

THRIFTY OIL CO.

Ro-005

October 28, 2002

Ms. Eva Chu
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay parkway, 2nd Floor
Alameda, CA 94502

O.32621
Local #3871
RWQCB #01-1479
Global ID #T0600101366
Confirmation #2202928364

RE: **Former Thrifty Oil Co. Station #063**
ARCO Products Company Station 39542
6125 Telegraph Avenue
Oakland, CA 94609
3rd Quarter 2002, Status Report

Alameda County
NOV 04 2002
Environmental Health

Dear Ms. Chu:

Presented herewith is the Third Quarter 2002, Status Report for former Thrifty Oil Co. Station #063 located at 6125 Telegraph 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

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



THRIFTY OIL CO.

October 28, 2002

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Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
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Local #3871
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RE: **Former Thrifty Oil Co. Station #063**
ARCO Products Company Station #9542
6125 Telegraph Avenue
Oakland, CA
3rd Quarter 2002, Status Report

Dear Ms. Chu:

Presented herein is the Third Quarter 2002, Status Report prepared for former Thrifty Oil Co. (Thrifty) Station #063 located at 6125 Telegraph Avenue, Oakland, California (**Figure 1**). This report presents the results of the site monitoring and remedial activities in the third quarter 2002. Thrifty has retained the services of Earth Management Company (EMC) to conduct quarterly monitoring and sampling, and remedial system monitoring activities at this site.

Groundwater Monitoring

Depth to groundwater is measured in each monitoring well on a quarterly basis. In general, groundwater occurred beneath the station at depths ranging from 13.86 feet below surface grade (bsg) in monitoring well MW-6 to 16.71 feet bsg in monitoring well MW-1 on July 24, 2002. A groundwater elevation contour map based on the July 24, 2002 data is presented in **Figure 2**. The groundwater flow is generally radial towards MW-1 with a gradient ranging from approximately 0.06 to 0.07 feet/foot.

Quarterly Groundwater Sampling

As part of the ongoing groundwater-monitoring program, groundwater samples were obtained from monitoring wells MW-1, MW-4, MW-5, and MW-6 on July 24, 2002. Recovery well MW-3 was sampled on July 8, 2002 as an influent stream into the groundwater remediation system. Groundwater samples were obtained by EMC and delivered in a chilled state following strict Chain-of-Custody procedures to a state-certified laboratory. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA methods 8015M and 8021B. Laboratory 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**. TPH-g, benzene, and MTBE isoconcentration maps results are presented in **Figures 3, 4, and 5**, respectively. Laboratory results indicate the highest concentrations of TPH-g, and MTBE were in monitoring well MW-4, with concentrations of



17,400 ug/L and 21,800 ug/L, respectively. Benzene was not detected in any of the groundwater wells. The isoconcentration maps did not incorporate data from the treatment system influent, even though the groundwater is pumped solely from well MW-3, because it was not sampled on the same day as the other wells. The influent water laboratory results from recovery well MW-3 collected on July 8, 2002 indicate TPH-g concentrations of 5,560 ug/L TPH-g and 8,550 ug/L MTBE.

Remediation Status

Site remedial activities were initiated in April 1991. Presently, the remediation system consists of a Groundwater Treatment System that extracts groundwater from monitoring well MW-3 with treatment utilizing activated carbon. System operational data is included in **Table 2** and **Appendix C**. During this reporting period, the groundwater treatment system processed approximately 57,360 gallons of groundwater (from August 16 through September 30, 2002), and has treated approximately 1,904,849 gallons of groundwater since start up (April 1991) through September 2002. The system was non-operational from July 29 through August 16, 2002 due to carbon change out. The system operated from August 16 through September 30, 2002.

Inlet, intermediate 3, intermediate 2, and intermediate 1, water samples were collected on July 8, 2002. Outlet Water samples were collected on July 8 and September 20, 2002. The samples collected by EMC were sent to a state certified laboratory for analysis. The samples collected on July 8, 2002, were analyzed for TPH-g, BTEX, and MTBE by EPA methods 8015 and 8021B, and the outlet sample collected on September 20, 2002 was analyzed for EPA methods 8015-g and 624. All Outlet sample constituents were below the laboratory detection limit. Copies of the laboratory analytical reports are included in **Appendix D**.

Other Activities

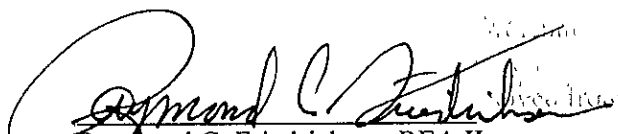
With the high concentration of petroleum hydrocarbons in well MW-4, Thrifty proposes to connect well MW-4 to the existing remediation system to enhance the reduction of the petroleum hydrocarbons in the groundwater. Once approval is received from the ACHCS, Thrifty will complete this work.

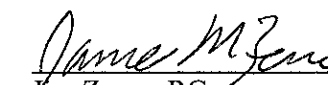
The groundwater monitoring wells and the treatment unit will be monitored and sampled during the next quarter. All site monitoring/sampling data generated during the next quarter will be reported in the Fourth Quarter 2002 monitoring report.

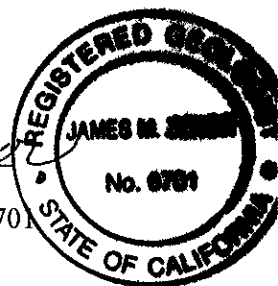
All interpretations expressed in this report are based solely upon the review of data collected by EMC, and Associated Laboratories.

Written by:

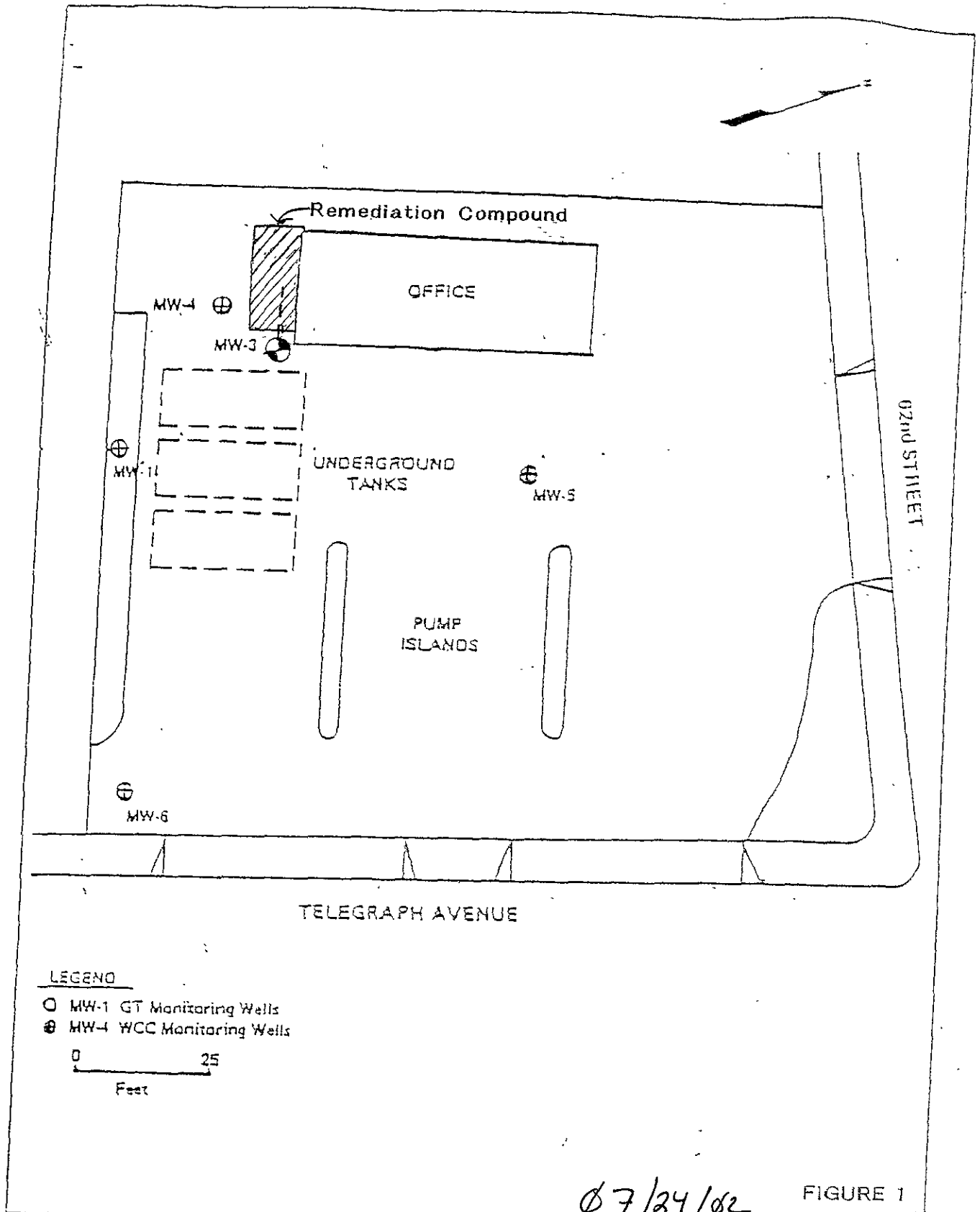
Reviewed by:


