	3200	230	3900	-
5/20/91	2,010	700	19	0.274	-	<0.3	<0.3	<0.3	<0.9	-	-	3300	3400	260	5100	-
5/28/91	2,050	740	5	0.290	-	<0.3	<0.3	<0.3	<0.9	-	-	2900	3000	230	4200	-
6/3/91	2,110	800	10	0.313	-	<0.3	<0.3	<0.3	<0.9	-	-	2500	2100	110	2800	-
6/10/91	2,160	850	7	0.333	-	<0.3	<0.3	<0.3	<0.9	-	-	1800	1700	120	2100	-
6/17/91	2,219	909	8	0.356	-	<0.3	<0.3	<0.3	<0.9	-	-	2100	1900	170	2700	-
6/24/91	2,263	953	6	0.373	-	<0.3	<0.3	<0.3	<0.9	-	-	2100	1800	150	2700	-
07/01/91	2,313	1,003	7	0.393	-	<0.5	<0.5	<1	<1	-	-	2,700	2,000	150	2,900	-
07/08/91	2,700	1,390	55	0.544	-	<0.5	<0.5	<1	<1	-	-	4,000	2,500	130	4,400	-
07/15/91	2,872	1,562	25	0.611	-	<0.5	<0.5	<1	<1	-	-	3,100	1,900	140	3,200	-
07/22/91	3,144	1,834	39	0.718	-	<0.5	<0.5	<1	<1	-	-	3,400	2,100	110	2,800	-
07/29/91	3,220	1,910	11	0.748	-	<0.5	<0.5	<1	<1	-	-	5,100	2,200	180	2,700	-
08/05/91	3,348	2,038	18	0.798	-	<0.5	<0.5	<1	<1	-	-	5,100	3,900	400	4,200	-
08/12/91	3,472	2,162	18	0.846	-	<0.5	<0.5	<1	<1	-	-	11,000	6,200	440	8,400	-
08/19/91	3,548	2,238	11	0.876	-	<0.5	<0.5	<1	<1	-	-	4,500	2,400	130	2,600	-
08/26/91	3,655	2,345	15	0.918	-	<0.5	<0.5	<1	<1	-	-	4,400	2,500	260	3,600	-
09/09/91	3,822	2,512	12	0.983	-	<0.5	<0.5	<1	<1	-	-	5,200	3,000	390	3,700	-
09/16/91	3,884	2,574	9	1.007	-	<0.5	<0.5	<1	<1	-	-	4,100	2,000	460	4,900	-
09/23/91	4,013	2,703	18	1.058	-	<0.5	<0.5	<1	<1	-	-	4,600	1,600	710	6,400	-
09/30/91	4,092	2,782	11	1.089	-	<0.5	<0.5	<1	<1	-	-	5,700	2,000	380	6,200	-
10/07/91	4,131	2,821	6	1.104	System shut down						-	-	-	-	-	-
10/14/91	4,195	2,885	9	1.129	-	<0.5	<0.5	<1	<1	-	-	4,400	2,000	370	8,100	-
10/21/91	4,406	3,096	30	1.212	-	<0.5	<0.5	<1	<1	-	-	2,300	1,100	190	4,200	-
10/28/91	4,474	3,164	10	1.238	-	<0.5	<0.5	<1	<1	-	-	6,400	4,100	620	6,100	-
11/03/91	4,613	3,303	23	1.293	-	<0.5	<0.5	<1	<1	-	-	6,100	2,800	200	5,600	-
11/11/91	4,700	3,390	11	1.327	-	<0.5	<0.5	<1	<1	-	-	6,500	2,300	<30	4,900	-
11/18/91	4,887	3,577	27	1.400	-	<0.5	<0.5	<1	<1	-	-	5,600	2,500	300	4,600	-
11/25/91	5,042	3,732	22	1.461	-	<0.5	<0.5	<1	<1	-	-	5,400	2,800	230	5,700	-
12/03/91	5,263	3,953	28	1.547	-	<0.5	<0.5	<1	<1	-	-	7,200	3,300	490	5,500	-
12/09/91	5,362	4,052	17	1.588	-	<0.5	<0.5	<1	<1	-	-	4,400	1,700	140	3,900	-
12/16/91	5,486	4,176	18	1.635	-	<0.5	<0.5	<0.5	<0.5	-	-	4,700	2,300	310	4,600	-
12/23/91	5,516	4,206	4	1.648	-	<0.5	<0.5	<0.5	<0.5	-	-	4,000	2,200	290	5,900	-
12/30/91	5,575	4,265	8	1.669	-	<0.5	<0.5	<0.5	<0.5	-	-	5,200	2,500	350	5,800	-
01/15/92	5,720	4,410	9	1.726	-	<0.5	<0.5	<0.5	<0.5	-	-	3,400	1,900	300	6,300	-
02/10/92	6,264	4,954	21	1.939	-	<0.5	<0.5	<0.5	<0.5	-	-	5,800	2,800	320	7,200	-
03/09/92	8,520	7,210	81	2.822	<200	<0.5	1.6	<0.5	<0.5	-	47,000	7,100	4,800	630	10,300	-

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)	Total H-C Removed (lbs)	EFFLUENT (ug/L)						INFLUENT (ug/L)						
					TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE	
04/13/92	22,888	21,578	411	7,369	<200	<0.5	<0.5	<0.5	<0.5	-	29,000	4,500	2,200	180	4,800	-	
05/11/92	24,920	23,610	73	7,800	<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	8,368	<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	-	8,368	-	<0.5	<0.5	<0.5	<0.5	-	-	1,800	750	150	5,600	-	
07/13/92	72,675	27,020	-	8,368	The system pumped air and flowmeter jumped from 30,000 gallons to 70,000 gallons						-	-	-	-	-	-	-
08/17/92	75,045	29,391	68	8,724	-	<0.5	<0.5	<0.5	<0.5	-	-	1,100	350	200	1,100	-	
09/14/92	75,582	29,927	19	8,804	-	<0.5	<0.5	<0.5	<1	-	-	2,100	520	<25	3,500	-	
10/05/92	75,680	30,025	5	8,819	<200	<0.5	<0.5	<0.5	<1	-	19,000	1,700	270	<25	4,000	-	
11/09/92	77,280	31,625	46	9,072	-	<0.5	<0.5	<0.5	<0.5	-	-	4,000	1,400	120	5,900	-	
12/14/92	79,420	33,765	61	9,411	-	<0.5	<0.5	<0.5	<1	-	-	7,300	4,900	1,800	16,000	-	
01/04/93	84,720	39,065	252	10,250	-	<0.5	<0.5	<0.5	<1	-	-	5,400	2,100	450	7,800	-	
02/15/93	102,689	57,034	428	14,739	<200	<0.5	<0.5	<0.5	<1	-	41,000	6,600	3,200	260	9,600	-	
02/22/93	146,430	57,034	-	14,739	The system pumped air and flowmeter jumped from 102,689 gallons to 146,430 gallons						-	-	-	-	-	-	-
03/08/93	147,500	58,104	76	15,104	-	<0.5	<0.5	<0.5	<1	-	-	7,400	3,400	56	11,000	-	
04/26/93	151,200	61,804	78	16,291	<100	<0.5	<0.5	<0.5	<1	-	36,000	4,300	2,200	420	8,300	-	
04/26/93	151,200	61,804	-	16,291	Shut down system for repair						-	-	-	-	-	-	-
07/21/93	151,240	61,844	0	16,303	Restart the system						-	-	-	-	-	-	-
08/11/93	151,650	62,254	20	16,426	-	<0.5	<0.5	<0.5	<1	-	-	6,500	2,300	390	6,200	-	
09/16/93	154,005	64,609	65	17,200	<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	17,482	<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	17,989	<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	18,233	<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	19,181	-	<0.3	<0.3	<0.3	<0.5	-	-	3,800	730	<13	1,200	-	
02/03/94	170,720	81,324	153	19,752	-	<0.3	<0.3	<0.3	<0.5	-	-	3,600	610	<4.4	4,800	-	
03/03/94	178,168	88,772	266	20,744	-	<0.3	<0.3	<0.3	<0.5	-	-	2,800	2,000	270	3,400	-	
04/07/94	185,670	96,274	214	22,056	<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	22,460	<50	<0.3	<0.3	<0.3	<0.5	-	4,600	100	10	8.4	280	-	
06/16/94	194,680	105,284	167	22,684	<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	22,832	<50	<0.3	<0.3	<0.3	<0.5	-	4,000	220	<2.6	<2.6	320	-	
08/04/94	200,910	111,514	74	22,919	<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	23,036	<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	23,069	<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	23,074	<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	23,075	<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	23,075	<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	23,075	<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	23,075	<50	<0.3	<0.3	<0.5	<0.5	-	<50	2.7	<0.3	<0.5	<0.5	-	
03/10/95	208,430	119,034	19	23,076	<100	<0.5	<0.5	<0.5	<1	-	<100	<0.5	<0.5	<0.5	<1	-	
04/10/95	208,584	119,168	4	23,079	<100	<0.5	<0.5	<0.5	<1	-	3,300	180	7.6	2.1	150	-	
05/08/95	208,606	119,212	2	23,082	<100	<0.5	<0.5	<0.5	<1	-	11,000	640	9.2	<5	1,100	-	
06/05/95	208,926	119,530	11	23,103	<100	<0.5	<0.5	<0.5	<1	-	5,100	270	2.2	<0.5	49	-	

