

# THRIFTY OIL CO.

RW 4 | AG

O.51286

October 25, 2004

Mr. Barney Chan  
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 #6657839357

RE: **Former Thrifty Oil Co. Station #049**  
3400 San Pablo Avenue  
Oakland, CA 94612  
**3rd Quarter 2004, Status Report**

OCT 25 2004

Dear Mr. Chan:

Presented herein is the 3rd Quarter 2004, Status Report prepared for former Thrifty Oil Co. (Thrifty) Station #049 located at 3400 San Pablo Avenue, Oakland, California (**Figure 1**). This report presents the results of the site monitoring and remedial activities conducted during the third quarter of 2004. 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 5.56 feet below top of casing (btc) in monitoring well MW-5 to 7.01 feet btc in monitoring well MW-1 (**Appendix A**). A groundwater elevation contour map based on the July 21, 2004, monitoring data is presented in **Figure 2**. Groundwater elevation data indicates that groundwater flow to the southwest under at an approximate gradient of 0.0205 feet/foot.

## Quarterly Groundwater Sampling

As part of the ongoing groundwater-monitoring program, EMC obtained groundwater samples from monitoring wells MW-1, MW-2R, MW-3, MW-4R, MW-5, MW-6, MW-7, and RW-1R on July 21, 2004. Groundwater wells MW-2 and MW-4 and recovery well RW-1 were abandoned by Advanced GeoEnvironmental (AGE) in January 2004, and replacement wells MW-2R, MW-4R, and RW-1R were installed as part of an upgrade to the groundwater recovery system. Groundwater samples were delivered by EMC in a chilled state following strict Chain-of-Custody procedures to a state-certified laboratory and analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M. Volatile organic compounds of benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tert butyl ether (MTBE), and other oxygenates were analyzed by EPA Method 8260B. A summary of historical analytical sampling results for TPHg, BTEX, and MTBE is provided in **Table 1** and other oxygenates data is provided on **Table 2**. Copies of the EMC Field Data Groundwater Sampling Forms are provided in **Appendix A**, and copies of the laboratory analytical reports are contained in **Appendix B**.

TPHg, benzene, and MTBE isoconcentration maps in micrograms per liter (ug/L) were prepared using data from the July 21, 2004, sampling event and are presented in **Figures 3, 4, and 5**, respectively. Laboratory results indicate the highest concentrations of TPHg and MTBE were detected in well MW-4R (14,500 ug/L and 18,900 ug/L, respectively). Benzene was not detected above the method detection limit.



Mr. Barney Chan  
Thrifty #049  
3rd Quarter 2004  
Page 2

Concentrations of TPHg, benzene, and MTBE all decreased in well MW-3 from the sample collected on October 20, 2003. However, elevated concentrations of TPHg and MTBE were detected in upgradient well MW-5. The groundwater flow direction and TPHg, benzene, and MTBE contour maps suggest that an upgradient source is likely.

### **Remediation Status**

Site remedial activities were initiated in April 1991. 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 3**. On February 14, 2003, the groundwater system was shut down initially for carbon replacement, and on April 4, 2003, the system was left off for system upgrade activities. As of April 4, 2003, the system has treated approximately 1,445,088 gallons of groundwater since start up (April 1991).

The upgraded remediation system was restarted by Advance GeoEnvironmental (AGE) for continuous operation on June 21, 2004. The primary components of the upgraded system within the treatment compound consist of an air compressor, 500 gallon Poly settling tank, control panel, and three 200 pound granular activated carbon canisters (**Figure 6**). The upgraded system is removing groundwater from extraction wells MW-2R, MW-4R, and RW-1R that are each equipped with downhole submersible pumps. According to AGE, as of September 21, 2004, the system produced and treated 24,766 gallons of water. A quarterly effluent water sample from the PSP-1 sampling port was collected on September 3, 2004, and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B. BTEX compounds were not detected above their respective detection limits. Copies of the analytical results are provided in **Appendix C**.

### **Other Activities**

Thrifty selected AGE to conduct remedial system upgrade activities including installation of a new treatment compound, installation of new piping, connection of piping to the replacement well network, and the operation and maintenance of the upgraded groundwater pump and treat system. In January 2004, AGE abandoned wells MW-2, MW-4, and RW-1 and replaced them with wells MW-2R, MW-4R, and RW-1R. AGE also completed four (4) offsite soil borings (B-1 through B-4). In a transmittal letter dated March 11, 2004, Thrifty submitted preliminary soil and groundwater data from the offsite soil borings and onsite well replacement activities. On March 18, 2004, Thrifty, AGE, and the Alameda Health Care Agency (ACHCA) met at the site to discuss the location of offsite well MW-8 and the soil and groundwater data provided by Thrifty. In a letter dated March 19, 2004, the ACHCA requested that Thrifty prepare a workplan to address the offsite contamination detected in the data from the January 2004 site assessment conducted by AGE. After further discussing the scope of work with the ACHCA in e-mail dated April 27, 2004, Thrifty submitted a workplan to install one onsite and two offsite wells downgradient of the site. The ACHCA responded in an e-mail dated May 4, 2004, requesting additional borings to delineate the plume to the west and southwest of the site. Thrifty submitted a revised Workplan for Additional Offsite Assessment dated May 7, 2004 that included two additional borings to the southwest of the site. In a letter dated May 17, 2004, the ACHCA approved the May 7, 2004, workplan with the request

Mr. Barney Chan  
Thrifty #049  
3rd Quarter 2004  
Page 3

that additional borings be considered if soil and groundwater samples indicate significant hydrocarbon contamination. The ACHCA also suggested moving the location of onsite well MW-10 slightly to the west or installing a second boring along the northern boundary of the site. Thrifty has selected GeoHydrologic Consultants, Inc. (GHC) to conduct site assessment activities. GHC has obtained well permits and is in the process of obtaining an encroachment permit from the City of Oakland Public Works Department. Field work should begin in November 2004 and a site assessment report submitted in late in December or early January 2005.

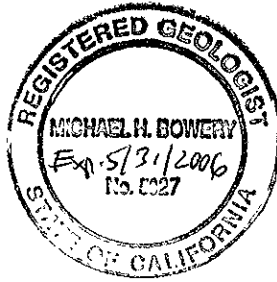
The groundwater monitoring wells will be monitored and sampled during the next quarter. All site monitoring/sampling data generated during the next quarter will be reported in the Fourth Quarter 2004 monitoring report.

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

Sincerely,



Michael H. Bowery, R. G.  
Project Manager



Chris Panaitescu  
General Manager  
Environmental Affairs

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

# ***TABLES***

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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MIBE (ug/L)					
<b>MONITORING WELL #MW-1</b> <i>Screen Interval = 5 to 25 feet</i>											
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
07/31/02	<50	<0.18	1.3	<0.18	<0.26	<0.24	5.49	NP	0.00	98.03	92.54
11/14/02	<50	<0.08	<0.18	<0.17	<0.4	16	6.13	NP	0.00	98.03	91.90
01/29/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	2.45	NP	0.00	98.03	95.58
04/23/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	7.02	NP	0.00	98.03	91.01

**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)					
07/10/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	5.15	NP	0.00	98.03	92.88
10/20/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	5.13	NP	0.00	98.03	92.90
01/14/04	<15	<0.04	<0.02	<0.02	<0.06	<0.03	3.92	NP	0.00	98.03	94.11
04/08/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	4.54	NP	0.00	98.03	93.49
07/21/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	7.01	NP	0.00	98.03	91.02
<b>MONITORING WELL #MW-2</b>											
<i>Screen Interval = 5 to 25 feet</i>											
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	2.0	2.0	3.0	* 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	2.0	* 7960 / 1,710	6.92	NP	0.00	97.44	90.52

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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
10/10/01	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	1.0	1.0	2.0	*2,560 / 1,590	8.45	NP	0.00	97.44	88.99
04/17/02	1,470	1.0	<0.14	<0.18	<0.26	*2,460 / 2,080	8.45	NP	0.00	97.44	88.99
07/31/02	3,910	<0.18	1.2	<0.18	2.1	*2,090 / 1,740	9.98	NP	0.00	97.44	87.46
11/14/02	39,400	1,680	728	173	5,120	8,270	5.40	NP	0.00	97.44	92.04
01/29/03	22,100	746	76	<1.0	2,840	8,220	8.43	NP	0.00	97.44	89.01
04/23/03	19,500	<0.8	<0.4	<0.4	<1.2	9,580	5.38	NP	0.00	97.44	92.06
07/10/03	29,900	<2.2	<3.2	<3.1	<4.0	6,690	5.10	NP	0.00	97.44	92.34
10/20/03	13,000	4.79	<0.02	<0.02	<0.06	*6,330 / 5,980	5.10	NP	0.00	97.44	92.34
01/14/04	WELL ABANDONED 01/2004										
<b>MONITORING WELL #MW-2R</b>											
04/08/04	11,600	304	16 J	55	427	4,170	4.58	NP	0.00	-	-
07/21/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	6.72	NP	0.00	-	-
<b>MONITORING WELL #MW-3</b> <i>Screen Interval = 5 to 25 feet</i>											
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

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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
10/13/99	<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	<0.18	1.0	*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
07/31/02	138	1.1	1.2	<0.18	<0.26	<0.24	5.76	NP	0.00	97.69	91.93
11/14/02	<50	<0.08	<0.18	<0.17	<0.4	21	5.73	NP	0.00	97.69	91.96
01/29/03	<15	<0.04	<0.02	<0.02	<0.06	16	7.30	NP	0.00	97.69	90.39
04/23/03	<15	<0.04	<0.02	<0.02	<0.06	16	5.76	NP	0.00	97.69	91.93
07/10/03	<15	<0.22	<0.32	<0.31	<0.4	11	5.63	NP	0.00	97.69	92.06
10/20/03	13,700	4.13	<0.02	<0.02	<0.06	*6,570 / 4,920	5.61	NP	0.00	97.69	92.08
01/14/04	1,160	2.0	2.2	6.1	7.8	*1,510 / 767	4.23	NP	0.00	97.69	93.46
04/08/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	5.48	NP	0.00	97.69	92.21
07/21/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	6.66	NP	0.00	97.69	91.03
<b>MONITORING WELL #MW-4</b> Screen Interval = 4 to 14 feet											
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



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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
01/15/98	-	-	-	-	-	-	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	3.0	1.0	3.0	*43,000 / 24,900	4.51	NP	0.00	97.33	92.82
04/17/02	12,900	8.0	1.0	<0.18	1.0	16,000 / 13,600	4.51	NP	0.00	97.33	92.82
07/31/02	19,300	<0.18	1.2	1.5	2.6	*13,200 / 10,100	5.26	NP	0.00	97.33	92.07
11/14/02	36,200	1,720	940	235	6,190	8,280	5.27	NP	0.00	97.33	92.06
01/29/03	13,000	444	39	<0.4	1,200	8,160	4.50	NP	0.00	97.33	92.83
04/23/03	7,430	130	5.7	<0.2	387	5,830	4.80	NP	0.00	97.33	92.53
07/10/03	16,200	<2.2	<3.2	<3.1	<4.0	3,930	4.55	NP	0.00	97.33	92.78
10/20/03	6,040	672	384	3.4	444	*3,780 / 3,220	4.56	NP	0.00	97.33	92.77
01/14/04	WELL ABANDONED 01/2004										
<b>MONITORING WELL #MW-4R</b>											
04/08/04	37,900	819	424	159	3,190	18,400	4.96	NP	0.00	-	-
07/21/04	14,500	<2.2	<3.2	<3.1	39 J	18,900	6.60	NP	0.00	-	-
<b>MONITORING WELL #MW-5</b> <i>Screen Interval = 4 to 14 feet</i>											
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