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

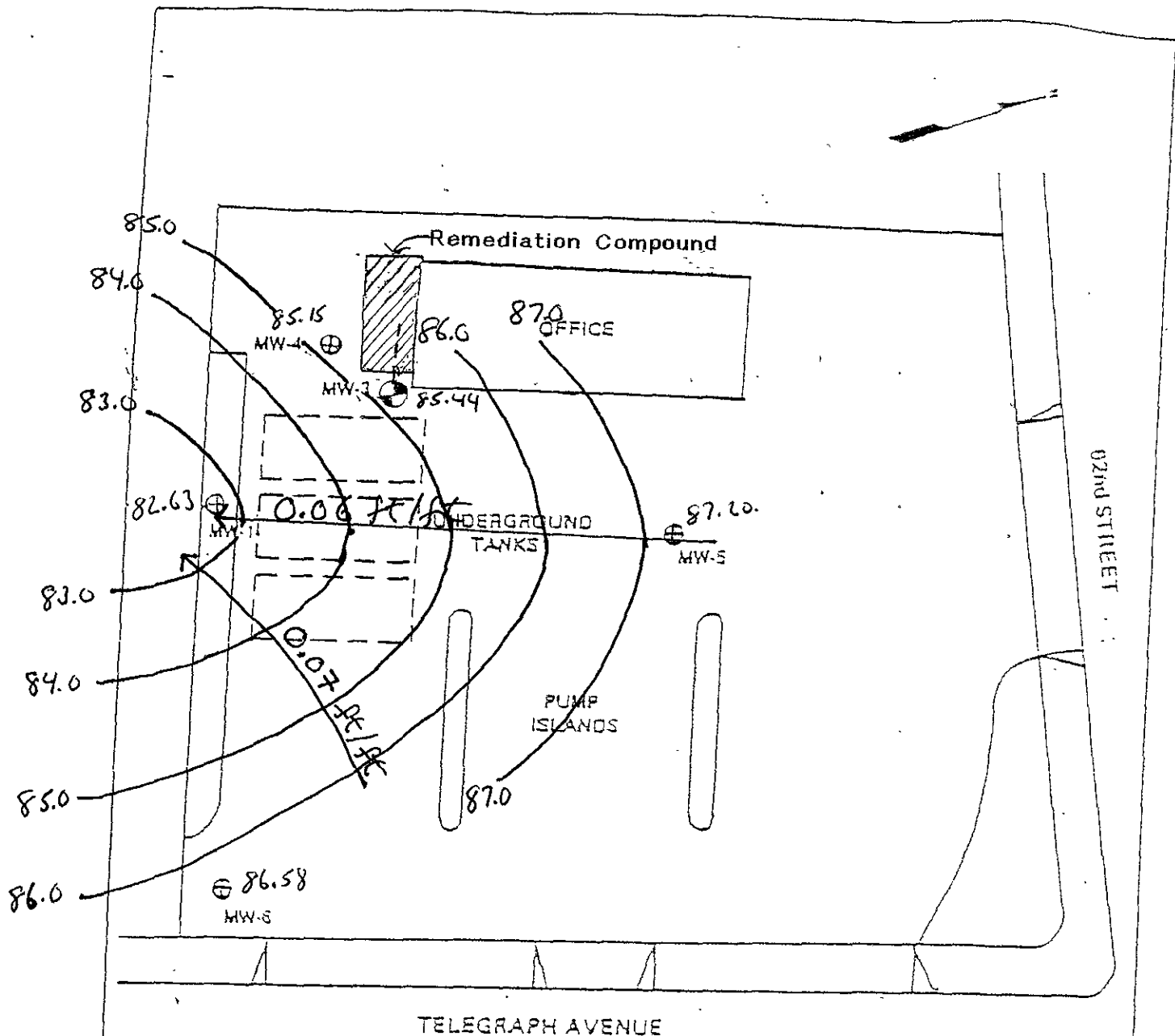

Jim Zenor, RG
Registered Geologist #6701



FIGURES



SITE PLAN AND RECOVERY SYSTEM
 THRIFTY SERVICE STATION NO. 63
 6125 TELEGRAPH AVE.
 OAKLAND, CA



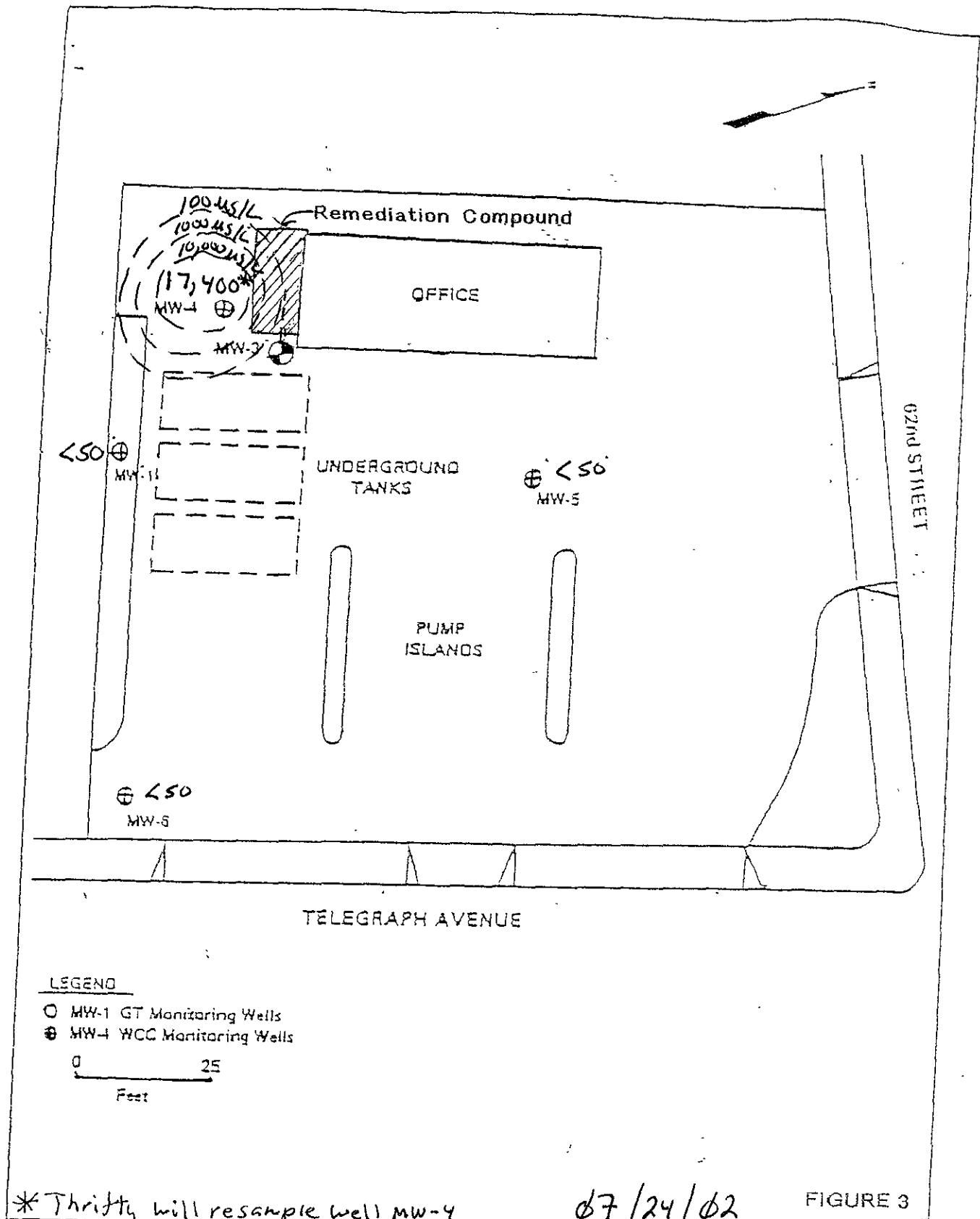
LEGEND
 ○ MW-1 GT Monitoring Wells
 ⊕ MW-4 WCC Monitoring Wells

0 ——— 25
 Feet

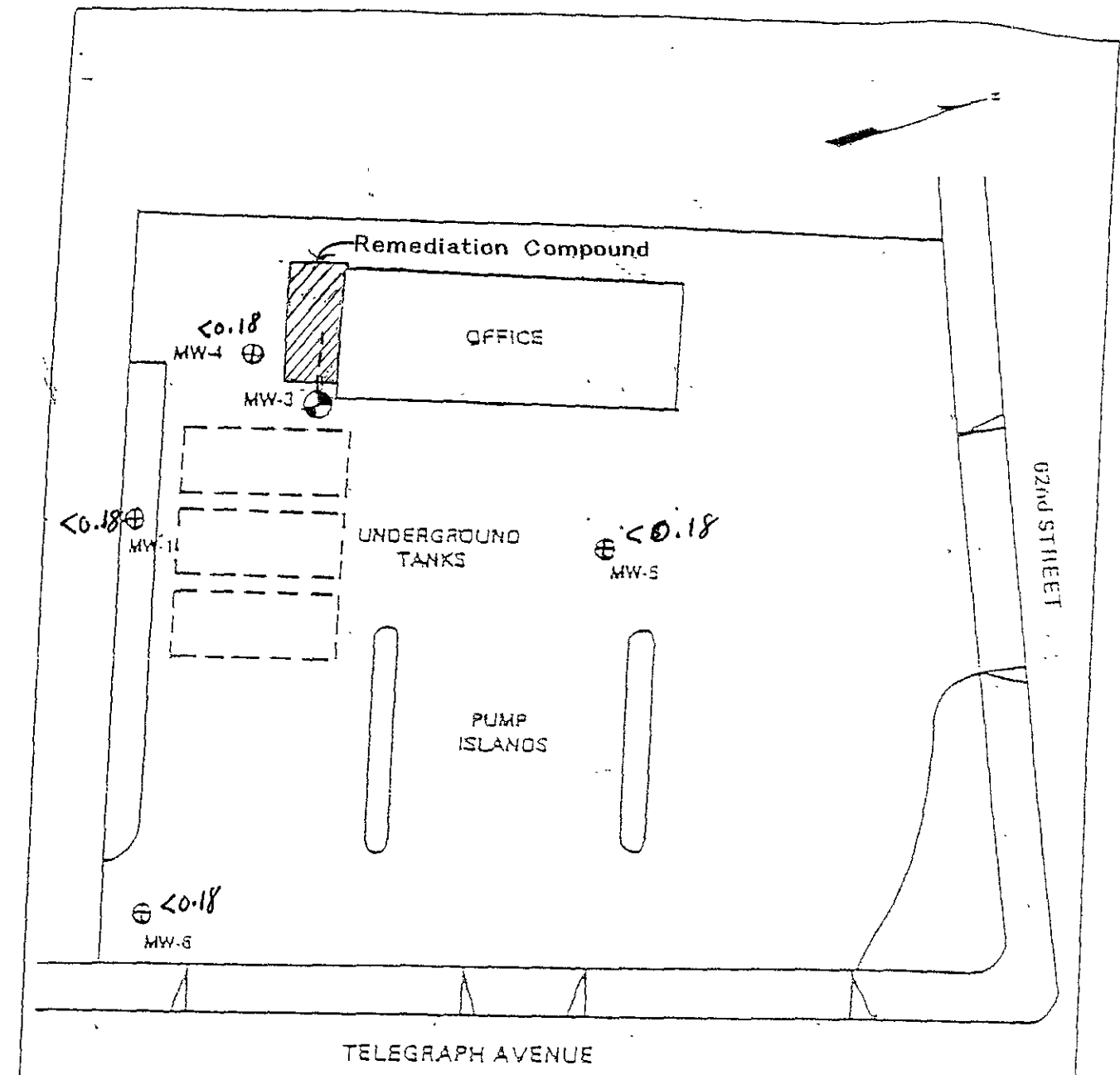
07/24/02

FIGURE 2

Groundwater Contour Map
 THRIFTY SERVICE STATION NO. 63
 6125 TELEGRAPH AVE.
 OAKLAND, CA



TPH-g Isoconcentration Map ug/L
 THRIFTY SERVICE STATION NO. 63
 6125 TELEGRAPH AVE.
 OAKLAND, CA

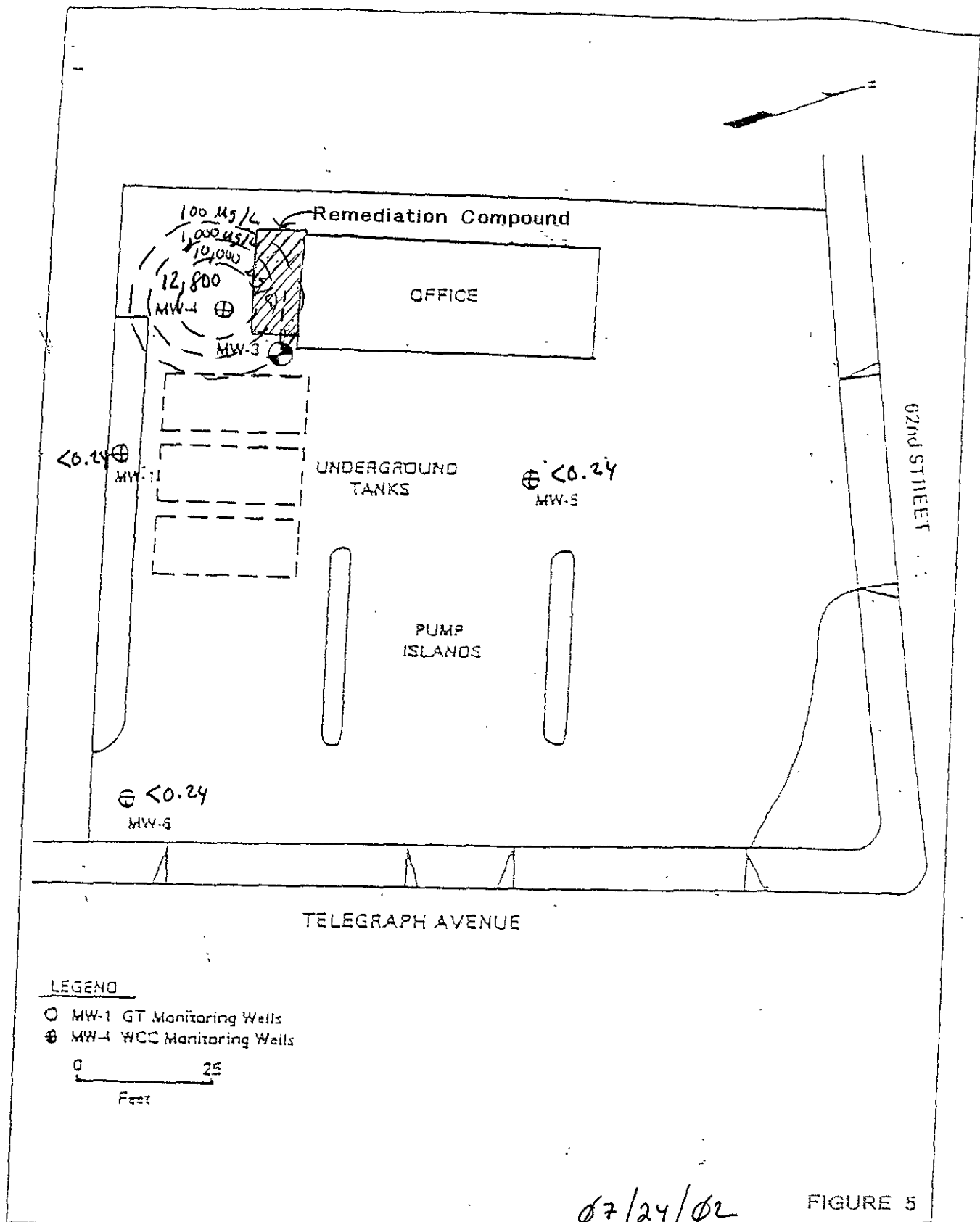


LEGEND
 ○ MW-1 GT Monitoring Wells
 ⊕ MW-4 WCC Monitoring Wells
 0 25
 Feet

07/24/02

FIGURE 4

Benzene Isoconcentration Map ug/L
 THRIFTY SERVICE STATION NO. 63
 6125 TELEGRAPH AVE.
 OAKLAND, CA