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)	Total H-C Removed (lbs)	EFFLUENT (ug/L)						INFLUENT (ug/L)						
					TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE	
07/10/95	214,182	124,786	150	23,500	<100	<0.5	<0.5	<0.5	<1	-	13,000	1,600	120	24	1,300	-	
08/07/95	221,876	132,480	275	24,332	Shut down system for repair						-	-	-	-	-	-	-
08/28/95	221,997	132,601	6	24,346	Restart the system						-	-	-	-	-	-	-
09/06/95	222,003	132,607	1	24,346	<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	24,352	<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	24,380	<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	24,387	<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	24,400	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	24,467	<50	10	0.37	<0.3	0.53	-	3,300	190	<7.5	<7.5	20	-	
03/12/96	229,301	139,905	51	24,504	<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	24,704	<50	<0.3	<0.3	<0.3	<0.5	-	1,000	90	5	<0.3	67	-	
05/06/96	247,840	158,444	197	25,072	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	25,145	Shut down system for carbon change						-	-	-	-	-	-	
08/08/96	248,423	159,027	-	25,145	Start-up system						-	-	-	-	-	-	
08/20/96	248,630	159,234	17	25,149	<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	25,417	<50	<0.3	<0.3	<0.3	<0.5	-	4,100	260	<3	<3	34	-	
10/16/96	263,610	174,214	199	25,547	<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	25,553	<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	25,581	<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	26,393	<50	<0.3	<0.3	<0.3	<0.5	-	68,000	<0.3	<0.3	<0.3	<0.5	-	
02/24/97	287,030	177,634	25	26,794	<50	<0.3	<0.3	<0.3	<0.5	-	51,000	3,500	3,200	390	2,200	-	
03/17/97	287,230	177,834	10	28,911	<50	<0.3	<0.3	<0.3	<0.5	-	89,000	<6	11	<6	14	-	
04/21/97	267,415	178,019	5	27,026	<50	<0.3	<0.3	<0.3	<0.5	-	81,000	730	18	130	360	-	
05/22/97	276,535	187,139	294	29,375	<50	<0.3	<0.3	<0.3	<0.5	-	650	1.3	<0.3	0.4	4.6	-	
06/23/97	281,214	191,818	146	29,408	-	-	-	-	-	-	-	-	-	-	-	-	
07/14/97	284,210	194,814	143	29,501	<50	<0.3	<0.3	<0.3	<0.5	-	6,800	<0.3	0.59	<0.3	9	-	
08/18/97	298,610	209,214	411	30,293	-	-	-	-	-	-	-	-	-	-	-	-	
09/15/97	301,043	211,647	87	30,427	-	-	-	-	-	-	-	-	-	-	-	-	
10/07/97	333,480	244,084	1,474	44,014	<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	44,645	-	-	-	-	-	-	-	-	-	-	-	-	
12/08/97	334,382	244,986	5	44,720	-	-	-	-	-	-	-	-	-	-	-	-	
12/12/97	334,382	244,986	-	44,720	Shut down system due to stolen equipment						-	-	-	-	-	-	-
04/08/98	334,382	244,986	-	44,720	<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	-	44,720	-	-	-	-	-	-	-	-	-	-	-	-	
06/22/98	334,382	244,986	-	44,720	-	-	-	-	-	-	-	-	-	-	-	-	
07/20/98	334,382	244,986	-	44,720	<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	49,977	Shut down system for carbon canisters replacement						-	-	-	-	-	-	-
09/17/98	354,985	265,589	188	53,642	-	-	-	-	-	-	-	-	-	-	-	-	
10/14/98	358,015	268,619	112	54,338	<50	<0.3	<0.3	<0.3	1.6	-	3,100	45	13	3.5	350	-	
11/05/98	359,600	270,204	72	54,378	System shut down due to vandalism and stolen equipment						-	-	-	-	-	-	-
11/20/98	359,600	270,204	-	54,378	Restart						-	-	-	-	-	-	-