**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)					
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	98.85	92.22	
04/08/96	<50	<0.3	<0.3	<0.3	<0.5	-	5.22	NP	98.85	93.63	
07/22/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.62	NP	98.85	92.23	
10/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.12	NP	98.85	92.73	
01/22/97	<50	<0.3	<0.3	<0.3	<0.5	<20	5.17	NP	98.85	93.68	
04/21/97	73	2.5	0.34	0.74	3.8	21	6.64	NP	98.85	92.21	
07/14/97	<50	<0.3	<0.3	<0.3	<0.5	<20	6.67	NP	98.85	92.18	
10/07/97	130	<0.3	<0.3	<0.3	<0.5	-	8.20	NP	98.85	90.65	
01/19/98	85	<0.3	<0.3	<0.3	<0.5	-	1.55	NP	98.85	97.30	
04/23/98	220	0.39	<0.3	<0.3	<0.5	350	8.10	NP	98.85	90.75	
07/20/98	<50	<0.3	<0.3	<0.3	<0.5	<5	6.30	NP	98.85	92.55	
10/14/98	<50	<0.3	<0.3	<0.3	<0.5	<5	7.65	NP	98.85	91.20	
01/21/99	<50	<0.3	<0.3	<0.3	<0.5	*6.7 / <5	6.15	NP	98.85	92.70	
04/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	1.60	NP	98.85	97.25	
07/26/99	<50	<0.3	<0.3	<0.3	<0.5	<5	6.13	NP	98.85	92.72	
10/13/99	<50	<0.3	<0.3	<0.3	<0.5	<5	6.61	NP	98.85	92.24	
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	<5	6.14	NP	98.85	92.71	
04/05/00	<50	0.5	<0.25	<0.25	<0.5	*5.4 / <5	4.58	NP	98.85	94.27	
07/19/00	<50	<0.3	<0.3	<0.3	<0.6	<5	4.59	NP	98.85	94.26	
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	6.28	NP	98.85	92.57	
01/17/01	<50	<0.18	<0.14	<0.18	1.0	*5 / 4.8	4.58	NP	98.85	94.27	
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4.58	NP	98.85	94.27	
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	6.12	NP	98.85	92.73	
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4.58	NP	98.85	94.27	
01/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4.48	NP	98.85	94.37	
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4.58	NP	98.85	94.27	
07/31/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	6.10	NP	98.85	92.75	
11/14/02	<50	<0.08	<0.18	<0.17	<0.4	9	6.11	NP	98.85	92.74	
01/29/03	<15	<0.04	<0.02	<0.02	<0.06	7.1	4.55	NP	98.85	94.30	
04/23/03	<15	<0.04	<0.02	<0.02	<0.06	7.9	3.03	NP	98.85	95.82	
07/10/03	<15	<0.22	<0.32	<0.31	<0.4	7.4	5.25	NP	98.85	93.60	
10/20/03	<15	<0.04	<0.02	<0.02	<0.06	*9.11 / 9.2	5.25	NP	98.85	93.60	
01/14/04	<15	<0.04	<0.02	<0.02	<0.06	*8.2 / 4.1	3.03	NP	98.85	95.82	
04/08/04	797	<0.22	<0.32	<0.31	<0.4	635	4.35	NP	98.85	94.50	
07/21/04	548	<0.22	<0.32	<0.31	<0.4	788	5.56	NP	98.85	93.29	

**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)					
<b>MONITORING WELL #MW-6</b> <i>Screen Interval = 4 to 14 feet</i>											
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	1.0	2.0	<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	<0.18	3.0	*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
07/31/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	5.40	NP	0.00	99.67	94.27
11/14/02	140	3.2	<0.18	5.2	<0.4	111	5.42	NP	0.00	99.67	94.25
01/29/03	694 J	<0.04	<0.02	<0.02	<0.06	630	3.88	NP	0.00	99.67	95.79

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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
04/23/03	1,550	<0.04	<0.02	<0.02	<0.06	578	3.86	NP	0.00	99.67	95.81
07/10/03	1,670	<0.22	<0.32	<0.31	<0.4	509	5.31	NP	0.00	99.67	94.36
10/20/03	1,320	<0.04	<0.02	<0.02	<0.06	*656 / 662	5.30	NP	0.00	99.67	94.37
01/14/04	272	<0.04	<0.02	<0.02	<0.06	*304 / 180	3.82	NP	0.00	99.67	95.85
04/08/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	5.18	NP	0.00	99.67	94.49
07/21/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	6.42	NP	0.00	99.67	93.25
<b>MONITORING WELL #MW-7</b> <i>Screen Interval = 4 to 14 feet</i>											
01/09/92	-	-	-	-	-	-	6.30	NP	0.00	99.02	92.72
04/13/92	-	-	-	-	-	-	6.68	NP	0.00	99.02	92.34
10/05/92	-	-	-	-	-	-	9.60	NP	0.00	99.02	89.42
01/06/93	-	-	-	-	-	-	13.90	NP	0.00	99.02	85.12
04/26/93	-	-	-	-	-	-	5.55	NP	0.00	99.02	93.47
01/04/94	-	-	-	-	-	-	7.58	NP	0.00	99.02	91.44
04/05/94	-	-	-	-	-	-	6.66	NP	0.00	99.02	92.36
10/09/95	27,000	2,400	140	1,700	2,700	-	-	-	-	99.02	-
01/08/96	13,000	800	42	540	860	-	6.94	NP	0.00	99.02	92.08
04/08/96	9,100	840	31	690	1,200	-	5.48	NP	0.00	99.02	93.54
07/22/96	11,000	1,700	22	660	700	840	6.60	NP	0.00	99.02	92.42
10/16/96	180	<0.3	<0.3	<0.3	<0.5	270	6.42	NP	0.00	99.02	92.60
01/22/97	130	<0.3	<0.3	<0.3	<0.5	470	5.70	NP	0.00	99.02	93.32
04/21/97	10,000	1,400	27	820	490	1,100	5.30	NP	0.00	99.02	93.72
07/14/97	8,200	660	15	230	270	560	7.90	NP	0.00	99.02	91.12
10/07/97	7,700	480	15	8.4	350	-	7.70	NP	0.00	99.02	91.32
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	3.0	*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

**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)					
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	9.0	8.0	6.0	*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
07/31/02	<50	<0.18	<0.14	<0.18	<0.26	*39 / 33	5.93	NP	0.00	99.02	93.09
11/14/02	<50	<0.08	<0.18	<0.17	<0.4	6.8	5.92	NP	0.00	99.02	93.10
01/29/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	5.51	NP	0.00	99.02	93.51
04/23/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	5.14	NP	0.00	99.02	93.88
07/10/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	5.03	NP	0.00	99.02	93.99
10/20/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	5.01	NP	0.00	99.02	94.01
01/14/04	<15	<0.04	<0.02	<0.02	<0.06	<0.03	4.38	NP	0.00	99.02	94.64
04/08/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	4.86	NP	0.00	99.02	94.16
07/21/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	6.82	NP	0.00	99.02	92.20
<b>MONITORING WELL #RW-1</b>											
01/09/92	-	-	-	-	-	-	14.00	NP	0.00	-	-
04/13/92	-	-	-	-	-	-	14.00	NP	0.00	-	-
10/05/92	-	-	-	-	-	-	15.05	NP	0.00	-	-
01/06/93	-	-	-	-	-	-	5.43	NP	0.00	-	-
04/26/93	-	-	-	-	-	-	13.20	NP	0.00	-	-
01/04/94	-	-	-	-	-	-	14.30	NP	0.00	-	-
04/05/94	-	-	-	-	-	-	14.13	NP	0.00	-	-
01/08/96	-	-	-	-	-	-	14.22	NP	0.00	-	-
04/08/96	-	-	-	-	-	-	14.33	NP	0.00	-	-
07/22/96	8,100	530	84	120	860	-	14.27	NP	0.00	-	-
10/16/96	-	-	-	-	-	-	13.10	NP	0.00	-	-
01/22/97	-	-	-	-	-	-	16.97	NP	0.00	-	-
10/07/97	-	-	-	-	-	-	14.20	NP	0.00	-	-
01/15/98	-	-	-	-	-	-	15.60	NP	0.00	-	-
04/23/98	81,000	0.72	1.4	3.2	5.7	270,000	14.20	NP	0.00	-	-
07/20/98	-	-	-	-	-	-	14.30	NP	0.00	-	-
10/14/98	-	-	-	-	-	-	11.20	NP	0.00	-	-
01/21/99	-	-	-	-	-	-	-	-	-	-	-
04/15/99	-	-	-	-	-	-	13.10	NP	0.00	-	-
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	-	-	-	-	-	-	-	-	-	-	-

**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)						
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	-	-	
07/31/02	-	-	-	-	-	-	14.21	NP	0.00	-	-	
11/14/02	-	-	-	-	-	-	14.13	NP	0.00	-	-	
01/29/03	-	-	-	-	-	-	13.12	NP	0.00	-	-	
04/23/03	-	-	-	-	-	-	No Access	-	-	-	-	
07/10/03	-	-	-	-	-	-	No Access	-	-	-	-	
10/20/03	-	-	-	-	-	-	No Access	-	-	-	-	
01/14/04	WELL ABANDONED 01/2004											
<b>MONITORING WELL #RW-1R</b>												
04/08/04	6,740	42	32 J	<3 I	1,160	239	4.76	NP	0.00	-	-	
07/21/04	118	<0.22	<0.32	<0.31	<0.4	107	6.85	NP	0.00	-	-	

**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  
 On 7/21/04, 4/08/04, 7/10/03 & 11/14/02, BTEX and MTBE done by 8260B

**TABLE 2  
ADDITIONAL GROUNDWATER DATA  
THRIFTY OIL STATION # 049, OAKLAND, CA.**

DATE SAMPLED	OXYGENATES				1,2-Dichloroethane (ug/L)
	Di-Isopropyl Ether (DIPE) (ug/L)	Ethyl-Tert-Butyl Ether (ETBE) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	Tert-Butyl Alcohol (TBA) (ug/L)	
<b>MONITORING WELL # MW-1</b>					
11/14/02	<0.2	<0.12	<0.16	<10	<0.13
01/29/03	-	-	-	-	-
04/23/03	-	-	-	-	-
07/10/03	<0.29	<0.17	<0.28	<10	-
10/20/03	-	-	-	-	-
01/14/04	-	-	-	-	-
04/08/04	-	-	-	-	-
07/21/04	-	-	-	-	-
<b>MONITORING WELL # MW-2</b>					
11/14/02	<2.0	<1.2	111	341	<1.3
01/29/03	-	-	-	-	-
04/23/03	-	-	-	-	-
07/10/03	<2.9	<1.7	59	449	-
10/20/03	-	-	-	-	-
01/14/04	WELL ABANDONED 01/2004				
<b>MONITORING WELL # MW-3</b>					
11/14/02	<0.2	<0.12	<0.16	<10	<0.13
01/29/03	-	-	-	-	-
04/23/03	-	-	-	-	-
07/10/03	<0.29	<0.17	<0.28	<10	-
10/20/03	-	-	-	-	-
01/14/04	-	-	-	-	-
04/08/04	-	-	-	-	-
07/21/04	-	-	-	-	-
<b>MONITORING WELL # MW-4</b>					
11/14/02	<2.0	<1.2	106	281	<1.3
01/29/03	-	-	-	-	-
04/23/03	-	-	-	-	-
07/10/03	<2.9	<1.7	35	<100	-
10/20/03	-	-	-	-	-
01/14/04	WELL ABANDONED 01/2004				
<b>MONITORING WELL # MW-5</b>					
11/14/02	<0.2	<0.12	<0.16	<10	<0.13
01/29/03	-	-	-	-	-
04/23/03	-	-	-	-	-
07/10/03	<0.29	<0.17	<0.28	<10	-
10/20/03	-	-	-	-	-
01/14/04	-	-	-	-	-
04/08/04	-	-	-	-	-
07/21/04	-	-	-	-	-
<b>MONITORING WELL # MW-6</b>					
11/14/02	<0.2	<0.12	<0.16	<10	<0.13
01/29/03	-	-	-	-	-
04/23/03	-	-	-	-	-
07/10/03	<0.29	<0.17	2.1	38	-
10/20/03	-	-	-	-	-
01/14/04	-	-	-	-	-