MTBE Isoconcentration Map ug/L
 THRIFTY SERVICE STATION NO. 63
 6125 TELEGRAPH AVE.
 OAKLAND, CA

TABLES

**TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #063, 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											
11/21/86	-	-	-	-	-	-	15.42	NP	0.00	99.34	83.92
07/22/91	-	-	-	-	-	-	20.41	FILM	0.00	99.34	78.93
10/24/91	-	-	-	-	-	-	19.06	SHEEN	0.00	99.34	80.28
01/22/92	-	-	-	-	-	-	18.78	SHEEN	0.00	99.34	80.56
03/24/92	-	-	-	-	-	-	13.55	SHEEN	0.00	99.34	85.79
07/15/92	-	-	-	-	-	-	18.90	FILM	0.00	99.34	80.44
10/05/92	-	-	-	-	-	-	20.50	FILM	0.00	99.34	78.84
01/06/93	-	-	-	-	-	-	14.93	FILM	0.00	99.34	84.41
07/13/93	-	-	-	-	-	-	15.44	FILM	0.00	99.34	83.90
10/11/93	-	-	-	-	-	-	20.36	FILM	0.00	99.34	78.98
01/11/94	-	-	-	-	-	-	19.50	FILM	0.00	99.34	79.84
04/12/94	-	-	-	-	-	-	18.10	FILM	0.00	99.34	81.24
07/14/94	-	-	-	-	-	-	20.03	FILM	0.00	99.34	79.31
01/15/96	11,000	2,800	150	780	770	-	19.02	NP	0.00	99.34	80.32
04/15/96	17,000	3,600	330	1,500	3,400	-	18.82	NP	0.00	99.34	80.52
07/15/96	12,000	1,300	200	1,200	4,600	250	-	NP	-	-	-
10/09/96	-	-	-	-	-	-	14.87	NP	0.00	99.34	84.47
01/13/97	27,000	810	6,000	570	4,100	2,700	10.20	NP	0.00	99.34	89.14
04/14/97	2,900	3.0	2.9	<0.3	1.7	9,900	-	NP	-	-	-
07/07/97	5,200	0.57	0.57	<0.3	0.71	16,000	18.75	NP	0.00	99.34	80.59
10/16/97	680	<0.3	0.55	<0.3	<0.5	-	17.92	NP	0.00	99.34	81.42
01/07/98	42,000	980	2,800	1,200	5,200	1.3	9.80	NP	0.00	99.34	89.54
04/06/98	7,100	700	340	170	2,600	1,000	9.60	NP	0.00	99.34	89.74
07/14/98	19,000	2,100	400	890	5,800	1,600	13.70	NP	0.00	99.34	85.64
10/15/98	490	<0.3	<0.3	<0.3	<0.5	1,300	15.25	NP	0.00	99.34	84.09
01/20/99	350	<0.3	<0.3	<0.3	<0.5	* 670 / 820	12.20	NP	0.00	99.34	87.14
04/16/99	320	<0.3	<0.3	<0.3	<0.5	* 540 / 630	12.20	NP	0.00	99.34	87.14
07/14/99	290	<0.3	<0.3	<0.3	<0.5	*590 / 580	13.75	NP	0.00	99.34	85.59
10/07/99	130	<0.3	<0.3	<0.3	<0.5	270	12.15	NP	0.00	99.34	87.19
01/26/00	13,000	460	54	290	3,700	940	13.14	NP	0.00	99.34	86.20
04/19/00	546	<0.25	<0.25	<0.25	<0.5	*430 / 606	10.63	NP	0.00	99.34	88.71
05/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5	9.11	NP	0.00	99.34	90.23
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5	9.10	NP	0.00	99.34	90.24
10/25/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	9.08	NP	0.00	99.34	90.26
01/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	12.16	NP	0.00	99.34	87.18
04/23/01	18,100	740	55	650	4,000	*1,850 / 842	10.60	NP	0.00	99.34	88.74
07/16/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	9.07	NP	0.00	99.34	90.27

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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)					
10/17/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	12.16	NP	0.00	99.34	87.18
01/23/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	15.23	NP	0.00	99.34	84.11
04/10/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	15.17	NP	0.00	99.34	84.17
07/24/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	16.71	NP	0.00	99.34	82.63
MONITORING WELL #MW-2											
11/21/86	-	-	-	-	-	-	14.90	0.11	14.79	100.01	96.28
07/22/91	-	-	-	-	-	-	17.84	0.38	17.46	100.01	95.35
10/24/91	-	-	-	-	-	-	17.00	16.97	0.03	100.01	83.03
01/22/92	-	-	-	-	-	-	16.72	FILM	0.00	100.01	83.29
03/24/92	-	-	-	-	-	-	15.81	11.98	3.83	100.01	87.09
07/15/92	-	-	-	-	-	-	16.37	FILM	0.00	100.01	83.64
10/05/92	-	-	-	-	-	-	18.41	18.09	0.32	100.01	81.84
01/06/93	-	-	-	-	-	-	12.37	FILM	0.00	100.01	87.64
07/13/93	-	-	-	-	-	-	15.19	FILM	0.00	100.01	84.82
10/11/93	-	-	-	-	-	-	18.05	0.10	17.95	100.01	95.51
01/11/94	-	-	-	-	-	-	16.98	0.03	16.95	100.01	95.83
04/12/94	-	-	-	-	-	-	15.54	FILM	0.00	100.01	84.47
07/14/94	-	-	-	-	-	-	17.93	FILM	0.00	100.01	82.08
01/15/96	7,100	720	280	48	660	-	17.20	NP	0.00	100.01	82.81
04/15/96	11,000	600	59	420	870	-	17.26	NP	0.00	100.01	82.75
07/15/96	19,000	360	51	610	1,600	<250	-	-	-	-	-
10/09/96	-	-	-	-	-	-	14.42	NP	0.00	100.01	85.59
01/13/97	11,000	230	30	91	700	56	10.25	NP	0.00	100.01	89.76
04/14/97	141	1.2	0.33	0.44	<0.5	20	-	-	-	-	-
07/07/97	<50	<0.3	<0.3	<0.3	<0.5	<20	17.20	NP	0.00	100.01	82.81
10/16/97	<50	<0.3	<0.3	<0.3	<0.5	-	16.20	NP	0.00	100.01	83.81
01/07/98	-	-	-	-	-	-	16.26	16.18	0.08	100.01	83.81
Well Abandoned 1/30/98											
MONITORING WELL #MW-3											
11/21/86	-	100	5.1	<1.0	25	-	16.25	0.10	16.15	99.76	95.70
07/22/91	-	-	-	-	-	-	24.00	NP	0.00	99.76	75.76
10/24/91	-	-	-	-	-	-	18.10	NP	0.00	99.76	81.66
01/22/92	-	-	-	-	-	-	25.80	SHEEN	0.00	99.76	73.96
03/24/92	-	-	-	-	-	-	15.60	NP	0.00	99.76	84.16
07/15/92	-	-	-	-	-	-	25.10	FILM	0.00	99.76	74.66

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	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
10/05/92	-	-	-	-	-	-	25.20	NP	0.00	99.76	74.56
01/06/93	-	-	-	-	-	-	25.45	NP	0.00	99.76	74.31
07/13/93	-	-	-	-	-	-	14.24	NP	0.00	99.76	85.52
10/11/93	-	-	-	-	-	-	25.60	NP	0.00	99.76	74.16
01/11/94	-	-	-	-	-	-	25.90	NP	0.00	99.76	73.86
04/12/94	-	-	-	-	-	-	25.70	NP	0.00	99.76	74.06
07/14/94	-	-	-	-	-	-	25.10	NP	0.00	99.76	74.66
01/15/96	-	-	-	-	-	-	26.04	NP	0.00	99.76	73.72
04/15/96	-	-	-	-	-	-	21.03	NP	0.00	99.76	78.73
07/15/96	5,900	240	30	270	730	780	-	-	-	-	-
10/09/96	-	-	-	-	-	-	21.43	NP	0.00	99.76	78.33
01/13/97	-	-	-	-	-	-	11.20	NP	0.00	99.76	88.56
07/07/97	-	-	-	-	-	-	23.40	NP	0.00	99.76	76.36
10/16/97	-	-	-	-	-	-	22.30	NP	0.00	99.76	77.46
01/07/98	-	-	-	-	-	-	20.10	NP	0.00	99.76	79.66
07/14/98	-	-	-	-	-	-	14.40	NP	0.00	99.76	85.36
10/15/98	-	-	-	-	-	-	-	-	-	-	-
01/20/99	-	-	-	-	-	-	-	-	-	-	-
04/16/99	-	-	-	-	-	-	11.20	NP	0.00	99.76	88.56
07/14/99	5,600	9.6	1.3	3.5	8.1	*14,000 / 14,000	25.87	NP	0.00	99.76	73.89
10/07/99	-	-	-	-	-	-	15.40	NP	0.00	99.76	84.36
01/26/00	-	-	-	-	-	-	14.25	NP	0.00	99.76	85.51
04/19/00	-	-	-	-	-	-	14.20	NP	0.00	99.76	85.56
05/26/00	-	-	-	-	-	-	15.12	NP	0.00	99.76	84.64
07/26/00	-	-	-	-	-	-	14.30	NP	0.00	99.76	85.46
10/25/00	-	-	-	-	-	-	14.32	NP	0.00	99.76	85.44
01/10/01	-	-	-	-	-	-	13.46	NP	0.00	99.76	86.30
04/23/01	-	-	-	-	-	-	-	-	-	-	-
07/16/01	-	-	-	-	-	-	12.80	NP	0.00	99.76	86.96
10/17/01	-	-	-	-	-	-	15.30	NP	0.00	99.76	84.46
01/23/02	-	-	-	-	-	-	-	-	-	-	-
04/10/02	-	-	-	-	-	-	13.22	NP	0.00	99.76	86.54
07/24/02	-	-	-	-	-	-	14.32	NP	0.00	99.76	85.44
MONITORING WELL MW-4											
11/21/86	100,000	3,200	2,700	2,400	14,000	-	16.22	FILM	0.00	99.48	83.26
07/22/91	-	-	-	-	-	-	21.80	21.35	0.45	99.48	78.02

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THRIFTY OIL STATION #063, OAKLAND, CA**

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	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
10/24/91	-	-	-	-	-	-	20.02	SHEEN	0.00	99.48	79.46
01/22/92	-	-	-	-	-	-	19.78	SHEEN	0.00	99.48	79.70
03/24/92	-	-	-	-	-	-	13.94	FILM	0.00	99.48	85.54
07/15/92	-	-	-	-	-	-	19.27	FILM	0.00	99.48	80.21
10/05/92	-	-	-	-	-	-	21.44	FILM	0.00	99.48	78.04
01/06/93	-	-	-	-	-	-	14.08	FILM	0.00	99.48	85.40
07/13/93	-	-	-	-	-	-	16.09	FILM	0.00	99.48	83.39
10/11/93	-	-	-	-	-	-	21.33	FILM	0.00	99.48	78.15
01/11/94	-	-	-	-	-	-	20.45	FILM	0.00	99.48	79.03
04/12/94	-	-	-	-	-	-	19.05	FILM	0.00	99.48	80.43
07/14/94	-	-	-	-	-	-	20.41	FILM	0.00	99.48	79.07
01/15/96	5,000	370	38	300	390	-	19.89	NP	0.00	99.48	79.59
04/15/96	38,000	300	78	540	470	-	19.62	NP	0.00	99.48	79.86
07/15/96	13,000	880	69	820	1,100	3,600	-	-	-	-	-
10/09/96	-	-	-	-	-	-	15.32	NP	0.00	99.48	84.16
01/13/97	47,000	2,500	2,500	1,100	2,800	70,000	10.80	NP	0.00	99.48	88.68
04/14/97	8,700	<0.3	0.45	<0.3	0.64	29,000	-	-	-	-	-
07/07/97	12,000	<0.3	<0.3	<0.3	<0.5	-	18.80	NP	0.00	99.48	80.68
10/16/97	770	<0.3	<0.3	<0.3	<0.5	-	17.76	NP	0.00	99.48	81.72
01/07/98	75,000	3,000	900	1,400	2,500	110	11.60	NP	0.00	99.48	87.88
04/08/98	18,000	1,200	130	710	1,400	22,000	10.10	NP	0.00	99.48	89.38
07/14/98	21,000	1,300	58	1,200	1,100	23,000	16.30	NP	0.00	99.48	83.18
10/15/98	9,100	1.1	0.62	<0.3	<0.5	30,000	16.90	NP	0.00	99.48	82.58
01/20/99	16,000	<0.3	0.91	0.72	1.4	* 43,000 / 42,000	15.35	NP	0.00	100.48	85.13
04/16/99	17,000	0.48	0.92	0.54	1.4	* 28,000 / 26,000	15.30	NP	0.00	100.48	85.18
07/14/99	8,500	<6	<6	<6	<10	*21,000 / 16,000	18.40	NP	0.00	100.48	82.08
10/07/99	2,500	<1.5	3.1	<1.5	<2.5	4,800	16.89	NP	0.00	100.48	83.59
01/26/00	9,900	350	9	460	460	2,800	12.62	NP	0.00	100.48	87.86
04/19/00	8,990	0.7	<0.25	<0.25	<0.5	*3,240 / 5,450	12.28	NP	0.00	100.48	88.20
05/26/00	94	<0.3	<0.3	<0.3	<0.6	*746 / 419	13.81	NP	0.00	100.48	86.67
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	3,110 / 2,060	12.29	NP	0.00	100.48	88.19
10/25/00	2,480	<0.18	<0.14	<0.18	<0.26	*3,690 / 3,040	12.26	NP	0.00	100.48	88.22
01/10/01	<50	<0.18	2	<0.18	1	962	10.75	NP	0.00	100.48	89.73
04/23/01	482	<0.18	<0.14	<0.18	<0.26	*875 / 453	12.26	NP	0.00	100.48	88.22
07/16/01	71,700	9,440	12,600	514	8,980	*1,330 / 389	13.80	NP	0.00	100.48	86.68
10/17/01	13,500	1,950	425	<5.94	1,110	*829 / 329	16.87	NP	0.00	100.48	83.61
01/23/02	12,100	196	57	68	2,090	*688/738	12.28	NP	0.00	100.48	88.20

**TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #063, 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)					
04/10/02	655	7	8	1	1	587	13.80	NP	0.00	100.48	86.68
07/24/02	17,400	<0.18	1.9	1.4	2.2	12,800	15.33	NP	0.00	100.48	85.15
MONITORING WELL #MW-5											
11/21/86	<1,000	4.8	2.1	<0.5	7.4	-	16.10	NP	0.00	100.98	84.88
07/22/91	-	<0.5	1.6	<1.0	2.0	-	18.20	NP	0.00	100.98	82.78
10/24/91	-	-	-	-	-	-	17.67	NP	0.00	100.98	83.31
01/22/92	600	21.0	8.0	2.0	17.0	-	-	-	-	-	-
03/24/92	-	-	-	-	-	-	12.98	NP	0.00	100.98	88.00
07/15/92	<200	<0.5	<0.5	<0.5	<0.5	-	17.29	NP	0.00	100.98	83.69
10/05/92	-	-	-	-	-	-	18.92	NP	0.00	100.98	82.06
01/06/93	300	2.7	<0.5	1.3	26.0	-	13.12	NP	0.00	100.98	87.86
07/13/93	<100	1.1	0.5	1.0	1.5	-	16.15	NP	0.00	100.98	84.83
10/11/93	130	1.2	<0.3	<0.3	<0.6	-	18.75	NP	0.00	100.98	82.23
01/11/94	<50	1.5	<0.3	<0.3	<0.5	-	17.80	NP	0.00	100.98	83.18
04/12/94	<50	<0.3	<0.3	<0.3	<0.5	-	13.59	NP	0.00	100.98	87.39
07/14/94	<50	0.42	<0.3	<0.3	<0.5	-	18.26	NP	0.00	100.98	82.72
07/15/95	100	1.2	<0.5	0.8	<1	-	-	-	-	-	-
01/15/96	1,900	21	13	6.2	6.8	-	13.09	NP	0.00	100.98	87.89
04/15/96	250	5.1	2.7	1.7	1.1	-	13.16	NP	0.00	100.98	87.82
07/15/96	270	6.5	1.4	1.8	1.4	230	-	NP	-	-	-
10/09/96	-	-	-	-	-	-	15.37	NP	0.00	100.98	85.61
01/13/97	25,000	780	5,700	560	4,000	24,000	10.90	NP	0.00	100.98	90.08
04/14/97	6,300	260	1,600	28	550	9,000	-	-	-	-	-
07/07/97	7,500	300	1,500	12	110	16,000	14.70	NP	0.00	100.98	86.28
10/16/97	4,600	<0.3	0.65	<0.3	<0.5	-	13.60	NP	0.00	100.98	87.38
01/07/98	2,700	33	11	37	580	7.3	10.97	NP	0.00	100.98	90.01
04/08/98	300	9.1	<0.3	<0.3	<0.5	650	10.90	NP	0.00	100.98	90.08
07/14/98	670	5.9	<0.3	<0.3	0.53	2,300	15.20	NP	0.00	100.98	85.78
10/15/98	<50	<0.3	<0.3	<0.3	<0.5	19	15.90	NP	0.00	100.98	85.08
01/20/99	<50	<0.3	<0.3	<0.3	<0.5	<5	15.20	NP	0.00	101.98	86.78
04/16/99	<50	<0.3	<0.3	<0.3	<0.5	<5	15.25	NP	0.00	101.98	86.73
07/14/99	<50	<0.3	<0.3	<0.3	<0.5	<5	15.96	NP	0.00	101.98	86.02
10/07/99	<50	<0.3	<0.3	<0.3	<0.5	<5	16.33	NP	0.00	101.98	85.65
01/26/00	<50	<0.3	<0.3	<0.3	<0.5	<5	14.80	NP	0.00	101.98	87.18
04/19/00	965	<0.25	<0.25	<0.25	<0.5	<5	10.97	NP	0.00	101.98	91.01
05/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5	14.43	NP	0.00	101.98	87.55

**TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #063, 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)					
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5	14.02	NP	0.00	101.98	87.96
10/25/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	14.04	NP	0.00	101.98	87.94
01/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	14.80	NP	0.00	101.98	87.18
04/23/01	<50	<0.18	<0.14	<0.18	<0.26	*10 / 4.2	10.97	NP	0.00	101.98	91.01
07/16/01	3,360	430	603	53	429	*41 / 4.2	14.80	NP	0.00	101.98	87.18
10/17/01	<50	<0.18	<0.14	<0.18	<0.26	*16 / 5.2	16.71	NP	0.00	101.98	85.27
01/23/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	14.80	NP	0.00	101.98	87.18
04/10/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	14.42	NP	0.00	101.98	87.56
07/24/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	14.78	NP	0.00	101.98	87.20
MONITORING WELL #MW-6											
11/21/86	<1,000	<2.0	<2.0	<2.0	<2.0	-	12.64	NP	0.00	99.44	86.80
07/22/91	-	-	-	-	-	-	-	-	-	-	-
01/22/92	<200	<0.5	<0.5	<0.5	1.5	-	-	-	-	-	-
03/24/92	-	-	-	-	-	-	10.04	NP	0.00	99.44	89.40
07/15/92	<200	<0.5	<0.5	<0.5	<0.5	-	13.29	NP	0.00	99.44	86.15
10/05/92	-	-	-	-	-	-	14.69	NP	0.00	99.44	84.75
01/06/93	<200	<0.5	<0.5	<0.5	<1.0	-	10.87	NP	0.00	99.44	88.57
07/13/93	<100	<0.5	<0.5	<0.5	<1.0	-	13.10	NP	0.00	99.44	86.34
10/11/93	<60	<0.3	<0.3	<0.3	<0.6	-	14.43	NP	0.00	99.44	85.01
01/11/94	<50	<0.3	<0.3	<0.3	<0.5	-	13.56	NP	0.00	99.44	85.88
04/12/94	<50	<0.3	<0.3	<0.3	<0.3	-	12.10	NP	0.00	99.44	87.34
07/14/94	<50	<0.3	<0.3	<0.3	<0.3	-	14.16	NP	0.00	99.44	85.28
07/15/95	140	<0.5	<0.5	<0.5	<1	-	-	-	-	-	-
01/15/96	56	0.38	0.33	<0.3	<0.5	-	14.29	NP	0.00	99.44	85.15
04/15/96	96	4.5	<0.3	<0.3	0.53	-	14.32	NP	0.00	99.44	85.12
07/15/96	140	2.4	0.44	<0.3	0.70	110	-	-	-	-	-
10/09/96	-	-	-	-	-	-	12.09	NP	0.00	99.44	87.35
01/13/97	210	<0.3	1.2	<0.3	0.68	270	9.85	NP	0.00	99.44	89.59
04/14/97	<50	<0.3	<0.3	<0.3	<0.5	<20	-	-	-	-	-
07/07/97	<50	<0.3	<0.3	<0.3	<0.5	<20	14.20	NP	0.00	99.44	85.24
10/16/97	<50	<0.3	<0.3	<0.3	<0.5	-	13.10	NP	0.00	99.44	86.34
01/07/98	<50	<0.3	<0.3	<0.3	<0.5	0.10	9.80	NP	0.00	99.44	89.64
07/14/98	330	<0.3	<0.3	<0.3	<0.5	380	12.30	NP	0.00	99.44	87.14
10/15/98	<50	<0.3	<0.3	<0.3	<0.5	<5	14.30	NP	0.00	99.44	85.14
01/20/99	<50	0.47	<0.3	<0.3	<0.5	<5	13.60	NP	0.00	100.44	86.84
04/16/99	<50	<0.3	<0.3	<0.3	<0.5	<5	13.50	NP	0.00	100.44	86.94

**TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #063, 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)					
07/14/99	<50	<0.3	<0.3	<0.3	<0.5	*5 4 / <5	14.65	NP	0.00	100.44	85.79
10/07/99	<50	<0.3	0.96	0.35	1.8	<5	15.39	NP	0.00	100.44	85.05
01/26/00	<50	<0.3	<0.3	<0.3	0.63	<5	13.85	NP	0.00	100.44	86.59
04/19/00	83.1	<0.25	<0.25	<0.25	<0.5	*11 / <5	9.65	NP	0.00	100.44	90.79
05/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5	13.10	NP	0.00	100.44	87.34
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5	12.35	NP	0.00	100.44	88.09
10/25/00	<50	<0.18	<0.14	<0.18	<0.26	*7 / 10	12.30	NP	0.00	100.44	88.14
01/10/01	<50	<0.18	<0.14	<0.18	<0.26	78	13.45	NP	0.00	100.44	86.99
04/23/01	<50	<0.18	<0.14	<0.18	<0.26	*9 / 4	9.65	NP	0.00	100.44	90.79
07/16/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	13.09	NP	0.00	100.44	87.35
10/17/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	15.37	NP	0.00	100.44	85.07
01/23/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	13.27	NP	0.00	100.44	87.17
04/10/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	13.07	NP	0.00	100.44	87.37
07/24/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	13.86	NP	0.00	100.44	86.58