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)	Total H-C Removed (lbs)	EFFLUENT (ug/L)						INFLUENT (ug/L)						
					TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE	
12/11/98	369,452	280,056	469	54,633	-	-	-	-	-	-	-	-	-	-	-	-	
12/24/98	-	280,056	-	54,633	No reading, meter broken						-	-	-	-	-	-	-
01/15/99	0	280,056	-	54,633	Replaced Flowmeter started at 0						-	-	-	-	-	-	-
01/21/99	985.5	281,042	164	54,636	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	54,639	-	-	-	-	-	-	-	-	-	-	-	-	
03/12/99	4,390.0	284,446	86	54,647	-	-	-	-	-	-	-	-	-	-	-	-	
04/15/99	8,595.0	288,651	124	54,661	<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	54,663	-	-	-	-	-	-	-	-	-	-	-	-	
05/18/99	9,410.0	289,466	-	54,663	Shut down system for pump controller repair by manufacturer						-	-	-	-	-	-	-
09/20/99	9,411.0	289,467	0	54,663	Restart the system						-	-	-	-	-	-	-
09/24/99	9,412.4	289,468	0	54,663	-	-	-	-	-	-	-	-	-	-	-	-	
10/13/99	9,509.8	289,566	5	54,666	<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	54,676	-	-	-	-	-	-	-	-	-	-	-	-	
12/17/99	9,893.7	289,950	5	54,685	-	-	-	-	-	-	-	-	-	-	-	-	
01/20/00	10,052.1	290,108	5	54,693	<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	54,698	-	-	-	-	-	-	-	-	-	-	-	-	
03/13/00	10,354.7	290,411	8	54,708	-	-	-	-	-	-	-	-	-	-	-	-	
04/05/00	10,545.7	290,602	8	54,897	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	55,419	Shut down system for carbon drum replacement						-	-	-	-	-	-	-
06/05/00	11,075.4	291,131	0	55,419	Restart the system						-	-	-	-	-	-	-
06/14/00	11,131.6	291,188	6	55,474	<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	55,703	Shut down system for carbon replacement						-	-	-	-	-	-	-
07/17/00	0.0	291,418	-	55,703	Restart the system after carbon change, re-ripe and flowmeter change (starting at 0.0)						-	-	-	-	-	-	-
07/24/00	411.0	291,829	59	55,907	<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	55,920	-	-	-	-	-	-	-	-	-	-	-	-	
09/18/00	27,251.0	318,669	681	55,953	-	-	-	-	-	-	-	-	-	-	-	-	
10/16/00	54,280.0	345,698	901	96,155	<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	126,867	-	-	-	-	-	-	-	-	-	-	-	-	
11/27/00	79,870.0	371,288	545	172,239	-	-	-	-	-	-	-	-	-	-	-	-	
12/22/00	99,240.0	390,658	775	229,823	-	-	-	-	-	-	-	-	-	-	-	-	
01/17/01	101,250.0	392,668	77	233,018	<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	241,836	-	-	-	-	-	-	-	-	-	-	-	-	
03/30/01	195,400.0	486,818	1,465	252,385	-	-	-	-	-	-	-	-	-	-	-	-	
04/06/01	199,090.0	490,508	527	253,144	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	255,172	88	<0.18	<0.14	<0.18	<0.26	93	36,600	855	716	659	1,570	11,400	
04/27/01	210,640.0	502,058	513	256,263	System shut down for repair/replacement of compressor's pressure switch and exhaust valve						-	-	-	-	-	-	-
04/30/01	210,640.0	502,058	-	256,263	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	-	256,263	Replaced pressure switch on 5/7/01, system still off for carbon replacement.						-	-	-	-	-	-	-
05/21/01	210,640.0	502,058	-	256,263	Restart the system						-	-	-	-	-	-	-
05/30/01	226,830.0	518,248	1,799	263,289	<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	295,790	-	-	-	-	-	-	-	-	-	-	-	-	

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)	Total H-C Removed (lbs)	EFFLUENT (ug/L)						INFLUENT (ug/L)					
					TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE
07/11/01	310,010.0	601,428	3,565	341,855	<50	<0.18	<0.14	<0.18	<0.26	<0.24	162,000	<0.18	4,140	4,760	24,000	<0.24
08/17/01	441,270.0	732,688	3,548	518,940	-	-	-	-	-	-	-	-	-	-	-	-
09/28/01	488,310.0	789,728	1,358	595,894	-	-	-	-	-	-	-	-	-	-	-	-
10/03/01	503,930.0	795,348	1,124	600,424	<50	<0.18	<0.14	<0.18	<0.26	<0.24	31,600	<1.8	150	294	5,280	<2.4
11/12/01	664,700.0	956,118	4,019	642,733	-	-	-	-	-	-	-	-	-	-	-	-
12/28/01	706,300.0	997,718	904	653,680	-	-	-	-	-	-	-	-	-	-	-	-
01/11/02	721,050.0	1,012,468	1,054	657,562	System shut down for carbon replacement											
01/21/02	721,050.0	1,012,468	-	657,562	Restart the system											
02/01/02	731,320.0	1,022,738	934	658,963	<100	<0.3	<0.3	<0.3	<0.6	<5	1,172	1	1	1	6	<5
02/22/02	751,340.0	1,042,758	953	658,159	-	-	-	-	-	-	-	-	-	-	-	-
03/27/02	813,240.0	1,104,658	1,876	659,763	-	-	-	-	-	-	-	-	-	-	-	-
04/12/02	835,170.0	1,126,588	1,371	660,975	<50	<0.18	<0.14	<0.18	<0.26	<0.24	12,100	5	1	<0.18	<0.26	18,400
04/26/02	918,670.0	1,210,088	5,964	669,389	System shut down											
05/10/02	918,680.0	1,210,098	1	669,390	Restart											
05/17/02	928,670.0	1,220,088	1,427	670,397	-	-	-	-	-	-	-	-	-	-	-	-
06/07/02	971,240.0	1,262,958	2,027	674,686	<50	<0.18	<0.14	<0.18	<0.26	<0.24	-	-	-	-	-	-
06/28/02	1,012,150.0	1,303,568	1,948	678,809	-	-	-	-	-	-	-	-	-	-	-	-

WD PERMIT LIMITS:	NE	5.0	5.0	5.0	5.0	NE
--------------------------	-----------	------------	------------	------------	------------	-----------

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
 Total Hydrocarbons Removed = From 4/8/91 to 2/10/92, the influent TPHg is assumed to be 47,000 (3/9/92)

APPENDIX A



PROJECT STATUS REPORT
 THRIFTY OIL CO. S.S. #049
 3400 SAN PABLO AVENUE
 BELL, CA
 DATE: 05.17.02

OBSERVATION WELLS

NO.	DTW	DTP	PT	DTB	DIA.	ODORS			F/P		
						YES	NO	S	YES	NO	
MONTHLY											
MW-1	2.46			17.75	2"		X		X	-	-
MW-2	8.43			23.80	2"		X		X	-	-
MW-3	7.28			24.18	2"		X		X	-	-
MW-4	4.50			13.69	4"		X		X	-	-
MW-5	4.56			13.78	2"		X		X	-	-
MW-6	3.87			13.06	2"		X		X	-	-
MW-7	5.54			13.58	4"		X		X	-	-
RW-1	13.40			24.43	6"		X		X	-	-

EXPLANATION

DTW - DEPTH TO WATER FROM SURFACE	DTP - DEPTH TO PRODUCT FROM SURFACE
PT - PRODUCT THICKNESS	S - SLIGHT
MEASUREMENTS IN FEET	
REMARKS: <u>Monitoring wells</u>	
FREE PRODUCT REMOVED: APPROX. <u> </u> GALLONS	WATER REMOVED: APPROX. <u> </u> GALLONS
DATA RECORDED BY: <u>SFPB/dm</u>	INPUT BY: C.D.

THRIFTY OIL CO. SERVICE STATION #49
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBIA POPE JW

DATE OF INSPECTION: 05.17.02

OBSERVATIONS AND COMMENTS: Add oil, check belts, hoses, clean

water filter bag,

FLOW METER READING: -0928670-

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: 0.9

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

INSPECTOR'S SIGNATURE: [Signature]



DATE:

05.10.02

START-UP/SHUT DOWN REPORT

STATION NO.: 049

SYSTEM TYPE: G.W. CARBON

START-UP REPORT:

REPAIR SYSTEM, CHANGE OIL, CHECK BEUT,
REPLACE CARTRIDGE WATER FILTER, CHECK HOSES
CONNECTIONS,

FLOW # -0918680 -

SHUT DOWN REPORT:

SIGNATURE: [Signature]

EARTH MANAGEMENT CO.

