

THRIFTY OIL CO.

February 28, 2003

O.31809

Ms. Eva Chu
Hazardous Material Specialist
Alameda County Health Care Agency
Environmental Protection
1131 Harbor Bay parkway, Suite 250
Alameda, CA 94502

Alameda County
MAR 07 2003
Environmental Health

RE: **Former Thrifty Oil Co. Station #049**
3400 San Pablo Avenue
Oakland, CA 94612
Addendum to Workplan for Additional Site Assessment and Remedial System Upgrade


Dear Ms. Chu:

Presented herewith is the Addendum to Workplan for Additional Site Assessment and Remedial System Upgrade dated December 9, 2002 for Former Thrifty Oil Co Station #049 located at 3400 San Pablo Avenue, Oakland, California.

In the December 18, 2002 letter, the Alameda County Health Care Agency (ACHCA) requests that an addendum to the December 9, 2002 workplan be submitted within 21 days after receipt of the ACHCA e-mail letter. I was informed that Mr. Raymond C. Friedrichsen spoke via telephone with Ms. Eva Chu of the ACHCA on January 6, 2003 requesting an extension for submitting the addendum to the workplan. Ms. Chu granted an extension until March 15, 2003. Thrifty appreciates the ACHCA understanding and cooperation.

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.

February 28, 2003

Ms. Eva Chu
Hazardous Material Specialist
Alameda County Health Care Agency (ACHCA)
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA.

RE: Former Thrifty Oil Co. Station #049
3400 San Pablo Avenue
Oakland, CA
Addendum to Workplan for Additional Site Assessment and Remedial System Upgrade

Dear Ms. Chu:

Thrifty Oil Co. (Thrifty) is in receipt of the ACHCA e-mail letter dated December 18, 2002 which requests an amendment to the Workplan for Additional Site Assessment and Remedial System Upgrade dated December 9, 2002. Specifically, the ACHCA letter requests that several soil borings also be included in the off-site assessment along San Pablo and 34th street. To respond, Thrifty will install three additional borings (B-1 through B-3) as indicated on **Figure 1**. Presented herein is the Addendum to the Workplan for Additional Site Assessment.

The following activities will be performed in association with the drilling of the three additional soil borings (B-1 through B-3):

- Before boring installation, permits will be acquired from the ACHCA, the City of Oakland (if required), and any other agency that requires permits for street or sidewalk drilling. USA notification will be preformed, and a Health and Safety Plan will be prepared and submitted before any fieldwork begins.
- The boreholes will be drilled using a hollow-stem drilling rig, and soil samples will be collected at 5-foot intervals for laboratory analysis. Once groundwater is encountered, soil sampling will continue for geological logging purposes only, and the borehole will continue 10 feet into groundwater. Based on recent monitoring data, depth to water is approximately 7 to 10 feet below surface grade (bsg). Soil sampled will be collected from a California split spoon sampler that contains three brass rings. One brass ring will be collected and Telfon sheets will be placed over both ends and capped by plastic end caps. The sample will be placed on ice and shipped to a state certified laboratory under Chain-of-Custody for laboratory analytical analysis for total petroleum hydrocarbons as gasoline (TPH-g) by EPA method 8015M, benzene, toluene, ethylbenzene, total xylenes (BTEX), and selected oxygenates (including MTBE) by EPA method 8260B. Thrifty reserves the right to convert any of these borings into groundwater monitoring wells if evidence of hydrocarbon impacted soil is observed during drilling and sampling of the soil borings.
- If any or all the soil borings are converted to 2-inch diameter groundwater monitoring wells, the wells will be screened from 20 feet bsg to 5 feet bsg. These depths could be altered

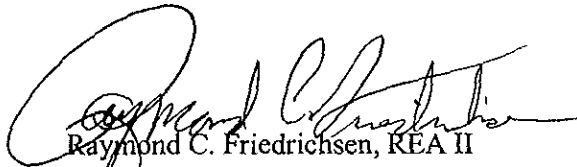


depending upon the depth of encountered groundwater. The ACHCA office will be immediately notified by telephone of any alterations of the well design.


- If the borings are converted to groundwater monitoring wells, the wells will be developed using a drilling rig-mounted surge block and bailer, purged and sampled. The collected water sample will be placed in an ice cooler, its ID number will be logged on a chain-of-custody, and the sample transferred to a state certified laboratory for the same analysis as listed above for the soil samples. If a well is not constructed, a grab groundwater sample will be collected from the borehole and analyzed for the same analysis as listed above.
- A licensed surveyor will survey all wellhead elevations to a known benchmark, assuming that off-site well(s) are installed. The surveyor will comply with the new AB2866 requirements.
- Future quarterly monitoring reports would incorporate water table elevation and analytical data from the well(s), if installed.
- A report will be prepared to document the boring/well installation activities, and will follow all ACHCA requirements as presented in Thrifty's previously submitted Work Plan for Additional Site Assessment and Remedial System Upgrade dated December 9, 2002. Once Thrifty receives approval of this site assessment addendum, Thrifty will implement both the site assessment activities, and the upgrade to the existing remediation system presented in the above mentioned report, and approved in the ACHCA letter dated December 18, 2002.

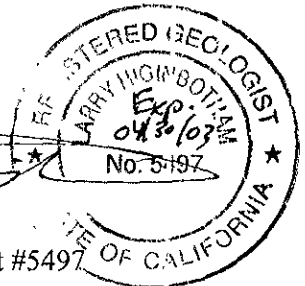
If you have any questions or comments, please contact the undersigned at (562) 921-3581 X376.

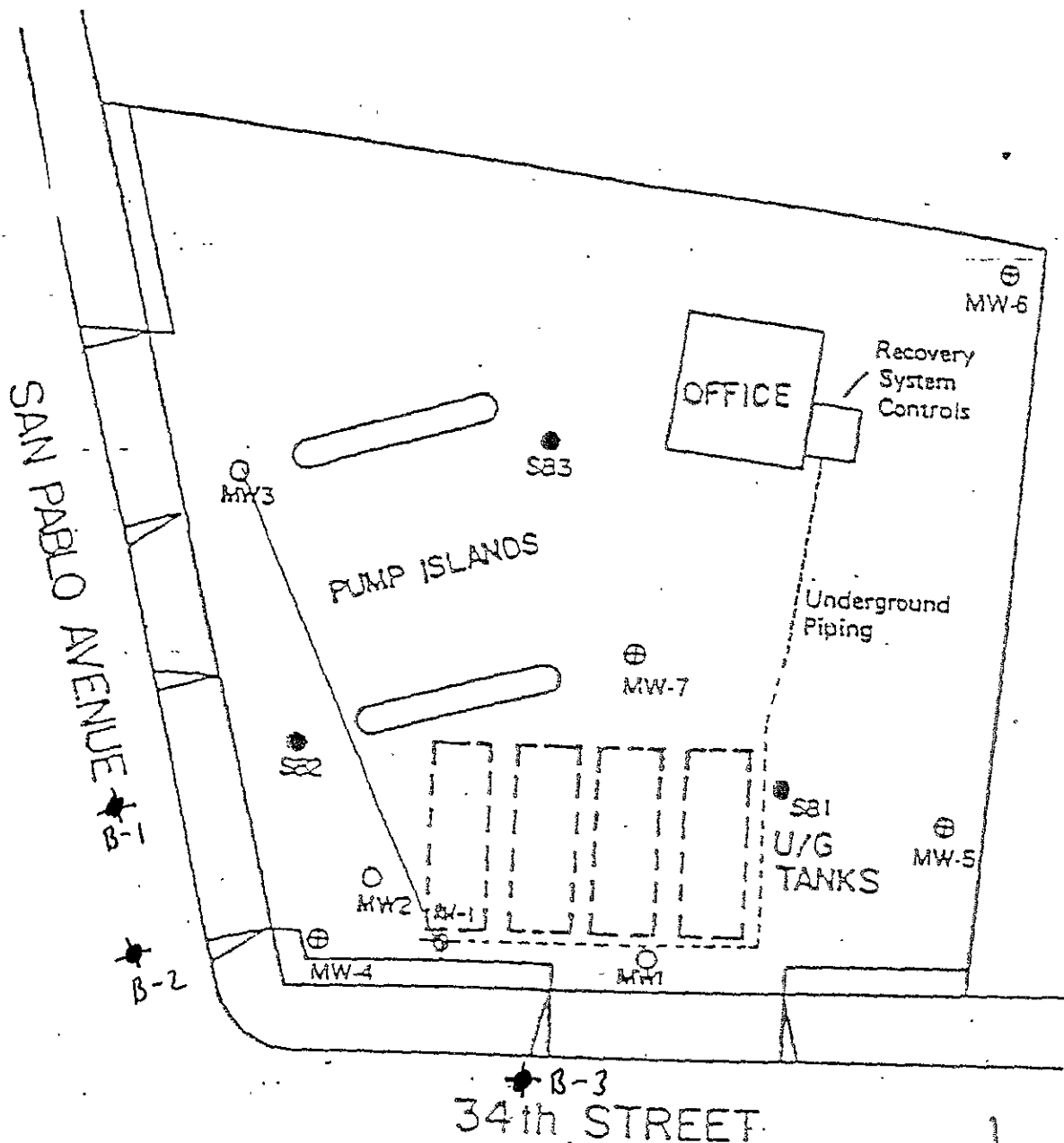
Written by:


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

Reviewed by:


Larry Higinbotham
Registered Geologist #5497





LEGEND

- MW1 - GT MONITORING WELLS
- ⊕ MW-4 - WCC MONITORING WELLS
- SB1 - GT SOIL BORINGS
- ⊕-○ RW-1 - G.W. RECOVERY WELL
- ⊕-○ Proposed off site well
- ⊕-● Proposed soil borings

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

Figure 1

THRIFTY OIL CO.

January 13, 2003

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

O.30289
Local #4057
RWQCB #01-1478
Global ID #T0600101365
Confirmation #6108019232

Alameda County
JAN 21 2003
Environmental Health

RE: **Former Thrifty Oil Co. Station #049**
ARCO Products Company Station #9535
3400 San Pablo Avenue
Oakland, CA 94612
4th Quarter 2002, Status Report

Dear Ms. Chu:

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

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

Sincerely,



Chris Panaitescu
General Manager
Environmental Affairs

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



THRIFTY OIL CO.

January 13, 2003

Ms. Eva Chu
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 #6108019232

RE: **Former Thrifty Oil Co. Station #049**
3400 San Pablo Avenue
Oakland, CA 94612
4th Quarter 2002, Status Report

Dear Ms. Chu:

Presented herein is the Fourth Quarter 2002, 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 fourth quarter of 2002. Thrifty has retained the services of Earth Management Company (EMC) to conduct quarterly monitoring and sampling, and remediation system monitoring activities at this site.

Groundwater Monitoring

Depth to groundwater is measured in each monitoring well on a quarterly basis. In general, groundwater occurs beneath the station at depths ranging from 5.27 feet below surface grade (bsg) in monitoring well MW-4 to 6.13 feet bsg in monitoring well MW-1 (**Appendix A**). A groundwater elevation contour map based on the November 14, 2002 data is presented in **Figure 2**. Groundwater elevation data indicates that the flow direction is from south to west with a groundwater gradient of approximately 0.02 feet/foot. Recovery well RW-1 was not used to calculate the gradient presented on **Figure 2**, because the extraction of groundwater from this well lowers the water table to anomalous levels.

Quarterly Groundwater Sampling

As part of the ongoing groundwater-monitoring program, EMC obtained groundwater samples were obtained from monitoring wells MW-1 through MW-7 on November 14, 2002. Groundwater samples were obtained by EMC and delivered in a chilled state following strict Chain-of-Custody procedures to a state-certified laboratory and analyzed for total petroleum hydrocarbons (TPH-g) by EPA method 8015 modified for gasoline. Volatile organic compounds of benzene, toluene, ethylbenzene, xylenes (BTEX), oxygenated compounds (including MTBE), and 1,2-dichloroethane (1,2-DCA) were analyzed by EPA method 8260B. A summary of historical analytical sampling results for TPH-g, BTEX, and MTBE is provided in **Table 1**; oxygenated compounds are summarized in **Table 3**. Copies of the EMC Field Status Reports are presented in **Appendix A**, and copies of the laboratory analytical reports are contained in **Appendix B**.

The TPH-g, benzene and MTBE isoconcentration maps are presented in **Figures 3, 4, and 5**, respectively. Laboratory results indicate the highest concentration of TPH-g was in monitoring well MW-2 (39,400 ug/L),



and the highest results of benzene and MTBE were found in well MW-4 (1,720 ug/L and 8,280 ug/L, respectively).

Remediation Status

Site remedial activities were initiated in April 1991. Presently, the remediation system consists of a Groundwater Treatment System using activated carbon, with groundwater extraction from recovery well RW-1. System operational data is included in **Table 2** and **Appendix C**. During this reporting period, the groundwater treatment system processed 59,870 gallons of groundwater, and has treated approximately 1,415,308 gallons of groundwater since start up (April 1991) through December 27, 2002. The system operated throughout the quarter.

Inlet, intermediate 3, intermediate 2, intermediate 1, and outlet water samples were collected on October 4, 2002, from the treatment unit. The samples collected by EMC were sent to a state certified laboratory for analysis, and were analyzed for TPH-g, BTEX, and MTBE by EPA methods 8015M and 8021B, respectively. All analyzed outlet samples were below the laboratory detection limits. Copies of the laboratory analytical reports are included in **Appendix D**.

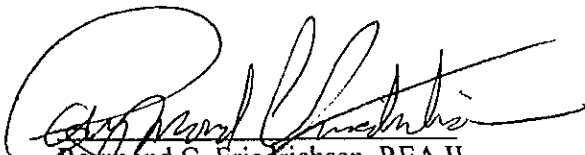
Other Activities

Thrifty is in receipt of the Alameda County Health Care Agency (ACHCA) fax letter dated December 18, 2002, which request installation of additional off-site wells and upgrade of the remediation system. Thrifty is currently reviewing the ACHCA letter and will submit an amended work plan in the first quarter of 2003. Upon approval of the amended work plan, Thrifty will retain a consultant to implement the approved scope of work for both the groundwater well installation and the remedial system upgrade.

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 first quarter 2003 monitoring report.

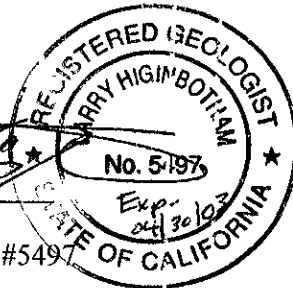

All interpretations expressed in this report are based solely upon data collected by EMC, and laboratory analyses conducted by Associated Laboratories.