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

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 063, 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	1,669	0	-	-	<0.3	<0.3	<0.3	<0.9	-	-	1300	120	<7.5	1300	-		
4/15/91	5,742	4,073	582	-	<0.3	<0.3	<0.3	<0.3	-	-	700	140	<15	500	-		
4/22/91	10,240	8,571	643	-	<0.3	<0.3	<0.3	<0.9	-	-	850	100	34	860	-		
4/29/91	15,510	13,841	753	-	<0.3	<0.3	<0.3	<0.9	-	-	220	8.4	<0.3	42	-		
5/6/91	20,200	18,531	670	-	<0.3	<0.3	<0.3	<0.9	-	-	280	0.8	<0.3	56	-		
5/13/91	24,430	22,761	604	-	<0.3	<0.3	<0.3	<0.9	-	-	190	5.6	<0.3	37	-		
5/20/91	28,480	26,811	579	-	<0.3	<0.3	<0.3	<0.9	-	-	150	0.83	1.4	29	-		
5/28/91	29,310	27,641	104	-	<0.3	<0.3	<0.3	<0.9	-	-	<0.3	<0.3	<0.3	<0.9	-		
6/3/91	33,080	31,411	628	-	<0.3	<0.3	<0.3	<0.9	-	-	58	4	<0.3	33	-		
6/10/91	36,939	35,270	551	-	<0.3	<0.3	<0.3	<0.9	-	-	45	<0.3	<0.3	16	-		
6/17/91	40,673	39,004	533	-	<0.3	<0.3	<0.3	<0.9	-	-	69	4.9	0.9	21	-		
6/24/91	44,453	42,784	540	-	<0.3	<0.3	<0.3	<0.9	-	-	5.4	2	<0.3	6.6	-		
7/1/91	48,173	46,504	531	-	<0.5	<0.5	<1	<1	-	-	14	15	<1	9.1	-		
7/8/91	51,681	50,012	501	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	6.9	-		
7/15/91	55,186	53,517	501	-	<0.5	<0.5	<1	<1	-	-	<0.5	0.6	<1	8.3	-		
7/22/91	62,150	60,481	995	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	2.6	-		
7/29/91	62,150	60,481	-	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	1.2	19	-		
8/5/91	63,241	61,572	156	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	<1	-		
8/12/91	66,091	64,422	407	-	<0.5	<0.5	<1	<1	-	-	2.6	<0.5	<1	12	-		
8/19/91	67,649	65,980	223	-	<0.5	<0.5	<1	<1	-	-	20	3.3	2.8	70	-		
8/26/91	70,514	68,845	409	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	1.2	19	-		
9/9/91	70,564	68,895	4	-	<0.5	<0.5	<1	<1	-	-	270	10	13	69	-		
9/16/91	73,526	71,857	423	System shut down due to damaged compressor pump						-	-	-	-	-	-	-	
10/7/91	73,526	71,857	-	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.8	-		
10/14/91	74,518	72,847	141	-	<0.5	<0.5	<1	<1	-	-	60	1.1	<1	23	-		
10/21/91	76,091	74,422	225	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	<1	-		
10/28/91	83,242	81,573	1,022	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	14	-		
11/3/91	83,242	81,573	-	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.1	-		
11/11/91	84,351	82,682	139	-	<0.5	<0.5	<1	<1	-	-	99	1.9	<1	14	-		
11/18/91	85,647	83,978	185	-	<0.5	<0.5	<1	<1	-	-	42	1	1	10	-		
11/25/91	89,512	87,843	552	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.9	-		
12/3/91	93,407	91,738	487	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.8	-		
12/9/91	96,210	94,541	467	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.2	-		
12/16/91	99,045	97,376	405	-	<0.5	<0.5	<0.5	<0.5	-	-	1.3	<0.5	<0.5	1.5	-		
12/23/91	102,334	100,665	470	-	<0.5	<0.5	<0.5	<0.5	-	-	1.7	<0.5	<0.5	2.4	-		
12/30/91	105,124	103,455	399	-	<0.5	<0.5	<0.5	<0.5	-	-	22.6	1.2	0.7	4.9	-		
1/15/92	115,891	114,022	660	-	<0.5	<0.5	<0.5	<0.5	-	-	130	11	<0.5	50	-		
2/10/92	124,846	123,177	352	-	<0.5	<0.5	<0.5	<0.5	-	-	20	0.51	<0.5	3.6	-		
3/9/92	149,965	148,296	897	<200	<0.5	<0.5	<0.5	<0.5	-	12,000	2,100	400	170	2,100	-		
4/13/92	168,567	166,898	531	<200	<0.5	<0.5	<0.5	<0.5	-	2,100	280	3.9	<2.5	98	-		
5/11/92	187,170	185,501	664	<200	<0.5	0.7	<0.5	<0.5	-	<200	<0.5	<0.5	<0.5	<0.5	-		
6/8/92	190,490	188,821	119	-	<0.5	<0.5	<0.5	<0.5	-	-	44	3.7	0.7	64	-		
7/6/92	197,060	195,411	235	-	-	-	-	-	-	-	-	-	-	-	-		
7/13/92	197,890	196,221	116	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-		
7/13/92	197,890	196,221	-	System shut down for repair of electrical motor						-	-	-	-	-	-	-	
8/10/92	197,890	196,221	-	Restart the system						-	-	-	-	-	-	-	-
8/17/92	201,300	199,631	487	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-		

TABLE 2
GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM
 Thrifty Oil Co. Station No 063, 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
9/14/92	209,647	207,978	298	-	<0.5	<0.5	<0.5	<1	-	-	<0.5	<0.5	<0.5	<1	-
10/5/92	217,360	215,691	367	<200	<0.5	<0.5	<0.5	<1	-	<200	<0.5	<0.5	<0.5	<1	-
11/09/92	225,780	224,111	241	-	<0.5	<0.5	<0.5	<1	-	-	1.1	0.5	<0.5	10	-
12/14/92	243,048	241,379	493	-	<0.5	<0.5	<0.5	<1	-	-	720	46	<10	1,700	-
01/04/93	252,510	250,841	451	-	<0.5	<0.5	<0.5	<1	-	-	400	32	<25	520	-
02/15/93	266,210	264,541	326	<200	<0.5	<0.5	<0.5	<1	-	9,000	1,400	330	260	1,200	-
03/08/93	269,330	267,661	149	-	<0.5	<0.5	<0.5	<1	-	-	1,100	150	7.5	1,000	-
04/26/93	271,290	269,621	40	<100	<0.5	<0.5	<0.5	<1	-	7,200	1,100	100	25	780	-
04/26/93	271,290	269,621	-	System shut down for repair											
07/15/93	272,577	270,908	16	Restart the system											
08/11/93	284,230	282,561	432	-	<0.5	<0.5	<0.5	<1	-	-	1.3	<0.5	<0.5	1.6	-
09/16/93	298,832	297,163	406	<60	<0.3	<0.3	<0.3	<0.6	-	<60	<0.3	<0.3	<0.3	<0.6	-
10/08/93	305,641	303,972	310	-	-	-	-	-	-	-	-	-	-	-	-
10/11/93	307,068	305,399	476	<60	<0.3	<0.3	<0.3	<0.6	-	<60	<0.3	<0.3	<0.3	<0.6	-
10/15/93	308,495	306,826	357	-	-	-	-	-	-	-	-	-	-	-	-
11/12/93	318,203	316,534	347	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
12/10/93	329,947	328,278	419	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
01/13/94	345,660	344,191	468	-	<0.3	<0.3	<0.3	<0.5	-	-	<0.3	<0.3	<0.3	<0.5	-
02/10/94	359,662	357,993	493	-	<0.3	<0.3	<0.3	<0.5	-	-	430	41	36	480	-
02/18/94	618,620	-	-	Changed air filters. The water flowmeter jumped from 359,662 to 618,620											
03/10/94	627,540	366,913	446	-	<0.3	<0.3	<0.3	<0.5	-	-	<0.3	<0.3	<0.3	7.7	-
04/14/94	645,330	384,703	508	<50	<0.3	<0.3	<0.3	<0.5	-	170	1.5	<0.3	0.38	0.73	-
05/19/94	653,520	392,893	234	<50	<0.3	<0.3	<0.3	<0.5	-	1,500	46	4.1	0.5	84	-
06/16/94	664,015	403,388	375	<50	<0.3	<0.3	<0.3	<0.5	-	12,000	880	37	<13	1,600	-
07/14/94	672,750	412,123	312	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
08/11/94	681,920	421,293	328	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
09/15/94	692,083	431,456	290	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
10/17/94	699,979	439,352	247	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
11/14/94	712,539	451,912	449	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
12/19/94	734,620	473,993	631	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
01/10/95	742,072	481,445	339	-	-	-	-	-	-	-	-	-	-	-	-
01/16/95	742,074	481,447	0	System shut down for repair of compressor pump											
02/06/95	742,074	481,447	-	Restart the system											
02/13/95	744,083	483,436	284	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
03/13/95	758,930	498,303	531	<100	<0.5	<0.5	<0.5	<1	-	1,300	<0.5	<0.5	<0.5	<1	-
04/17/95	788,276	507,649	267	<100	<0.5	<0.5	<0.5	<1	-	6,200	410	73	97	280	-
05/15/95	780,716	520,089	444	<100	<0.5	<0.5	<0.5	<1	-	1,300	0.6	<0.5	<0.5	<1	-
06/12/95	784,514	523,887	136	<100	<0.5	<0.5	<0.5	<1	-	<100	<0.5	<0.5	<0.5	<1	-
07/18/95	794,158	533,531	268	<100	<0.5	<0.5	<0.5	<1	-	1,100	<0.5	<0.5	<0.5	<1	-
08/14/95	795,216	534,589	39	<100	<0.5	<0.5	<0.5	<1	-	170	<0.5	<0.5	<0.5	<1	-
09/06/95	797,631	537,004	105	<100	<0.5	<0.5	<0.5	<1	-	1,320	<0.5	<0.5	<0.5	<1	-
10/17/95	800,316	539,689	65	<100	<0.5	<0.5	<0.5	<1	-	2,400	26	2.7	3.9	46	-
11/20/95	806,264	545,637	175	150	<0.3	<0.3	<0.3	<0.5	-	450	0.31	<0.3	<0.3	<0.5	-
12/11/95	809,236	548,609	142	300	<0.3	<0.3	<0.3	0.59	-	470	<0.3	<0.3	<0.3	<0.5	-
01/15/96	822,734	562,107	386	510	<0.3	<0.3	<0.3	<0.5	-	900	0.39	<0.3	<0.3	<0.5	-
02/19/96	848,213	587,586	728	800	<0.3	0.57	<0.3	0.83	-	1700	23	3.7	<0.3	80	-
03/19/96	849,587	588,960	47	930	<0.3	<0.3	<0.3	<0.5	-	1,600	5.5	1.4	<0.3	94	-

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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
04/15/96	852,042	591,415	91	990	<0.3	<0.3	<0.3	<0.5	-	1,100	0.43	<0.3	<0.3	<0.5	-
05/13/96	890,214	629,587	1,363	840	<0.3	<0.3	<0.3	<0.5	-	910	<0.3	<0.3	<0.3	<0.5	-
05/13/96	890,214	629,587	-	System shut down for carbon change											
06/14/96	890,214	629,587	-	Restart the system											
06/18/96	890,818	630,191	151	<50	<0.3	<0.3	<0.3	<0.5	-	1,000	92	87	34	55	-
07/01/96	892,781	632,154	151	-	-	-	-	-	-	-	-	-	-	-	-
07/08/96	894,210	633,583	204	System shut down due to burglary and damaged air compressor											
08/05/96	894,210	633,583	-	Restart the system											
08/13/96	896,220	635,593	251	<50	<0.3	<0.3	<0.3	<0.5	-	3,500	160	110	220	650	-
09/23/96	899,410	638,783	78	<50	<0.3	<0.3	<0.3	<0.5	-	<50	0.49	<0.3	<0.3	<0.5	-
10/09/96	899,845	639,218	27	<50	<0.3	<0.3	<0.3	<0.5	-	730	17	0.42	21	25	-
11/11/96	901,348	640,721	46	<50	<0.3	<0.3	<0.3	<0.5	-	81	<0.3	<0.3	<0.3	<0.5	-
12/09/96	901,576	640,949	8	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
01/13/97	904,630	644,003	87	<50	<0.3	<0.3	<0.3	<0.5	-	13,000	590	250	180	850	-
02/10/97	912,610	651,983	285	82	<0.3	0.38	<0.3	<0.5	-	700	0.92	0.75	<0.3	4.1	-
03/10/97	921,020	660,393	300	<50	<0.3	<0.3	<0.3	<0.5	-	600	<0.3	<0.3	<0.3	<0.5	-
04/14/97	932,410	671,783	325	<50	<0.3	<0.3	<0.3	<0.5	-	4,400	<0.3	<0.3	<0.3	<0.5	-
05/12/97	941,028	680,401	308	<50	<0.3	<0.3	<0.3	<0.5	-	5,600	7.3	0.32	<0.3	17	-
06/23/97	943,183	682,556	51	-	-	-	-	-	-	-	-	-	-	-	-
07/07/97	945,821	685,194	188	<50	<0.3	<0.3	<0.3	<0.5	-	1,500	3.4	<0.3	<0.3	26	-
08/04/97	951,020	690,383	186	-	-	-	-	-	-	-	-	-	-	-	-
09/02/97	957,933	697,306	238	System shut down due to stolen air compressor											
10/06/97	961,030	700,403	91	-	-	-	-	-	-	-	-	-	-	-	-
10/16/97	961,077	700,450	5	<50	<0.3	<0.3	<0.3	<0.5	-	550	<0.3	<0.3	<0.3	<0.5	-
11/17/97	970,920	710,293	308	-	-	-	-	-	-	-	-	-	-	-	-
12/23/97	986,016	725,389	419	-	-	-	-	-	-	-	-	-	-	-	-
01/05/98	991,520	730,893	423	-	-	-	-	-	-	-	-	-	-	-	-
01/07/98	992,365	731,738	423	<50	<0.3	<0.3	<0.3	<0.5	-	65,000	690	8,400	3,100	20,000	-
02/02/98	996,874	736,247	173	-	-	-	-	-	-	-	-	-	-	-	-
02/09/98	-	-	-	System shut down due to the UST replacement and station remodeling											
02/17/98	-	-	-	<50	<0.3	<0.3	<0.3	<0.5	-	35,000	150	<15	<15	8,900	-
04/13/98	53,000	736,247	-	Replaced carbons and restarted system with new meter (53,000)											
4/13 - 6/1/98	-	-	-	System was undergoing several maintenance / piping / hose replacement											
06/01/98	53,780	737,027	16	-	-	-	-	-	-	-	-	-	-	-	-
07/14/98	56,905	740,152	73	<50	<0.3	<0.3	<0.3	<0.5	-	3,500	14	0.56	<0.3	26	-
08/13/98	59,426	742,673	84	-	-	-	-	-	-	-	-	-	-	-	-
09/11/98	62,356	745,603	101	-	-	-	-	-	-	-	-	-	-	-	-
10/15/98	62,714	745,981	11	<50	<0.3	<0.3	<0.3	<0.5	-	2,200	21	4	<0.3	100	-
11/06/98	62,952	746,199	11	-	-	-	-	-	-	-	-	-	-	-	-
11/20/98	-	-	-	System shut down for flowmeter replacement											
12/01/98	0.0	746,199	-	Restart the system with flowmeter at 000											
12/31/98	5,340.0	751,539	178	-	-	-	-	-	-	-	-	-	-	-	-
01/11/99	15,020.0	761,219	880	System shut down											
1/11 - 2/1/99	-	-	-	System was undergoing maintenance for the compressor											
01/20/99	-	-	-	<50	<0.3	<0.3	<0.3	<0.5	-	110	0.43	0.42	<0.3	<0.5	260
02/01/99	15,600.0	761,799	28	Restart system											
02/12/99	22,840.0	769,039	658	-	-	-	-	-	-	-	-	-	-	-	-