Environmental Remediation



DATE: 04.26.02

START-UP/SHUT DOWN REPORT

STATION NO.: 049

SYSTEM TYPE: G.W. CARBON.

START-UP REPORT:

SHUT DOWN REPORT:

SHUT DOWN BECAUSE TECHICIAN TAKE
VACATION FROM 04.29. TO 05.03.02

SIGNATURE: [Signature]

049

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: BERNARD PODESU

DATE OF INSPECTION: 04.26.02

OBSERVATIONS AND COMMENTS: Add oil, clean water filter bag, replace cartridge water filter, check belt, hoses,

FLOW METER READING: -0918670-

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: 0.9

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

INSPECTOR'S SIGNATURE: [Signature]



PROJECT STATUS REPORT
 THRIFTY OIL CO. S.S. #049
 3400 SAN PABLO AVENUE
 BELL, CA
 DATE: 04.17.02

OBSERVATION WELLS

NO.	DTW	DTP	PT	DTB	DIA.	ODORS			F/P		
						YES	NO	S	YES	NO	
MONTHLY											
MW-1	2.42			17.75	2"		X		X	-	-
MW-2	8.45			23.78	2"		X		X	-	-
MW-3	7.31			24.18	2"		X		X	-	-
MW-4	4.51			13.69	4"		X		X	-	-
MW-5	4.58			13.78	2"		X		X	-	-
MW-6	3.86			13.06	2"		X		X	-	-
MW-7	5.53			13.56	4"		X		X	-	-
RW-1	14.30			24.41	6"		X		X	-	-

EXPLANATION

DTW - DEPTH TO WATER FROM SURFACE	DTP - DEPTH TO PRODUCT FROM SURFACE
PT - PRODUCT THICKNESS	S - SLIGHT
MEASUREMENTS IN FEET	
REMARKS: Q.W.S.	
FREE PRODUCT REMOVED: APPROX. _____ GALLONS	WATER REMOVED: APPROX. _____ GALLONS
DATA RECORDED BY: <u>Q. W. S.</u>	INPUT BY: C.D.

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	#049	Date:	04.17.02
Address:			
Personnel:	SERBATA,	Weather:	SUNNY DAY
Well No:	MW-1	Equip:	BATLIER

Before Purging:			
Total Well Depth: (ft.)	17.75	Well Diameter	2"
Depth to Water (ft)	2.42	Est. Purge Volume:	20

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	9:06	9:07	9:09	9:10	9:12	9:13	9:15
EC	1940	1970	2010	2020	2010	2020	2010
pH	6.13	6.11	6.04	6.13	6.11	6.13	6.11
Temp	73.1	72.8	72.7	72.6	72.6	72.4	72.3
Gal.	1	2	4	5	7	8	10
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	7.08
Total Well Depth(ft).	17.75

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u># 049</u>	Date: <u>04.17.02</u>
Address: _____	
Personnel: <u>SERBAM,</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>MU-2</u>	Equip: <u>BAPLERT</u>

Before Purging:			
Total Well Depth: (ft.)	<u>23.78</u>	Well Diameter	<u>24</u>
Depth to Water (ft)	<u>8.45</u>	Est. Purge Volume:	<u>10</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>10:37</u>	<u>10:37</u>	<u>10:39</u>	<u>10:40</u>	<u>10:42</u>	<u>10:43</u>	<u>10:45</u>
EC	<u>2420</u>	<u>2440</u>	<u>2480</u>	<u>2470</u>	<u>2480</u>	<u>2470</u>	<u>2480</u>
pH	<u>6.12</u>	<u>6.09</u>	<u>6.10</u>	<u>6.10</u>	<u>6.12</u>	<u>6.09</u>	<u>6.09</u>
Temp	<u>73.4</u>	<u>73.3</u>	<u>73.1</u>	<u>73.1</u>	<u>72.9</u>	<u>72.8</u>	<u>72.8</u>
Gal.	<u>1</u>	<u>2</u>	<u>4</u>	<u>5</u>	<u>7</u>	<u>8</u>	<u>10</u>
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	<u>10.20</u>	Total Well Depth(ft.)	<u>23.78</u>

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	# 049	Date:	04.17.02
Address:			
Personnel:	SERBAY,	Weather:	SUNNY DAY
Well No:	MW-3	Equip:	BAPLER

Before Purging:			
Total Well Depth: (ft.)	24.18	Well Diameter	2"
Depth to Water (ft)	7.31	Est. Purge Volume:	11

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	9:20	9:22	9:23	9:25	9:26	9:28	9:30
EC	1720	1690	1680	1690	1670	1620	1670
pH	6.01	5.99	5.98	5.87	5.81	5.87	5.85
Temp	73.1	72.8	72.8	72.6	72.4	72.3	72.3
Gal.	1	3	4	6	7	9	11
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	10.40	Total Well Depth(ft.)	24.18

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	# 049	Date:	04.17.02
Address:			
Personnel:	SERBAN,	Weather:	SUNNY DAY
Well No:	MW-4	Equip:	BAPLER

Before Purging:			
Total Well Depth: (ft.)	13.69	Well Diameter	4"
Depth to Water (ft)	4.51	Est. Purge Volume:	24

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	10:14	10:17	10:21	10:24	10:28	10:31	10:35
EC	2730	2700	2620	2640	2670	2630	2640
pH	6.32	6.38	6.34	6.30	6.28	6.23	6.21
Temp	73.1	72.8	72.8	72.6	72.4	72.4	72.3
Gal.	3	6	10	13	17	20	24
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	6.10	Total Well Depth(ft.)	13.69

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>064</u>	Date: <u>06.17.02</u>
Address: _____	
Personnel: <u>SERBAY</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>MW-5</u>	Equip: <u>BAICER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>13.78</u>	Well Diameter	<u>2"</u>
Depth to Water (ft)	<u>4.58</u>	Est. Purge Volume:	<u>6</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>8:54</u>	<u>8:55</u>	<u>8:56</u>	<u>8:57</u>	<u>8:58</u>	<u>8:59</u>	<u>9:00</u>
EC	<u>1920</u>	<u>1940</u>	<u>1950</u>	<u>1970</u>	<u>1960</u>	<u>1970</u>	<u>1970</u>
pH	<u>6.13</u>	<u>6.09</u>	<u>6.11</u>	<u>6.07</u>	<u>6.04</u>	<u>6.01</u>	<u>6.01</u>
Temp	<u>73.4</u>	<u>73.2</u>	<u>73.1</u>	<u>73.1</u>	<u>72.9</u>	<u>72.7</u>	<u>72.7</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>6.32</u>	Total Well Depth(ft).	<u>13.78</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	<u>H 069</u>	Date:	<u>04.17.02</u>
Address:			
Personnel:	<u>BERDA, </u>	Weather:	<u>SUNNY DAY</u>
Well No:	<u>MU-6</u>	Equip:	<u>BALCO</u>

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

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time							<u>9:40</u>
EC							
pH							
Temp							
Gal.							<u>6</u>
Time							
EC							
pH							
Temp							
Gal.							