Written by:



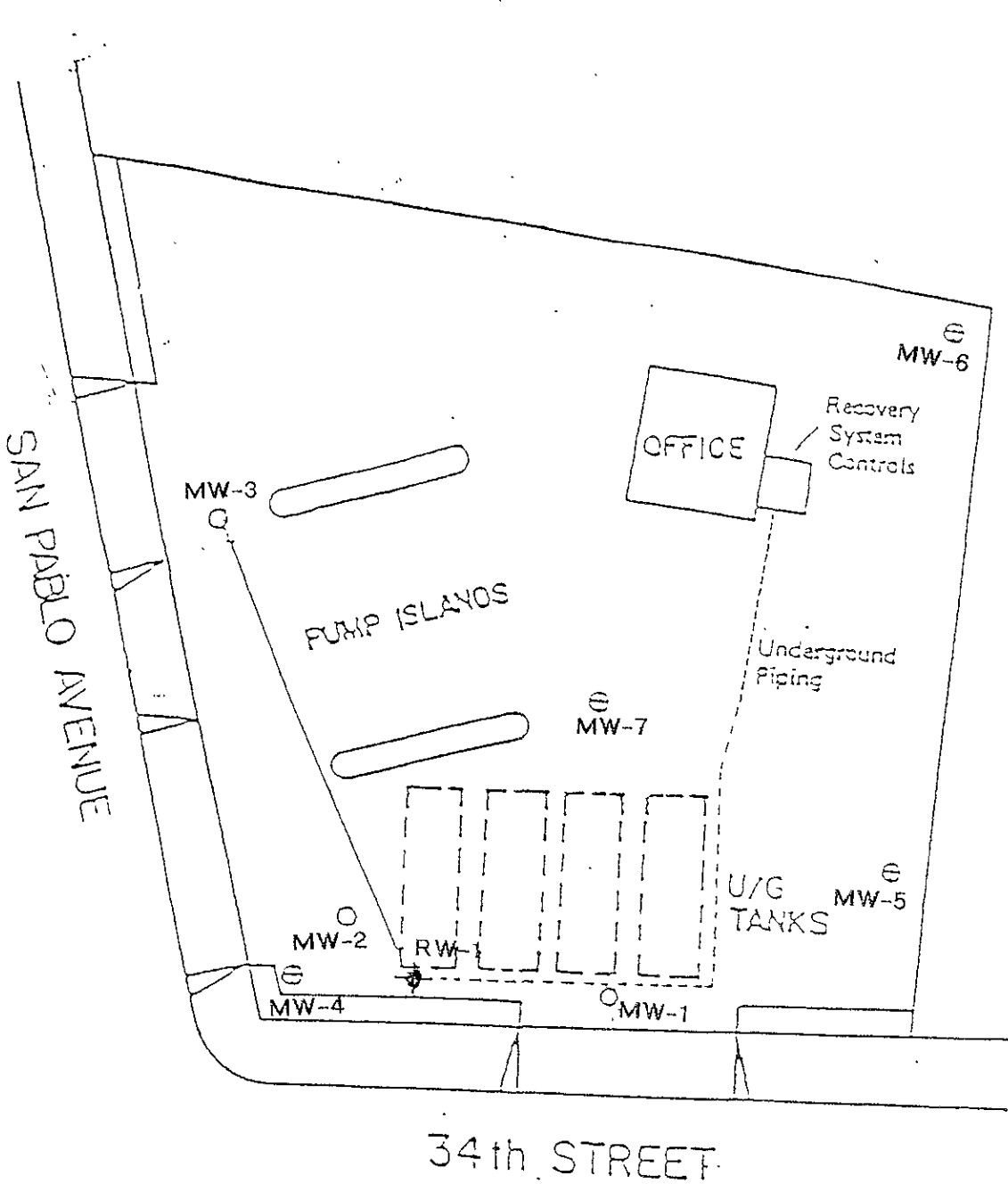
Raymond C. Friedrichsen, REA II
Project Manager, MBA
Senior Environmental Hydrogeologist

Reviewed by:



Larry Higinbotham
Registered Geologist #5497

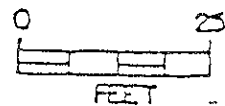
FIGURES

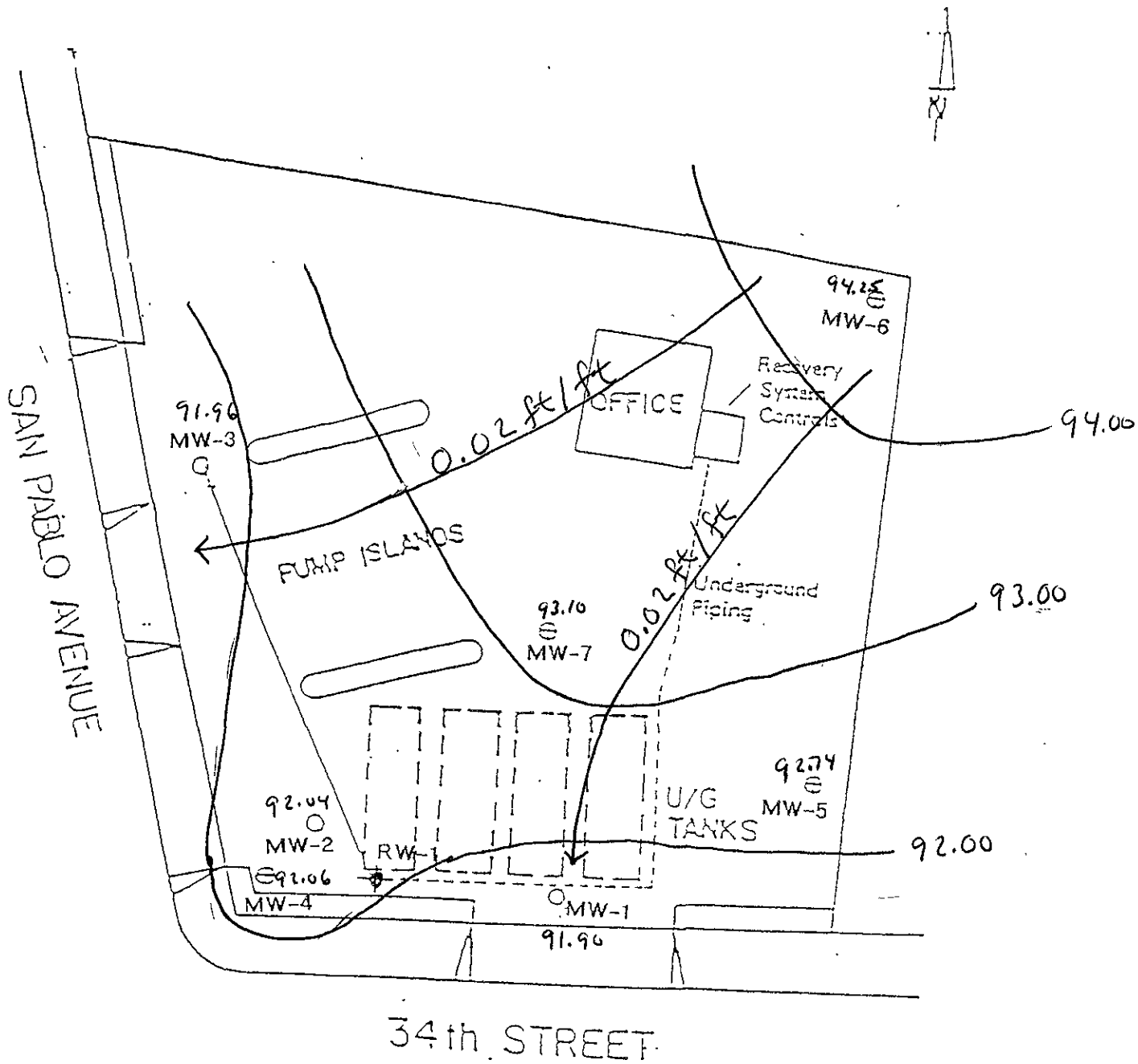


SITE PLAN AND RECOVERY SYSTEM LOCATION
 THRIFTY SERVICE STATION NO. 49
 3400 SAN PABLO AVE.
 OAKLAND, CA

LEGEND

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



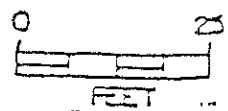


GROUNDWATER CONTOUR MAP
 THRIFTY SERVICE STATION NO. 49
 3400 SAN PABLO AVE.
 OAKLAND, CA

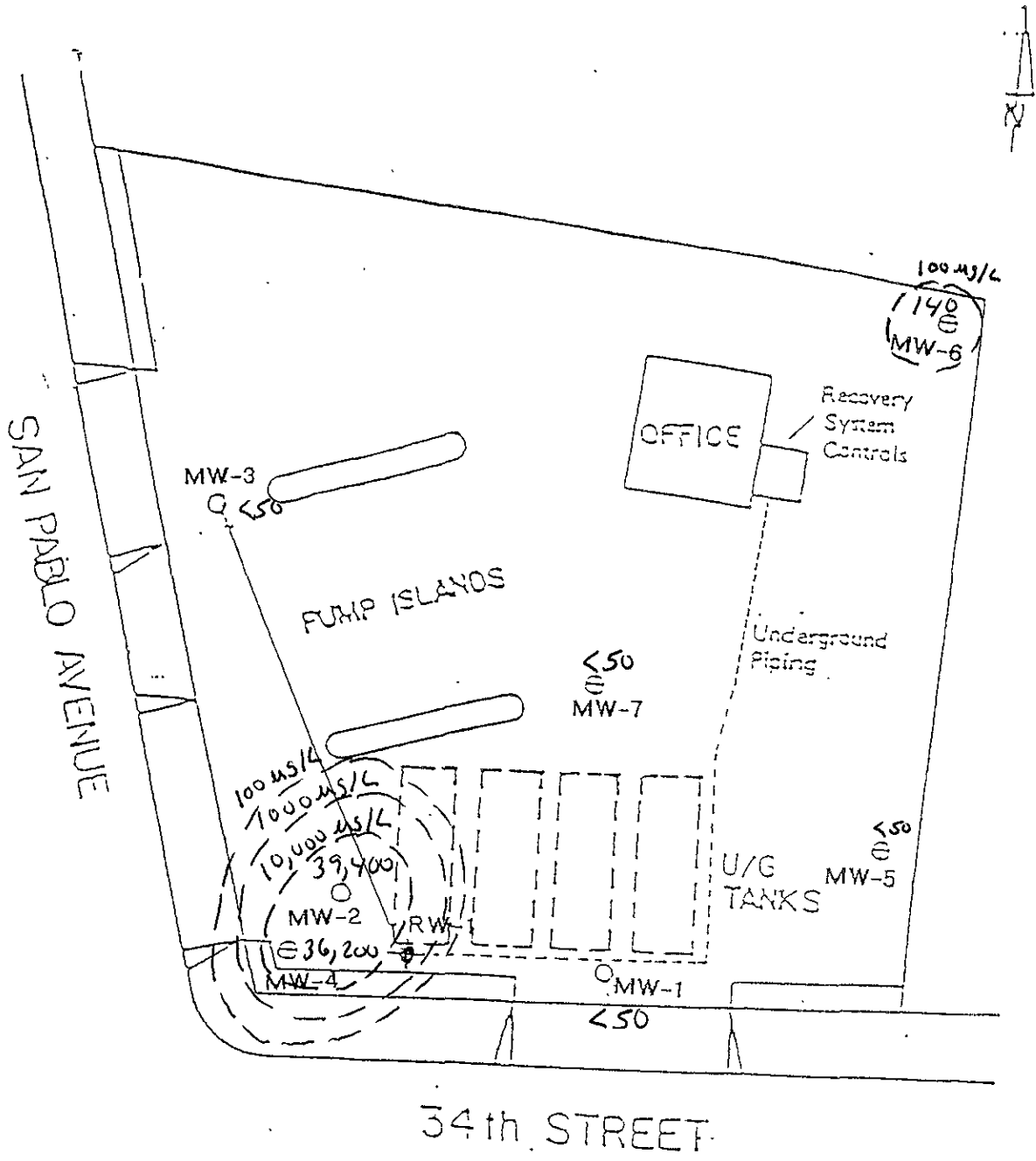
LEGEND

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

91.96' = AMSL in feet



11/14/02

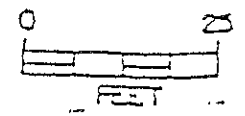


TPH ISOCONCENTRATION MAP - ug/L
 THRIFTY SERVICE STATION NO. 49
 3400 SAN PABLO AVE.
 OAKLAND, CA

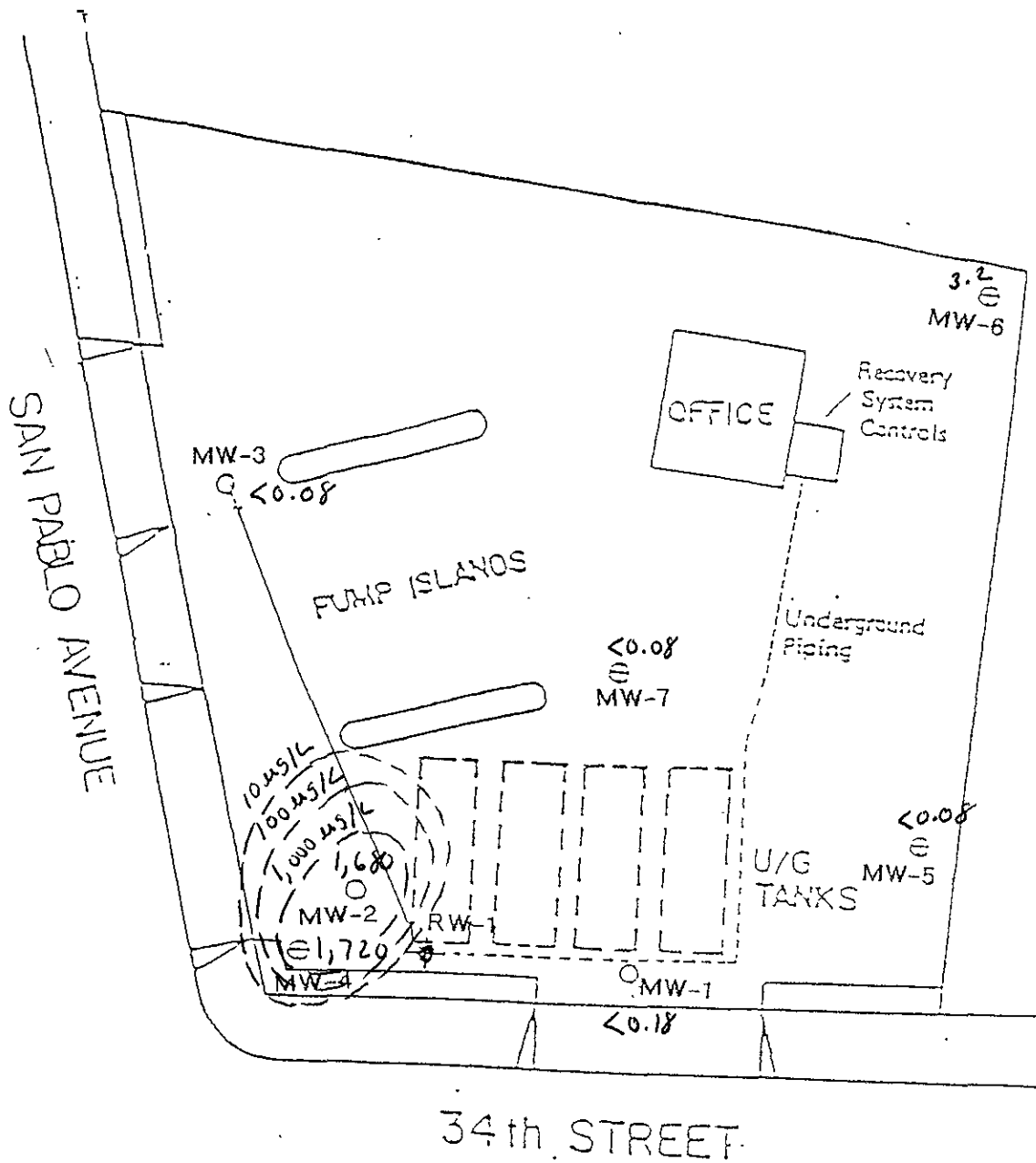
LEGEND

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

(140) in ug/L



11/14/02

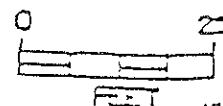


BENZENE ISOCONCENTRATION MAP ug/L
 THRIFTY SERVICE STATION NO. 49
 3400 SAN PABLO AVE.
 OAKLAND, CA

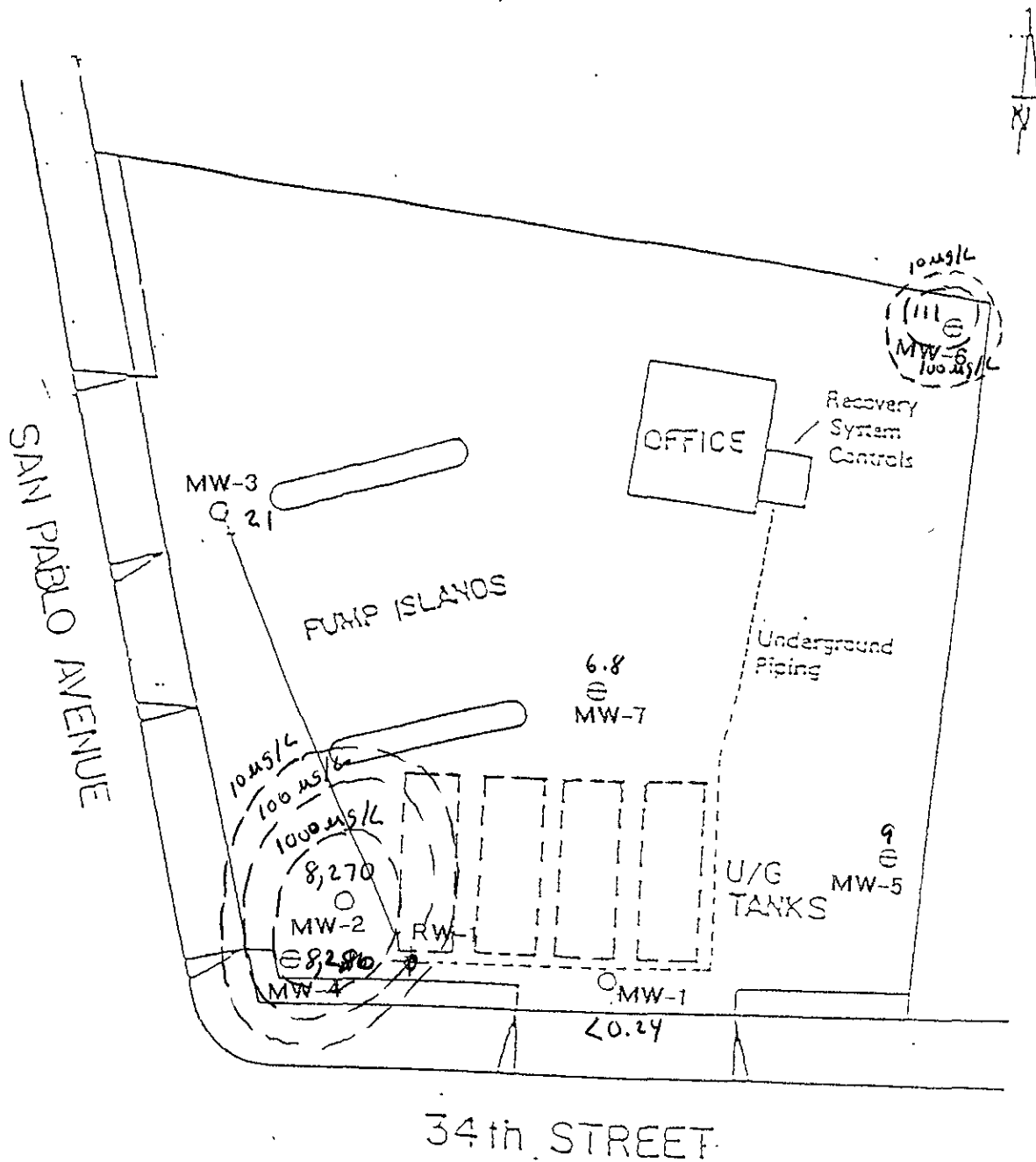
(3.2) in $\mu\text{g/L}$

LEGEND

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



11/14/02

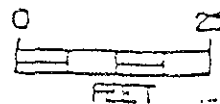


MTBE ISOCONCENTRATION MAP ug/L
 THRIFTY SERVICE STATION NO. 49
 3400 SAN PABLO AVE.
 OAKLAND, CA

LEGEND

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

(111) in ug/L



11/14/82

TABLES

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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
MONITORING WELL #MW-1											
01/09/92	-	-	-	-	-	-	5.54	NP	0.00	98.03	92.49
04/13/92	-	-	-	-	-	-	5.86	NP	0.00	98.03	92.17
10/05/92	-	-	-	-	-	-	9.39	NP	0.00	98.03	88.64
01/06/93	-	-	-	-	-	-	4.76	NP	0.00	98.03	93.27
04/26/93	-	-	-	-	-	-	4.96	NP	0.00	98.03	93.07
01/04/94	-	-	-	-	-	-	7.00	NP	0.00	98.03	91.03
04/05/94	-	-	-	-	-	-	6.44	NP	0.00	98.03	91.59
10/09/95	44,000	4,500	4,300	1,700	10,000	-	-	-	-	98.03	-
01/08/96	21,000	1,200	150	34	4,800	-	6.15	NP	0.00	98.03	91.88
04/08/96	4,700	80	110	10	910	-	5.40	NP	0.00	98.03	92.63
07/22/96	7,000	280	130	<3	2,100	440	5.50	NP	0.00	98.03	92.53
10/16/96	120	<0.3	<0.3	<0.3	<0.5	180	6.02	NP	0.00	98.03	92.01
01/22/97	160	<0.3	<0.3	<0.3	<0.5	360	4.40	NP	0.00	98.03	93.63
04/21/97	20,000	420	140	5.8	840	55,000	6.30	NP	0.00	98.03	91.73
07/14/97	13,000	<0.3	<0.3	<0.3	<0.55	30,000	5.92	NP	0.00	98.03	92.11
10/07/97	-	-	-	-	-	-	7.71	7.70	0.01	98.03	90.33
01/15/98	<50	0.3	<0.3	<0.3	<0.5	-	4.40	NP	0.00	98.03	93.63
04/23/98	540	<0.3	<0.3	<0.3	<0.5	<20	8.10	NP	0.00	98.03	89.93
07/20/98	<50	<0.3	<0.3	<0.3	<0.5	<5	5.55	NP	0.00	98.03	92.48
10/14/98	50	1.4	0.56	<0.3	11	22	7.05	NP	0.00	98.03	90.98
01/21/99	<50	0.59	<0.3	<0.3	<0.5	<5	4.10	NP	0.00	98.03	93.93
04/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	4.30	NP	0.00	98.03	93.73
07/26/99	<50	<0.3	<0.3	<0.3	<0.5	<5	5.54	NP	0.00	98.03	92.49
10/13/99	<50	<0.3	<0.3	<0.3	<0.5	<5	6.13	NP	0.00	98.03	91.90
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	<5	6.04	NP	0.00	98.03	91.99
04/05/00	<50	<0.25	<0.25	<0.25	<0.5	<5	4.03	NP	0.00	98.03	94.00
07/19/00	<50	<0.3	<0.3	<0.3	<0.6	<5	4.00	NP	0.00	98.03	94.03
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	5.53	NP	0.00	98.03	92.50
01/17/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.97	NP	0.00	98.03	94.06
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.98	NP	0.00	98.03	94.05
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	5.51	NP	0.00	98.03	92.52
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.97	NP	0.00	98.03	94.06
01/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.95	NP	0.00	98.03	94.08
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	2.42	NP	0.00	98.03	95.61

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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
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
MONITORING WELL #MW-2											
01/09/92	-	-	-	-	-	-	5.35	NP	0.00	97.44	92.09
04/13/92	-	-	-	-	-	-	7.42	NP	0.00	97.44	90.02
10/05/92	-	-	-	-	-	-	12.15	NP	0.00	97.44	85.29
01/06/93	-	-	-	-	-	-	5.46	NP	0.00	97.44	91.98
04/26/93	-	-	-	-	-	-	5.15	NP	0.00	97.44	92.29
01/04/94	-	-	-	-	-	-	9.45	NP	0.00	97.44	87.99
04/05/94	-	-	-	-	-	-	8.23	NP	0.00	97.44	89.21
10/09/95	33,000	6,000	390	1,700	4,900	-	-	-	-	97.44	-
01/08/96	<50	0.32	<0.3	0.41	2.1	-	5.60	NP	0.00	97.44	91.84
04/08/96	10,000	490	210	210	830	-	5.43	NP	0.00	97.44	92.01
07/22/96	60,000	6,500	1,000	1,500	10,000	8,500	5.65	NP	0.00	97.44	91.79
10/16/96	6,500	12	0.34	0.72	110	4,700	5.82	NP	0.00	97.44	91.62
01/22/97	3,200	<0.3	0.46	0.37	<0.5	8,000	4.30	NP	0.00	97.44	93.14
04/21/97	66,000	5,300	1,000	2,300	14,000	30,000	5.80	NP	0.00	97.44	91.64
07/14/97	17,000	1.8	4.6	4.6	350	24,000	8.92	NP	0.00	97.44	88.52
10/07/97	220,000	5,200	1,700	3,800	15,000	-	6.80	NP	0.00	97.44	90.64
01/19/98	25,000	5.4	2.2	2.1	240	-	8.50	NP	0.00	97.44	88.94
04/23/98	7,700	<0.3	0.55	0.38	4.9	28,000	7.60	NP	0.00	97.44	89.84
07/20/98	430,000	4,200	10,000	5,400	28,000	77,000	6.94	NP	0.00	97.44	90.50
10/14/98	27,000	<0.3	4.5	4.1	4.6	65,000	8.45	NP	0.00	97.44	88.99
01/21/99	16,000	7.6	9.8	4.2	310	* 49,000 / 42,000	6.95	NP	0.00	97.44	90.49
04/15/99	20,000	<0.3	<0.3	<0.3	<0.5	* 31,000 / 30,000	8.45	NP	0.00	97.44	88.99
07/26/99	6,700	<6	<6	<6	<10	* 11,000 / 15,000	6.94	NP	0.00	97.44	90.50
10/13/99	7,600	<3	3.7	<3	11	11,000	5.48	NP	0.00	97.44	91.96
01/20/00	7,500	<6	<6	<6	<10	* 14,000 / 16,000	5.84	NP	0.00	97.44	91.60
04/05/00	10,400	<0.25	<0.25	<0.25	<0.5	* 10,000 / 14,400	5.41	NP	0.00	97.44	92.03
07/19/00	130	<0.3	<0.3	<0.3	<0.6	* 9,620 / 6,520	5.40	NP	0.00	97.44	92.04
10/18/00	150	<0.18	<0.14	<0.18	<0.26	* 9,090 / 6,560	6.91	NP	0.00	97.44	90.53
01/17/01	75	<0.18	2	2	3	* 8,650 / 9,710	5.41	NP	0.00	97.44	92.03
04/19/01	4,380	<0.18	<0.14	<0.18	<0.26	8,890	5.40	NP	0.00	97.44	92.04
07/18/01	3,260	<0.18	<0.14	<0.18	2	* 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)	MIBE (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	1	2	*2,560 / 1,590	8.45	NP	0.00	97.44	88.99
04/17/02	1,470	1	<0.14	<0.18	<0.26	*2,460 / 2,080	8.45	NP	0.00	97.44	88.99
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
MONITORING WELL #MW-3											
01/09/92	-	-	-	-	-	-	17.60	NP	0.00	97.69	80.09
04/13/92	-	-	-	-	-	-	17.40	NP	0.00	97.69	80.29
10/05/92	-	-	-	-	-	-	17.35	NP	0.00	97.69	80.34
01/06/93	-	-	-	-	-	-	17.40	NP	0.00	97.69	80.29
04/26/93	-	-	-	-	-	-	17.90	NP	0.00	97.69	79.79
01/04/94	-	-	-	-	-	-	17.60	NP	0.00	97.69	80.09
04/05/94	-	-	-	-	-	-	16.25	NP	0.00	97.69	81.44
01/08/96	-	-	-	-	-	-	7.11	NP	0.00	97.69	90.58
04/08/96	8,800	610	31	530	900	-	7.20	NP	0.00	97.69	90.49
07/22/96	38,000	4,100	1,500	1,600	5,400	2,600	6.82	NP	0.00	97.69	90.87
10/16/96	2,400	<0.3	<0.3	<0.3	<0.5	3,800	6.84	NP	0.00	97.69	90.85
01/22/97	2,200	<0.3	<0.3	<0.3	<0.5	5,500	4.80	NP	0.00	97.69	92.89
04/21/97	15,000	1,500	36	260	710	11,000	9.40	NP	0.00	97.69	88.29
07/14/97	5,400	0.45	<0.3	<0.3	<0.5	14,000	10.92	NP	0.00	97.69	86.77
10/07/97	8,800	0.39	<0.3	<0.3	0.88	-	11.95	NP	0.00	97.69	85.74
01/19/98	22,000	1,300	15	20	310	-	7.85	NP	0.00	97.69	89.84
04/23/98	9,200	3.9	3.1	5.7	9.8	16,000	11.20	NP	0.00	97.69	86.49
07/20/98	750	0.41	1.4	0.47	1.8	2,800	7.36	NP	0.00	97.69	90.33
10/14/98	750	<0.3	<0.3	<0.3	<0.5	15,000	11.95	NP	0.00	97.69	85.74
01/21/99	4,700	0.32	<0.3	<0.3	<0.5	* 12,000 / 16,000	10.45	NP	0.00	97.69	87.24
04/15/99	7,900	0.59	0.69	<0.3	0.94	* 11,000 / 14,000	7.86	NP	0.00	97.69	89.83
07/26/99	5,200	<3	<3	<3	<5	*9,600 / 11,000	10.40	NP	0.00	97.69	87.29
10/13/99	<50	<0.3	<0.3	<0.3	<0.5	<5	7.09	NP	0.00	97.69	90.60
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	<5	6.86	NP	0.00	97.69	90.83
04/05/00	<50	0.8	<0.25	<0.25	<0.5	*5.6 / <5	8.85	NP	0.00	97.69	88.84
07/19/00	<50	<0.3	<0.3	<0.3	<0.6	<5	8.86	NP	0.00	97.69	88.83
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	7.32	NP	0.00	97.69	90.37
01/17/01	<50	<0.18	2	<0.18	1	*39 / 39	5.40	NP	0.00	97.69	92.29

**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)					
04/19/01	<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
MONITORING WELL #MW-4											
01/09/92	-	-	-	-	-	-	5.25	NP	0.00	97.33	92.08
04/13/92	-	-	-	-	-	-	6.40	NP	0.00	97.33	90.93
10/05/92	-	-	-	-	-	-	9.95	NP	0.00	97.33	87.38
01/06/93	-	-	-	-	-	-	4.10	NP	0.00	97.33	93.23
04/26/93	-	-	-	-	-	-	4.84	NP	0.00	97.33	92.49
01/04/94	-	-	-	-	-	-	9.05	NP	0.00	97.33	88.28
04/05/94	-	-	-	-	-	-	8.10	NP	0.00	97.33	89.23
10/09/95	63,000	9,000	2,100	2,500	9,600	-	-	-	-	97.33	-
01/08/96	23,000	2,200	830	880	3,600	-	5.57	NP	0.00	97.33	91.76
04/08/96	56,000	5,000	2,500	2,600	11,000	-	5.36	NP	0.00	97.33	91.97
07/22/96	33,000	3,700	1,600	1,400	6,000	2,400	4.80	NP	0.00	97.33	92.53
10/16/96	2,800	7.8	0.60	0.41	52	2,000	5.47	NP	0.00	97.33	91.86
01/22/97	1,400	<0.3	<0.3	<0.3	<0.5	3,100	5.15	NP	0.00	97.33	92.18
04/21/97	-	-	-	-	-	-	6.36	5.30	1.06	97.33	91.77
07/14/97	-	-	-	-	-	-	5.24	5.21	0.03	97.33	92.11
10/07/97	-	-	-	-	-	-	7.82	7.80	0.02	97.33	89.53
01/15/98	-	-	-	-	-	-	6.68	6.60	0.08	97.33	90.71
04/23/98	-	-	-	-	-	-	6.36	5.30	1.06	97.33	91.77
07/20/98	<50	<0.3	<0.3	<0.3	<0.5	<5	6.05	NP	0.00	97.33	91.28
10/14/98	3,100	86	23	2.0	520	1,100	6.85	NP	0.00	97.33	90.48
01/21/99	9,100	3.2	5.6	1.8	130	*24,000 / 17,000	6.10	NP	0.00	97.33	91.23
04/15/99	14,000	<0.3	0.71	<0.3	<0.5	*20,000 / 22,000	6.05	NP	0.00	97.33	91.28
07/26/99	4,500	<6	<6	<6	<10	*8,700 / 9,800	6.07	NP	0.00	97.33	91.26
10/13/99	410	<0.3	0.63	<0.3	<0.5	660	5.54	NP	0.00	97.33	91.79
01/20/00	770	<0.3	<0.3	<0.3	<0.5	*2,400 / 1,900	5.49	NP	0.00	97.33	91.84
04/05/00	61,200	0.9	<0.25	<0.25	<0.5	*18,500 / 21,900	5.30	NP	0.00	97.33	92.03