**TABLE 2  
 ADDITIONAL GROUNDWATER DATA  
 THRIFTY OIL STATION # 049, OAKLAND, CA.**

DATE SAMPLED	OXYGENATES				1,2-Dichloroethane (ug/L)
	Df-Isopropyl Ether (DIPE) (ug/L)	Ethyl-Tert-Butyl Ether (ETBE) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	Tert-Butyl Alcohol (TBA) (ug/L)	
04/08/04	-	-	-	-	-
07/21/04	-	-	-	-	-
<b>MONITORING WELL # MW-7</b>					
11/14/02	<0.2	<0.12	<0.16	<10	<0.13
01/29/03	-	-	-	-	-
04/23/03	-	-	-	-	-
07/10/03	<0.29	<0.17	<0.28	<10	-
10/20/03	-	-	-	-	-
01/14/04	-	-	-	-	-
04/08/04	-	-	-	-	-
07/21/04	-	-	-	-	-

NOTE: DIPE, ETBE, TAME, TBA analyzed by EPA Method 8260B



**TABLE 3**  
**PROCESSED WATER DATA**  
**Thrifty Station #049**  
**3400 San Pablo Avenue**  
**Oakland, CA**

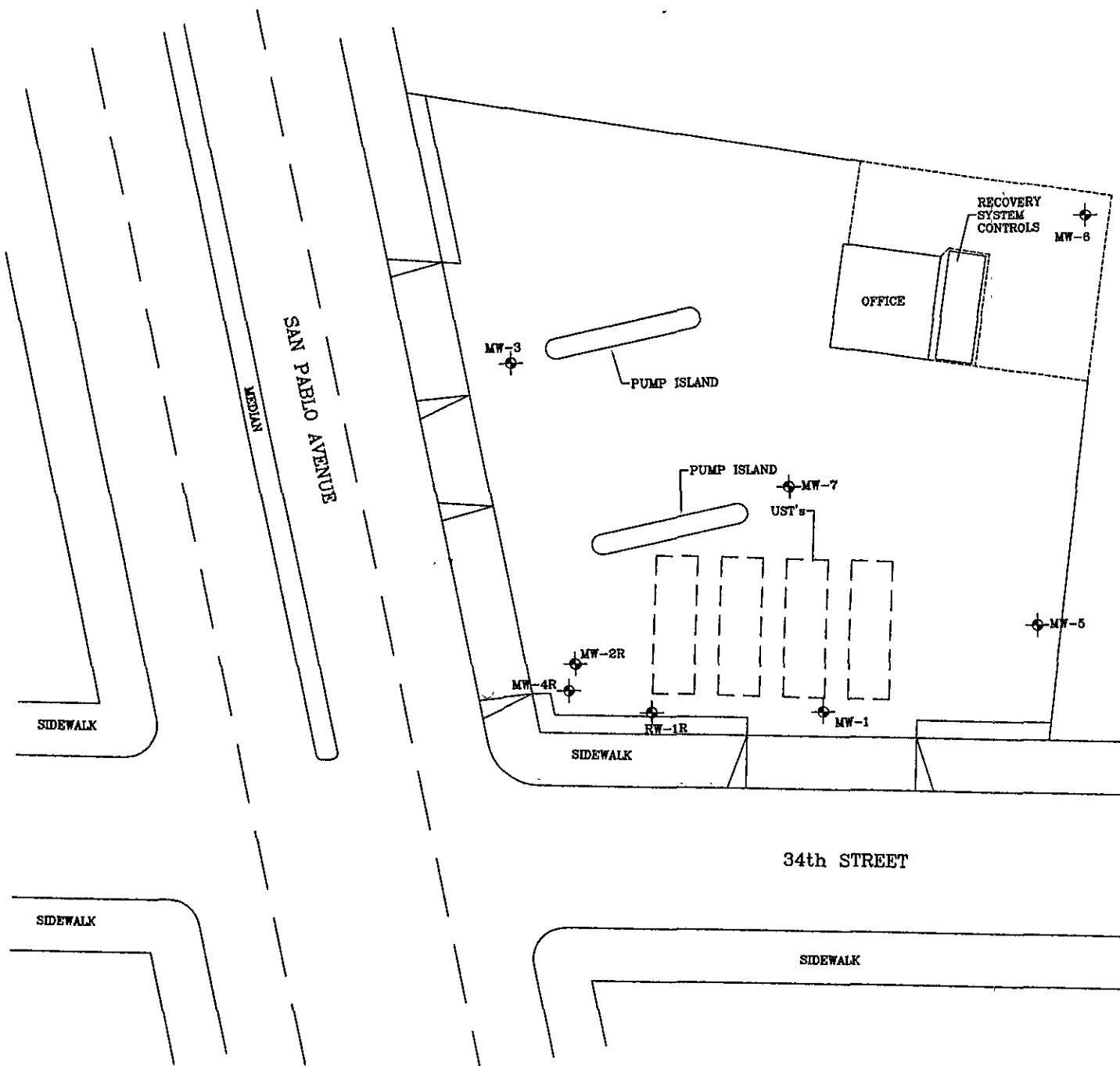
DATE	METER READING	PROCESSED SINCE VISIT	MONTHLY SAMPLES	QUARTERLY SAMPLES	NOTES
6/18/2004	364.5	364.5	NO	NO	
6/21/2004	2,322.20	1,957.70	NO	NO	Sample PSP-1
6/23/2004	3,361.00	1,038.80	NO	NO	Sample PSP-1
6/25/2004	4,398.00	1,037.00	NO	NO	Sample PSP-1
7/1/2004	6,395.70	1,997.70	NO	NO	Sample PSP-1
7/9/2004	8,606.50	2,210.80	NO	NO	
7/19/2004	11,130.00	2,523.50	NO	NO	Shut down for QM
7/29/2004	11,346.00	216.00	NO	NO	
8/9/2004	12,511.00	1,165.00	YES	NO	
8/30/2004	19,294.00	6,783.00	NO	NO	
9/3/2004	20,211.00	917.00	YES	YES	Carbon Change Out
9/21/2004	24,567.00	4,356.00	NO	NO	

Notes:




Monthly samples collected from INT-1, INT-2, INT-3 Inlet only

Quarterly samples collected from INT-1, INT-2, INT-3, and PSP-1

# ***FIGURES***



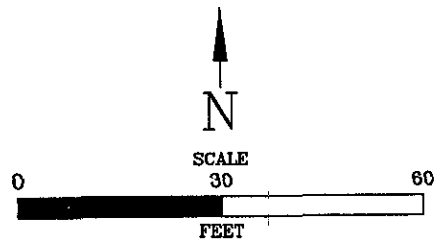
**LEGEND**

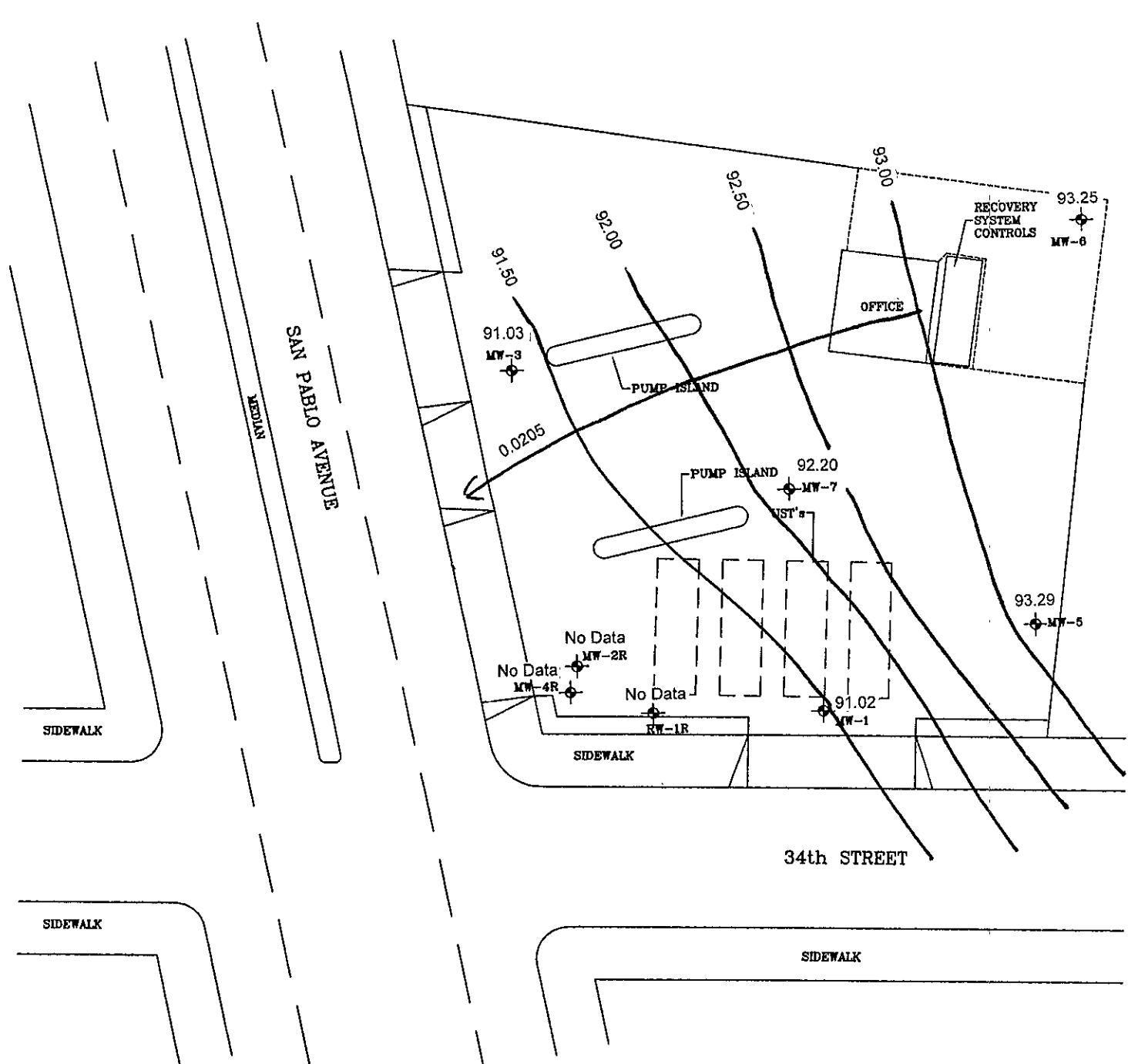
- MW-4R  RECOVERY WELL LOCATION
- MW-1  MONITORING WELL LOCATION
- SB-1  SOIL BORING LOCATION

**SITE PLAN**  
 THRIFTY OIL #049  
 3400 SAN PABLO AVE  
 OAKLAND, CALIFORNIA

FIGURE:

1



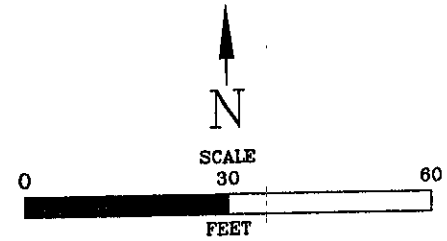


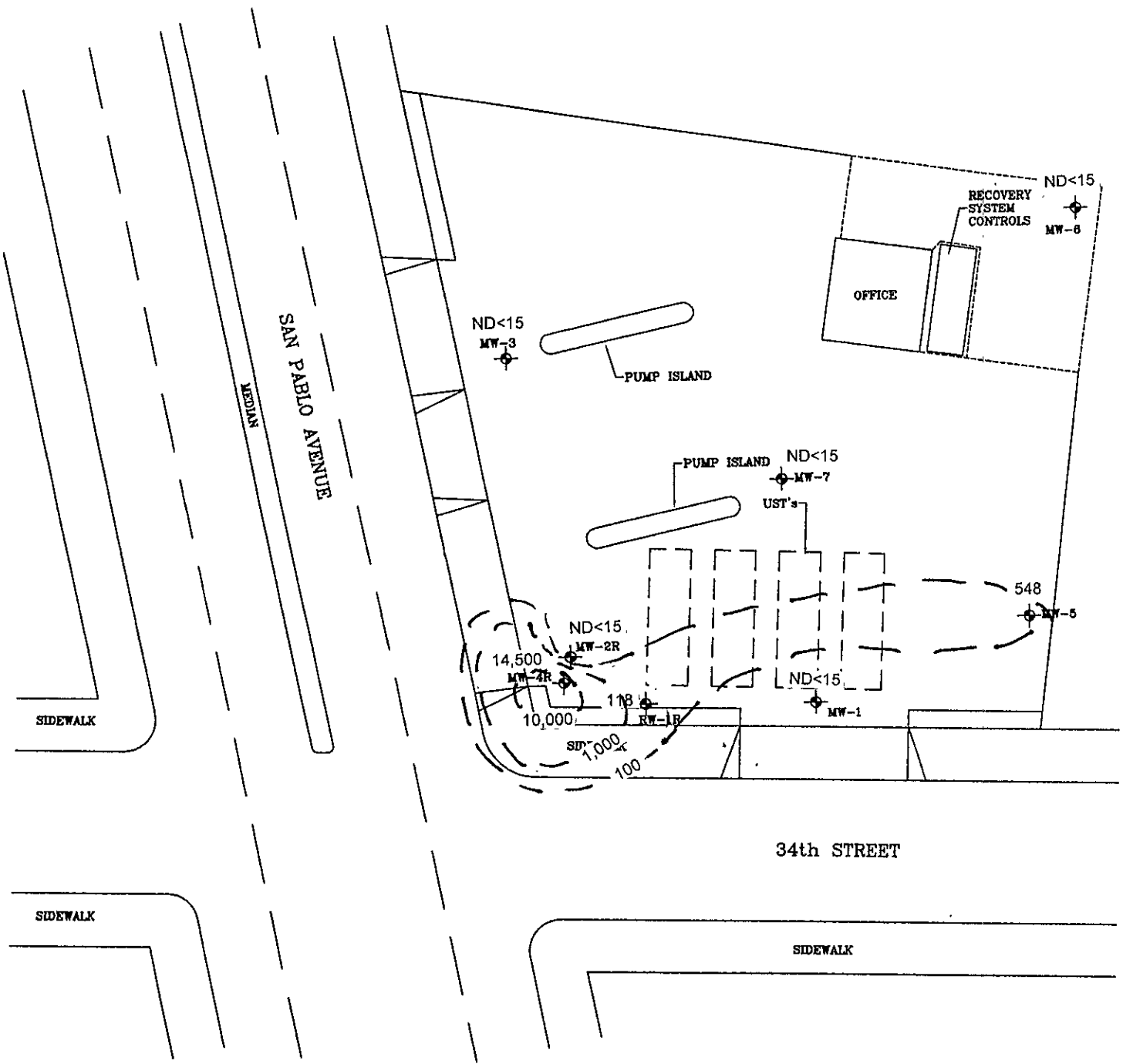
**LEGEND**

- MW-4R RECOVERY WELL LOCATION      Data Collected 7/21/2004
- MW-1 MONITORING WELL LOCATION      Datum is Mean Sea Level
- SB-1 SOIL BORING LOCATION

**GROUNDWATER CONTOURS**  
 THRIFTY OIL #049  
 3400 SAN PABLO AVE  
 OAKLAND, CALIFORNIA

FIGURE:  
 2





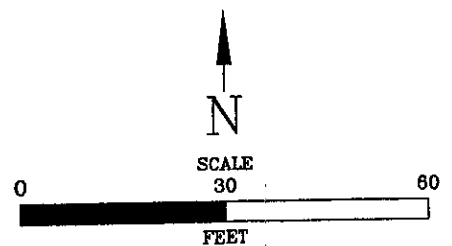
**LEGEND**

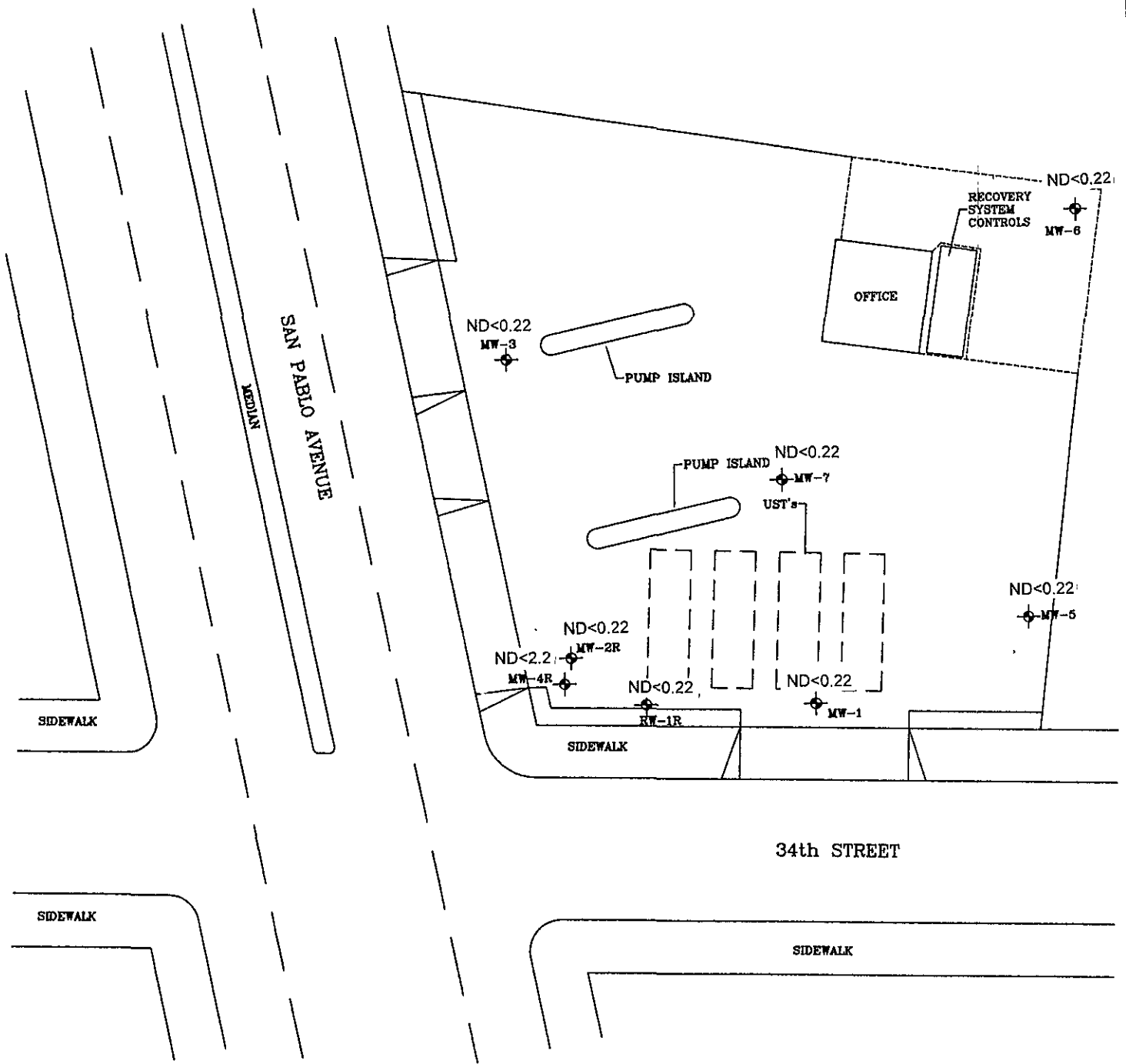
- MW-4R RECOVERY WELL LOCATION      Samples Collected 7/21/2004
- MW-1 MONITORING WELL LOCATION      Results in ug/L
- SB-1 SOIL BORING LOCATION

**TPHg in GROUNDWATER**  
 THRIFTY OIL #049  
 3400 SAN PABLO AVE  
 OAKLAND, CALIFORNIA

FIGURE:

3





**LEGEND**

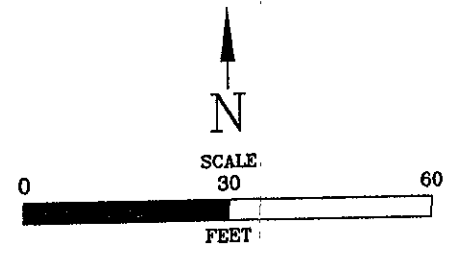
- MW-4R RECOVERY WELL LOCATION
  - MW-1 MONITORING WELL LOCATION
  - SB-1 SOIL BORING LOCATION
- Samples Collected 7/21/2004  
Results in ug/L

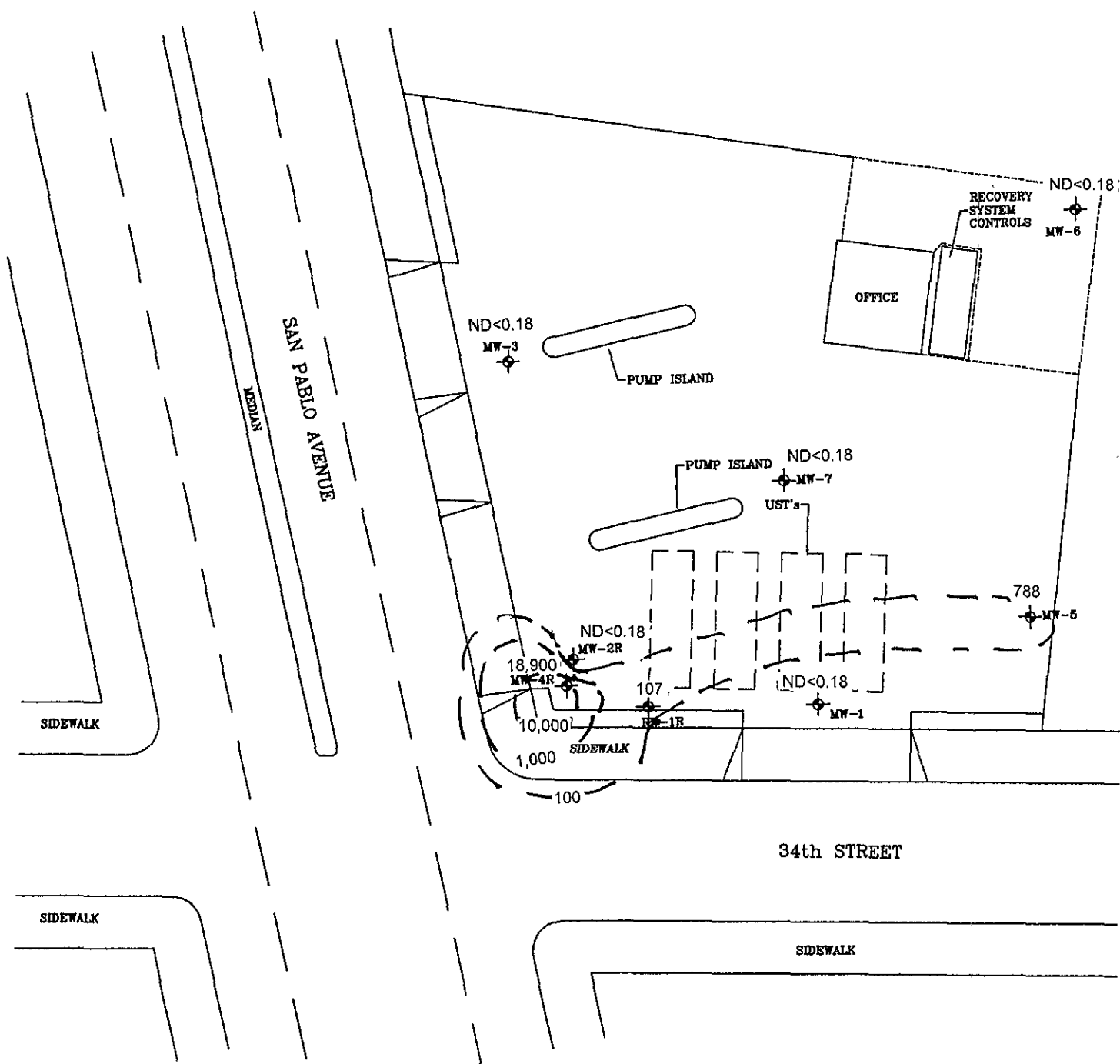
**Benzene in GROUNDWATER**

THRIFTY OIL #049  
3400 SAN PABLO AVE  
OAKLAND, CALIFORNIA

FIGURE:

4





**LEGEND**

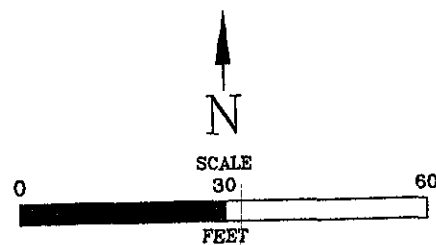
- MW-4R RECOVERY WELL LOCATION      Samples Collected 7/21/2004
- MW-1 MONITORING WELL LOCATION      Results in ug/L
- SB-1 SOIL BORING LOCATION

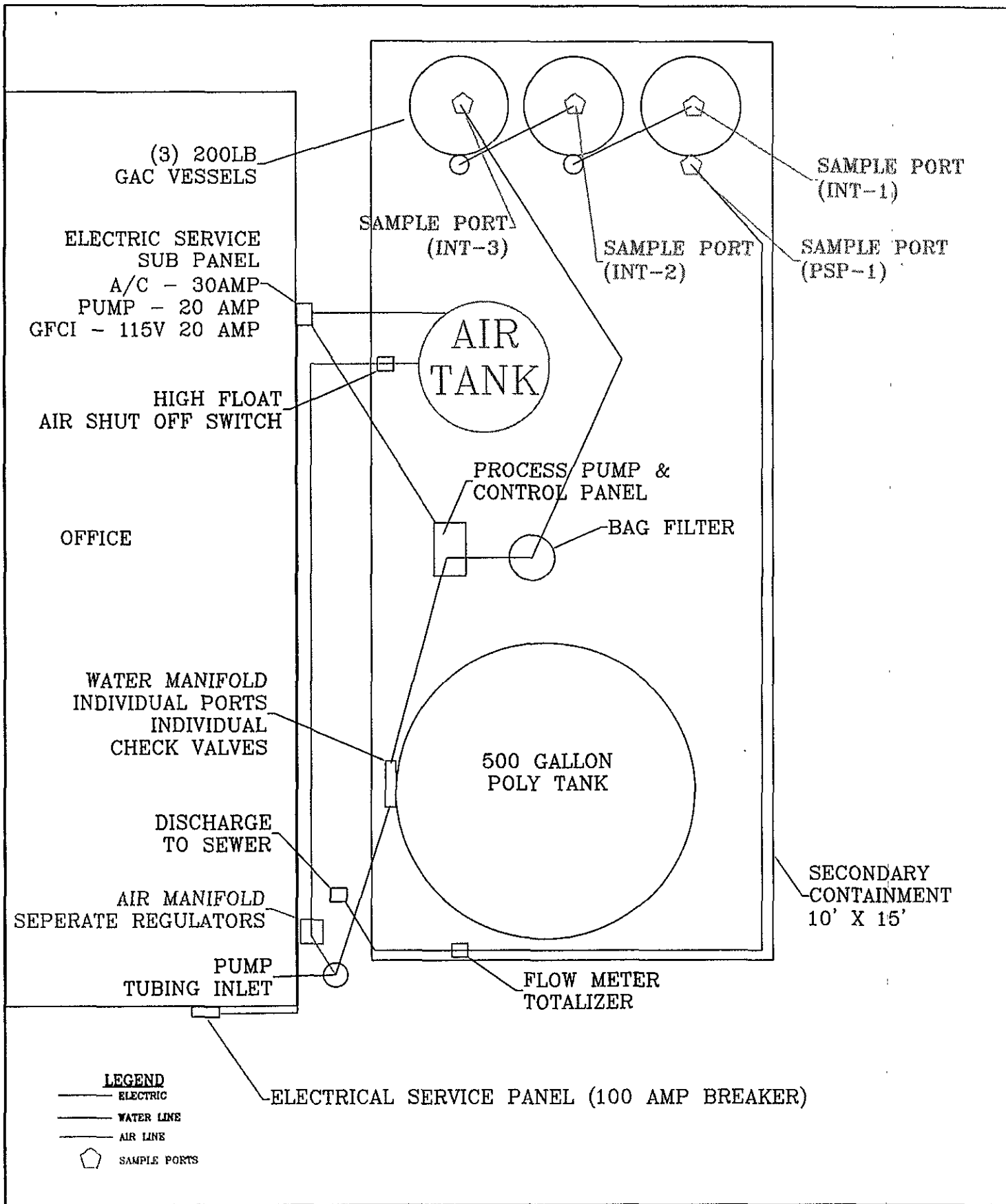
**MTBE in GROUNDWATER**

THRIFTY OIL #049  
 3400 SAN PABLO AVE  
 OAKLAND, CALIFORNIA

FIGURE:

5





**REMEDICATION SYSTEM LAYOUT**  
 THRIFTY OIL STATION #049  
 3400 SAN PABLO AVENUE  
 OAKLAND, CALIFORNIA

*Advanced*  
**GeoEnvironmental, Inc.**

PROJECT NO. AGE-NC-03-1049	FILE: Thrifty49-6	FIGURE:
DATE: 26 MAY 2004	DRAWN BY: MAC	6



# ***APPENDIX A***



# PROJECT STATUS REPORT

SITE: THRIFTY OIL CO. #049  
 ADDRESS: 3400 SAN PABLO AVE.  
OAKLAND, CA.94612

DATE: 07/21/04

PERSONNEL: Senhou Postuparu

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL)		COMMENT
							EST.	ACT.	
<i>MONTHLY/QUARTERLY</i>									
MW-1		7.0A	14.74			2"	7	10	
MW-2R		6.72	16.74			4"	26	26	
MW-3		6.66	24.13			2"	11	11	
MW-4R		6.60	19.62			4"	34	34	
MW-5		5.56	13.76			2"	5	10	
MW-6		6.42	13.06			2"	4	10	
MW-7		6.82	13.56			4"	17	17	
RW-1R		6.85	19.08			4"	32	32	

FREE PRODUCT REMOVED: APPROX. — GALLONS | PURGE-WATER REMOVED: APPROX. 150 GALLONS

REMARKS: Monitoring wells and sampling water from wells

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	# 049	Date:	07-21-04
Address:			
Personnel:	SERBA	Weather:	SUNNY DAY
Well No:	MW-1	Equip:	BAUER

<u>Before Purging:</u>			
Total Well Depth: (ft.)	17.74	Well Diameter	2 <sup>4</sup>
Depth to Water (ft)	7.01	Est. Purge Volume:	10

<u>Sampling Data:</u>							
Initial Turbidity:				Final Turbidity:			
Time	10:28	10:31	10:34	10:37	10:40		
EC	1340	1320	1350	1320	1370		
pH	5.60	5.47	5.41	5.43	5.41		
Temp	71.4	71.3	71.1	71.1	71.2		
Gal.	2	4	6	8	10		
Time							
EC							
pH							
Temp							
Gal.							

<u>After Purging/Before Sample Collection</u>			
Depth to Water (ft.)	8.83	Total Well Depth(ft.)	17.74

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	#049	Date:	07-21-04
Address:			
Personnel:	JERBAH	Weather:	SUNNY DAY
Well No:	MW-2R	Equip:	BAYER

Before Purging:			
Total Well Depth: (ft.)	16.74	Well Diameter	4"
Depth to Water (ft)	6.72	Est. Purge Volume:	26

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	11:48	11:55	12:02	12:04	12:15		
EC	1510	1540	1520	1530	1530		
pH	5.97	6.03	6.11	6.09	6.11		
Temp	71.3	71.1	71.1	70.8	70.9		
Gal.	5	10	15	20	26		
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	7.10	Total Well Depth(ft.)	16.74

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site: <u># 049</u>	Date: <u>07-21-04</u>
Address: _____	
Personnel: <u>SERBAN</u>	Weather: <u>SUNNY day</u>
Well No: <u>MW-3</u>	Equip: <u>BAUER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>24.13</u>	Well Diameter	<u>2<sup>4</sup></u>
Depth to Water (ft)	<u>6.66</u>	Est. Purge Volume:	<u>11</u>

<b>Sampling Data:</b>							
<b>Initial Turbidity:</b>				<b>Final Turbidity:</b>			
Time					<u>11:30</u>		
EC	<u>1730</u>	<u>1710</u>	<u>1690</u>	<u>1680</u>	<u>1670</u>		
pH	<u>6.03</u>	<u>5.98</u>	<u>5.92</u>	<u>5.91</u>	<u>5.93</u>		
Temp	<u>72.1</u>	<u>71.9</u>	<u>71.7</u>	<u>71.6</u>	<u>71.6</u>		
Gal.	<u>2</u>	<u>4</u>	<u>6</u>	<u>8</u>	<u>11</u>		
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>			
Depth to Water (ft.)	<u>8.60</u>	Total Well Depth (ft.)	<u>24.13</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	# 049	Date:	07-21-04
Address:			
Personnel:	SERBAH	Weather:	SUNNY DAY
Well No:	MW-4R	Equip:	BAILER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	19.62	Well Diameter	4"
Depth to Water (ft)	6.60	Est. Purge Volume:	34

<b>Sampling Data:</b>							
<b>Initial Turbidity:</b>				<b>Final Turbidity:</b>			
Time	12:29	12:37	12:45	12:52	13:00		
EC	1420	1460	1450	1430	1440		
pH	6.07	5.97	5.94	5.87	5.91		
Temp	72.3	72.1	71.9	71.9	72.7		
Gal.	6	13	20	27	34		
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>			
Depth to Water (ft.)	7.32	Total Well Depth(ft.)	19.62

## FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site: # 049	Date: 07-21-04
Address:	
Personnel: SERBAN	Weather: SUNNY DAY
Well No: MW-5	Equip: BAILER

Before Purging:			
Total Well Depth: (ft.)	13.76	Well Diameter	2"
Depth to Water (ft)	5.56	Est. Purge Volume:	10

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	10:08	10:11	10:14	10:17	10:20		
EC	1730	1740	1690	1670	1660		
pH	6.03	5.98	5.93	5.91	5.93		
Temp	72.1	71.9	71.7	71.7	71.5		
Gal.	2	4	6	8	10		
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	6.30	Total Well Depth(ft.)	13.76

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	# 049	Date:	07-21-04
Address:			
Personnel:	SERRAVALLO	Weather:	SUNNY DAY
Well No:	MW-6	Equip:	BAILER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	13.06	Well Diameter	2"
Depth to Water (ft)	6.42	Est. Purge Volume:	10

<b>Sampling Data:</b>							
<b>Initial Turbidity:</b>				<b>Final Turbidity:</b>			
Time	9:48	9:51	9:54	9:57	10:00		
EC	1640	1610	1590	1570	1570		
pH	5.97	5.93	5.91	5.83	5.81		
Temp	71.4	71.3	71.1	70.8	70.7		
Gal.	2	4	6	8	10		
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>			
Depth to Water (ft.)	7.38	Total Well Depth(ft.)	13.06



FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	A 049	Date:	07-21-09
Address:			
Personnel:	SERBAN	Weather:	SUNNY DAY
Well No:	MW-7	Equip:	ROVER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	13.56	Well Diameter	4"
Depth to Water (ft)	6.82	Est. Purge Volume:	17

<b>Sampling Data:</b>							
<b>Initial Turbidity:</b>				<b>Final Turbidity:</b>			
Time	10:52	10:56	11:00	11:05	11:10		
EC	1830	1710	1690	1710	1690		
pH	5.97	6.03	6.11	6.09	6.06		
Temp	71.4	71.2	71.1	71.2	71.1		
Gal.	3	6	10	13	17		
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>			
Depth to Water (ft.)	7.24	Total Well Depth(ft).	13.56

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

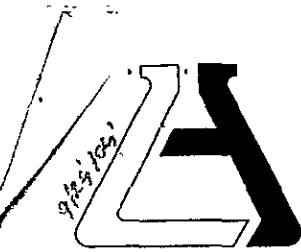
Site:	# 049	Date:	07-21-04
Address:			
Personnel:	SERBAY	Weather:	SUNNY DAY
Well No:	RW-12	Equip:	BAUER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	19.08	Well Diameter	4"
Depth to Water (ft)	6.85	Est. Purge Volume:	32

<b>Sampling Data:</b>							
<b>Initial Turbidity:</b>				<b>Final Turbidity:</b>			
Time	13:10	13:25	13:25	13:32	13:40		
EC	1120	1130	1140	1130	1140		
pH	5.19	5.20	5.23	5.21	5.19		
Temp	21.3	21.1	21.2	21.1	20.9		
Gal.	6	12	19	25	32		
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>			
Depth to Water (ft.)	7.28	Total Well Depth(ft.)	19.08

## ***APPENDIX B***



**ASSOCIATED LABORATORIES**

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

FAX 714/538-1209

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

LAB REQUEST 133159 ✓  
REPORTED 07/30/2004  
RECEIVED 07/23/2004

PROJECT Station #049 ✓  
3600 San Pablo Ave., Oakland

SUBMITTER Client

COMMENTS

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

<u>Order No.</u>	<u>Client Sample Identification</u>
539621	TOC #049 MW-6
539622	TOC #049 MW-5
539623	TOC #049 MW-1
539624	TOC #049 MW-7
539625	TOC #049 MW-3
539626	TOC #049 MW-2R
539627	TOC #049 MW-4R
539628	TOC #049 RW-1R
539629	Trip Blank
539630	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 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 #: 539621

Client Sample ID: TOC #049 MW-6

Matrix: WATER

Date Sampled: 07/21/2004 Time Sampled: 13:50

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE Only</b>						
Benzene	ND	1	1	0.22	ug/L	07/28/04 AM
Ethyl benzene	ND	1	5	0.31	ug/L	07/28/04 AM
Methyl-tert-butylether (MTBE)	ND	1	1	0.18	ug/L	07/28/04 AM
Toluene	ND	1	5	0.32	ug/L	07/28/04 AM
Xylenes, total	ND	1	5	0.4	ug/L	07/28/04 AM
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
Surr1 - Dibromofluoromethane	99			%	70 - 130	
Surr2 - 1,2-Dichloroethane-d4	102			%	70 - 130	
Surr3 - Toluene-d8	99			%	70 - 130	
Surr4 - p-Bromofluorobenzene	99			%	70 - 130	
<b>8015M - Gasoline</b>						
Gasoline	ND	1	50	15	ug/L	07/26/04 LZ
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
a,a,a-Trifluorotoluene	90			%	55 - 200	

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

ND = Not detected below indicated MDL, J=Trace



Order #: 539622

Client Sample ID TOC #049 MW-5

Matrix: WATER

Date Sampled: 07/21/2004 Time Sampled: 14:00

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

8260B BTEX/MTBE Only

Benzene	ND	1	1	0.22	ug/L	07/28/04 AM
Ethyl benzene	ND	1	5	0.31	ug/L	07/28/04 AM
Methyl-tert-butylether (MTBE)	788	1	1	0.18	ug/L	07/28/04 AM
Toluene	ND	1	5	0.32	ug/L	07/28/04 AM
Xylenes, total	ND	1	5	0.4	ug/L	07/28/04 AM

Surrogates

				Units	Control Limits
Surr1 - Dibromofluoromethane	101			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	107			%	70 - 130
Surr3 - Toluene-d8	99			%	70 - 130
Surr4 - p-Bromofluorobenzene	97			%	70 - 130

8015M - Gasoline

Gasoline	548	1	50	15	ug/L	07/26/04 LZ
----------	-----	---	----	----	------	-------------

Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	103			%	55 - 200

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



Order #: 539623

Client Sample ID: TOC #049 MW-1

Matrix: WATER

Date Sampled: 07/21/2004 Time Sampled: 14:10

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

**8260B BTEX/MTBE Only**

Benzene	ND	1	1	0.22 ug/L	07/28/04 AM
Ethyl benzene	ND	1	5	0.31 ug/L	07/28/04 AM
Methyl-tert-butylether (MTBE)	ND	1	1	0.18 ug/L	07/28/04 AM
Toluene	ND	1	5	0.32 ug/L	07/28/04 AM
Xylenes, total	ND	1	5	0.4 ug/L	07/28/04 AM

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	96			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	104			%	70 - 130
Surr3 - Toluene-d8	103			%	70 - 130
Surr4 - p-Bromofluorobenzene	103			%	70 - 130

**8015M - Gasoline**

Gasoline	ND	1	50	15 ug/L	07/26/04 LZ
----------	----	---	----	---------	-------------

**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	90			%	55 - 200

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

ND = Not detected below indicated MDL, J=Trace



Order #: 539624  
Matrix: WATER

Client Sample ID TOC #049 MW-7  
Date Sampled: 07/21/2004 Time Sampled: 14:20

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

**8260B BTEX/MTBE Only**

Benzene	ND	1	1	0.22 ug/L	07/28/04 AM
Ethyl benzene	ND	1	5	0.31 ug/L	07/28/04 AM
Methyl-tert-butylether (MTBE)	ND	1	1	0.18 ug/L	07/28/04 AM
Toluene	ND	1	5	0.32 ug/L	07/28/04 AM
Xylenes, total	ND	1	5	0.4 ug/L	07/28/04 AM

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	98			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	103			%	70 - 130
Surr3 - Toluene-d8	97			%	70 - 130
Surr4 - p-Bromofluorobenzene	95			%	70 - 130

**8015M - Gasoline**

Gasoline	ND	1	50	15 ug/L	07/26/04 LZ
----------	----	---	----	---------	-------------

**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	89			%	55 - 200

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





Order #: 539625

Client Sample ID: TOC #049 MW-3

Matrix: WATER

Date Sampled: 07/21/2004 Time Sampled: 14:30

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

**8260B BTEX/MTBE Only**

Benzene	ND	1	1	0.22	ug/L	07/28/04 AM
Ethyl benzene	ND	1	5	0.31	ug/L	07/28/04 AM
Methyl-tert-butylether (MTBE)	ND	1	1	0.18	ug/L	07/28/04 AM
Toluene	ND	1	5	0.32	ug/L	07/28/04 AM
Xylenes, total	ND	1	5	0.4	ug/L	07/28/04 AM

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	98			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	106			%	70 - 130
Surr3 - Toluene-d8	101			%	70 - 130
Surr4 - p-Bromofluorobenzene	101			%	70 - 130

**8015M - Gasoline**

Gasoline	ND	1	50	15	ug/L	07/26/04 LZ
----------	----	---	----	----	------	-------------

**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	90			%	55 - 200

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

ND = Not detected below indicated MDL, J=Trace



Order #: 539626

Client Sample ID: TOC #049 MW-2R

Matrix: WATER

Date Sampled: 07/21/2004 Time Sampled: 14:35

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

8260B BTEX/MTBE Only

Benzene	ND	1	1	0.22	ug/L	07/28/04 AM
Ethyl benzene	ND	1	5	0.31	ug/L	07/28/04 AM
Methyl-tert-butylether (MTBE)	ND	1	1	0.18	ug/L	07/28/04 AM
Toluene	ND	1	5	0.32	ug/L	07/28/04 AM
Xylenes, total	ND	1	5	0.4	ug/L	07/28/04 AM

Surrogates

				Units	Control Limits
Surr1 - Dibromofluoromethane	100			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	107			%	70 - 130
Surr3 - Toluene-d8	100			%	70 - 130
Surr4 - p-Bromofluorobenzene	98			%	70 - 130

8015M - Gasoline

Gasoline	ND	1	50	15	ug/L	07/26/04 LZ
----------	----	---	----	----	------	-------------

Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	90			%	55 - 200

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



Order #: 539627

Client Sample ID: TOC #049 MW-4R

Matrix: WATER

Date Sampled: 07/21/2004 Time Sampled: 15:05

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE Only</b>						
Benzene	ND	10	10.0	0.22	ug/L	07/28/04 AM
Ethyl benzene	ND	10	50.0	0.31	ug/L	07/28/04 AM
Methyl-tert-butylether (MTBE)	18900	100	100.0	0.18	ug/L	07/30/04 AM
Toluene	ND	10	50.0	0.32	ug/L	07/28/04 AM
Xylenes, total	39 J	10	50.0	0.4	ug/L	07/28/04 AM
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
Surr1 - Dibromofluoromethane	100			%	70 - 130	
Surr2 - 1,2-Dichloroethane-d4	103			%	70 - 130	
Surr3 - Toluene-d8	97			%	70 - 130	
Surr4 - p-Bromofluorobenzene	96			%	70 - 130	
<b>8015M - Gasoline</b>						
Gasoline	14500	20	1000.0	15	ug/L	07/26/04 LZ
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
a,a,a-Trifluorotoluene	114			%	55 - 200	

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



Order #: 539628

Client Sample ID: TOC #049 RW-1R

Matrix: WATER

Date Sampled: 07/21/2004 Time Sampled: 15:45

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

**8260B BTEX/MTBE Only**

Benzene	ND	1	1	0.22 ug/L		07/28/04 AM
Ethyl benzene	ND	1	5	0.31 ug/L		07/28/04 AM
Methyl-tert-butylether (MTBE)	107	1	1	0.18 ug/L		07/28/04 AM
Toluene	ND	1	5	0.32 ug/L		07/28/04 AM
Xylenes, total	ND	1	5	0.4 ug/L		07/28/04 AM

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	101			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	106			%	70 - 130
Surr3 - Toluene-d8	99			%	70 - 130
Surr4 - p-Bromofluorobenzene	99			%	70 - 130

**8015M - Gasoline**

Gasoline	118	1	50	15 ug/L		07/27/04 LZ
----------	-----	---	----	---------	--	-------------

**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	94			%	55 - 200

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

ND = Not detected below indicated MDL, J=Trace



Order #: 539629

Client Sample ID: Trip Blank

Matrix: WATER

Date Sampled: 07/21/2004

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst	
<b>8260B BTEX/MTBE Only</b>							
Benzene	ND	1	1	0.22	ug/L	07/28/04 AM	
Ethyl benzene	ND	1	5	0.31	ug/L	07/28/04 AM	
Methyl-tert-butylether (MTBE)	ND	1	1	0.18	ug/L	07/28/04 AM	
Toluene	ND	1	5	0.32	ug/L	07/28/04 AM	
Xylenes, total	ND	1	5	0.4	ug/L	07/28/04 AM	
<b>Surrogates</b>						<b>Units</b>	<b>Control Limits</b>
Surr1 - Dibromofluoromethane	98				%	70 - 130	
Surr2 - 1,2-Dichloroethane-d4	103				%	70 - 130	
Surr3 - Toluene-d8	99				%	70 - 130	
Surr4 - p-Bromofluorobenzene	99				%	70 - 130	
<b>8015M - Gasoline</b>							
Gasoline	ND	1	50	15	ug/L	07/26/04 LZ	
<b>Surrogates</b>						<b>Units</b>	<b>Control Limits</b>
a,a,a-Trifluorotoluene	87				%	55 - 200	