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

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

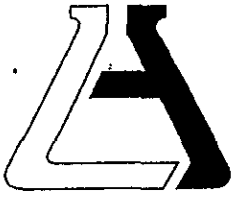
Site:	<u># 049</u>	Date:	<u>09.17.02</u>
Address:			
Personnel:	<u>SERBAM,</u>	Weather:	<u>SUNNY DAY</u>
Well No:	<u>MW-2</u>	Equip:	<u>BATLER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>13.56</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>6.53</u>	Est. Purge Volume:	<u>21</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>9:47</u>	<u>9:50</u>	<u>9:53</u>	<u>9:56</u>	<u>9:59</u>	<u>10:02</u>	<u>10:05</u>
EC	<u>2750</u>	<u>2710</u>	<u>2690</u>	<u>2670</u>	<u>2690</u>	<u>2670</u>	<u>2690</u>
pH	<u>6.32</u>	<u>6.38</u>	<u>6.32</u>	<u>6.23</u>	<u>6.21</u>	<u>6.23</u>	<u>6.21</u>
Temp	<u>73.4</u>	<u>73.2</u>	<u>73.1</u>	<u>72.9</u>	<u>72.9</u>	<u>72.8</u>	<u>72.8</u>
Gal.	<u>3</u>	<u>6</u>	<u>9</u>	<u>12</u>	<u>15</u>	<u>18</u>	<u>21</u>
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	<u>2.10</u>	Total Well Depth (ft.)	<u>13.56</u>

APPENDIX B



ASSOCIATED LABORATORIES

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

FAX 714/538-1209

CLIENT Thrifty Oil (8871)
ATTN: Jeff Suryakusuma
13116 Imperial Hwy.
P.O. Box 2128
Santa Fe Springs, CA 90670

LAB REQUEST 91598

REPORTED 05/03/2002

RECEIVED 04/18/2002

PROJECT Station #049
3400 San Pablo Ave., Oakland

SUBMITTER Client

COMMENTS Global ID: T0600101366

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>
344099	TOC #049, MW-5
344100	TOC #049, MW-1
344101	TOC #049, MW-3
344102	TOC #049, MW-6
344103	TOC #049, MW-7
344104	TOC #049, MW-4
344105	TOC #049, MW-2
344106	TOC #049, Trip Blank
344107	Laboratory Method Blank

I 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.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 344099

Client Sample ID: TOC #049, MW-5

Matrix: WATER

Date Sampled: 04/17/2002 Time Sampled: 13:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	04/23/02 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	04/23/02 HP
Methyl t - butyl ether	ND	1	5	0.24	ug/L	04/23/02 HP
Toluene	ND	1	0.3	0.14	ug/L	04/23/02 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	04/23/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	04/23/02 HP
----------	----	---	----	----	------	-------------

Surrogates	Units	Control Limits
a,a,a-Trifluorotoluene	100	% 70 - 130

Order #: 344100

Client Sample ID: TOC #049, MW-1

Matrix: WATER

Date Sampled: 04/17/2002 Time Sampled: 13:05

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	04/23/02 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	04/23/02 HP
Methyl t - butyl ether	ND	1	5	0.24	ug/L	04/23/02 HP
Toluene	ND	1	0.3	0.14	ug/L	04/23/02 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	04/23/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	04/23/02 HP
----------	----	---	----	----	------	-------------

Surrogates	Units	Control Limits
a,a,a-Trifluorotoluene	98	% 70 - 130

Order #: 344101

Client Sample ID: TOC #049, MW-3

Matrix: WATER

Date Sampled: 04/17/2002 Time Sampled: 13:10

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

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



8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L	04/23/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	04/23/02 HP
Methyl t - butyl ether	ND	1	5	0.24 ug/L	04/23/02 HP
Toluene	ND	1	0.3	0.14 ug/L	04/23/02 HP
Xylene (total)	ND	1	0.6	0.26 ug/L	04/23/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	04/23/02 HP
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	99			%	70 - 130

Order #:
 Matrix: WATER

Client Sample ID: TOC #049, MW-6
 Date Sampled: 04/17/2002 Time Sampled: 13:20

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L	04/23/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	04/23/02 HP
Methyl t - butyl ether	ND	1	5	0.24 ug/L	04/23/02 HP
Toluene	ND	1	0.3	0.14 ug/L	04/23/02 HP
Xylene (total)	ND	1	0.6	0.26 ug/L	04/23/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	04/23/02 HP
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	100			%	70 - 130

Order #:
 Matrix: WATER

Client Sample ID: TOC #049, MW-7
 Date Sampled: 04/17/2002 Time Sampled: 13:40

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

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



8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L	04/23/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	04/23/02 HP
Methyl t - butyl ether	58	1	5	0.24 ug/L	04/23/02 HP
Toluene	ND	1	0.3	0.14 ug/L	04/23/02 HP
Xylene (total)	ND	1	0.6	0.26 ug/L	04/23/02 HP

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	45	1	1	0.6 ug/L	05/01/02 LB
-------------------------------	----	---	---	----------	-------------

8015M - Total Petroleum Hydrocarbons

Gasoline	51	1	50	50 ug/L	04/23/02 HP
----------	----	---	----	---------	-------------

Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	100			%	70 - 130

Order #:
 Matrix: WATER

Client Sample ID: TOC #049, MW-4
 Date Sampled: 04/17/2002 Time Sampled: 13:50

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX + MTBE

Benzene	8.0	1	0.3	0.18 ug/L	04/23/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	04/23/02 HP
Methyl t - butyl ether	16,000	500	2500.0	0.24 ug/L	04/23/02 HP
Toluene	1.0	1	0.3	0.14 ug/L	04/23/02 HP
Xylene (total)	1.0	1	0.6	0.26 ug/L	04/23/02 HP

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	13,600	100	100.0	0.6 ug/L	05/02/02 LB
-------------------------------	--------	-----	-------	----------	-------------

8015M - Total Petroleum Hydrocarbons

Gasoline	12,900	50	2500.0	50 ug/L	04/23/02 HP
----------	--------	----	--------	---------	-------------

Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	111			%	70 - 130

Order #:
 Matrix: WATER

Client Sample ID: TOC #049, MW-2
 Date Sampled: 04/17/2002 Time Sampled: 13:55

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

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



8021B BTEX + MTBE

Benzene	1.0	1	0.3	0.18 ug/L	04/23/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	04/23/02 HP
Methyl t - butyl ether	2,460	50	250.0	0.24 ug/L	04/23/02 HP
Toluene	ND	1	0.3	0.14 ug/L	04/23/02 HP
Xylene (total)	ND	1	0.6	0.26 ug/L	04/23/02 HP

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	2,080	1	1	0.6 ug/L	05/01/02 LB
-------------------------------	-------	---	---	----------	-------------

8015M - Total Petroleum Hydrocarbons

Gasoline	1,470	1	50	50 ug/L	04/23/02 HP
----------	-------	---	----	---------	-------------

Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	127			%	70 - 130

Order #:
 Matrix: WATER

Client Sample ID: TOC #049, Trip Blank
 Date Sampled: 04/17/2002 Time Sampled: 13:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX

Benzene	ND	1	0.3	0.18 ug/L	04/23/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	04/23/02 HP
Toluene	1.0	1	0.3	0.14 ug/L	04/23/02 HP
Xylene (total)	ND	1	0.6	0.26 ug/L	04/23/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	04/23/02 HP
----------	----	---	----	---------	-------------

Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	100			%	70 - 130

Order #:
 Matrix: WATER

Client Sample ID: Laboratory Method Blank

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

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



8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L	04/23/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	04/23/02 HP
Methyl t - butyl ether	ND	1	5	0.24 ug/L	04/23/02 HP
Toluene	ND	1	0.3	0.14 ug/L	04/23/02 HP
Xylene (total)	ND	1	0.6	0.26 ug/L	04/23/02 HP

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	ND	1	1	0.6 ug/L	05/01/02 LB
-------------------------------	----	---	---	----------	-------------

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	04/23/02 HP
----------	----	---	----	---------	-------------

Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	99			%	70 - 130

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
 13116 Imperial Hwy.
 P.O. Box 2128
 Santa Fe Springs, CA 90670

Lab Request: 91598
 Date Received: 4/18/2002
 Print Date: 05/10/2002

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

Sample ID.	Gasoline	Benzene	Toluene	Ethyl benzene	Xylene (total)	MTBE	MTBE by EPA8260
Laboratory	ND	ND	ND	ND	ND	ND	ND
TOC #049,	ND	ND	ND	ND	ND	ND	
TOC #049,	1,470 ug/L	1.0 ug/L	ND	ND	ND	2,460 ug/L	2,080 ug/L
TOC #049,	ND	ND	ND	ND	ND	ND	
TOC #049,	12,900 ug/L	8.0 ug/L	1.0 ug/L	ND	1.0 ug/L	16,000 ug/L	13,600 ug/L
TOC #049,	ND	ND	ND	ND	ND	ND	
TOC #049,	ND	ND	ND	ND	ND	ND	
TOC #049,	51 ug/L	ND	ND	ND	ND	58 ug/L	45 ug/L
TOC #049, Trip	ND						

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

ASSOCIATED LABORATORIES
LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Water Samples

Analysis Date: 05/01/02

Applies to: LR 91598

Reporting Units = ug/L

Lab Controlled Spike / Lab Controlled Spike Duplicate

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	42.43	47.57	85	95	11	22	59-172
MTBE	ND	50	52.39	57.71	105	115	10	24	62-137
Benzene	ND	50	45.83	50.50	92	101	10	24	62-137
Trichloroethene	ND	50	42.86	45.34	86	91	6	21	66-142
Toluene	ND	50	45.08	48.18	90	96	7	21	59-139
Chlorobenzene	ND	50	44.83	47.94	90	96	7	21	60-133

Method Blank = All ND

*Outside QC limits

SURROGATE QC LIMIT: 70-135	DBFM	1,2-DCA	Tol-d8	p-BFB
LCS	102	97	97	98
LCSD	94	97	96	98
BLANK # 6	105	95	102	114

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 91589-856

Matrix: WATER

Prep. Date: 04/23/02

Analysis Date: 4/23/02-4/24/02

LAB ID#'s in Batch: LR 91618, 91625, 91734, 91598

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	8.8	8.7	88	87	1
Toluene	8021	ND	10	9.1	9.1	91	91	0
Ethylbenzene	8021	ND	10	11.1	11.1	111	111	0
Xylenes	8021	ND	20	20.2	20.3	101	102	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. BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
Benzene	8021	ND	8.7	10	87	80%	120%
Toluene	8021	ND	8.9	10	89	80%	120%
Ethylbenzene	8021	ND	10.9	10	109	80%	120%
Xylenes	8021	ND	19.8	20	99	80%	120%

LCS = Lab Control Sample Result

TRUE = True Value of LCS

L.LIMIT / H.LIMIT = LCS Control Limits

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	70-130
QA Sample	100
MS	108
MSD	107
Method Blank	99
LCS	105

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 91533-547

Matrix: WATER

Prep. Date: 04/24/02

Analysis Date: 4/24/02-4/25/02

ID#'s in Batch: LR 91598, 91678, 91679

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	250	275	242	110	97	13

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 BLK		Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	214	200	107	80%	120%	

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	70-130
QA Sample	100
MS	121
MSD	121
Method Blank	99
LCS	119

AAA-TFT = a,a,a-Trifluorotoluene

Chain of Custody Record

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. 91598		Page 1 of 1					
Project Manager JEFF BURYAKOSUMA		Fax (562) 921-7510		Analysis Requested				Test Instructions & Comments			
Project Name R. W. S.		Project # 049									
Site Name and Address 3400 SAN PABLO AVE. OAKLAND, CA. 94612				T B M P T T H E B X E				TO600101366 * CONFIRM BY EPA METHOD 8260 B			
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.					
1 MW-5		04.17.02	13:00	H ₂ O	3VOA	HCL	X	X	X		
2 MW-1			13:05				X	X	X		
3 MW-3			13:10				X	X	X		
4 MW-6			13:20				X	X	X		
5 MW-7			13:40				X	X	X		
6 MW-4			13:50				X	X	X		
7 MW-2			13:55				X	X	X		
8 TRIP BLANK			13:00		2VOA		X	X			
9											
10											
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		Properly Cooled Y/N/NA		Signature: <i>[Signature]</i>		Signature: <i>[Signature]</i>		Signature:	
Custody Seals Y/N/NA		Samples Intact Y/N/NA		Printed Name: SERBAPOPFEXU		Printed Name:		Printed Name:	
Received in Good Condition Y/N		Samples Accepted Y/N		Date: 04.17.02 Time: 17:00		Date: Time:		Date: Time:	
Turn Around Time				Received By: 1.		Received By: 2.		Received By: 3.	
<input checked="" type="checkbox"/> Normal		<input type="checkbox"/> Rush		Signature: <i>[Signature]</i>		Signature: <i>[Signature]</i>		Signature:	
<input type="checkbox"/> Same Day		<input type="checkbox"/> 48 hrs.		Printed Name: <i>[Signature]</i>		Printed Name: <i>[Signature]</i>		Printed Name:	
<input type="checkbox"/> 24 hrs.		<input type="checkbox"/> 72 hrs.		Date: Time:		Date: 4/18 Time: 10:50		Date: 4-19 Time: 10:30	

APPENDIX C

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBA POPE JW

DATE OF INSPECTION: 06.28.02

OBSERVATIONS AND COMMENTS: Add oil, replace cartridge water filters
clean water filter bag, check drums, hoses,

FLOW METER READING: -1012150 -

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: 0.9

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

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

INSPECTOR'S SIGNATURE: [Signature]

049

THRIFTY OIL CO. SERVICE STATION #049
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBATAPOFFSU

DATE OF INSPECTION: 06.21.02

OBSERVATIONS AND COMMENTS: Add oil, check belt, hoses, replace cartridge water filter, clean water filter bag

FLOW METER READING: -0996420-

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: 1.1

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]

049

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: BERNARD POPESCU

DATE OF INSPECTION: 06.14.02

OBSERVATIONS AND COMMENTS: Add oil, check water filter bag,
check connections between hoses, replace
cartridge water filter,

FLOW METER READING: -0978320-

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 1.3

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 1.1

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 #

049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAPOPOW

DATE OF INSPECTION: 06.07.02

OBSERVATIONS AND COMMENTS: Add oil, check belt, replace cartridge
water filter, clean water filter bag
Inspector on 06:03:02 take water sampling from
OUTLET from this system

FLOW METER READING: -0971240-

SAMPLES OBTAINED: 4/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 14

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 12

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 11

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 10

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

INSPECTOR'S SIGNATURE: [Signature]