**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	96,600	1,770	1,760	2,690	8,730	21,900 / 9,740 J	5.29	NP	0.00	97.33	92.04
10/18/00	34,900	698	1,010	607	4,130	*27,800 / 15,900	6.02	NP	0.00	97.33	91.31
01/17/01	29,100	799	930	614	3,400	*24,300 / 31,400	4.88	NP	0.00	97.33	92.45
04/19/01	103,000	4,880	3,980	3,260	11,800	66,900	4.89	NP	0.00	97.33	92.44
07/18/01	52,200	3,320	2,090	440	5,520	*55,500 / 16,800	6.04	NP	0.00	97.33	91.29
10/10/01	8,580	6.1	14	5.3	70	*40,100 / 30,000	4.51	NP	0.00	97.33	92.82
01/30/02	36,500	<0.18	3	1	3	*43,000 / 24,900	4.51	NP	0.00	97.33	92.82
04/17/02	12,900	8	1	<0.18	1	16,000 / 13,600	4.51	NP	0.00	97.33	92.82
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
MONITORING WELL #MW-5											
01/09/92	-	-	-	-	-	-	5.32	NP	0.00	98.85	93.53
04/13/92	-	-	-	-	-	-	4.82	NP	0.00	98.85	94.03
10/0/92	-	-	-	-	-	-	8.78	NP	0.00	98.85	90.07
01/06/93	-	-	-	-	-	-	3.46	NP	0.00	98.85	95.39
04/26/93	-	-	-	-	-	-	4.66	NP	0.00	98.85	94.19
01/04/94	-	-	-	-	-	-	6.36	NP	0.00	98.85	92.49
04/05/94	-	-	-	-	-	-	5.94	NP	0.00	98.85	92.91
07/12/95	<100	<0.5	<0.5	<0.5	<1	-	-	-	-	98.85	-
10/09/95	440	31	11	19	84	-	-	-	-	98.85	-
01/08/96	<50	<0.3	<0.3	<0.3	<0.5	-	6.63	NP	0.00	98.85	92.22
04/08/96	<50	<0.3	<0.3	<0.3	<0.5	-	5.22	NP	0.00	98.85	93.63
07/22/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.62	NP	0.00	98.85	92.23
10/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.12	NP	0.00	98.85	92.73
01/22/97	<50	<0.3	<0.3	<0.3	<0.5	<20	5.17	NP	0.00	98.85	93.68
04/21/97	73	2.5	0.34	0.74	3.8	21	6.64	NP	0.00	98.85	92.21
07/14/97	<50	<0.3	<0.3	<0.3	<0.5	<20	6.67	NP	0.00	98.85	92.18
10/07/97	130	<0.3	<0.3	<0.3	<0.5	-	8.20	NP	0.00	98.85	90.65
01/19/98	85	<0.3	<0.3	<0.3	<0.5	-	1.55	NP	0.00	98.85	97.30
04/23/98	220	0.39	<0.3	<0.3	<0.5	350	8.10	NP	0.00	98.85	90.75
07/20/98	<50	<0.3	<0.3	<0.3	<0.5	<5	6.30	NP	0.00	98.85	92.55
10/14/98	<50	<0.3	<0.3	<0.3	<0.5	<5	7.65	NP	0.00	98.85	91.20
01/21/99	<50	<0.3	<0.3	<0.3	<0.5	*6.7 / <5	6.15	NP	0.00	98.85	92.70
04/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	1.60	NP	0.00	98.85	97.25

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)					
07/26/99	<50	<0.3	<0.3	<0.3	<0.5	<5	6.13	NP	0.00	98.85	92.72
10/13/99	<50	<0.3	<0.3	<0.3	<0.5	<5	6.61	NP	0.00	98.85	92.24
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	<5	6.14	NP	0.00	98.85	92.71
04/05/00	<50	0.5	<0.25	<0.25	<0.5	*5.4 / <5	4.58	NP	0.00	98.85	94.27
07/19/00	<50	<0.3	<0.3	<0.3	<0.6	<5	4.59	NP	0.00	98.85	94.26
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	6.28	NP	0.00	98.85	92.57
01/17/01	<50	<0.18	<0.14	<0.18	1	*5 / 4.8	4.58	NP	0.00	98.85	94.27
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4.58	NP	0.00	98.85	94.27
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	6.12	NP	0.00	98.85	92.73
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4.58	NP	0.00	98.85	94.27
01/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4.48	NP	0.00	98.85	94.37
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4.58	NP	0.00	98.85	94.27
07/31/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	6.10	NP	0.00	98.85	92.75
11/14/02	<50	<0.08	<0.18	<0.17	<0.4	9	6.11	NP	0.00	98.85	92.74
MONITORING WELL #MW-6											
01/09/92	-	-	-	-	-	-	6.30	NP	0.00	99.67	93.37
04/13/92	-	-	-	-	-	-	5.47	NP	0.00	99.67	94.20
10/05/92	-	-	-	-	-	-	9.85	NP	0.00	99.67	89.82
01/06/93	-	-	-	-	-	-	4.16	NP	0.00	99.67	95.51
04/26/93	-	-	-	-	-	-	5.75	NP	0.00	99.67	93.92
01/14/94	-	-	-	-	-	-	7.20	NP	0.00	99.67	92.47
04/05/94	-	-	-	-	-	-	6.76	NP	0.00	99.67	92.91
07/10/95	<100	<0.5	0.9	<0.5	1.1	-	-	-	-	99.67	-
10/09/95	250	4.8	5.6	11	58	-	-	-	-	99.67	-
01/08/96	<50	<0.3	<0.3	<0.3	<0.5	-	6.16	NP	0.00	99.67	93.51
04/08/96	230	4.6	4.7	3.2	33	-	4.60	NP	0.00	99.67	95.07
07/22/96	<50	<0.3	<0.3	<0.3	<0.5	<20	7.30	NP	0.00	99.67	92.37
10/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.82	NP	0.00	99.67	93.85
01/22/97	<50	<0.3	<0.3	<0.3	<0.5	<20	4.40	NP	0.00	99.67	95.27
04/21/97	130	<0.3	<0.3	<0.3	<0.5	<20	7.10	NP	0.00	99.67	92.57
07/14/97	<50	<0.3	<0.3	<0.3	0.70	<20	7.35	NP	0.00	99.67	92.32
10/07/97	<50	0.78	0.3	<0.3	<0.5	-	6.98	NP	0.00	99.67	92.69
01/23/98	<50	<0.3	<0.3	<0.3	<0.5	-	2.35	NP	0.00	99.67	97.32
04/23/98	<50	<0.3	<0.3	<0.3	<0.5	<20	6.90	NP	0.00	99.67	92.77

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)					
07/20/98	<50	<0.3	1.1	<0.3	1.4	<5	5.45	NP	0.00	99.67	94.22
10/14/98	<50	<0.3	<0.3	<0.3	<0.5	<5	4.95	NP	0.00	99.67	94.72
01/21/99	<50	0.35	0.62	<0.3	<0.5	<5	3.90	NP	0.00	99.67	95.77
04/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	2.35	NP	0.00	99.67	97.32
07/26/99	1,000	<0.3	<0.3	<0.3	<0.5	*2,300 / 3,900	3.93	NP	0.00	99.67	95.74
10/13/99	<50	<0.3	<0.3	<0.3	<0.5	<5	6.15	NP	0.00	99.67	93.52
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	*42 / 41	5.84	NP	0.00	99.67	93.83
04/05/00	4,600	338	2.8	1.2	55.2	*282 / 230	3.89	NP	0.00	99.67	95.78
07/19/00	60	1	2	<0.3	<0.6	*87 / 76	3.07	NP	0.00	99.67	96.60
10/18/00	-	-	-	-	-	-	-	-	-	99.67	-
01/17/01	103	<0.18	2	<0.18	3	*78 / 106	3.87	NP	0.00	99.67	95.80
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.86	NP	0.00	99.67	95.81
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	5.40	NP	0.00	99.67	94.27
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.86	NP	0.00	99.67	95.81
01/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.86	NP	0.00	99.67	95.81
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.86	NP	0.00	99.67	95.81
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
MONITORING WELL #MW-7											
01/09/92	-	-	-	-	-	-	6.30	NP	0.00	99.02	92.72
04/13/92	-	-	-	-	-	-	6.68	NP	0.00	99.02	92.34
10/05/92	-	-	-	-	-	-	9.60	NP	0.00	99.02	89.42
01/06/93	-	-	-	-	-	-	13.90	NP	0.00	99.02	85.12
04/26/93	-	-	-	-	-	-	5.55	NP	0.00	99.02	93.47
01/04/94	-	-	-	-	-	-	7.58	NP	0.00	99.02	91.44
04/05/94	-	-	-	-	-	-	6.66	NP	0.00	99.02	92.36
10/09/95	27,000	2,400	140	1,700	2,700	-	-	-	-	99.02	-
01/08/96	13,000	800	42	540	860	-	6.94	NP	0.00	99.02	92.08
04/08/94	9,100	840	31	690	1,200	-	5.48	NP	0.00	99.02	93.54
07/22/96	11,000	1,700	22	660	700	840	6.60	NP	0.00	99.02	92.42
10/16/96	180	<0.3	<0.3	<0.3	<0.5	270	6.42	NP	0.00	99.02	92.60
01/22/97	130	<0.3	<0.3	<0.3	<0.5	470	5.70	NP	0.00	99.02	93.32
04/21/97	10,000	1,400	27	820	490	1,100	5.30	NP	0.00	99.02	93.72
07/14/97	8,200	660	15	230	270	560	7.90	NP	0.00	99.02	91.12

**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)					
10/07/97	-	-	-	-	-	-	14.20	NP	0.00	-	-
01/15/98	-	-	-	-	-	-	15.60	NP	0.00	-	-
04/23/98	81,000	0.72	1.4	3.2	5.7	270,000	14.20	NP	0.00	-	-
07/20/98	-	-	-	-	-	-	14.30	NP	0.00	-	-
10/14/98	-	-	-	-	-	-	11.20	NP	0.00	-	-
01/21/99	-	-	-	-	-	-	-	-	-	-	-
04/15/99	-	-	-	-	-	-	13.10	NP	0.00	-	-
07/26/99	4,400	<3	<3	<3	<5	*6,800 / 9,000	13.83	NP	0.00	-	-
10/13/99	-	-	-	-	-	-	-	-	-	-	-
01/20/00	-	-	-	-	-	-	13.22	NP	0.00	-	-
04/05/00	-	-	-	-	-	-	-	-	-	-	-
07/19/00	-	-	-	-	-	-	13.25	NP	0.00	-	-
10/18/00	-	-	-	-	-	-	11.14	NP	0.00	-	-
01/17/01	-	-	-	-	-	-	11.12	NP	0.00	-	-
04/19/01	-	-	-	-	-	-	-	-	-	-	-
07/18/01	-	-	-	-	-	-	11.20	NP	0.00	-	-
10/10/01	-	-	-	-	-	-	11.20	NP	0.00	-	-
01/30/02	-	-	-	-	-	-	12.30	NP	0.00	-	-
04/17/02	-	-	-	-	-	-	14.30	NP	0.00	-	-
07/31/02	-	-	-	-	-	-	14.21	NP	0.00	-	-
11/14/02	-	-	-	-	-	-	14.13	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

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

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	Total H-C Removed (lbs)	EFFLUENT (ug/L)						INFLUENT (ug/L)					
					TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE
4/8/91	1,310	0	-	0.000	-	<0.3	<0.3	<0.3	<0.9	-	-	910	2000	160	2000	-
4/15/91	1,434	124	18	0.049	-	<0.3	<0.3	<0.3	<0.3	-	-	2800	4600	310	5000	-
4/22/91	1,510	200	11	0.078	-	<15	<15	<15	<45	-	-	3100	3300	<15	2800	-
4/29/91	1,660	350	21	0.137	-	<0.3	<0.3	<0.3	<0.9	-	-	3600	4500	300	5000	-
5/6/91	1,740	430	11	0.168	-	<0.3	<0.3	<0.3	<0.9	-	-	3600	3500	300	3800	-
5/13/91	1,880	570	20	0.223	-	<0.3	<0.3	<0.3	<0.9	-	-	3300	3200	230	3900	-
5/20/91	2,010	700	19	0.274	-	<0.3	<0.3	<0.3	<0.9	-	-	3300	3400	260	5100	-
5/28/91	2,050	740	5	0.290	-	<0.3	<0.3	<0.3	<0.9	-	-	2900	3000	230	4200	-
6/3/91	2,110	800	10	0.313	-	<0.3	<0.3	<0.3	<0.9	-	-	2500	2100	110	2800	-
6/10/91	2,160	850	7	0.333	-	<0.3	<0.3	<0.3	<0.9	-	-	1800	1700	120	2100	-
6/17/91	2,219	909	8	0.356	-	<0.3	<0.3	<0.3	<0.9	-	-	2100	1900	170	2700	-
6/24/91	2,263	953	6	0.373	-	<0.3	<0.3	<0.3	<0.9	-	-	2100	1800	150	2700	-
07/01/91	2,313	1,003	7	0.393	-	<0.5	<0.5	<1	<1	-	-	2,700	2,000	150	2,900	-
07/08/91	2,700	1,390	55	0.544	-	<0.5	<0.5	<1	<1	-	-	4,000	2,500	130	4,400	-
07/15/91	2,872	1,562	25	0.611	-	<0.5	<0.5	<1	<1	-	-	3,100	1,900	140	3,200	-
07/22/91	3,144	1,834	39	0.718	-	<0.5	<0.5	<1	<1	-	-	3,400	2,100	110	2,800	-
07/29/91	3,220	1,910	11	0.748	-	<0.5	<0.5	<1	<1	-	-	5,100	2,200	180	2,700	-
08/05/91	3,348	2,038	18	0.798	-	<0.5	<0.5	<1	<1	-	-	5,100	3,900	400	4,200	-
08/12/91	3,472	2,162	18	0.846	-	<0.5	<0.5	<1	<1	-	-	11,000	6,200	440	8,400	-
08/19/91	3,548	2,238	11	0.876	-	<0.5	<0.5	<1	<1	-	-	4,500	2,400	130	2,600	-
08/26/91	3,655	2,345	15	0.918	-	<0.5	<0.5	<1	<1	-	-	4,400	2,500	260	3,600	-
09/09/91	3,822	2,512	12	0.983	-	<0.5	<0.5	<1	<1	-	-	5,200	3,000	390	3,700	-
09/16/91	3,884	2,574	9	1.007	-	<0.5	<0.5	<1	<1	-	-	4,100	2,000	460	4,900	-
09/23/91	4,013	2,703	18	1.058	-	<0.5	<0.5	<1	<1	-	-	4,600	1,600	710	6,400	-
09/30/91	4,092	2,782	11	1.089	-	<0.5	<0.5	<1	<1	-	-	5,700	2,000	380	6,200	-
10/07/91	4,131	2,821	6	1.104	System shut down						-	-	-	-	-	-
10/14/91	4,195	2,885	9	1.129	-	<0.5	<0.5	<1	<1	-	-	4,400	2,000	370	8,100	-
10/21/91	4,406	3,096	30	1.212	-	<0.5	<0.5	<1	<1	-	-	2,300	1,100	190	4,200	-
10/28/91	4,474	3,164	10	1.238	-	<0.5	<0.5	<1	<1	-	-	6,400	4,100	620	6,100	-
11/03/91	4,613	3,303	23	1.293	-	<0.5	<0.5	<1	<1	-	-	6,100	2,800	200	5,600	-
11/11/91	4,700	3,390	11	1.327	-	<0.5	<0.5	<1	<1	-	-	6,500	2,300	<30	4,900	-
11/18/91	4,887	3,577	27	1.400	-	<0.5	<0.5	<1	<1	-	-	5,600	2,500	300	4,600	-
11/25/91	5,042	3,732	22	1.461	-	<0.5	<0.5	<1	<1	-	-	5,400	2,800	230	5,700	-
12/03/91	5,263	3,953	28	1.547	-	<0.5	<0.5	<1	<1	-	-	7,200	3,300	490	5,500	-
12/09/91	5,362	4,052	17	1.586	-	<0.5	<0.5	<1	<1	-	-	4,400	1,700	140	3,900	-
12/16/91	5,486	4,176	18	1.635	-	<0.5	<0.5	<0.5	<0.5	-	-	4,700	2,300	310	4,600	-
12/23/91	5,516	4,206	4	1.646	-	<0.5	<0.5	<0.5	<0.5	-	-	4,000	2,200	290	5,900	-
12/30/91	5,575	4,265	8	1.669	-	<0.5	<0.5	<0.5	<0.5	-	-	5,200	2,500	350	5,800	-
01/15/92	5,720	4,410	9	1.726	-	<0.5	<0.5	<0.5	<0.5	-	-	3,400	1,900	300	6,300	-
02/10/92	6,264	4,954	21	1.939	-	<0.5	<0.5	<0.5	<0.5	-	-	5,800	2,800	320	7,200	-
03/09/92	8,520	7,210	81	2.822	<200	<0.5	1.6	<0.5	<0.5	-	47,000	7,100	4,800	630	10,300	-