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



Order #: 539630

Client Sample ID Laboratory Method Blank

Matrix: WATER

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

**8260B BTEX/MTBE Only**

Benzene	ND	1	1	0.22 ug/L		07/28/04 AM
Ethyl benzene	ND	1	5	0.31 ug/L		07/28/04 AM
Methyl-tert-butylether (MTBE)	ND	1	1	0.18 ug/L		07/28/04 AM
Toluene	ND	1	5	0.32 ug/L		07/28/04 AM
Xylenes, total	ND	1	5	0.4 ug/L		07/28/04 AM

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	96			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	103			%	70 - 130
Surr3 - Toluene-d8	100			%	70 - 130
Surr4 - p-Bromofluorobenzene	102			%	70 - 130

**8015M - Gasoline**

Gasoline	ND	1	50	15 ug/L		07/26/04 LZ
----------	----	---	----	---------	--	-------------

**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	87			%	55 - 200

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: LCS / LCSD  
 Matrix: WATER  
 Prep. Date: July 26, 2004  
 Analysis Date: July 26 - 27, 2004  
 ID#'s in Batch: LR 132159, 133037  
 Reporting Units = ug/L

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

		PREP BLK						
		Value	Result	True	%Rec	L.Limit	H.Limit	
Test	Method	LCS	ND	561	500	112	80%	120%
TPH	8015M-G	LCSD	ND	559	500	112	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	55-200
Method Blank	87
LCS	171
LCSD	174

*AAA-TFT = a,a,a-Trifluorotoluene*

ASSOCIATED LABORATORIES  
**QA REPORT FORM - METHOD 8260 / 624 / 524.2**

QC Sample: MS / MSD - Water Samples 133341-582  
 Analysis Date: July 30, 2004 7:21 AM  
 Applies to: LR 133342, 133343, 133341, 133336, 133335, 133304, 133159, 133284, 133446

Reporting Units = ug/L

**Matrix Spike / Matrix Spike Duplicate**

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	25	24.65	25.63	99	103	4	22	59-172
MTBE	ND	25	22.41	22.95	90	92	2	24	62-137
Benzene	ND	25	25.53	25.24	102	101	1	24	62-137
Trichloroethene	ND	25	26.37	24.93	105	100	6	21	66-142
Toluene	ND	25	25.44	25.30	102	101	1	21	59-139
Chlorobenzene	ND	25	25.52	25.28	102	101	1	21	60-133

QC Sample: LCS 12:35 PM  
 Analysis Date: July 29, 2004

**LCS RECOVERY / METHOD BLANK**

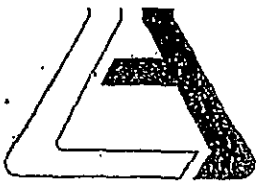
Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits
					%REC
1,1-Dichloroethene	ND	50	52.83	106	59-172
MTBE	ND	50	50.50	101	62-137
Benzene	ND	50	51.04	102	62-137
Trichloroethene	ND	50	52.38	105	66-142
Toluene	ND	50	51.45	103	59-139
Chlorobenzene	ND	50	52.04	104	60-133

Method Blank = All ND

**SURROGATE ( QC Limits : 70-135 )**

Compound	MB 1	MB 2	MS	MSD	LCS
DBFM	96	98	98	100	103
1,2-DCA	104	103	86	88	93
Tol-d8	100	100	101	100	99
p-BFB	102	100	98	97	98





ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868-1225 - 714/771-6900 FAX 714/538-1209

### Cooler Receipt Form

Client: Thipty oil Project: QWS

Date Cooler Received: 7-23 Date Cooler Opened: 7-23

Was cooler scanned for presence of radioactivity? Yes/No  
If yes, was radioactivity results above 25 cpm? Yes/No

Was a shipper's packing slip attached to the cooler? Yes/No

If the cooler had custody seal(s), were they signed and intact? Yes/No/Na

Was the cooler packed with: Ice  Ice Packs \_\_\_\_\_ Bubble wrap \_\_\_\_\_  
Styrofoam \_\_\_\_\_ Paper \_\_\_\_\_ None \_\_\_\_\_ Other \_\_\_\_\_

Cooler Temperature: 3.4°C \*  
\*cooler needs to be received @ 4°C with an acceptable range of 2°- 6 °C

If samples were hand delivered do they meet the temp. criteria, which should be @ 4°C with an acceptable range of 2°- 6 °C? Yes/No

If no explain: \_\_\_\_\_

Were all samples sealed in plastic bags? Yes/No

Did all samples arrive intact? If no, indicate below. Yes/No

Were all samples labeled correctly? (ID's Dates, Times) If no, indicate below. Yes/No

Can the tests required be ran with the provided containers, If no indicate below. Yes/No

Was sufficient sample volume sent for all containers? Yes/No

Were any VOA vials received with head space? Yes/No/Na

Was the correct preservatives used? Yes/No/Na  
If no, see the pH log for a list of samples containers regarding pH

Any other important information: \_\_\_\_\_

Receiving Department: mw Date: 7-23

# Chain of Custody Record

**ASSOCIATED LABORATORIES**

806 North Batavia • Orange, CA 92868

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



Company <b>THRIFTY OIL CO.</b>		Phone <b>(562) 921-3581</b>		A.L. Job No. <b>133159 ✓</b>		Page _____ of _____							
Project Manager <b>JEFF SURYARUSUMA</b>		Fax <b>(562) 921-7510</b>		Analysis Requested				Test Instructions & Comments					
Project Name <b>Q. W. S.</b>		Project # _____											
Site Name and Address <b>2400 SAN PABLO AVE OAKLAND, 94612</b>		049 ✓		TPH (8015M)   ATEX (8260B)   MTRFz (8260B)									
Sample ID		Lab ID										Date	
1	MW-6			07-21-04	13:50	H <sub>2</sub> O	3-VOA	HCL	X	X	X		
2	MW-5			↑	14:00	↑	↑	↑	X	X	X		
3	MW-1			↑	14:10	↑	↑	↑	X	X	X		
4	MW-7			↑	14:20	↑	↑	↑	X	X	X		
5	MW-3			↑	14:30	↑	↑	↑	X	X	X		
6	MW-2R			↑	14:35	↑	↑	↑	X	X	X		
7	MW-4R			↑	15:05	↑	↓	↓	X	X	X		
8	RW-1R			↑	15:45	↑	↓	↓	X	X	X		
9	TRIP BLANK			↓	00:00	↓	2-VOA	↓	X	X	X		
10													
11													
12													
13													
14													
15													

<b>Sample Receipt - To Be Filled By Laboratory</b>				Relinquished by Sampler: <b>BMC</b> 1.		Relinquished by <b>GOLDEN STATE</b> 2.		Relinquished by 3.	
Total Number of Containers	<b>26</b>	Properly Cooled Y / N / NA		Signature:	<i>[Signature]</i>	Signature:	<b>OVERNIGHT</b>	Signature:	
Custody Seals Y / N / NA		Samples Intact Y / N / NA		Printed Name:	<b>SERBANA POPPERU</b>	Printed Name:		Printed Name:	
Received in Good Condition Y / N		Samples Accepted Y / N		Date:	<b>07-22-04</b>	Time:	<b>14:30</b>	Date:	
<b>Turn Around Time</b>				Received By: <b>GOLDEN STATE</b> 1.		Received By: 2.		Received By: 3.	
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Same Day	<input type="checkbox"/> 48 hrs.	Signature:	<b>OVERNIGHT</b>	Signature:	<i>[Signature]</i>	Signature:	
		<input type="checkbox"/> 24 hrs.	<input type="checkbox"/> 72 hrs.	Printed Name:		Printed Name:	<b>MONGW</b>	Printed Name:	
				Date:		Time:		Date:	<b>7-23</b>
						Time:	<b>10:50</b>	Date:	<b>7-23-04</b>
								Time:	<b>1:40</b>

# ***APPENDIX C***



**ASSOCIATED LABORATORIES**

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

FAX 714/538-1209

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

LAB REQUEST 135961 ✓

REPORTED 09/20/2004

RECEIVED 09/08/2004

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.

Order No.

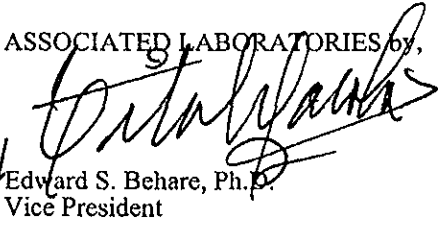
552894  
552895  
552896  
552897  
552898

Client Sample Identification

TOC #049 INT1/090304  
TOC #049 INT2/090304  
TOC #049 INT3/090304  
TOC #049 PSP1/090304  
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 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 #: 552894

Client Sample ID: TOC #049 INTI/090304

Matrix: WATER

Date Sampled: 09/03/2004 Time Sampled: 12:21

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8021B BTEX + MTBE</b>						
Benzene	280	10	3.0	0.14	ug/L	09/11/04 LZ
Ethyl benzene	27	10	3.0	0.18	ug/L	09/11/04 LZ
Methyl t - butyl ether	9810	10	50.0	0.22	ug/L	09/11/04 LZ
Toluene	290	10	3.0	0.16	ug/L	09/11/04 LZ
Xylene (total)	3600	10	6.0	0.45	ug/L	09/11/04 LZ
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
a,a,a-Trifluorotoluene	129			%	70 - 130	
<b>8015M - Gasoline</b>						
Gasoline	18900	10	500.0	15	ug/L	09/11/04 LZ
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
a,a,a-Trifluorotoluene	129			%	55 - 200	

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

ND = Not detected below indicated MDL, J=Trace



Order #: 552895

Client Sample ID: TOC #049 INT2/090304

Matrix: WATER

Date Sampled: 09/03/2004 Time Sampled: 12:23

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8021B BTEX + MTBE</b>						
Benzene	ND	1	0.3	0.14	ug/L	09/11/04 LZ
Ethyl benzene	ND	1	0.3	0.18	ug/L	09/11/04 LZ
Methyl t - butyl ether	8.5	1	5	0.22	ug/L	09/11/04 LZ
Toluene	ND	1	0.3	0.16	ug/L	09/11/04 LZ
Xylene (total)	ND	1	0.6	0.45	ug/L	09/11/04 LZ
<b>Surrogates</b>					<b>Units</b>	<b>Control Limits</b>
a,a,a-Trifluorotoluene	83				%	70 - 130
<b>8015M - Gasoline</b>						
Gasoline	ND	1	50	15	ug/L	09/11/04 LZ
<b>Surrogates</b>					<b>Units</b>	<b>Control Limits</b>
a,a,a-Trifluorotoluene	83				%	55 - 200

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



Order #: 552896

Client Sample ID. TOC #049 INT3/090304

Matrix: WATER

Date Sampled: 09/03/2004 Time Sampled: 12:25

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8021B BTEX + MTBE</b>						
Benzene	ND	1	0.3	0.14	ug/L	09/11/04 LZ
Ethyl benzene	ND	1	0.3	0.18	ug/L	09/11/04 LZ
Methyl t - butyl ether	ND	1	5	0.22	ug/L	09/11/04 LZ
Toluene	ND	1	0.3	0.16	ug/L	09/11/04 LZ
Xylene (total)	ND	1	0.6	0.45	ug/L	09/11/04 LZ
<b>Surrogates</b>					<b>Units</b>	<b>Control Limits</b>
a,a,a-Trifluorotoluene	84				%	70 - 130
<b>8015M - Gasoline</b>						
Gasoline	ND	1	50	15	ug/L	09/11/04 LZ
<b>Surrogates</b>					<b>Units</b>	<b>Control Limits</b>
a,a,a-Trifluorotoluene	84				%	55 - 200