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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
02/22/99	22,840.0	769,039	-	System shut down for carbon canister replacement											
03/26/99	22,840.0	769,039	-	Restart the system											
03/31/99	24,620.0	770,819	358	-	-	-	-	-	-	-	-	-	-	-	-
04/16/99	29,805.0	775,804	312	<50	<0.3	<0.3	<0.3	<0.5	<5	<50	<0.3	<0.3	<0.3	<0.5	<5
05/11/99	36,010.0	782,209	258	-	-	-	-	-	-	-	-	-	-	-	-
05/25/99	46,000.0	792,199	714	System shut down due to carbon canister leaking											
09/02/99	46,000.0	792,199	-	Restart system											
09/17/99	46,217.0	792,416	14	-	-	-	-	-	-	-	-	-	-	-	-
10/07/99	46,809.0	793,008	30	<50	<0.3	<0.3	<0.3	<0.5	11	65	<0.3	<0.3	<0.3	<0.5	120
10/21/99	47,278.0	793,477	34	System shut down for carbon change											
11/24/99	47,283.0	793,482	0	Restart system											
12/30/99	49,386.0	795,585	58	-	-	-	-	-	-	-	-	-	-	-	-
01/26/00	50,569.0	796,768	44	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
02/25/00	51,983.0	798,182	47	-	-	-	-	-	-	-	-	-	-	-	-
03/24/00	54,603.0	800,802	94	-	-	-	-	-	-	-	-	-	-	-	-
04/19/00	56,754.0	802,953	83	<5	<0.25	<0.25	<0.25	<0.5	-	<50	1.3	<0.25	<0.25	<0.5	<5
04/30/00	58,022.0	804,221	115	-	-	-	-	-	-	-	-	-	-	-	-
05/26/00	60,086.0	806,285	79	-	-	-	-	-	-	923	<0.6	2	85	80	*8,350/4,810
06/16/00	61,889.0	808,088	86	<50	<0.3	<0.3	<0.3	<0.6	<5	3,820	<0.3	<0.3	<0.3	<0.6	3,740
07/26/00	65,987.0	812,186	102	<50	<0.3	<0.3	<0.3	<0.6	<5	<50	<0.3	<0.3	<0.3	<0.6	<5
08/25/00	68,630.0	814,829	88	-	-	-	-	-	-	-	-	-	-	-	-
09/29/00	85,661.0	831,880	487	-	-	-	-	-	-	-	-	-	-	-	-
10/13/00	96,212.0	842,411	754	-	-	-	-	-	-	-	-	-	-	-	-
10/20/00	99,700.0	845,899	498	Shut down system for QWS and replaced flowmeter starting at 000 (old meter estimated at 99,700) System restarted on 10/25/00 after QWS											
10/25/00	0.0	845,899	-	<50	<0.18	<0.14	<0.18	<0.26	<0.24	17,100	111	121	141	972	998
10/27/00	2,180	848,059	1,080	-	-	-	-	-	-	-	-	-	-	-	-
11/03/00	7,420	853,319	751	-	-	-	-	-	-	-	-	-	-	-	-
11/24/00	16,560	862,459	435	-	-	-	-	-	-	-	-	-	-	-	-
12/22/00	51,530	897,429	1,249	-	-	-	-	-	-	-	-	-	-	-	-
01/10/01	54,520	900,419	157	<50	<0.18	<0.14	<0.18	<0.26	<0.24	10,000	384	223	<0.18	1,330	11,600
02/19/01	99,640	945,539	1,128	-	-	-	-	-	-	-	-	-	-	-	-
03/19/01	144,170	990,069	1,590	-	-	-	-	-	-	-	-	-	-	-	-
04/09/01	167,050	1,012,949	1,090	378	<0.18	<0.14	<0.18	<0.26	475	4,040	191	4	42	38	4,990
04/13/01	169,210	1,015,109	540	Shut down system for replacement of carbon drums											
04/18/01	169,210	1,015,109	-	Restart system											
04/23/01	177,140	1,023,039	1,586	93	<0.18	<0.14	<0.18	<0.26	132	1,400	<0.18	<0.14	<0.18	<0.26	3,240
05/02/01	186,800	1,032,699	1,073	Shut down system for carbon change											
05/18/01	186,900	1,032,799	6	Restart system											
05/30/01	200,850	1,046,749	1,163	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3,100	15	<0.14	1	2	*8,510/5,780
06/25/01	266,720	1,112,619	2,533	-	-	-	-	-	-	-	-	-	-	-	-
07/09/01	278,760	1,124,659	860	<50	<0.18	<0.14	<0.18	<0.26	<0.24	748	15	<0.14	2	27	1,440
08/13/01	399,700	1,245,599	3,455	-	-	-	-	-	-	-	-	-	-	-	-
09/24/01	451,240	1,297,139	1,227	-	-	-	-	-	-	-	-	-	-	-	-
10/01/01	488,310	1,334,209	5,296	<50	<0.18	<0.14	<0.18	<0.26	<0.24	956	1.2	<0.14	<0.18	<0.26	878
11/12/01	636,260	1,482,159	3,523	-	-	-	-	-	-	-	-	-	-	-	-
12/31/01	674,080	1,519,979	772	-	-	-	-	-	-	-	-	-	-	-	-
01/14/02	688,450	1,534,349	1,026	<50	<0.18	<0.14	<0.18	<0.26	<0.24	232	1	1	<0.18	<0.26	363

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				TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE	
02/18/02	738,420	1,584,319	1,428	-	-	-	-	-	-	-	-	-	-	-	-	-
03/25/02	814,570	1,660,489	2,176	-	-	-	-	-	-	-	-	-	-	-	-	-
04/08/02	828,510	1,674,409	996	<50	<0.18	<0.14	<0.18	<0.26	<0.24	105	<0.18	<0.14	<0.18	<0.26	157	-
04/22/02	895,910	1,741,809	4,814	-	-	-	-	-	-	-	-	-	-	-	-	-
05/06/02	895,920	1,741,819	1	System off, Restart												
05/13/02	929,130	1,775,029	4,744	-	-	-	-	-	-	-	-	-	-	-	-	-
06/03/02	993,740	1,839,639	3,077	<50	<0.18	<0.14	<0.18	<0.26	<0.24	-	-	-	-	-	-	-
06/24/02	1,001,590	1,847,489	374	-	-	-	-	-	-	-	-	-	-	-	-	-
07/08/02	-	-	-	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4,710	1	1.2	<0.18	2	6,980	-
07/12/02	1,051,430	1,897,329	2,769	-	-	-	-	-	-	-	-	-	-	-	-	-
07/29/02	1,052,820	1,898,719	82	System shut down for carbon change												
08/16/02	1,052,820	1,898,719	-	Restart												
08/30/02	1,069,050	1,914,949	1,159	-	-	-	-	-	-	-	-	-	-	-	-	-
09/20/02	1,106,410	1,952,309	1,779	<50	<0.1	<0.15	<0.06	-	-	Outlet sampling done by inspector (EPA Method 624)						
09/30/02	1,110,180	1,956,079	377	-	-	-	-	-	-	-	-	-	-	-	-	-

WD PERMIT LIMITS:	NE	50	50	50	50	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

APPENDIX A

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	063	Date:	07.24.02
Address:			
Personnel:	SERBATA	Weather:	SUNNY DAY
Well No:	MW-1	Equip:	

Before Purging:			
Total Well Depth: (ft.)	28.97	Well Diameter	24
Depth to Water (ft)	16.71	Est. Purge Volume:	8

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	10:13	10:14	10:15	10:16	10:17	10:18	10:20
EC	1090	1070	1060	1040	1060	1070	1060
pH	5.86	5.37	5.33	5.25	5.24	5.23	5.24
Temp	72.4	72.2	72.2	71.9	71.7	71.7	71.6
Gal.	1	2	3	4	5	6	8
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	15.10	Total Well Depth(ft.)	28.97

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	063	Date:	07.24.02
Address:			
Personnel:	SERBATA	Weather:	SUNNY DAY
Well No:	MW-4	Equip:	BAUER

Before Purging:			
Total Well Depth: (ft.)	29.13	Well Diameter	2 ⁴
Depth to Water (ft)	15.33	Est. Purge Volume:	9

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	10:22	10:23	10:24	10:26	10:27	10:28	10:30
EC	860	880	870	870	870	830	870
pH	5.16	5.09	5.12	5.12	5.09	5.06	5.09
Temp	72.1	21.4	21.8	21.8	21.6	21.5	21.5
Gal.	1	2	3	5	6	7	9
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	16.30	Total Well Depth(ft).	29.13

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	063	Date:	07 24-02
Address:			
Personnel:	SERBATA	Weather:	SUNNY DAY
Well No:	MW-5	Equip:	BASLER

Before Purging:			
Total Well Depth: (ft.)	26.26	Well Diameter	4"
Depth to Water (ft)	14.78	Est. Purge Volume:	30

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	9:44	9:48	9:52	9:57	10:01	10:05	10:10
EC	1560	1540	1520	1530	1520	1520	1530
pH	5.80	5.75	5.72	5.72	5.75	5.70	5.70
Temp	71.2	71.2	70.8	70.6	70.6	70.3	70.1
Gal.	4	8	12	17	21	25	30
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	14.52	Total Well Depth(ft).	28.26

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	063	Date:	07.24.02
Address:			
Personnel:	SERBAY	Weather:	SUNNY DAY
Well No:	MW-6	Equip:	BASLER

Before Purging:			
Total Well Depth: (ft.)	26.87	Well Diameter	44
Depth to Water (ft)	13.86	Est. Purge Volume:	34

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	9:05	9:10	9:15	9:20	9:25	9:30	9:35
EC	1110	990	970	960	940	930	910
pH	5.36	5.37	5.33	5.36	5.26	5.24	5.25
Temp	73.1	72.8	72.8	72.6	72.5	72.4	72.4
Gal.	4	9	14	19	24	24	34
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	15.20	Total Well Depth(ft.)	26.87

063

THRIFTY OIL CO. SERVICE STATION #63
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: JERBAPOPEW

DATE OF INSPECTION: 07.22.03

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

FLOW METER READING: -1052440-

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: 0.0

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]

063

THRIFTY OIL CO. SERVICE STATION #63
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBANOPOLOU

DATE OF INSPECTION: 07.17.02

OBSERVATIONS AND COMMENTS: ADD OIL, CHECK BELT, HOSES,
REPLACE CARTRIDGE WATER FILTER, CLEAN
WATER BAG FILTER,

FLOW METER READING: 705.1430 -

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: 1.1

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: Sy

063

THRIFTY OIL CO. SERVICE STATION #063
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBATA POPE-SU

DATE OF INSPECTION: 02-02-02

OBSERVATIONS AND COMMENTS: CHECK OIL, CLEAN WATER FILTER BAG,
CHECK HOSES, DRUMS, BELT, REPLACE CARTRIDGE
WATER FILTER

FLOW METER READING: -1043560-

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 82

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 10

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

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]

063

THRIFTY OIL CO. SERVICE STATION #63
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: TERBAPOPEJU

DATE OF INSPECTION: 06.24.02

OBSERVATIONS AND COMMENTS: ADD OIL, CLEAN WATER FILTER BAG
REPLACE CARTRIDGE WATER FILTER, CHECK (40 HRS)
DRUMS,

FLOW METER READING: 1001590

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: 0.8

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

INSPECTOR'S SIGNATURE: 

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 96633

REPORTED 08/05/2002

RECEIVED 07/25/2002

PROJECT Station #063

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.