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

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	Total H-C Removed (lbs)	EFFLUENT (ug/L)						INFLUENT (ug/L)					
					TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE
04/13/92	22,888	21,578	411	7.369	<200	<0.5	<0.5	<0.5	<0.5	-	29,000	4,500	2,200	160	4,800	-
05/11/92	24,920	23,610	73	7.800	<200	<0.5	<0.5	<0.5	<0.5	-	22,000	4,300	1,500	130	3,800	-
06/01/92	28,330	27,020	162	8.368	<200	<0.5	<0.5	<0.5	<0.5	-	18,000	3,400	1,500	660	4,200	-
07/13/92	72,675	27,020	-	8.368	-	<0.5	<0.5	<0.5	<0.5	-	-	1,800	750	150	5,600	-
07/13/92	72,675	27,020	-	8.368	The system pumped air and flowmeter jumped from 30,000 gallons to 70,000 gallons.											
08/17/92	75,046	29,391	68	8.724	-	<0.5	<0.5	<0.5	<0.5	-	-	1,100	350	200	1,100	-
09/14/92	75,582	29,927	19	8.804	-	<0.5	<0.5	<0.5	<1	-	-	2,100	520	<25	3,500	-
10/05/92	75,680	30,025	5	8.819	<200	<0.5	<0.5	<0.5	<1	-	19,000	1,700	270	<25	4,000	-
11/09/92	77,280	31,625	46	9.072	-	<0.5	<0.5	<0.5	<0.5	-	-	4,000	1,400	120	5,900	-
12/14/92	79,420	33,765	61	9.411	-	<0.5	<0.5	<0.5	<1	-	-	7,300	4,900	1,800	16,000	-
01/04/93	84,720	39,065	252	10.250	-	<0.5	<0.5	<0.5	<1	-	-	5,400	2,100	450	7,800	-
02/15/93	102,689	57,034	428	14.739	<200	<0.5	<0.5	<0.5	<1	-	41,000	6,600	3,200	260	9,600	-
02/22/93	146,430	57,034	-	14.739	The system pumped air and flowmeter jumped from 102,689 gallons to 146,430 gallons.											
03/08/93	147,500	58,104	76	15.104	-	<0.5	<0.5	<0.5	<1	-	-	7,400	3,400	56	11,000	-
04/26/93	151,200	61,804	76	16.291	<100	<0.5	<0.5	<0.5	<1	-	38,000	4,300	2,200	420	8,300	-
04/26/93	151,200	61,804	-	16.291	Shut down system for repair											
07/21/93	151,240	61,844	0	16.303	Restart the system											
08/11/93	151,650	62,254	20	16.426	-	<0.5	<0.5	<0.5	<1	-	-	6,500	2,300	390	6,200	-
09/16/93	154,005	64,609	65	17.200	<60	<0.3	<0.3	<0.3	<0.6	-	43,000	2,300	320	<4.4	2,900	-
10/04/93	154,896	65,500	50	17.482	<60	<0.3	<0.3	<0.3	<0.6	-	33,000	2,900	470	6.9	3,500	-
11/05/93	157,431	68,035	79	17.989	<50	<0.3	<0.3	<0.3	<0.5	-	15,000	1,100	27	<0.3	920	-
12/03/93	159,324	69,928	68	18.233	<50	<0.3	<0.3	<0.3	<0.5	-	16,000	1,100	88	<6.6	2,300	-
01/06/94	166,440	77,044	209	19.181	-	<0.3	<0.3	<0.3	<0.5	-	-	3,800	730	<13	1,200	-
02/03/94	170,720	81,324	153	19.752	-	<0.3	<0.3	<0.3	<0.5	-	-	3,600	610	<4.4	4,800	-
03/03/94	178,168	88,772	266	20.744	-	<0.3	<0.3	<0.3	<0.5	-	-	2,800	2,000	270	3,400	-
04/07/94	185,670	96,274	214	22.056	<50	<0.3	<0.3	<0.3	<0.5	-	26,000	2,200	550	<6.6	1,900	-
05/12/94	188,840	99,444	91	22.460	<50	<0.3	<0.3	<0.3	<0.5	-	4,600	100	10	8.4	280	-
06/16/94	194,680	105,284	167	22.684	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
07/11/94	199,135	109,739	178	22.832	<50	<0.3	<0.3	<0.3	<0.5	-	4,000	220	<2.6	<2.6	320	-
08/04/94	200,910	111,514	74	22.919	<50	<0.3	<0.3	<0.3	<0.5	-	7,800	480	6.2	<0.3	630	-
09/15/94	203,450	114,054	60	23.036	<50	<0.3	<0.3	<0.3	<0.5	-	3,200	150	2.4	2.6	170	-
10/10/94	205,210	115,814	70	23.069	<50	<0.3	<0.3	<0.5	<0.5	-	1,300	8.6	1.5	1.1	15	-
11/07/94	206,060	116,664	30	23.074	<50	<0.3	<0.3	<0.5	<0.5	-	170	1.5	<0.3	<0.5	0.5	-
12/05/94	207,093	117,697	37	23.075	<50	<0.3	<0.3	<0.5	<0.5	-	75	1.3	<0.3	<0.5	<0.5	-
01/09/95	207,293	117,897	6	23.075	<50	<0.3	<0.3	<0.5	<0.5	-	<50	<0.3	<0.3	<0.5	<0.5	-
02/01/95	207,650	118,254	16	23.075	<50	<0.3	<0.3	<0.5	<0.5	-	<50	<0.3	<0.3	<0.5	<0.5	-
02/06/95	207,810	118,414	32	23.075	<50	<0.3	<0.3	<0.5	<0.5	-	<50	2.7	<0.3	<0.5	<0.5	-
03/10/95	208,430	119,034	19	23.076	<100	<0.5	<0.5	<0.5	<1	-	<100	<0.5	<0.5	<0.5	<1	-
04/10/95	208,564	119,168	4	23.079	<100	<0.5	<0.5	<0.5	<1	-	3,300	180	7.6	2.1	150	-
05/08/95	208,608	119,212	2	23.082	<100	<0.5	<0.5	<0.5	<1	-	11,000	640	9.2	<5	1,100	-
06/05/95	208,926	119,530	11	23.103	<100	<0.5	<0.5	<0.5	<1	-	5,100	270	2.2	<0.5	49	-

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

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	Total H-C Removed (lbs)	EFFLUENT (ug/L)						INFLUENT (ug/L)						
					TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE	
07/10/95	214,182	124,786	150	23 500	<100	<0.5	<0.5	<0.5	<1	-	13,000	1,600	120	24	1,300	-	
08/07/95	221,876	132,480	275	24,332	Shut down system for repair						-	-	-	-	-	-	-
08/28/95	221,997	132,601	6	24 346	Restart the system						-	-	-	-	-	-	-
09/06/95	222,003	132,607	1	24.346	<100	<0.5	<0.5	<0.5	<1	-	2,300	<0.5	<0.5	<0.5	<1	-	
10/09/95	222,343	132,947	10	24.352	<100	<0.5	<0.5	<0.5	<1	-	2,000	5.6	0.77	0.66	3.8	-	
11/06/95	222,704	133,308	13	24.360	<50	0.3	0.31	<0.3	0.68	-	3,000	27	1.7	3.7	48	-	
12/11/95	223,792	134,396	31	24 387	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	0.96	-	
01/08/96	224,661	135,265	31	24 400	970	<0.3	<0.3	<0.3	0.67	-	1,800	39	<0.3	<0.3	<0.5	-	
02/12/96	227,812	138,416	90	24 467	<50	10	0.37	<0.3	0.53	-	3,300	190	<7.5	<7.5	20	-	
03/12/96	229,301	139,905	51	24 504	<50	<0.3	<0.3	<0.3	<0.5	-	2,700	250	2.3	<1.5	<2.5	-	
04/08/96	242,320	152,924	482	24 704	<50	<0.3	<0.3	<0.3	<0.5	-	1,000	90	5	<0.3	67	-	
05/06/96	247,840	158,444	197	25 072	100	<0.3	<0.3	<0.3	<0.5	-	15,000	2,200	600	32	2,400	-	
06/03/96	248,423	159,027	21	25 145	Shut down system for carbon change						-	-	-	-	-	-	
08/08/96	248,423	159,027	-	25 145	Start-up system						-	-	-	-	-	-	
08/20/96	248,630	159,234	17	25 149	<50	<0.3	<0.3	<0.3	<0.5	-	2,100	24	<0.3	<0.3	49	-	
09/23/96	259,030	169,634	306	25 417	<50	<0.3	<0.3	<0.3	<0.5	-	4,100	260	<3	<3	34	-	
10/16/96	263,610	174,214	199	25 547	<50	<0.3	<0.3	<0.3	<0.5	-	2,700	220	3.8	<0.6	44	-	
11/19/96	263,986	174,590	11	25 553	<50	<0.3	<0.3	<0.3	<0.5	-	1,200	<0.3	<0.3	<0.3	<0.5	-	
12/16/96	264,210	174,814	8	25 581	<50	<0.3	<0.3	<0.3	1.5	-	29,000	410	2,300	120	1,100	-	
01/22/97	266,220	176,824	54	26 393	<50	<0.3	<0.3	<0.3	<0.5	-	68,000	<0.3	<0.3	<0.3	<0.5	-	
02/24/97	267,030	177,634	25	26 794	<50	<0.3	<0.3	<0.3	<0.5	-	51,000	3,500	3,200	390	2,200	-	
03/17/97	267,230	177,834	10	26.911	<50	<0.3	<0.3	<0.3	<0.5	-	89,000	<6	11	<6	14	-	
04/21/97	267,415	178,019	5	27 026	<50	<0.3	<0.3	<0.3	<0.5	-	61,000	730	18	130	360	-	
05/22/97	276,535	187,139	294	29.375	<50	<0.3	<0.3	<0.3	<0.5	-	850	1.3	<0.3	0.4	4.6	-	
06/23/97	281,214	191,818	146	29.408	-	-	-	-	-	-	-	-	-	-	-	-	
07/14/97	284,210	194,814	143	29.501	<50	<0.3	<0.3	<0.3	<0.5	-	6,600	<0.3	0.59	<0.3	9	-	
08/18/97	298,610	209,214	411	30.293	-	-	-	-	-	-	-	-	-	-	-	-	
09/15/97	301,043	211,647	87	30 427	-	-	-	-	-	-	-	-	-	-	-	-	
10/07/97	333,480	244,084	1,474	44 014	<50	<0.3	<0.3	<0.3	<0.5	-	94,000	<0.3	<0.3	<0.3	<0.5	-	
11/17/97	334,286	244,890	20	44 645	-	-	-	-	-	-	-	-	-	-	-	-	
12/08/97	334,382	244,986	5	44 720	-	-	-	-	-	-	-	-	-	-	-	-	
12/12/97	334,382	244,986	-	44 720	Shut down system due to stolen equipment						-	-	-	-	-	-	
04/08/98	334,382	244,986	-	44 720	<50	<0.3	<0.3	<0.3	<0.5	<20	3,100	12	1	<0.3	490	2,600	
05/11/98	334,382	244,986	-	44 720	-	-	-	-	-	-	-	-	-	-	-	-	
06/22/98	334,382	244,986	-	44 720	-	-	-	-	-	-	-	-	-	-	-	-	
07/20/98	334,382	244,986	-	44.720	<50	<0.3	<0.3	<0.3	<0.5	-	52,000	8	0.52	0.83	1.5	-	
08/03/98	346,521	257,125	867	49.977	Shut down system for carbon canisters replacement						-	-	-	-	-	-	
09/17/98	354,985	265,589	188	53 642	-	-	-	-	-	-	-	-	-	-	-	-	
10/14/98	358,015	268,619	112	54 338	<50	<0.3	<0.3	<0.3	1.6	-	3,100	45	13	3.5	350	-	
11/05/98	359,600	270,204	72	54 378	System shut down due to vandalism and stolen equipment						-	-	-	-	-	-	
11/20/98	359,600	270,204	-	54 378	Restart						-	-	-	-	-	-	