049

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 05.31.02

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

FLOW METER READING: -0991030-

SAMPLES OBTAINED: NA

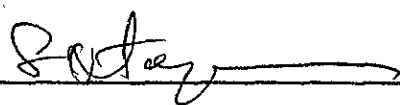
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 14

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 12

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

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: 

049

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAPODASU

DATE OF INSPECTION: 05-24-02

OBSERVATIONS AND COMMENTS: Add oil, check belts, replace cartridge water filter,

FLOW METER READING: - 0943240 -

SAMPLES OBTAINED: HA

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: 1.0

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: S. Podasu

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SEPBAFOPEW

DATE OF INSPECTION: 04.19.02

OBSERVATIONS AND COMMENTS: Add oil, clean water filter bag, replace cartridge water filter, check belt, hoses -

FLOW METER READING: -0853940-

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: 0.8

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

INSPECTOR'S SIGNATURE: [Signature]

THRIFTY OIL CO. SERVICE STATION (049)

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBA ADPFDU

DATE OF INSPECTION: 06.12.02

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

FLOW METER READING: -0.835170-

SAMPLES OBTAINED: Yes

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: 0.8

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

INSPECTOR'S SIGNATURE: [Signature]

THRIFTY OIL CO. SERVICE STATION #649

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBIAPOPEW

DATE OF INSPECTION: 04-05-02

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

FLOW METER READING: - 0824350 -

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 1.8

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 1.0

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

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 #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBIM POPESCU

DATE OF INSPECTION: 03.27.02

OBSERVATIONS AND COMMENTS: Add oil, check belt, hoses, clean water filter bag, replace cartridge water filter,

FLOW METER READING: -0813240-

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13.

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

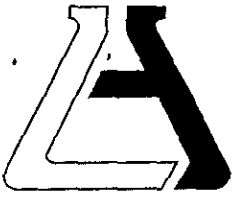
PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.0

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

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.4

INSPECTOR'S SIGNATURE: R. Popescu

APPENDIX D



ASSOCIATED LABORATORIES

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

FAX 714/538-1209

CLIENT Thrifty Oil (8871)
ATTN: Jeff Suryakusuma
13116 Imperial Hwy.
P.O. Box 2128
Santa Fe Springs, CA 90670

LAB REQUEST 93991
REPORTED 06/05/2002
RECEIVED 06/04/2002

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.

355976

355977

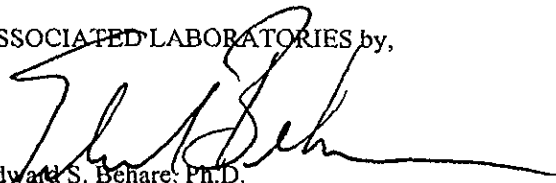
Client Sample Identification

TOC #049, PSP1 Outlet

Laboratory Method Blank

I 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.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 355976

Client Sample ID: TOC #049, PSP1 Outlet

Matrix: WATER

Date Sampled: 06/03/2002 Time Sampled: 10:10

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
---------	--------	----	-----	-----------	--------------

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L	06/05/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	06/05/02 HP
Methyl t - butyl ether	ND	1	5	0.24 ug/L	06/05/02 HP
Toluene	ND	1	0.3	0.14 ug/L	06/05/02 HP
Xylene (total)	ND	1	0.6	0.26 ug/L	06/05/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	06/05/02 HP
----------	----	---	----	---------	-------------

Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	104	%	70 - 130

Order #: 355977

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
---------	--------	----	-----	-----------	--------------

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L	06/05/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	06/05/02 HP
Methyl t - butyl ether	ND	1	5	0.24 ug/L	06/05/02 HP
Toluene	ND	1	0.3	0.14 ug/L	06/05/02 HP
Xylene (total)	ND	1	0.6	0.26 ug/L	06/05/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	06/05/02 HP
----------	----	---	----	---------	-------------

Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	103	%	70 - 130

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 93907-634

Matrix: WATER

Prep. Date: 06/05/02

Analysis Date: 6/05/02-6/06/02

ID#'s in Batch: LR 93991, 93992, 93963, 93980

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	175	177	88	89	1

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 BLK					
	Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	183	200	92	80%	120%

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	70-130
QA Sample	107
MS	87
MSD	87
Method Blank	103
LCS	87

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 93907-634
 Matrix: WATER
 Prep. Date: 06/04/02
 Analysis Date: 6/04/02-6/05/02
 LAB ID#'s in Batch: LR 93962, 93991, 93992

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	10.3	10.0	103	100	3
Toluene	8021	ND	10	10.3	10.0	103	100	3
Ethylbenzene	8021	ND	10	11.8	11.5	118	115	3
Xylenes	8021	ND	20	21.9	21.4	110	107	2

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. BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
Benzene	8021	ND	10.2	10	102	80%	120%
Toluene	8021	ND	10.3	10	103	80%	120%
Ethylbenzene	8021	ND	11.8	10	118	80%	120%
Xylenes	8021	ND	21.9	20	110	80%	120%

LCS = Lab Control Sample Result

TRUE = True Value of LCS

L.LIMIT / H.LIMIT = LCS Control Limits

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	70-130
QA Sample	107
MS	114
MSD	113
Method Blank	106
LCS	113

AAA-TFT = a,a,a-Trifluorotoluene

Cooler Receipt Form

Client: Thrifty oil Project: TOC 049
Cooler Received: 6/4 Cooler Opened: 6/4 By: Romy W
Signed: [Signature]

Was cooler scanned for presence of radioactivity, and noted if found? Yes / No

Were custody seals present on outside of cooler? Yes / No

a: If Yes, were they intact? Yes / No

b: Were signature and date correct? Yes / No

Were custody papers completely filled out? Yes / No

Did you sign and date the custody papers in the appropriate place? Yes / No

Was a shippers packing slip attached to the cooler? Yes / No

What kind of packing material was used? ice

Was sufficient ice used? Yes / No Temperature: 2.5°C Date: 6/4

Were all bottles sealed in plastic bags? Yes / No

Did all bottles arrive intact? Yes / No

Were all bottles labeled correctly? (ID, Analysis, Dates, Times) Yes / No

Were the correct containers included for the tests required? Yes / No

Were all VOA vials checked for headspace? NA / Yes / No

Was sufficient volume of sample sent in all containers? Yes / No

Were correct preservatives used? Yes / No

Approved by: [Signature] Date: 6/4

If not approved: Name of person contacted _____ Date: _____

Chain of Custody Record

ASSOCIATED LABORATORIES

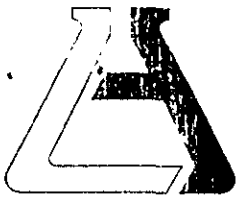
806 North Batavia • Orange, CA 92868
 Phone: (714) 771-6900 • Fax: (714) 538-1209



Company: THRIFTY OIL CO.		Phone: (562) 921-3581		A.L. Job No. 93991		Page 1 of 1			
Project Manager: JEFF SURYAKUSUMA		Fax: (562) 921-7510		Analysis Requested				Test Instructions & Comments	
Project Name: System Sampling		Project #: 049		TBM PIT HX HX HX					
Site Name and Address: 3400 SAN PABLO AVE OAKLAND, CA 94612									
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.			
1 PSP/OUTLET		06.03.02	10:10	H₂O	3 UOH	HCL	X	X	X
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