Order No.

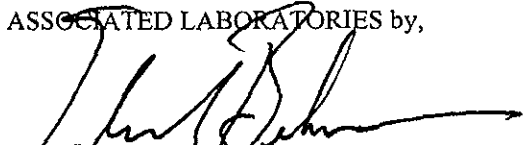
367227
367228
367229
367230
367231
367232

Client Sample Identification

TOC 063 MW-6
TOC 063 MW-5
TOC 063 MW-1
TOC 063 MW-4
TOC 063 Trip Blank
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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 367227

Client Sample ID: TOC 063 MW-6

Matrix: WATER

Date Sampled: 07/24/2002 Time Sampled: 13:00

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

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	07/26/02 LZ
Ethyl benzene	ND	1	0.3	0.18	ug/L	07/26/02 LZ
Methyl t - butyl ether	ND	1	5	0.24	ug/L	07/26/02 LZ
Toluene	ND	1	0.3	0.14	ug/L	07/26/02 LZ
Xylene (total)	ND	1	0.6	0.26	ug/L	07/26/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	07/26/02 LZ
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	95				%	70 - 130

Order #: 367228

Client Sample ID: TOC 063 MW-5

Matrix: WATER

Date Sampled: 07/24/2002 Time Sampled: 13:10

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

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	07/26/02 LZ
Ethyl benzene	ND	1	0.3	0.18	ug/L	07/26/02 LZ
Methyl t - butyl ether	ND	1	5	0.24	ug/L	07/26/02 LZ
Toluene	ND	1	0.3	0.14	ug/L	07/26/02 LZ
Xylene (total)	ND	1	0.6	0.26	ug/L	07/26/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	07/26/02 LZ
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	94				%	70 - 130

Order #: 367229

Client Sample ID: TOC 063 MW-1

Matrix: WATER

Date Sampled: 07/24/2002 Time Sampled: 13:20

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	07/26/02 LZ
Ethyl benzene	ND	1	0.3	0.18 ug/L	07/26/02 LZ
Methyl t - butyl ether	ND	1	5	0.24 ug/L	07/26/02 LZ
Toluene	ND	1	0.3	0.14 ug/L	07/26/02 LZ
Xylene (total)	ND	1	0.6	0.26 ug/L	07/26/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	07/26/02 LZ
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	93			%	70 - 130

Order #: 367230

Client Sample ID TOC 063 MW-4

Matrix: WATER

Date Sampled: 07/24/2002 Time Sampled: 13:30

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

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L	07/26/02 LZ
Ethyl benzene	1.4	1	0.3	0.18 ug/L	07/26/02 LZ
Methyl t - butyl ether	12,800	200	1000.0	0.24 ug/L	07/26/02 LZ
Toluene	1.9	1	0.3	0.14 ug/L	07/26/02 LZ
Xylene (total)	2.2	1	0.6	0.26 ug/L	07/26/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	17,400	100	5000.0	50 ug/L	07/26/02 LZ
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	95			%	70 - 130

Order #: 367231

Client Sample ID: TOC 063 Trip Blank

Matrix: WATER

Date Sampled: 07/24/2002 Time Sampled: 13:00

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	07/26/02 LZ
Ethyl benzene	ND	1	0.3	0.18 ug/L	07/26/02 LZ
Methyl t - butyl ether	ND	1	5	0.24 ug/L	07/26/02 LZ
Toluene	ND	1	0.3	0.14 ug/L	07/26/02 LZ
Xylene (total)	ND	1	0.6	0.26 ug/L	07/26/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	07/26/02 LZ
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	94			%	70 - 130

Order #: <input type="text" value="367232"/>	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	07/26/02 LZ
Ethyl benzene	ND	1	0.3	0.18 ug/L	07/26/02 LZ
Methyl t - butyl ether	ND	1	5	0.24 ug/L	07/26/02 LZ
Toluene	ND	1	0.3	0.14 ug/L	07/26/02 LZ
Xylene (total)	ND	1	0.6	0.26 ug/L	07/26/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	07/26/02 LZ
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	92			%	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 96629-206

Matrix: WATER

Prep. Date: 07/26/02

Analysis Date: 07/27/02

ID#'s in Batch: LR 96629, 96593, 96633, 96625

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	500	438	446	88	89	2

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	472	500	94	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	93
MS	141 *
MSD	143 *
Method Blank	90
LCS	140 *

AAA-TFT = a,a,a-Trifluorotoluene

* Outside QC Limits

ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: LCS 072602
 Matrix: WATER
 Prep. Date: 07/26/02
 Analysis Date: 7/26/02-7/27/02
 LAB ID#'s in Batch: LR 96633

REPORTING UNITS = ug/L

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP. BLK	LCS			LCSD	
		Value	Result	TRUE	%Rec	Result	%Rec
Benzene	8021	ND	16.8	20	84	16.5	83
Toluene	8021	ND	20.4	20	102	17.0	85
Ethylbenzene	8021	ND	20.2	20	101	19.8	99
Xylenes	8021	ND	39.3	40	98	39.4	99

LCS = Lab Control Sample Result
 TRUE = True Value of LCS
 L.LIMIT / H.LIMIT = LCS Control Limits

L.Limit	H.Limit
80%	120%

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	55-156
Method Blank	92
LCSD	102
LCSD	100

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. 96633		Page _____ of _____												
Project Manager JEFF JURYAKUSUMA		Fax (562) 921-7510		Analysis Requested				Test Instructions & Comments										
Project Name		Project # 063		<table border="1"> <tr> <td>T</td><td>B</td><td>M</td> </tr> <tr> <td>P</td><td>T</td><td>T</td> </tr> <tr> <td>H</td><td>X</td><td>R</td> </tr> </table>				T	B	M	P	T	T	H	X	R	<p style="text-align: center; font-size: 2em;">T0600101366</p>	
T	B	M																
P	T	T																
H	X	R																
Site Name and Address																		
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.												
1 MW-6		07.24.02	13:00	H ₂ O	3VOA	HCL	X	X	X									
2 MW-5		↑	13:10	↑	↓	HCL	X	X	X									
3 MW-1		↑	13:20	↑	↓	HCL	X	X	X									
4 MW-4		↓	13:30	↓		HCL	X	X	X									
5 TRIP BLANK		↓	13:00	↓	3VOA	HCL	X	X										
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

Sample Receipt - To Be Filled By Laboratory				Relinquished by Sampler: JEFF JURYAKUSUMA 1.	Relinquished by GOLDEN STONE 2.	Relinquished by 3.
Total Number of Containers	14	Property Cooled Y/N/NA	YES	Signature: <i>[Signature]</i>	Signature:	Signature:
Custody Seals Y/N/NA	NO	Samples Intact Y/N/NA	YES	Printed Name: JEFF JURYAKUSUMA	Printed Name:	Printed Name:
Received in Good Condition Y/N	YES	Samples Accepted Y/N	YES	Date: 07.24.02 Time: 13:00	Date: Time:	Date: Time:
Turn Around Time				Received By: GOLDEN STONE 1.	Received By: <i>[Signature]</i>	Received By: 3.
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Same Day	<input type="checkbox"/> 48 hrs.	Signature:	Signature: <i>[Signature]</i>	Signature:
		<input type="checkbox"/> 24 hrs.	<input type="checkbox"/> 72 hrs.	Printed Name:	Printed Name: Ken Mulvey	Printed Name:
				Date: Time:	Date: 7-25-02 Time: 11:46	Date: Time:

APPENDIX C

THRIFTY OIL CO. SERVICE STATION #063

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 09.30.02

OBSERVATIONS AND COMMENTS: ADD OIL, CHECK BELT, CLEAN WATER

FILTER BAG, DRAIN COMPRESSOR TANK, REPLACE

CARTRIDGE WATER FILTER

FLOW METER READING: 1110180

SAMPLES OBTAINED: N/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: 1.2

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: 

063

THRIFTY OIL CO. SERVICE STATION #63
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 09.23.02

OBSERVATIONS AND COMMENTS: ADD OIL, CHECK BELT, DRUMS, HOSES

DRAIN COMPRESSOR TANK, REPLACE WATER FILTER

CARTRIDGE, REPLACE WATER FILTER BAG,

FLOW METER READING: -1108690-

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: 0.6

INSPECTOR'S SIGNATURE: [Signature]

THRIFTY OIL CO. SERVICE STATION #63
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 09.20.02

OBSERVATIONS AND COMMENTS: SEMIANNUALLY INSPECTION FROM EAST

BAY MUNICIPAL UTILITY DISTRICT.

FLOW METER READING: 7106410 -

SAMPLES OBTAINED: WATER SAMPLING FROM OUTLET

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: _____

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: _____

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

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

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

INSPECTOR'S SIGNATURE: 

THRIFTY OIL CO. SERVICE STATION #63
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBATA POPKOW

DATE OF INSPECTION: 09.16.02

OBSERVATIONS AND
COMMENTS: CLEAR WATER FILTER BAG, REPLACE CARTRIDGE
WATER FILTER, CHECK BELT, HOSES, DRAIN COMPRESSOR,
ADD OIL,

FLOW METER READING: -1096740-

SAMPLES OBTAINED: yes - out let.

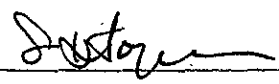
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 14

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 12

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

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: 

THRIFTY OIL CO. SERVICE STATION #63
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SEPPA MOOPFELU

DATE OF INSPECTION: 08-30-02

OBSERVATIONS AND
COMMENTS: CHECK BELT, HOSES, CLEAR WATER
FILTER BAG, REPLACE CARTRIDGE WATER
FILTER

FLOW METER READING: 1069050

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: 0.8

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

INSPECTOR'S SIGNATURE: *Seppa Moopfelu*



063

DATE: 08.16.02

START-UP/SHUT DOWN REPORT

STATION NO.: 063

SYSTEM TYPE: G.W. CARBON

START-UP REPORT:

RESTART SYSTEM AFTER CARBON
ABSORBER WAS FILLED WITH CLEAN WATER
AND SET FOR 48 hours or more TO ELIMI-
NATE ANY AIR POCKETS BETWEEN THE
CARBON GRANULES -

FLOW - 1052820 -

SHUT DOWN REPORT:

SIGNATURE: [Signature]
SERRANO, M. V. P. 08/16/02



063

DATE: 07.29.02

START-UP/SHUT DOWN REPORT

STATION NO.: 063

SYSTEM TYPE: - CARBON -

START-UP REPORT:

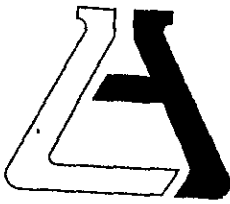
SHUT DOWN REPORT:

SHUT DOWN FOR CARBON CHANGE

FLOW - 1052820 -

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

LAB REQUEST 99470

REPORTED 10/02/2002

RECEIVED 09/21/2002

PROJECT Station #063

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.