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

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	Total H-C Removed (lbs)	EFFLUENT (ug/L)						INFLUENT (ug/L)					
					TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE
12/11/98	369,452	280,056	469	54.633	-	-	-	-	-	-	-	-	-	-	-	
12/24/98	-	280,056	-	54.633	No reading, meter broken						-	-	-	-	-	-
01/15/99	0	280,056	-	54.633	Replaced Flowmeter started at 0						-	-	-	-	-	-
01/21/99	985.5	281,042	184	54.636	57	<0.3	<0.3	<0.3	0.76	-	380	6.2	1	<0.3	9.1	
02/12/99	1,971.0	282,027	45	54.639	-	-	-	-	-	-	-	-	-	-	-	
03/12/99	4,390.0	284,446	86	54.647	-	-	-	-	-	-	-	-	-	-	-	
04/15/99	8,595.0	288,651	124	54.661	<50	<0.3	<0.3	<0.3	<0.5	<5	410	1.6	0.78	<0.3	5	
05/04/99	9,410.0	289,466	43	54.663	-	-	-	-	-	-	-	-	-	-	-	
05/18/99	9,410.0	289,466	-	54.663	Shut down system for pump controller repair by manufacturer						-	-	-	-	-	-
09/20/99	9,411.0	289,467	0	54.663	Restart the system						-	-	-	-	-	-
09/24/99	9,412.4	289,468	0	54.663	-	-	-	-	-	-	-	-	-	-	-	
10/13/99	9,509.8	289,566	5	54.666	<50	<0.3	<0.3	<0.3	<0.5	<5	6,000	<0.3	<0.3	<0.3	<0.5	
11/12/99	9,701.9	289,758	6	54.676	-	-	-	-	-	-	-	-	-	-	-	
12/17/99	9,893.7	289,950	5	54.685	-	-	-	-	-	-	-	-	-	-	-	
01/20/00	10,052.1	290,108	5	54.693	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	
02/17/00	10,156.6	290,213	4	54.698	-	-	-	-	-	-	-	-	-	-	-	
03/13/00	10,354.7	290,411	8	54.708	-	-	-	-	-	-	-	-	-	-	-	
04/05/00	10,545.7	290,602	8	54.897	72.7	1.8	4.1	0.7	6.7	-	119,000	2,360	6,440	6,240	25,200	
05/19/00	11,071.7	291,128	12	55.419	Shut down system for carbon drum replacement						-	-	-	-	-	-
06/05/00	11,075.4	291,131	0	55.419	Restart the system						-	-	-	-	-	-
06/14/00	11,131.6	291,188	6	55.474	<50	<0.3	<0.3	<0.3	<0.6	<5	<1,000	<6	<6	<6	14	
07/06/00	11,362.0	291,418	10	55.703	Shut down system for carbon replacement						-	-	-	-	-	-
07/17/00	0.0	291,418	-	55.703	Restart the system after carbon change, repipe and flowmeter change (starting at 0.0)						-	-	-	-	-	-
07/24/00	411.0	291,829	59	55.907	<50	<0.3	<0.3	<0.3	<0.6	<5	205	<0.3	1	<0.3	<0.6	
08/21/00	8,193.0	299,611	278	55.920	-	-	-	-	-	-	-	-	-	-	-	
09/18/00	27,251.0	318,669	681	55.953	-	-	-	-	-	-	-	-	-	-	-	
10/18/00	54,280.0	345,698	901	96.155	<50	<0.18	<0.14	<0.18	<0.26	<0.24	357,000	2,380	2,960	1,290	6,850	
10/30/00	64,610.0	356,028	861	126.867	-	-	-	-	-	-	-	-	-	-	-	
11/27/00	79,870.0	371,288	545	172.235	-	-	-	-	-	-	-	-	-	-	-	
12/22/00	99,240.0	390,658	775	229.823	-	-	-	-	-	-	-	-	-	-	-	
01/17/01	101,250.0	392,688	77	233.018	<50	<0.18	<0.14	<0.18	<0.26	<0.24	24,700	783	373	2	3,480	
02/23/01	144,120.0	435,538	1,159	241.836	-	-	-	-	-	-	-	-	-	-	-	
03/30/01	195,400.0	486,818	1,465	252.385	-	-	-	-	-	-	-	-	-	-	-	
04/06/01	199,090.0	490,508	527	253.144	System shut down for carbon replacement, Replaced on 4/11/01, restart on 4/13/01						-	-	-	-	-	
04/20/01	207,050.0	498,468	569	255.172	88	<0.18	<0.14	<0.18	<0.26	93	36,500	855	716	659	1,570	
04/27/01	210,640.0	502,058	513	256.263	System shut down for repair/replacement of compressor's pressure switch and exhaust valve						-	-	-	-	-	-
04/30/01	210,640.0	502,058	-	256.263	320	<0.18	<0.14	<0.18	<0.26	*337 / 60	7,620	268	22	10	124	
05/11/01	210,640.0	502,058	-	256.263	Replaced pressure switch on 5/7/01, system still off for carbon replacement.						-	-	-	-	-	-
05/21/01	210,640.0	502,058	-	256.263	Restart the system						-	-	-	-	-	-
05/30/01	226,830.0	518,248	1,799	263.289	<50	<0.18	<0.14	<0.18	<0.26	<0.24	96,600	4,980	1,660	2,770	11,300	
06/29/01	267,230.0	558,648	1,347	295.790	-	-	-	-	-	-	-	-	-	-	-	

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

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	Total H-C Removed (lbs)	EFFLUENT (ug/L)						INFLUENT (ug/L)					
					TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE
07/11/01	310,010.0	601,428	3,565	341.855	<50	<0.18	<0.14	<0.18	<0.26	<0.24	162,000	<0.18	4,140	4,760	24,000	<0.24
08/17/01	441,270.0	732,688	3,548	518.940	-	-	-	-	-	-	-	-	-	-	-	-
09/28/01	498,310.0	789,728	1,358	595.894	-	-	-	-	-	-	-	-	-	-	-	-
10/03/01	503,930.0	795,348	1,124	600.424	<50	<0.18	<0.14	<0.18	<0.26	<0.24	31,600	<1.8	150	294	5,280	<2.4
11/12/01	664,700.0	956,118	4,019	642.733	-	-	-	-	-	-	-	-	-	-	-	-
12/28/01	706,300.0	997,718	904	653.680	-	-	-	-	-	-	-	-	-	-	-	-
01/11/02	721,050.0	1,012,468	1,054	657.562	System shut down for carbon replacement											
01/21/02	721,050.0	1,012,468	-	657.562	Restart the system											
02/01/02	731,320.0	1,022,738	934	658.963	<100	<0.3	<0.3	<0.3	<0.6	<5	1,172	1	1	1	6	<5
02/22/02	751,340.0	1,042,758	953	659.159	-	-	-	-	-	-	-	-	-	-	-	-
03/27/02	813,240.0	1,104,658	1,876	659.763	-	-	-	-	-	-	-	-	-	-	-	-
04/12/02	835,170.0	1,126,588	1,371	660.975	<50	<0.18	<0.14	<0.18	<0.26	<0.24	12,100	5	1	<0.18	<0.26	18,400
04/26/02	918,670.0	1,210,088	5,964	669.389	System shut down											
05/10/02	918,680.0	1,210,098	1	669.390	Restart											
05/17/02	928,670.0	1,220,088	1,427	670.397	-	-	-	-	-	-	-	-	-	-	-	-
06/03/02	-	-	-	-	-	<0.5	<0.7	<0.8	<3.3	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
06/03/02	-	-	-	-	<50	<0.18	<0.14	<0.18	<0.26	<0.24	Split-sample results (sample collected by us)					
06/07/02	971,240.0	1,262,658	2,027	674.686	-	-	-	-	-	-	-	-	-	-	-	-
06/28/02	1,012,150.0	1,303,568	1,948	678.809	-	-	-	-	-	-	-	-	-	-	-	-
07/15/02	1,045,670.0	1,337,088	1,972	681.977	<50	<0.18	<0.14	<0.18	<0.26	3.3 J	10,600	<0.18	<0.14	<0.18	<0.26	10,000
07/31/02	1,052,380.0	1,343,798	419	682.569	System shut down for carbon replacement											
08/16/02	1,052,390.0	1,343,808	1	682.569	Restart											
08/30/02	1,057,310.0	1,348,728	351	683.004	-	-	-	-	-	-	-	-	-	-	-	-
09/20/02	-	-	-	-	Sample results from EBMUD nor received yet						Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
09/20/02	1,061,730.0	1,353,148	210	683.394	<50	<0.1	<0.15	<0.06	-	-	Split-sample results (sample collected by us, analysis by EPA 624 & 8015M)					
09/27/02	1,064,020.0	1,355,438	327	683.596	-	-	-	-	-	-	-	-	-	-	-	-
10/04/02	1,069,130.0	1,360,548	730	683.787	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4,500 J	<0.18	<0.14	<0.18	<0.26	2,570
10/25/02	1,082,500.0	1,373,918	637	684.289	-	-	-	-	-	-	-	-	-	-	-	-
11/29/02	1,108,680.0	1,400,098	748	685.270	-	-	-	-	-	-	-	-	-	-	-	-
12/27/02	1,123,890.0	1,415,308	543	685.840	-	-	-	-	-	-	-	-	-	-	-	-

WD PERMIT LIMITS:	NE	5.0	5.0	5.0	5.0	NE
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Note: < = less than laboratory detection level indicated
 - = no sample / not analyzed
 NE = Permit Limit not established

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

In February 2000, the total cumulative discharge amount was corrected to reflect all system maintenance and flowmeter changeouts since the startup of the system. The total number may be different from previous versions of this table.
 Total Hydrocarbons Removed = From 4/8/91 to 2/10/92, the influent TPHg is assumed to be 47,000 (3/9/92)

TABLE 3
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)	
MONITORING WELL # MW-1					
11/14/02	<0.2	<0.12	<0.16	<10	<0.13
MONITORING WELL # MW-2					
11/14/02	<2.0	<1.2	111	341	<1.3
MONITORING WELL # MW-3					
11/14/02	<0.2	<0.12	<0.16	<10	<0.13
MONITORING WELL # MW-4					
11/14/02	<2.0	<1.2	106	281	<1.3
MONITORING WELL # MW-5					
11/14/02	<0.2	<0.12	<0.16	<10	<0.13
MONITORING WELL # MW-6					
11/14/02	<0.2	<0.12	<0.16	<10	<0.13
MONITORING WELL # MW-7					
11/14/02	<0.2	<0.12	<0.16	<10	<0.13

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

APPENDIX A



PROJECT STATUS REPORT

SITE: THRIFTY OIL CO. #049
 ADDR: 3400 SAN PABLO AVENUE
OAKLAND, CA.

DATE: 11.14.02

PERSON: SERBOM,

OBSERVATION WELLS

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	DIA (IN)	PURGE (GAL)	ODORS			FP		COMMENT
							Y	N	S	Y	N	
M O N T H L Y												
MW-1	6.13		17.75		2 ^y	8						
MW-2	5.40		23.78		2 ^y	11						
MW-3	5.73		24.16		2 ^y	12						
MW-4	5.27		13.60		4 ^y	21						
MW-5	6.11		13.76		2 ^y	5						
MW-6	5.42		13.06		2 ^y	5						
MW-7	5.92		13.56		4 ^y	20						
RW-1	14.13		24.43		6 ^u	—						
FREE PRODUCT REMOVED: APPROX <u> — </u> GALLONS							WATER REMOVED: APPROX <u> — </u> GALLONS					

REMARKS: FOR MW-2 I ESTIMATE MEASUREMENT BECAUSE
THE PIPE FROM WELL MUST BE REPLACED. SOMEBODY BROKE
THE TOP OF THE PIPE —

EXPLANATION:

DTP= DEPTH TO PRODUCT FROM TOP OF CASING, DTW= DEPTH TO WATER FROM TOP OF CASING
 DTB= DEPTH TO BOTTOM FROM TOP OF CASING, PT= PRODUCT THICKNESS, S= SLIGHT

PAGE — OF —

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	049	Date:	10-23-02
Address:			
Personnel:	SERBA	Weather:	SUNNY DAY
Well No:	MW-2	Equip:	BAYLER

Before Purging:			
Total Well Depth: (ft.)	23.78	Well Diameter	2.4
Depth to Water (ft)	6.97	Est. Purge Volume:	11

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	10:44	10:46	10:47	10:49	10:50	10:52	10:55
EC	870	890	880	910	930	920	950
pH	6.30	6.28	6.28	6.22	6.20	6.20	6.22
Temp	21.4	21.3	21.5	21.6	21.6	21.8	21.9
Gal.	1	3	4	6	7	9	11
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	7.30	Total Well Depth(ft.)	23.78

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	049	Date:	10.23.02
Address:			
Personnel:	SERBAY	Weather:	SUNNY DAY
Well No:	MW-4	Equip:	BAILER

Before Purging:			
Total Well Depth: (ft.)	13.68	Well Diameter	4.4
Depth to Water (ft)	6.03	Est. Purge Volume:	20

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	9:52	9:55	9:58	10:31	10:34	10:37	10:40
EC	920	910	940	970	990	910	920
pH	6.20	6.14	6.11	6.09	6.07	6.06	6.09
Temp	21.3	21.4	21.3	21.5	21.2	21.8	21.7
Gal.	2	5	8	11	14	17	20
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	6.03
Total Well Depth(ft).	13.68

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site: <u>049</u>	Date: <u>10.23.02</u>
Address: _____	
Personnel: <u>SERBAN</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>MW-7</u>	Equip: <u>BAUER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>13.58</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>6.31</u>	Est. Purge Volume:	<u>19</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>9:52</u>	<u>9:55</u>	<u>9:58</u>	<u>10:01</u>	<u>10:04</u>	<u>10:07</u>	<u>10:10</u>
EC	<u>930</u>	<u>990</u>	<u>970</u>	<u>950</u>	<u>970</u>	<u>830</u>	<u>840</u>
pH	<u>6.13</u>	<u>6.09</u>	<u>6.06</u>	<u>6.06</u>	<u>6.03</u>	<u>6.01</u>	<u>6.03</u>
Temp	<u>21.4</u>	<u>21.3</u>	<u>21.1</u>	<u>21.1</u>	<u>21.3</u>	<u>21.3</u>	<u>21.4</u>
Gal.	<u>2</u>	<u>5</u>	<u>8</u>	<u>10</u>	<u>13</u>	<u>16</u>	<u>19</u>
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	<u>8.07</u>	Total Well Depth(ft.)	<u>13.58</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>069</u>	Date: <u>10.23.02</u>
Address: _____	
Personnel: <u>SERBINA</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>MW-6</u>	Equip: <u>BUTLER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>13.06</u>	Well Diameter	<u>2"</u>
Depth to Water (ft)	<u>5.40</u>	Est. Purge Volume:	<u>5</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>9:24</u>	<u>9:30</u>	<u>9:31</u>	<u>9:32</u>	<u>9:33</u>	<u>9:34</u>	<u>9:35</u>
EC	<u>970</u>	<u>930</u>	<u>910</u>	<u>920</u>	<u>940</u>	<u>930</u>	<u>940</u>
pH	<u>6.18</u>	<u>6.14</u>	<u>6.16</u>	<u>6.11</u>	<u>6.09</u>	<u>6.06</u>	<u>6.06</u>
Temp	<u>21.3</u>	<u>21.5</u>	<u>21.6</u>	<u>21.2</u>	<u>21.6</u>	<u>21.8</u>	<u>21.7</u>
Gal.	<u>0.5</u>	<u>1</u>	<u>1.5</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	<u>2.30</u> Total Well Depth(ft.) <u>13.06</u>

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site: <u>049</u>	Date: <u>10.23.02</u>
Address: _____	
Personnel: <u>SFRZM</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>MW-3</u>	Equip: <u>PORTER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>24.16</u>	Well Diameter	<u>2"</u>
Depth to Water (ft)	<u>7.29</u>	Est. Purge Volume:	<u>11</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>9:15</u>	<u>9:17</u>	<u>9:18</u>	<u>9:20</u>	<u>9:21</u>	<u>9:23</u>	<u>9:25</u>
EC	<u>1200</u>	<u>1220</u>	<u>1220</u>	<u>1230</u>	<u>1230</u>	<u>1210</u>	<u>1210</u>
pH	<u>6.21</u>	<u>6.18</u>	<u>6.11</u>	<u>6.09</u>	<u>6.11</u>	<u>6.06</u>	<u>6.09</u>
Temp	<u>21.4</u>	<u>21.5</u>	<u>21.2</u>	<u>21.6</u>	<u>21.7</u>	<u>21.8</u>	<u>21.2</u>
Gal.	<u>1</u>	<u>3</u>	<u>4</u>	<u>6</u>	<u>7</u>	<u>9</u>	<u>11</u>
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	<u>10.50</u>	Total Well Depth(ft).	<u>24.16</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>049</u>	Date: <u>10.23.02</u>
Address: _____	
Personnel: <u>SRBWA</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>MW-1</u>	Equip: <u>BAILER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>12.75</u>	Well Diameter	<u>24</u>
Depth to Water (ft)	<u>8.69</u>	Est. Purge Volume:	<u>8</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>9:03</u>	<u>9:04</u>	<u>9:05</u>	<u>9:06</u>	<u>9:07</u>	<u>9:08</u>	<u>9:10</u>
EC	<u>930</u>	<u>910</u>	<u>910</u>	<u>980</u>	<u>990</u>	<u>910</u>	<u>920</u>
pH	<u>6.20</u>	<u>6.14</u>	<u>6.11</u>	<u>6.09</u>	<u>6.06</u>	<u>6.09</u>	<u>6.06</u>
Temp	<u>21.4</u>	<u>21.3</u>	<u>21.5</u>	<u>21.6</u>	<u>21.7</u>	<u>21.8</u>	<u>21.7</u>
Gal.	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>8</u>
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	<u>8.12</u>
Total Well Depth(ft.)	<u>12.75</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

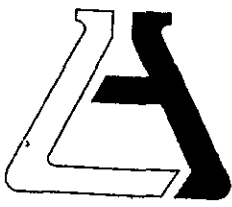
Site: <u>049</u>	Date: <u>10.23.02</u>
Address: _____	
Personnel: <u>DERBAH,</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>MW-5</u>	Equip: <u>BATLER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>13.76</u>	Well Diameter	<u>27</u>
Depth to Water (ft)	<u>6.10</u>	Est. Purge Volume:	<u>5</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>8:54</u>	<u>8:55</u>	<u>8:56</u>	<u>8:57</u>	<u>8:58</u>	<u>8:59</u>	<u>9:00</u>
EC	<u>940</u>	<u>970</u>	<u>1110</u>	<u>1120</u>	<u>1110</u>	<u>1130</u>	<u>1120</u>
pH	<u>6.18</u>	<u>6.21</u>	<u>6.18</u>	<u>6.20</u>	<u>6.11</u>	<u>6.09</u>	<u>6.11</u>
Temp	<u>21.3</u>	<u>21.1</u>	<u>20.9</u>	<u>20.9</u>	<u>20.2</u>	<u>20.6</u>	<u>20.6</u>
Gal.	<u>0.5</u>	<u>1</u>	<u>1.5</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	<u>8.05</u>	Total Well Depth(ft.)	<u>13.76</u>

APPENDIX B



ASSOCIATED LABORATORIES

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

FAX 714/538-1209

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

(8871)

LAB REQUEST 102458

REPORTED 11/27/2002

RECEIVED 11/19/2002

PROJECT Station #049

SUBMITTER Client

COMMENTS Global ID: T0600101365

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.

