

# THRIFTY OIL CO.

ENVIRONMENTAL  
PROTECTION  
00 JAN 20 PM 3:27

January 14, 2000

O.00256

Mr. Scott O. Seery, CHMM  
Alameda County Health Agency  
Hazardous Material Specialist  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

RE: **Thrifty Oil Co. #054**  
2504 Castro Valley Boulevard  
Castro Valley, CA 94541  
*4th Quarter 1999, Status Report*

Dear Mr. Seery:

Presented herewith is the Fourth Quarter 1999, Status Report for Thrifty Oil Co. Station #054 located at 2504 Castro Valley Boulevard, Castro Valley, California.

If you have any questions or comments, regarding this report please contact Raymond C. Friedrichsen or me at (562) 921-3581. *x 390*

Sincerely,



Chris Panaitescu  
General Manager  
Environmental Affairs

c: File



# THRIFTY OIL CO.

January 13, 2000

Mr. Scott O. Seery, CHMM  
Hazardous Material Specialist  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

RE: **Thrifty Oil Co. Station #054**  
2504 Castro Valley Boulevard  
Castro Valley, CA  
*4th Quarter 1999, Status Report*

Dear Mr. Seery:

Presented herein is the Fourth Quarter 1999, Status Report prepared for Thrifty Oil Co. (Thrifty) Station #054 located at 2504 Castro Valley Boulevard, Castro Valley, California (**Figure 1**). Presented in this report are the results of the quarterly groundwater monitoring program conducted on December 1, 1999. Thrifty has retained the services of Earth Management Company (EMC) to conduct quarterly monitoring and sampling activities at this site.

## **Groundwater Monitoring**

Depth to groundwater is measured in each monitoring well on a quarterly basis. Historic gauging groundwater data obtained from April 11, 1988 through December 1, 1999 is presented in **Table 1**. In general, groundwater occurs under water table conditions beneath the station at depths ranging from 2.63 feet below ground surface (bgs) in monitoring wells RE-3 to 8.30 feet bgs in monitoring well RS-8 (**Appendix A**). Groundwater elevation contour map based on the December 1, 1999 data is presented in **Figure 1**. The general direction of groundwater flow beneath the site is toward the east at a gradient ranging from 0.03 to 0.14 feet/foot, with localized mounding in the northeast corner of the site.

## **Quarterly Groundwater Sampling**

As part of the on-going groundwater monitoring program, groundwater samples were obtained from



by EPA method 8015/8020. Effluent vapor samples were collected on October 25, November 8, November 22, and December 7, 1999, and analyzed for benzene by NIOSH method 1501. The system vapor analytical reports are presented in **Appendix D. Table 2** is a summary of the vapor extraction operating data. **Table 3** presents the laboratory analytical results of inlet vapor samples.

### **Other Activities**

Groundwater monitoring, gauging, and sampling at this site will continue on a quarterly basis. Thrifty will continue to monitoring and report the status of the vapor extraction and groundwater treatment system (SAVE-RSI).

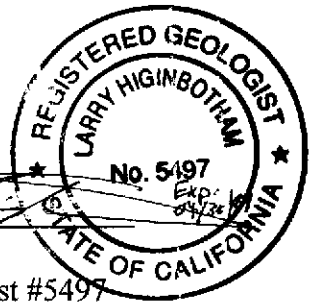
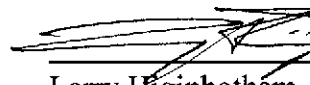
Once Thrifty receives the permit from the Castro Valley Sanitary District, the groundwater system will be restarted.