379821

379822

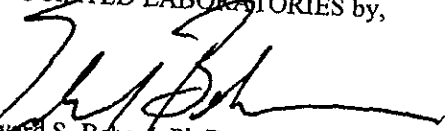
Client Sample Identification

TOC #063, Outlet

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. Bohare, 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 #: 379821

Client Sample ID: TOC #063, Outlet

Matrix: WATER

Date Sampled: 09/20/2002

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
624 Volatile Organic Compounds by GC/MS						
1,1,1-Trichloroethane	ND	1	5	0.13	ug/L	09/27/02 DP
1,1,2,2-Tetrachloroethane	ND	1	5	0.14	ug/L	09/27/02 DP
1,1,2-Trichloroethane	ND	1	5	0.30	ug/L	09/27/02 DP
1,1-Dichloroethane	ND	1	5	0.14	ug/L	09/27/02 DP
1,1-Dichloroethene	ND	1	5	0.11	ug/L	09/27/02 DP
1,2-Dichlorobenzene	ND	1	5	0.14	ug/L	09/27/02 DP
1,2-Dichloroethane	ND	1	5	0.14	ug/L	09/27/02 DP
1,2-Dichloropropane	ND	1	5	0.17	ug/L	09/27/02 DP
1,3-Dichlorobenzene	ND	1	5	0.10	ug/L	09/27/02 DP
1,4-Dichlorobenzene	ND	1	5	0.66	ug/L	09/27/02 DP
2-Chloroethylvinyl ether	ND	1	10	2.00	ug/L	09/27/02 DP
Acrolein	ND	1	10	5.7	ug/L	09/27/02 DP
Acrylonitrile	ND	1	10	3.1	ug/L	09/27/02 DP
Benzene	ND	1	5	0.10	ug/L	09/27/02 DP
Bromodichloromethane	ND	1	5	0.11	ug/L	09/27/02 DP
Bromoform	ND	1	5	0.24	ug/L	09/27/02 DP
Bromomethane	ND	1	10	0.32	ug/L	09/27/02 DP
Carbon tetrachloride	ND	1	5	0.13	ug/L	09/27/02 DP
Chlorobenzene	ND	1	5	0.34	ug/L	09/27/02 DP
Chloroethane	ND	1	10	0.65	ug/L	09/27/02 DP
Chloroform	ND	1	5	0.10	ug/L	09/27/02 DP
Chloromethane	ND	1	10	0.54	ug/L	09/27/02 DP
Dibromochloromethane	ND	1	5	0.22	ug/L	09/27/02 DP
Ethyl benzene	ND	1	5	0.06	ug/L	09/27/02 DP
Methylene chloride	ND	1	5	0.15	ug/L	09/27/02 DP
Tetrachloroethene	ND	1	5	0.11	ug/L	09/27/02 DP
Toluene	ND	1	5	0.15	ug/L	09/27/02 DP
Trichloroethene	ND	1	5	0.13	ug/L	09/27/02 DP
Trichlorofluoromethane	ND	1	5	0.61	ug/L	09/27/02 DP
Vinyl chloride	ND	1	10	0.21	ug/L	09/27/02 DP
cis-1,3-Dichloropropene	ND	1	5	0.13	ug/L	09/27/02 DP
trans-1,2-Dichloroethene	ND	1	5	0.18	ug/L	09/27/02 DP
trans-1,3-Dichloropropene	ND	1	5	0.19	ug/L	09/27/02 DP

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



Order #: 379821

Client Sample ID: TOC #063, Outlet

Matrix: WATER

Date Sampled: 09/20/2002

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8015M - Total Petroleum Hydrocarbons						
Gasoline	ND	1	50	50	ug/L	09/25/02 LZ

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



Order #: 379822

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
624 Volatile Organic Compounds by GC/MS						
1,1,1-Trichloroethane	ND	1	5	0.13	ug/L	09/27/02 DP
1,1,2,2-Tetrachloroethane	ND	1	5	0.14	ug/L	09/27/02 DP
1,1,2-Trichloroethane	ND	1	5	0.30	ug/L	09/27/02 DP
1,1-Dichloroethane	ND	1	5	0.14	ug/L	09/27/02 DP
1,1-Dichloroethene	ND	1	5	0.11	ug/L	09/27/02 DP
1,2-Dichlorobenzene	ND	1	5	0.14	ug/L	09/27/02 DP
1,2-Dichloroethane	ND	1	5	0.14	ug/L	09/27/02 DP
1,2-Dichloropropane	ND	1	5	0.17	ug/L	09/27/02 DP
1,3-Dichlorobenzene	ND	1	5	0.10	ug/L	09/27/02 DP
1,4-Dichlorobenzene	ND	1	5	0.66	ug/L	09/27/02 DP
2-Chloroethylvinyl ether	ND	1	10	2.00	ug/L	09/27/02 DP
Acrolein	ND	1	10	5.7	ug/L	09/27/02 DP
Acrylonitrile	ND	1	10	3.1	ug/L	09/27/02 DP
Benzene	ND	1	5	0.10	ug/L	09/27/02 DP
Bromodichloromethane	ND	1	5	0.11	ug/L	09/27/02 DP
Bromoform	ND	1	5	0.24	ug/L	09/27/02 DP
Bromomethane	ND	1	10	0.32	ug/L	09/27/02 DP
Carbon tetrachloride	ND	1	5	0.13	ug/L	09/27/02 DP
Chlorobenzene	ND	1	5	0.34	ug/L	09/27/02 DP
Chloroethane	ND	1	10	0.65	ug/L	09/27/02 DP
Chloroform	ND	1	5	0.10	ug/L	09/27/02 DP
Chloromethane	ND	1	10	0.54	ug/L	09/27/02 DP
Dibromochloromethane	ND	1	5	0.22	ug/L	09/27/02 DP
Ethyl benzene	ND	1	5	0.06	ug/L	09/27/02 DP
Methylene chloride	ND	1	5	0.15	ug/L	09/27/02 DP
Tetrachloroethene	ND	1	5	0.11	ug/L	09/27/02 DP
Toluene	ND	1	5	0.15	ug/L	09/27/02 DP
Trichloroethene	ND	1	5	0.13	ug/L	09/27/02 DP
Trichlorofluoromethane	ND	1	5	0.61	ug/L	09/27/02 DP
Vinyl chloride	ND	1	10	0.21	ug/L	09/27/02 DP
cis-1,3-Dichloropropene	ND	1	5	0.13	ug/L	09/27/02 DP
trans-1,2-Dichloroethene	ND	1	5	0.18	ug/L	09/27/02 DP
trans-1,3-Dichloropropene	ND	1	5	0.19	ug/L	09/27/02 DP

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



Order #: 379822

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8015M - Total Petroleum Hydrocarbons						
Gasoline	ND	1	50	50	ug/L	09/25/02 LZ

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



ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: LCS 092502
 Matrix: WATER
 Prep. Date: 09/25/02
 Analysis Date: 09/25/02
 ID#'s in Batch: LR 99470

LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT

Reporting Units = mg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	459	452	92	90	2

ND = Not Detected

LCS Result = Lab Control Sample Result

%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate

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

%REC LIMITS = 70 - 130
RPD LIMITS = 30

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	55-156
Method Blank	64
LCS	129
LCSD	145

AAA-TFT = a,a,a-Trifluorotoluene

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

QC Sample: LCS/LCSD - Water Samples
 Analysis Date: 09/27/02
 Applies to: LR 99470
 Reporting Units = ug/L

Lab Controlled Spike / Lab Controlled Spike Duplicate

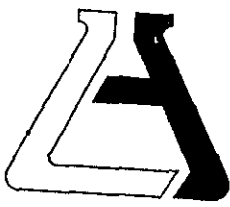
Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50	47.94	51.25	96	103	7	22	59-172
MTBE	ND	50	44.52	45.67	89	91	3	24	62-137
Benzene	ND	50	48.17	50.62	96	101	5	24	62-137
Trichloroethene	ND	50	52.60	53.92	105	108	2	21	66-142
Toluene	ND	50	49.47	50.13	99	100	1	21	59-139
Chlorobenzene	ND	50	47.42	49.83	95	100	5	21	60-133

QC Sample: LCS # 4, 10:00 am
 Analysis Date: 09/27/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits
					%REC
1,1-Dichloroethene	ND	50	58.34	117	59-172
MTBE	ND	50	44.13	88	62-137
Benzene	ND	50	48.39	97	62-137
Trichloroethene	ND	50	57.44	115	66-142
Toluene	ND	50	50.85	102	59-139
Chlorobenzene	ND	50	50.21	100	60-133

Method Blank = All ND



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 95853
REPORTED 07/12/2002 ✓
RECEIVED 07/10/2002

PROJECT Station #063 ✓
6125 Telegraph Ave., Oakland

SUBMITTER Client

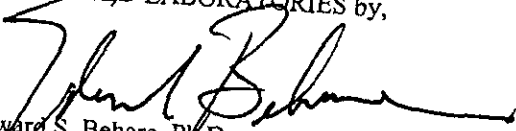
COMMENTS

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>
364121	TOC #063, Outlet
364122	TOC #063, Int 1
364123	TOC #063, Int 2
364124	TOC #063, Int 3
364125	TOC #063, Inlet
364126	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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 364121
Matrix: WATER

Client Sample ID: TOC #063, Outlet
Date Sampled: 07/08/2002 Time Sampled: 12:10

Analyte

8021B BTEX + MTBE

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
Benzene	ND	1	0.3	0.18 ug/L	07/11/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	07/11/02 HP
Methyl t - butyl ether	ND	1	5	0.24 ug/L	07/11/02 HP
Toluene	ND	1	0.3	0.14 ug/L	07/11/02 HP
Xylene (total)	ND	1	0.6	0.26 ug/L	07/11/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	07/11/02 HP
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	93			%	70 - 130

Order #: 364122
Matrix: WATER

Client Sample ID: TOC #063, Int 1
Date Sampled: 07/08/2002 Time Sampled: 12:20

Analyte

8021B BTEX + MTBE

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
Benzene	ND	1	0.3	0.18 ug/L	07/11/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	07/11/02 HP
Methyl t - butyl ether	ND	1	5	0.24 ug/L	07/11/02 HP
Toluene	ND	1	0.3	0.14 ug/L	07/11/02 HP
Xylene (total)	ND	1	0.6	0.26 ug/L	07/11/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	07/11/02 HP
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	94			%	70 - 130

Order #: 364123
Matrix: WATER

Client Sample ID: TOC #063, Int 2
Date Sampled: 07/08/2002 Time Sampled: 12:30

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	2.0	1	0.3	0.18 ug/L	07/11/02 HP
Ethyl benzene	1.5	1	0.3	0.18 ug/L	07/11/02 HP
Methyl t - butyl ether	7,210	200	1000.0	0.24 ug/L	07/11/02 HP
Toluene	2.0	1	0.3	0.14 ug/L	07/11/02 HP
Xylene (total)	2.2	1	0.6	0.26 ug/L	07/11/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	5,160	1	50	50 ug/L	07/11/02 HP
Surrogates					
a,a,a-Trifluorotoluene	144			Units	Control Limits
				%	70 - 130

Order #: <input type="text" value="364124"/>	Client Sample ID: TOC #063, Int 3
Matrix: WATER	Date Sampled: 07/08/2002 Time Sampled: 12:40
Analyte	Result DF PQL MDL Units Date/Analyst

8021B BTEX + MTBE

Benzene	4.0	1	0.3	0.18 ug/L	07/11/02 HP
Ethyl benzene	2.0	1	0.3	0.18 ug/L	07/11/02 HP
Methyl t - butyl ether	8,550	200	1000.0	0.24 ug/L	07/11/02 HP
Toluene	1.3	1	0.3	0.14 ug/L	07/11/02 HP
Xylene (total)	3.0	1	0.6	0.26 ug/L	07/11/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	5,560	1	50	50 ug/L	07/11/02 HP
Surrogates					
a,a,a-Trifluorotoluene	138			Units	Control Limits
				%	70 - 130

Order #: <input type="text" value="364125"/>	Client Sample ID: TOC #063, Inlet
Matrix: WATER	Date Sampled: 07/08/2002 Time Sampled: 12:50
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	07/11/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	07/11/02 HP
Methyl t - butyl ether	6,980	200	1000.0	0.24 ug/L	07/11/02 HP
Toluene	1.2	1	0.3	0.14 ug/L	07/11/02 HP
Xylene (total)	2.0	1	0.6	0.26 ug/L	07/11/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	4,710	1	50	50 ug/L	07/11/02 HP
Surrogates					
a,a,a-Trifluorotoluene	154			Units %	Control Limits 70 - 130

Order #: 364126

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	07/11/02 HP
Ethyl benzene	ND	1	0.3	0.18 ug/L	07/11/02 HP
Methyl t - butyl ether	ND	1	5	0.24 ug/L	07/11/02 HP
Toluene	ND	1	0.3	0.14 ug/L	07/11/02 HP
Xylene (total)	ND	1	0.6	0.26 ug/L	07/11/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	07/11/02 HP
Surrogates					
a,a,a-Trifluorotoluene	91			Units %	Control Limits 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 95821-951
 Matrix: WATER
 Prep. Date: 07/11/02
 Analysis Date: 07/11/02-07/12/02
 ID#'s in Batch: LR 95827, 95853

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	216	207	108	104	4

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	202	200	101	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	91
MS	120
MSD	117
Method Blank	91
LCS	119

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 9594-925
 Matrix: WATER
 Prep. Date: 07/10/02
 Analysis Date: 07/10/02-07/11/02
 LAB ID#'s in Batch: LR 95821, 95853, 95892

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	9.4	9.3	94	93	1
Toluene	8021	ND	10	9.7	9.7	97	97	0
Ethylbenzene	8021	ND	10	11.5	11.4	115	114	1
Xylenes	8021	ND	20	19.9	19.9	100	100	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	9.1	10	91	80%	120%
Toluene	8021	ND	9.6	10	96	80%	120%
Ethylbenzene	8021	ND	11.2	10	112	80%	120%
Xylenes	8021	ND	19.0	20	95	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	97
MS	98
MSD	98
Method Blank	89
LCS	107

AAA-TFT = a,a,a-Trifluorotoluene