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



Order #: 552897

Client Sample ID: TOC #049 PSP1/090304

Matrix: WATER

Date Sampled: 09/03/2004 Time Sampled: 12:30

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8021B BTEX</b>						
Benzene	ND	1	0.3	0.14	ug/L	09/10/04 LZ
Ethyl benzene	ND	1	0.3	0.18	ug/L	09/10/04 LZ
Toluene	ND	1	0.3	0.16	ug/L	09/10/04 LZ
Xylene (total)	ND	1	0.6	0.45	ug/L	09/10/04 LZ
<b>Surrogates</b>					<b>Units</b>	<b>Control Limits</b>
Trifluorotoluene (sur)	129				%	55 - 155

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





Order #: 552898

Client Sample ID. Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8021B BTEX + MTBE</b>						
Benzene	ND	1	0.3	0.14	ug/L	09/11/04 LZ
Ethyl benzene	ND	1	0.3	0.18	ug/L	09/11/04 LZ
Methyl t - butyl ether	ND	1	5	0.22	ug/L	09/11/04 LZ
Toluene	ND	1	0.3	0.16	ug/L	09/11/04 LZ
Xylene (total)	ND	1	0.6	0.45	ug/L	09/11/04 LZ
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
a,a,a-Trifluorotoluene	73			%	70 - 130	
<b>8015M - Gasoline</b>						
Gasoline	ND	1	50	15	ug/L	09/11/04 LZ
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
a,a,a-Trifluorotoluene	73			%	55 - 200	

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/LCSD  
 Matrix: WATER  
 Prep. Date: Sep 09-04  
 Analysis Date: Sep 09, 10-04  
 ID#'s in Batch: LR 135907, 135961

**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	484	497	97	99	3

*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*

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

**SURROGATE RECOVERY**

Sample No.	AAA-TFT
QC Limit	55-200
Method Blank	76
LCS	168
LCSD	146

*AAA-TFT = a,a,a-Trifluorotoluene*

**ASSOCIATED LABORATORIES  
LCS REPORT FORM**

QC Sample: LCS/LCSD

Matrix: WATER

Prep. Date: Sep 10-04

Analysis Date Sep 10, 11-04

ID#'s in Batch: LR 136079, 135961, 135980, 136038

**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	429	488	86	98	13

*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*

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

**SURROGATE RECOVERY**

Sample No.	AAA-TFT
QC Limit	55-200
Method Blank	73
LCS	190
LCSD	137

*AAA-TFT = a,a,a-Trifluorotoluene*

ASSOCIATED LABORATORIES  
LCS REPORT FORM

QC Sample: LCS/LCSD  
 Matrix: WATER  
 Prep. Date: Sep 10-04  
 Analysis Date: Sep 10, 11-04  
 LAB ID#'s in Batch: LR 135961

REPORTING UNITS = ug/L

**LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT**

Test	Method	Sample Result	Spike Added	Matrix LCS	Matrix LCSD	%Rec LCS	%Rec LCSD	RPD
Benzene	8021	ND	20	21.7	21.7	109	109	0
Toluene	8021	ND	20	20.9	20.9	105	105	0
Ethylbenzene	8021	ND	20	20.9	21.1	105	106	1
Xylenes	8021	ND	60	59.6	60.7	99	101	2

ND = Not Detected

RPD = Relative Percent Difference of Matrix LCS and Matrix LCSD

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

%REC LIMITS = 70 - 130
RPD LIMITS = 30

**SURROGATE RECOVERY**

Sample No.	AAA-TFT
QC Limit	55-200
Method Blank	73
LCS	93
LCSD	96

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES  
**QA REPORT FORM - METHOD 8260 / 624 / 524.2**

QC Sample: MS / MSD - Water Samples 135831-266  
 Analysis Date: Sep 11-04 1:43 AM  
 Applies to: LR 135670, 135834, 135691, 135831, 135961  
 Reporting Units = ug/L

**Matrix Spike / Matrix Spike Duplicate**

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50	53.73	53.46	107	107	1	22	59-172
MTBE	ND	50	50.51	49.54	101	99	2	24	62-137
Benzene	ND	50	57.96	57.84	116	116	0	24	62-137
Trichloroethene	ND	50	50.60	50.50	101	101	0	21	66-142
Toluene	ND	50	51.96	51.92	104	104	0	21	59-139
Chlorobenzene	ND	50	50.29	50.08	101	100	0	21	60-133

QC Sample: LCS/LCSD  
 Analysis Date: Sep 10-04 1:56 PM

**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	55.71	55.68	111	111	0	22	59-172
MTBE	ND	50	49.49	50.57	99	101	2	24	62-137
Benzene	ND	50	52.49	53.90	105	108	3	24	62-137
Trichloroethene	ND	50	52.62	54.03	105	108	3	21	66-142
Toluene	ND	50	52.67	54.16	105	108	3	21	59-139
Chlorobenzene	ND	50	51.43	52.97	103	106	3	21	60-133

Method Blank = All ND

**SURROGATE ( QC Limits : 70-135 )**

Compound	MB 1	MB 2	MS	MSD	LCS	LCSD
DBFM	98	115	105	111	103	110
1,2-DCA	115	121	101	103	102	103
Tol-d8	99	99	97	99	98	99
p-BFB	101	102	96	100	103	100

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

QC Sample: MS / MSD - Water Samples 135907-628  
 Analysis Date: Sep 11-04 4:36 PM  
 Applies to: LR 135961, 135907, 136228, 136080, 136038  
 Reporting Units = ug/L

**Matrix Spike / Matrix Spike Duplicate**

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50	54.40	55.78	109	112	3	22	59-172
MTBE	ND	50	51.16	51.52	102	103	1	24	62-137
Benzene	ND	50	52.22	53.73	104	107	3	24	62-137
Trichloroethene	ND	50	50.00	49.94	100	100	0	21	66-142
Toluene	ND	50	51.24	51.03	102	102	0	21	59-139
Chlorobenzene	ND	50	49.37	49.67	99	99	1	21	60-133

QC Sample: LCS/LCSD  
 Analysis Date: Sep 11-04 11:52 AM

**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	55.76	55.02	112	110	1	22	59-172
MTBE	ND	50	50.95	50.23	102	100	1	24	62-137
Benzene	ND	50	52.67	52.76	105	106	0	24	62-137
Trichloroethene	ND	50	52.01	52.70	104	105	1	21	66-142
Toluene	ND	50	49.87	51.31	100	103	3	21	59-139
Chlorobenzene	ND	50	49.20	50.30	98	101	2	21	60-133

Method Blank = All ND

**SURROGATE ( QC Limits : 70-135 )**

Compound	MB 3	MB 4	MS	MSD	LCS	LCSD
DBFM	113	112	108	108	109	105
1,2-DCA	121	119	106	107	107	104
Tol-d8	102	99	98	95	97	100
p-BFB	98	101	99	99	102	101

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

QC Sample: MS / MSD - Water Samples 136078-414  
 Analysis Date: Sep 13-04 11:12 PM  
 Applies to: LR 135961, 136080, 136079, 136078, 135831  
 Reporting Units = ug/L

**Matrix Spike / Matrix Spike Duplicate**

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD	QC Limits	
								RPD	%REC
I,1-Dichloroethene	ND	50	56.84	56.96	114	114	0	22	59-172
MTBE	ND	50	51.83	50.44	104	101	3	24	62-137
Benzene	ND	50	53.16	53.71	106	107	1	24	62-137
Trichloroethene	ND	50	51.34	51.45	103	103	0	21	66-142
Toluene	ND	50	51.07	51.25	102	103	0	21	59-139
Chlorobenzene	ND	50	50.76	51.38	102	103	1	21	60-133

QC Sample: LCS/LCSD  
 Analysis Date: Sep 13-04 10:43 AM

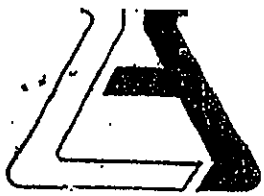
**Lab Controlled Spike / Lab Controlled Spike Duplicate**

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits	
								RPD	%REC
I,1-Dichloroethene	ND	50	57.83	58.02	116	116	0	22	59-172
MTBE	ND	50	49.81	51.31	100	103	3	24	62-137
Benzene	ND	50	54.95	55.42	110	111	1	24	62-137
Trichloroethene	ND	50	53.06	53.70	106	107	1	21	66-142
Toluene	ND	50	51.42	52.67	103	105	2	21	59-139
Chlorobenzene	ND	50	51.56	53.69	103	107	4	21	60-133

Method Blank = All ND

**SURROGATE ( QC Limits : 70-135 )**

Compound	MB 1	MB 2	MS	MSD	LCS	LCSD
DBFM	114	112	103	109	106	109
1,2-DCA	120	115	99	95	100	98
Tol-d8	97	99	96	96	95	99
p-BFB	104	98	102	101	101	101



**ASSOCIATED LABORATORIES**

806 North Batavia - Orange, California 92868-1225 - 714/771-6900 FAX 714/538-1209

**Cooler Receipt Form**

Client: Geo. Env. Project: Station 049

Date Cooler Received: 9-8 Date Cooler Opened: 9-8

Was cooler scanned for presence of radioactivity? Yes/No  
If yes was radioactivity results above 25 cpm? Yes/No

Was a shipper's packing slip attached to the cooler? Yes/No

If the cooler had custody seal(s), were they signed and intact? Yes/No/Na

Was the cooler packed with: Ice      Ice Packs   /   Bubble wrap   /    
Styrofoam      Paper      None      Other     

Cooler Temperature: 5.5°C \*

\*cooler needs to be received @ 4°C with an acceptable range of 2°- 6 °C

If samples were hand delivered do they meet the temp. criteria, which should be @ 4°C with an acceptable range of 2°- 6 °C? Yes/No

If no explain: \_\_\_\_\_

Were all samples sealed in plastic bags? Yes/No

Did all samples arrive intact? If no, indicate below. Yes/No

Were all samples labeled correctly? (ID's Dates, Times) If no, indicate below. Yes/No

Can the tests required be ran with the provided containers, If no indicate below. Yes/No

Was sufficient sample volume sent for all containers? Yes/No

Were any VOA vials received with head space? Yes/No/Na

Was the correct preservatives used? Yes/No/Na

If no, see the pH log for a list of samples containers regarding pH

Any other important information: \_\_\_\_\_

Receiving Department: ENV Date: 9-8





Advanced  
GeoEnvironmental, Inc.

837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

CHAIN OF CUSTODY RECORD

Date 9-3-04 Page 1 of 1

135961

Client <u>Thrifty Oil Co.</u>	Project Manager <u>Mike Bowery</u>	Tests Required
	Phone Number	
	Samplers: (Signature) <u>Paul Chapman</u>	
Project Name <u>Thrifty Station 049 ✓</u>		

Invoice:  
AGE   
Client

Sample Number	Location Description	Date	Time	Sample Type			Solid	No. of Conts.	TPH-3	BTEX	MTBE	Notes
				Water Comp.	Water Grab.	Air						
INT1/090304		09-03-04	12:21		X			3	X	X	X	
INT2/090304		09-03-04	12:23		X			3	X	X	X	
INT3/090304		09-03-04	12:25		X			3	X	X	X	
SPI/090304		09-03-04	12:30		X			3		X		

Relinquished by: (Signature) <u>[Signature]</u>	Received by: (Signature) <u>[Signature]</u> 9-8-04	Date/Time 96-04/1630
Relinquished by: (Signature)	Received by: (Signature) <u>[Signature]</u> 9-8-04 1:10	Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)	Date/Time
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: Date/Time

Method of Shipment: <u>Cal Overnight</u>	Laboratory Name: <u>Associated</u>
Special Instructions: <u>EPA method 8021B</u>	I hereby authorize the performance of the above indicated work. <u>[Signature]</u>