Sample Receipt - To Be Filled By Laboratory				Relinquished by Sampler: 1. JERBAH		Relinquished by 2. GOLDEN STATE		Relinquished by 3.	
Total Number of Containers	3	Properly Cooled Y/N/NA		Signature:		Signature:		Signature:	
Custody Seals Y/N/NA	Y	Samples Intact Y/N/NA		Printed Name:	JERBAH	Printed Name:		Printed Name:	
Received in Good Condition Y/N	Y	Samples Accepted Y/N		Date:	06.03.02	Time:	17:00	Date:	
Turn Around Time				Received By: 1. GOLDEN STATE		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:	
		<input type="checkbox"/> 24 hrs.	<input type="checkbox"/> 72 hrs.	Printed Name:	DUNAW	Printed Name:		Printed Name:	
				Date:	6/4	Time:	10:15	Date:	

Nov 6/4 10:15



ASSOCIATED LABORATORIES

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

1.07367
RECEIVED

MAY 08 2002

ENVIRONMENTAL

FAX 714/538-1209

CLIENT Thrifty Oil (8871)
ATTN: Jeff Suryakusuma
13116 Imperial Hwy.
O. Box 2128
Santa Fe Springs, CA 90670

LAB REQUEST 91320
REPORTED 04/22/2002
RECEIVED 04/15/2002

PROJECT Station #049

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>
341914	TOC 049 OUTLET PSP #1
341915	TOC 049 INT 1
341916	TOC 049 INT 2
341917	TOC 049 INT 3
341918	TOC 049 INLET
341919	Laboratory Method Blank

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.

The reports and data generated by Associated Laboratories are confidential property of our clients and may not be used for publication in part or in full without our written permission. For the mutual protection of the public, our clients and ourselves

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 341914

Client Sample ID TOC 049 OUTLET PSP #1

Matrix: WATER

Date Sampled: 04/12/2002 Time Sampled: 10:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	04/17/02 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	04/17/02 HP
Methyl t-butyl ether	ND	1	5	0.24	ug/L	04/17/02 HP
Toluene	ND	1	0.3	0.14	ug/L	04/17/02 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	04/17/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	04/17/02 HP
Surrogates					Units	Control Limits
a,a,a-trifluorotoluene	100				%	70 - 130

Order #: 341915

Client Sample ID TOC 049 INT 1

Matrix: WATER

Date Sampled: 04/12/2002 Time Sampled: 10:10

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	04/17/02 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	04/17/02 HP
Methyl t-butyl ether	ND	1	5	0.24	ug/L	04/17/02 HP
Toluene	ND	1	0.3	0.14	ug/L	04/17/02 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	04/17/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	04/17/02 HP
Surrogates					Units	Control Limits
a,a,a-trifluorotoluene	100				%	70 - 130

Order #: 341916

Client Sample ID TOC 049 INT 2

Matrix: WATER

Date Sampled: 04/12/2002 Time Sampled: 10:20

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

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



8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L	04/17/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	04/17/02 HP
Methyl t-butyl ether	ND	1	5	0.24 ug/L	04/17/02 HP
Toluene	ND	1	0.3	0.14 ug/L	04/17/02 HP
Xylene (total)	2.0	1	0.6	0.26 ug/L	04/17/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	254	1	50	50 ug/L	04/17/02 HP
Surrogates				Units	Control Limits
m,p,a-trifluorotoluene	109			%	70 - 130

Order #: 341917	Client Sample ID: TOC 049 INT 3					
Matrix: WATER	Date Sampled: 04/12/2002 Time Sampled: 10:30					
Analyte	Result	DF	PQL	MDL	Units	Date/Analyst

8021B BTEX + MTBE

Benzene	15	1	0.3	0.18 ug/L	04/17/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	04/17/02 HP
Methyl t-butyl ether	4,910	100	500.0	0.24 ug/L	04/17/02 HP
Toluene	ND	1	0.3	0.14 ug/L	04/17/02 HP
Xylene (total)	ND	1	0.6	0.26 ug/L	04/17/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	2,750	1	50	50 ug/L	04/17/02 HP
Surrogates				Units	Control Limits
m,p,a-trifluorotoluene	104			%	70 - 130

Order #: 341918	Client Sample ID: TOC 049 INLET					
Matrix: WATER	Date Sampled: 04/12/2002 Time Sampled: 10:40					
Analyte	Result	DF	PQL	MDL	Units	Date/Analyst

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



8021B BTED - MTBE

Benzene	5.0	1	0.3	0.18 ug/L	04/17/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	04/17/02 HP
Methyl t-butyl ether	18,400	500	2500.0	0.24 ug/L	04/17/02 HP
Toluene	1.0	1	0.3	0.14 ug/L	04/17/02 HP
Xylene (total)	ND	1	0.6	0.26 ug/L	04/17/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	12,100	100	5000.0	50 ug/L	04/17/02 HP
Surrogates				Units	Control Limits
a,a,d-trifluorotoluene	103			%	70 - 130

Order #: 341919

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTED - MTBE

Benzene	ND	1	0.3	0.18 ug/L	04/17/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	04/17/02 HP
Methyl t-butyl ether	ND	1	5	0.24 ug/L	04/17/02 HP
Toluene	ND	1	0.3	0.14 ug/L	04/17/02 HP
Xylene (total)	ND	1	0.6	0.26 ug/L	04/17/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	04/17/02 HP
Surrogates				Units	Control Limits
a,a,d-trifluorotoluene	101			%	70 - 130

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



ASSOCIATED LABORATORIES

806 North Bataavia • Orange, CA 92868

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

Chain of Custody Record

Company **THRIFTY OIL CO.** Phone **(562) 921-3581**
 Project Manager **JEFF SURYAKOSUMA** Fax **(562) 921-7510**
 Project Name _____ Project # **049 ✓**
 Site Name and Address _____

A.L. Job No. **91320 ✓** Page _____ of _____

Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	Analysis Requested			Test Instructions & Comments
							T P H	B T E X	M T B E	
1 OUTLET P3A1		04.12.02	10:00	H₂O	3 VOA	HCL	X	X	X	GRAB SAMPLE
2 INT 1		↑	10:10	↑	↑	↑	X	X	X	
3 INT 2		↓	10:20	↓	↓	↓	X	X	X	
4 INT 3		↓	10:30	↓	↓	↓	X	X	X	
5 INLET		↓	10:40	↓	↓	↓	X	X	X	
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Sample Receipt - To Be Filled By Laboratory				Relinquished by Sampler: SERBATA P¹	Relinquished by GOLDFIN STATE²	Relinquished by 3.
Total Number of Containers	15	Properly Cooled Y/N/NA		Signature: [Signature]	Signature:	Signature:
Custody Seals Y/N/NA	Y	Samples Intact Y/N/NA		Printed Name: SERBATA P. SERBATA	Printed Name:	Printed Name:
Received in Good Condition Y/N	Y	Samples Accepted Y/N		Date: 04.12.02 Time: 17:00	Date: _____ Time: _____	Date: _____ Time: _____
Turn Around Time				Received By: GOLDFIN STATE	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:	Signature: [Signature]	Signature:
				Printed Name:	Printed Name: [Name]	Printed Name:
				Date: _____ Time: _____	Date: 4/15 Time: 9:10	Date: 4-15 Time: 1:30