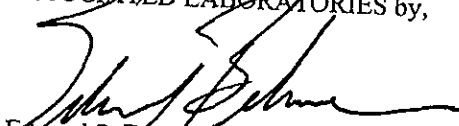
Client Sample Identification

393097
393098
393099
393100
393101
393102
393103
393104
393105

TOC #049, MW-5
TOC #049, MW-1
TOC #049, MW-3
TOC #049, MW-6
TOC #049, MW-7
TOC #049, MW-4
TOC #049, MW-2
TOC #049, 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 #: 393097

Client Sample ID. TOC #049, MW-5

Matrix: WATER

Date Sampled: 11/14/2002 Time Sampled: 13:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	1	5	0.13	ug/L	11/23/02 LB
Benzene	ND	1	1	0.08	ug/L	11/23/02 LB
Ethyl benzene	ND	1	5	0.17	ug/L	11/23/02 LB
Ethyl-tertbutylether (ETBE)	ND	1	1	0.12	ug/L	11/23/02 LB
Isopropyl ether (DIPE)	ND	1	1	0.20	ug/L	11/23/02 LB
Methyl-tert-butylether (MTBE)	9.0	1	1	0.07	ug/L	11/23/02 LB
Tert-amylmethylether (TAME)	ND	1	1	0.16	ug/L	11/23/02 LB
Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	11/23/02 LB
Toluene	ND	1	5	0.18	ug/L	11/23/02 LB
Xylenes, total	ND	1	5	0.4	ug/L	11/23/02 LB

Surrogates

		Units	Control Limits
1,2-Dichloroethane-d4 (sur)	105	%	70 - 130
Dibromofluoromethane (sur)	101	%	70 - 130
p-Bromofluorobenzene (sur)	106	%	70 - 130
Toluene-d8 (sur)	100	%	70 - 130

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	11/23/02 LZ
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Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	106	%	55 - 156

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



Order #: 393098
 Matrix: WATER

Client Sample ID: TOC #049, MW-1
 Date Sampled: 11/14/2002 Time Sampled: 13:05

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	1	5	0.13	ug/L	11/23/02 LB
Benzene	ND	1	1	0.08	ug/L	11/23/02 LB
Ethyl benzene	ND	1	5	0.17	ug/L	11/23/02 LB
Ethyl-tertbutylether (ETBE)	ND	1	1	0.12	ug/L	11/23/02 LB
Isopropyl ether (DIPE)	ND	1	1	0.20	ug/L	11/23/02 LB
Methyl-tert-butylether (MTBE)	16	1	1	0.07	ug/L	11/23/02 LB
Tert-amylmethylether (TAME)	ND	1	1	0.16	ug/L	11/23/02 LB
Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	11/23/02 LB
Toluene	ND	1	5	0.18	ug/L	11/23/02 LB
Xylenes, total	ND	1	5	0.4	ug/L	11/23/02 LB

Surrogates

		Units	Control Limits
1,2-Dichloroethane-d4 (sur)	104	%	70 - 130
Dibromofluoromethane (sur)	103	%	70 - 130
p-Bromofluorobenzene (sur)	103	%	70 - 130
Toluene-d8 (sur)	100	%	70 - 130

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	11/23/02 LZ
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Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	100	%	55 - 156

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



Order #: 393099

Client Sample ID: TOC #049, MW-3

Matrix: WATER

Date Sampled: 11/14/2002 Time Sampled: 13:15

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	1	5	0.13	ug/L	11/23/02 LB
Benzene	ND	1	1	0.08	ug/L	11/23/02 LB
Ethyl benzene	ND	1	5	0.17	ug/L	11/23/02 LB
Ethyl-tertbutylether (ETBE)	ND	1	1	0.12	ug/L	11/23/02 LB
Isopropyl ether (DIPE)	ND	1	1	0.20	ug/L	11/23/02 LB
Methyl-tert-butylether (MTBE)	21	1	1	0.07	ug/L	11/23/02 LB
Tert-amylmethylether (TAME)	ND	1	1	0.16	ug/L	11/23/02 LB
Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	11/23/02 LB
Toluene	ND	1	5	0.18	ug/L	11/23/02 LB
Xylenes, total	ND	1	5	0.4	ug/L	11/23/02 LB

Surrogates

				Units	Control Limits
1,2-Dichloroethane-d4 (sur)	105			%	70 - 130
Dibromofluoromethane (sur)	102			%	70 - 130
p-Bromofluorobenzene (sur)	102			%	70 - 130
Toluene-d8 (sur)	102			%	70 - 130

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	11/23/02 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	104			%	55 - 156

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



Order #: 393100

Matrix: WATER

Client Sample ID: TOC #049, MW-6

Date Sampled: 11/14/2002 Time Sampled: 13:25

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	1	5	0.13 ug/L	11/23/02 LB
Benzene	3.2	1	1	0.08 ug/L	11/23/02 LB
Ethyl benzene	5.2	1	5	0.17 ug/L	11/23/02 LB
Ethyl-tertbutylether (ETBE)	ND	1	1	0.12 ug/L	11/23/02 LB
Isopropyl ether (DIPE)	ND	1	1	0.20 ug/L	11/23/02 LB
Methyl-tert-butylether (MTBE)	111	1	1	0.07 ug/L	11/23/02 LB
Tert-amylmethylether (TAME)	ND	1	1	0.16 ug/L	11/23/02 LB
Tertiary butyl alcohol (TBA)	ND	1	10	10 ug/L	11/23/02 LB
Toluene	ND	1	5	0.18 ug/L	11/23/02 LB
Xylenes, total	ND	1	5	0.4 ug/L	11/23/02 LB

Surrogates

				Units	Control Limits
1,2-Dichloroethane-d4 (sur)	104			%	70 - 130
Dibromofluoromethane (sur)	100			%	70 - 130
p-Bromofluorobenzene (sur)	103			%	70 - 130
Toluene-d8 (sur)	100			%	70 - 130

8015M - Total Petroleum Hydrocarbons

Gasoline	140	1	50	50 ug/L	11/23/02 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	109			%	55 - 156

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



Order #: 393101

Matrix: WATER

Client Sample ID: TOC #049, MW-7

Date Sampled: 11/14/2002 Time Sampled: 13:35

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	1	5	0.13	ug/L	11/23/02 LB
Benzene	ND	1	1	0.08	ug/L	11/23/02 LB
Ethyl benzene	ND	1	5	0.17	ug/L	11/23/02 LB
Ethyl-tertbutylether (ETBE)	ND	1	1	0.12	ug/L	11/23/02 LB
Isopropyl ether (DIPE)	ND	1	1	0.20	ug/L	11/23/02 LB
Methyl-tert-butylether (MTBE)	6.8	1	1	0.07	ug/L	11/23/02 LB
Tert-amylmethylether (TAME)	ND	1	1	0.16	ug/L	11/23/02 LB
Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	11/23/02 LB
Toluene	ND	1	5	0.18	ug/L	11/23/02 LB
Xylenes, total	ND	1	5	0.4	ug/L	11/23/02 LB

Surrogates

		Units	Control Limits
1,2-Dichloroethane-d4 (sur)	106	%	70 - 130
Dibromofluoromethane (sur)	104	%	70 - 130
p-Bromofluorobenzene (sur)	104	%	70 - 130
Toluene-d8 (sur)	99	%	70 - 130

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	11/24/02 LZ
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	108				%	55 - 156

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



Order #: 393102

Client Sample ID: TOC #049, MW-4

Matrix: WATER

Date Sampled: 11/14/2002 Time Sampled: 13:45

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	10	50.0	0.13 ug/L	11/23/02 LB
Benzene	1720	10	10.0	0.08 ug/L	11/23/02 LB
Ethyl benzene	235	10	50.0	0.17 ug/L	11/23/02 LB
Ethyl-tertbutylether (ETBE)	ND	10	10.0	0.12 ug/L	11/23/02 LB
Isopropyl ether (DIPE)	ND	10	10.0	0.20 ug/L	11/23/02 LB
Methyl-tert-butylether (MTBE)	8280	10	10.0	0.07 ug/L	11/23/02 LB
Tert-amylmethylether (TAME)	106	10	10.0	0.16 ug/L	11/23/02 LB
Tertiary butyl alcohol (TBA)	281	10	100.0	10 ug/L	11/23/02 LB
Toluene	940	10	50.0	0.18 ug/L	11/23/02 LB
Xylenes, total	6190	10	50.0	0.4 ug/L	11/23/02 LB

Surrogates

				Units	Control Limits
1,2-Dichloroethane-d4 (sur)	101			%	70 - 130
Dibromofluoromethane (sur)	104			%	70 - 130
p-Bromofluorobenzene (sur)	103			%	70 - 130
Toluene-d8 (sur)	104			%	70 - 130

8015M - Total Petroleum Hydrocarbons

Gasoline	36200	20	1000	50 ug/L	11/24/02 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	126			%	55 - 156

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



Order #: 393103

Matrix: WATER

Client Sample ID: TOC #049, MW-2

Date Sampled: 11/14/2002 Time Sampled: 13:50

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	10	50.0	0.13	ug/L	11/23/02 LB
Benzene	1680	10	10.0	0.08	ug/L	11/23/02 LB
Ethyl benzene	173	10	50.0	0.17	ug/L	11/23/02 LB
Ethyl-tertbutylether (ETBE)	ND	10	10.0	0.12	ug/L	11/23/02 LB
Isopropyl ether (DIPE)	ND	10	10.0	0.20	ug/L	11/23/02 LB
Methyl-tert-butylether (MTBE)	8270	10	10.0	0.07	ug/L	11/23/02 LB
Tert-amylmethylether (TAME)	111	10	10.0	0.16	ug/L	11/23/02 LB
Tertiary butyl alcohol (TBA)	341	10	100.0	10	ug/L	11/23/02 LB
Toluene	728	10	50.0	0.18	ug/L	11/23/02 LB
Xylenes, total	5120	10	50.0	0.4	ug/L	11/23/02 LB

Surrogates

				Units	Control Limits
1,2-Dichloroethane-d4 (sur)	100			%	70 - 130
Dibromofluoromethane (sur)	101			%	70 - 130
p-Bromofluorobenzene (sur)	97			%	70 - 130
Toluene-d8 (sur)	100			%	70 - 130

8015M - Total Petroleum Hydrocarbons

Gasoline	39400	20	1000	50	ug/L	11/24/02 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	138			%	55 - 156

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



Order #: 393104

Client Sample ID: TOC #049, Trip Blank

Matrix: WATER

Date Sampled: 11/14/2002 Time Sampled: 13:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8260B BTEX/MTBE Only

Benzene	ND	1	1	0.08	ug/L	11/23/02 LB
Ethyl benzene	ND	1	5	0.17	ug/L	11/23/02 LB
Methyl-tert-butylether (MTBE)	ND	1	1	0.07	ug/L	11/23/02 LB
Toluene	ND	1	5	0.18	ug/L	11/23/02 LB
Xylenes, total	ND	1	5	0.4	ug/L	11/23/02 LB

Surrogates

		Units	Control Limits
1,2-Dichloroethane-d4 (sur)	102	%	70 - 130
Dibromofluoromethane (sur)	100	%	70 - 130
p-Bromofluorobenzene (sur)	100	%	70 - 130
Toluene-d8 (sur)	101	%	70 - 130

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	11/24/02 LZ
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Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	99	%	55 - 156

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



Order #: 393105

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8260B Volatile Organic Compounds

1,2-Dichloroethane	ND	1	5	0.13 ug/L	11/23/02 LB
Benzene	ND	1	1	0.08 ug/L	11/23/02 LB
Ethyl benzene	ND	1	5	0.17 ug/L	11/23/02 LB
Ethyl-tertbutylether (ETBE)	ND	1	1	0.12 ug/L	11/23/02 LB
Isopropyl ether (DIPE)	ND	1	1	0.20 ug/L	11/23/02 LB
Methyl-tert-butylether (MTBE)	ND	1	1	0.07 ug/L	11/23/02 LB
Tert-amylmethylether (TAME)	ND	1	1	0.16 ug/L	11/23/02 LB
Tertiary butyl alcohol (TBA)	ND	1	10	10 ug/L	11/23/02 LB
Toluene	ND	1	5	0.18 ug/L	11/23/02 LB
Xylenes, total	ND	1	5	0.4 ug/L	11/23/02 LB

Surrogates

		Units	Control Limits
1,2-Dichloroethane-d4 (sur)	106	%	70 - 130
Dibromofluoromethane (sur)	100	%	70 - 130
p-Bromofluorobenzene (sur)	106	%	70 - 130
Toluene-d8 (sur)	102	%	70 - 130

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	11/24/02 LZ
----------	----	---	----	---------	-------------

Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	106	%	55 - 156

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



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

QC Sample: LCS/LCSD - Water Samples

Analysis Date: 11/24/02

Applies to: LR 102458

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	51.03	51.26	102	103	0	22	59-172
MTBE	ND	50	55.09	55.62	110	111	1	24	62-137
Benzene	ND	50	51.33	51.25	103	103	0	24	62-137
Trichloroethene	ND	50	51.34	54.53	103	109	6	21	66-142
Toluene	ND	50	45.06	48.60	90	97	8	21	59-139
Chlorobenzene	ND	50	44.25	47.98	89	96	8	21	60-133

QC Sample: LCS # 3 10:47 AM

Analysis Date: 11/23/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	50.11	100	59-172
MTBE	ND	50	55.62	111	62-137
Benzene	ND	50	49.72	99	62-137
Trichloroethene	ND	50	51.97	104	66-142
Toluene	ND	50	46.76	94	59-139
Chlorobenzene	ND	50	46.30	93	60-133

QC Sample: LCS # 4 10:41 PM

Analysis Date: 11/23/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	50.56	101	59-172
MTBE	ND	50	54.45	109	62-137
Benzene	ND	50	50.15	100	62-137
Trichloroethene	ND	50	50.79	102	66-142
Toluene	ND	50	47.42	95	59-139
Chlorobenzene	ND	50	46.71	93	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compounds	DBFM	1,2-DCA	Tol-d8	p-BFB
LCS	103	104	96	100
LCSD	102	103	102	99
BLANK # 1	100	106	102	106
BLANK # 2	104	108	101	98
LCS # 1	104	104	100	101
LCS # 2	99	103	100	100

ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: LCS
 Matrix: WATER
 Prep. Date: 11/23/02
 Analysis Date: 11/23/02
 ID#'s in Batch: LR 102524, 102493, 102328, 102458, 102474, 102471

LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT

Reporting Units = ug/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	423	499	85	100	16

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	154
LCS	106
LCSD	179 *

AAA-TFT = a,a,a-Trifluorotoluene

* = Outside QC Limits

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 102458		Page _____ of _____								
Project Manager JEFF PYRYAKUSUMA		Fax (562) 921-7510		Analysis Requested 8260 TPH (8015) BTEX MTBE ETBE DIPE THME TBA 12-DCA				Test Instructions & Comments T0600101365						
Project Name Q W S -		Project # 044												
Site Name and Address TOC # 049														
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH (8015)	BTEX	MTBE	ETBE	DIPE	THME	TBA	12-DCA
1 MW 5		11.14.02	13:00	W.	3 VOA	HCL	X	X	X	X	X	X	X	X
2 MW 1		↑	13:05	↑	↑	↑	X	X	X	X	X	X	X	X
3 MW 3		↑	13:15	↑	↑	↑	X	X	X	X	X	X	X	X
4 MW 6		↑	13:25	↑	↑	↑	X	X	X	X	X	X	X	X
5 MW 7		↑	13:35	↑	↑	↑	X	X	X	X	X	X	X	X
6 MW 4		↑	13:45	↑	↓	↓	X	X	X	X	X	X	X	X
7 MW 2		↓	13:50	↓	↓	↓	X	X	X	X	X	X	X	X
8 TRIP BLANK		↓	13:00	↓	2 VOA	HCL	X	X	X					
9														
10														
11														
12														
13														
14														
15														

Sample Receipt - To Be Filled By Laboratory				Relinquished by Sampler: SERBAPOPPA		Relinquished by: GOLDEN STATE		Relinquished by: 3.	
Total Number of Containers	23	Property Cooled Y/N/NA		Signature:	<i>[Signature]</i>	Signature:		Signature:	
Custody Seals Y/N/NA	NA	Samples Intact Y/N/NA		Printed Name:	SERBAPOPPA	Printed Name:		Printed Name:	
Received in Good Condition Y/N	Y	Samples Accepted Y/N		Date:	11.18.02	Time:	14:30	Date:	
Turn Around Time				Received By: GOLDEN STATE		Received By: 2.		Received By: 3.	
<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Same Day <input type="checkbox"/> 48 hrs. <input type="checkbox"/> 24 hrs. <input type="checkbox"/> 72 hrs.				Signature:		Signature: <i>[Signature]</i>		Signature:	
				Printed Name:		Printed Name: Albert Vazquez		Printed Name:	
				Date:		Date: 11/18/02		Date:	
				Time:		Time: 12:30		Time:	

APPENDIX C

049

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBIA POPESCU

DATE OF INSPECTION: 12.27.02

OBSERVATIONS AND COMMENTS: CHECK BELT, HOSES, DRUMS CONNECTIONS,
CLEAN WATER FILTER BAG, REPLACE CARTRIDGE WATER
FILTER, DRAIN COMPRESSOR TANK,

FLOW METER READING: -1123890-

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

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

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

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

INSPECTOR'S SIGNATURE: [Signature]

049

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPE SW

DATE OF INSPECTION: 12.20.02

OBSERVATIONS AND COMMENTS: ADD OIL, CHECK BELT, HOSES, DRUMS CONNECTIONS, DRAIN COMPRESSOR TANK, REPLACE CARTRIDGE WATER FILTER, CLEAN WATER FILTER BAG,

FLOW METER READING: 1118460

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: 0.8

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

INSPECTOR'S SIGNATURE: [Signature]

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBANOPEW

DATE OF INSPECTION: 12.13.02

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

FLOW METER READING: -1113230-

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: 0.8

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

INSPECTOR'S SIGNATURE: *Serbanopew*

049

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBA POPE SW

DATE OF INSPECTION: 12.06.02

OBSERVATIONS AND COMMENTS: Add oil, check belt, boxes, drums, clean water filter bag, replace cartridge water filter, drain compressor tank,

FLOW METER READING: 1109860

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]

049

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBODOROW

DATE OF INSPECTION: 11.29.02

OBSERVATIONS AND COMMENTS: ADD OIL, CLEAN WATER FILTER BAG,

REPLACE WATER CARTRIDGE FILTER, DRAW

COMPRESSOR TANK,

FLOW METER READING: - 1108680 -

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 1.3

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 1.1

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

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

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

INSPECTOR'S SIGNATURE: [Signature]

049

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 11.22.02

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

FLOW METER READING: 1104240 -

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: S. Popescu

049

THRIFTY OIL CO. SERVICE STATION # 049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: BERBAPOFFSU

DATE OF INSPECTION: 11.15.02

OBSERVATIONS AND COMMENTS: CHECK OIL, BELT, HOBBES, DRINK

COMPRESSOR DANK,

FLOW METER READING: 109.8680

SAMPLES OBTAINED: H/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: 0.8

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

INSPECTOR'S SIGNATURE: [Signature]

THRIFTY OIL CO. SERVICE STATION # 549
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 11.08.02

OBSERVATIONS AND COMMENTS: CHECK OIL, BELT, HOSES, REPLACE

CARTRIDGE WATER FILTER, CLEAN WATER FILTER

BAG, DRAIN COMPRESSOR TANK,

FLOW METER READING: - 1091030 -

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

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

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

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

INSPECTOR'S SIGNATURE: S. Popescu

049

THRIFTY OIL CO. SERVICE STATION # 049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 11.01.02

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

FLOW METER READING: - 10.87350 -

SAMPLES OBTAINED: N/A

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: _____

049

THRIFTY OIL CO. SERVICE STATION # 049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBA DOPROW

DATE OF INSPECTION: 10.18.02

OBSERVATIONS AND COMMENTS: CHECK OIL, BELT, HOSES, REPLACE CARTRIDGE WATER FILTER, CLEAN WATER FILTER BAG, CLEAN FILTER IN THREE STAGE FILTER, DRAIN FILTER BOWLS, DRAIN COMPRESSOR TANK,

FLOW METER READING: -1078910-

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: 110

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

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

INSPECTOR'S SIGNATURE: [Signature]

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBOPOLSKA

DATE OF INSPECTION: 10.11.02

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

FLOW METER READING: -1072420-

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: 1.7

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: S. Polaska

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

NAME OF INSPECTOR: SERBATAPORE SW

DATE OF INSPECTION: 10.04.02

OBSERVATIONS AND COMMENTS: CHECK BELT, HOSES, DRUMS FROM LEAKING,
REPLACE CARTRIDGE WATER FILTER, CLEAN WATER
FILTER BAG, DRAIN WATER FROM COMPRESSOR TANK,
ADD OIL,

FLOW METER READING: -1069130

SAMPLES OBTAINED: System sampling

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: 0.8

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

INSPECTOR'S SIGNATURE: S. Stojanovic

049

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBATA PUPIN

DATE OF INSPECTION: 9-27-02

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

FLOW METER READING: -1064020-

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 14

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 12

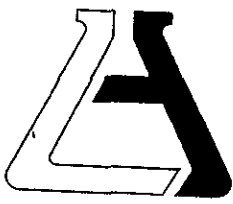
PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.1

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: S. PUPIN

APPENDIX D



ASSOCIATED LABORATORIES

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

NEW

1.32700
RECEIVED
OCT 30 2002
ENVIRONMENTAL
FAX 714/538-1209

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

LAB REQUEST 100543 ✓

REPORTED 10/17/2002

RECEIVED 10/09/2002

PROJECT Station #049 ✓
3400 San Pablo Ave., Oakland

SUBMITTER Client

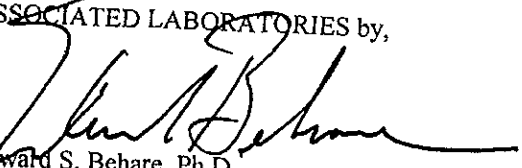
COMMENTS

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

<u>Order No.</u>	<u>Client Sample Identification</u>
384628	TOC #049, OUTLET PSP #1
384629	TOC #049, INT 2
384630	TOC #049, INLET
384631	TOC #049, INT 3
384632	TOC #049, INT 1
384633	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 #: 384628

Matrix: WATER

Client Sample ID: TOC #049, OUTLET PSP #1

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

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

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L		10/14/02 LZ
Ethyl benzene	ND	1	0.3	0.18 ug/L		10/14/02 LZ
Methyl t - butyl ether	ND	1	5	0.24 ug/L		10/14/02 LZ
Toluene	ND	1	0.3	0.14 ug/L		10/14/02 LZ
Xylene (total)	ND	1	0.6	0.26 ug/L		10/14/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L		10/14/02 LZ
Surrogates				Units		Control Limits
a,a,a-Trifluorotoluene	98			%		55 - 156

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



Order #: 384629

Matrix: WATER

Client Sample ID: TOC #049, INT 2

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

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

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L	10/14/02 LZ
Ethyl benzene	ND	1	0.3	0.18 ug/L	10/14/02 LZ
Methyl t - butyl ether	64	2	10.0	0.24 ug/L	10/14/02 LZ
Toluene	ND	1	0.3	0.14 ug/L	10/14/02 LZ
Xylene (total)	ND	1	0.6	0.26 ug/L	10/14/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	10/14/02 LZ
----------	----	---	----	---------	-------------

Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	101			%	55 - 156

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



Order #: 384630

Client Sample ID: TOC #049, INLET

Matrix: WATER

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

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

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L	10/14/02 LZ
Ethyl benzene	ND	1	0.3	0.18 ug/L	10/14/02 LZ
Methyl t - butyl ether	2570	100	500.0	0.24 ug/L	10/14/02 LZ
Toluene	ND	1	0.3	0.14 ug/L	10/14/02 LZ
Xylene (total)	ND	1	0.6	0.26 ug/L	10/14/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	4500 J	100	5000.0	50 ug/L	10/14/02 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	96			%	55 - 156

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



Order #: 384631

Client Sample ID: TOC #049, INT 3

Matrix: WATER

Date Sampled: 10/04/2002 Time Sampled: 10:30

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

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L	10/14/02 LZ
Ethyl benzene	ND	1	0.3	0.18 ug/L	10/14/02 LZ
Methyl t - butyl ether	115	5	25.0	0.24 ug/L	10/14/02 LZ
Toluene	ND	1	0.3	0.14 ug/L	10/14/02 LZ
Xylene (total)	ND	1	0.6	0.26 ug/L	10/14/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	147	1	50	50 ug/L	10/14/02 LZ
----------	-----	---	----	---------	-------------

Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	103			%	55 - 156

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



Order #: 384632

Client Sample ID: TOC #049, INT 1

Matrix: WATER

Date Sampled: 10/04/2002 Time Sampled: 10:40

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

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L	10/14/02 LZ
Ethyl benzene	ND	1	0.3	0.18 ug/L	10/14/02 LZ
Methyl t - butyl ether	ND	1	5	0.24 ug/L	10/14/02 LZ
Toluene	ND	1	0.3	0.14 ug/L	10/14/02 LZ
Xylene (total)	ND	1	0.6	0.26 ug/L	10/14/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	10/14/02 LZ
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	115			%	55 - 156

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



Order #: 384633

Client Sample ID: Laboratory Method Blank

Matrix: WATER

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

Benzene	ND	1	0.3	0.18	ug/L	10/14/02 LZ
Ethyl benzene	ND	1	0.3	0.18	ug/L	10/14/02 LZ
Methyl t - butyl ether	ND	1	5	0.24	ug/L	10/14/02 LZ
Toluene	ND	1	0.3	0.14	ug/L	10/14/02 LZ
Xylene (total)	ND	1	0.6	0.26	ug/L	10/14/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	10/14/02 LZ
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	99				%	55 - 156

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 101402
 Matrix: WATER
 Prep. Date: 10/14/02
 Analysis Date: 10/14/02
 ID#'s in Batch: LR 100428, 100545, 100543

LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT

Reporting Units = ug/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	442	476	88	95	7

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	99
LCS	176 *
LCSD	180 *

AAA-TFT = a,a,a-Trifluorotoluene

* Outside QC Limits

ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: LCS 101402
 Matrix: WATER
 Prep. Date: 10/14/02
 Analysis Date: 10/15/02
 LAB ID#'s in Batch: LR 100428, 100545, 100543

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	20	80	16	80
Toluene	8021	ND	18	20	90	17	85
Ethylbenzene	8021	ND	21	20	105	21	105
Xylenes	8021	ND	42	40	105	41	103

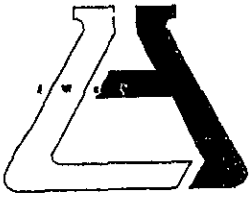
LCS = Lab Control Sample Result
TRUE = True Value of LCS
L.LIMIT / H.LIMIT = LCS Control Limits

<i>L.Limit</i>	<i>H.Limit</i>
80%	120%

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	55-156
Method Blank	99
LCSD	104
LCSD	96

AAA-TFT = a,a,a-Trifluorotoluene



ASSOCIATED LABORATORIES

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

FAX 714/538-1209

Date of Request : 10/28/02

Edit: Additional Analyses: _____
Regular Turnaround: _____ Rush: _____

Client Name: Thrifty

Lab # (s): 100543

Order #(s): _____

Rush!

Micro	Chem	Gasc	ICP/AA	Pest/Svoa	Voa	Bio	Toc/Rad	Prep	Out
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change	384629	INT1	→	INT 2					
	384630	INT2	→	INLET					
	384632	INLET	→	INT 1					

Requestor: Debra Morgan



Chain of Custody Record

Company THRIFTY OIL CO		Phone (562) 921-3581		A.L. Job No. 100543 ✓		Page _____ of _____				
Project Manager JEFF JORDANOSUMA		Fax (562) 925-7510		Analysis Requested				Test Instructions & Comments		
Project Name SYSTEM WATER SAMPLING		Project # 049 ✓								
Site Name and Address 3400 SAN PABLO AVE. OAKLAND, CA. 94612				T B M P T T H F B X E						
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.				
1 OUTLET PDP#1		10.04.02	10:00	H ₂ O	3VOA	HCL	X	X	X	GRAB SAMPLE
2 INT 1		↑	10:10	↑	↑	↓	X	X	X	
3 INT 2		↑	10:20	↑	↑	↓	X	X	X	
4 INT 3		↓	10:30	↓	↓	↓	X	X	X	
5 INLET		↓	10:40	↓	↓	↓	X	X	X	
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Sample Receipt - To Be Filled By Laboratory				Relinquished by 1. Sampler: JORDANOSUMA Signature: <i>[Signature]</i>		Relinquished by 2. GOLDEN STATE Signature: <i>[Signature]</i>		Relinquished by 3. Signature: _____	
Total Number of Containers	15	Property Cooled	Y / N / NA	Printed Name:	JORDANOSUMA	Printed Name:	_____	Printed Name:	_____
Custody Seals	Y / N / NA	Samples Intact	Y / N / NA	Date:	10.04.02	Time:	17:30	Date:	_____
Received in Good Condition	Y / N	Samples Accepted	Y / N	Date:	_____	Time:	_____	Date:	_____
Turn Around Time				Received By: 1. GOLDEN STATE Signature: _____		Received By: 2. <i>[Signature]</i> Signature: _____		Received By: 3. <i>[Signature]</i> Signature: _____	
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Same Day	<input type="checkbox"/> 48 hrs.	Printed Name:	_____	Printed Name:	SIOWADU	Printed Name:	_____
		<input type="checkbox"/> 24 hrs.	<input type="checkbox"/> 72 hrs.	Date:	_____	Date:	10/10/02	Date:	10/11
				Time:	_____	Time:	18:30	Time:	2:55