Written by:



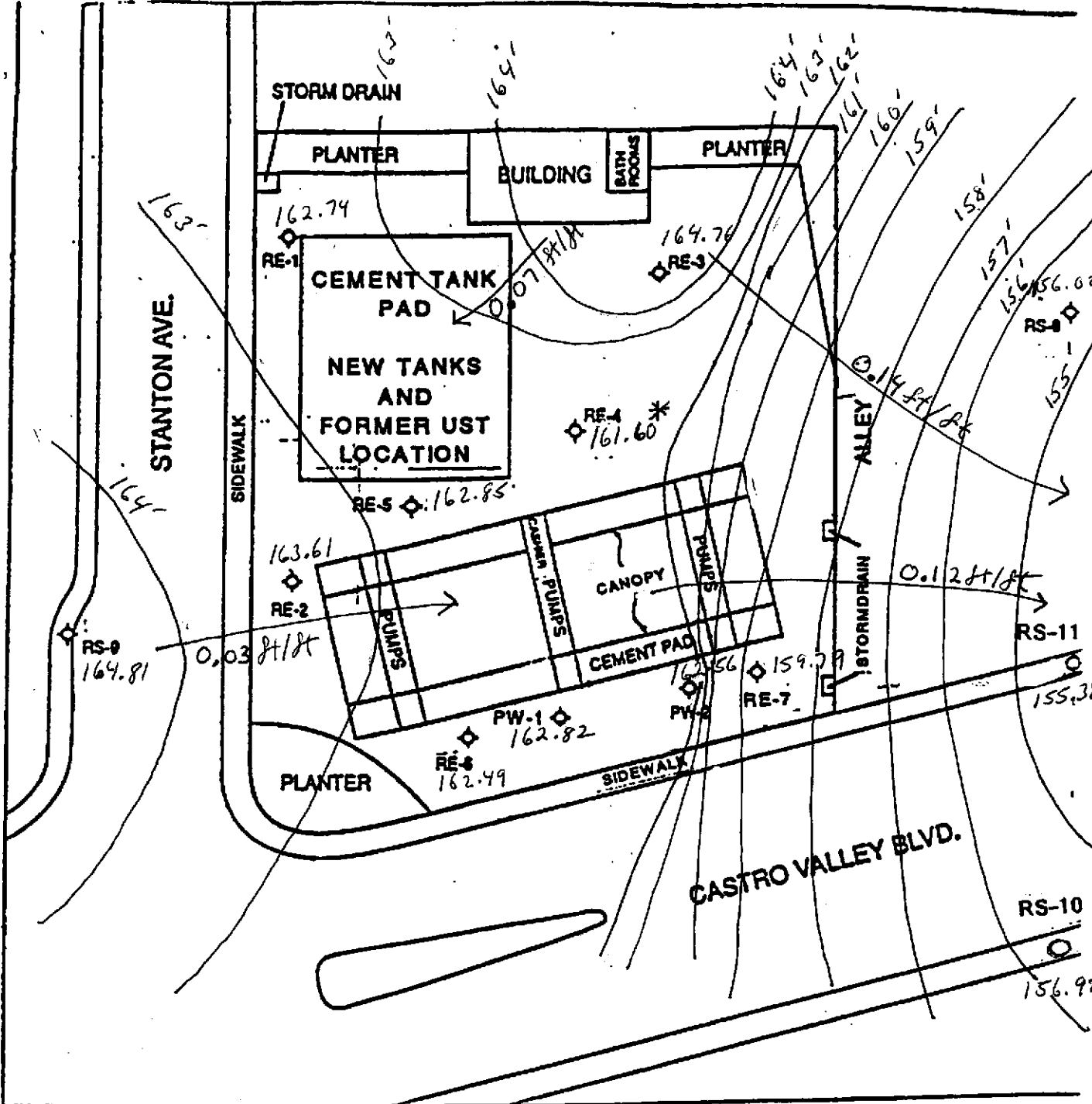
Raymond C. Friedrichsen, REA II  
Project Manager  
Senior Hydrogeologist

Reviewed by:



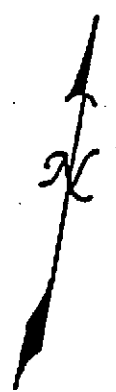
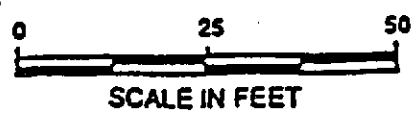
Larry Higinbotham  
Registered Geologist #5497

# FIGURES



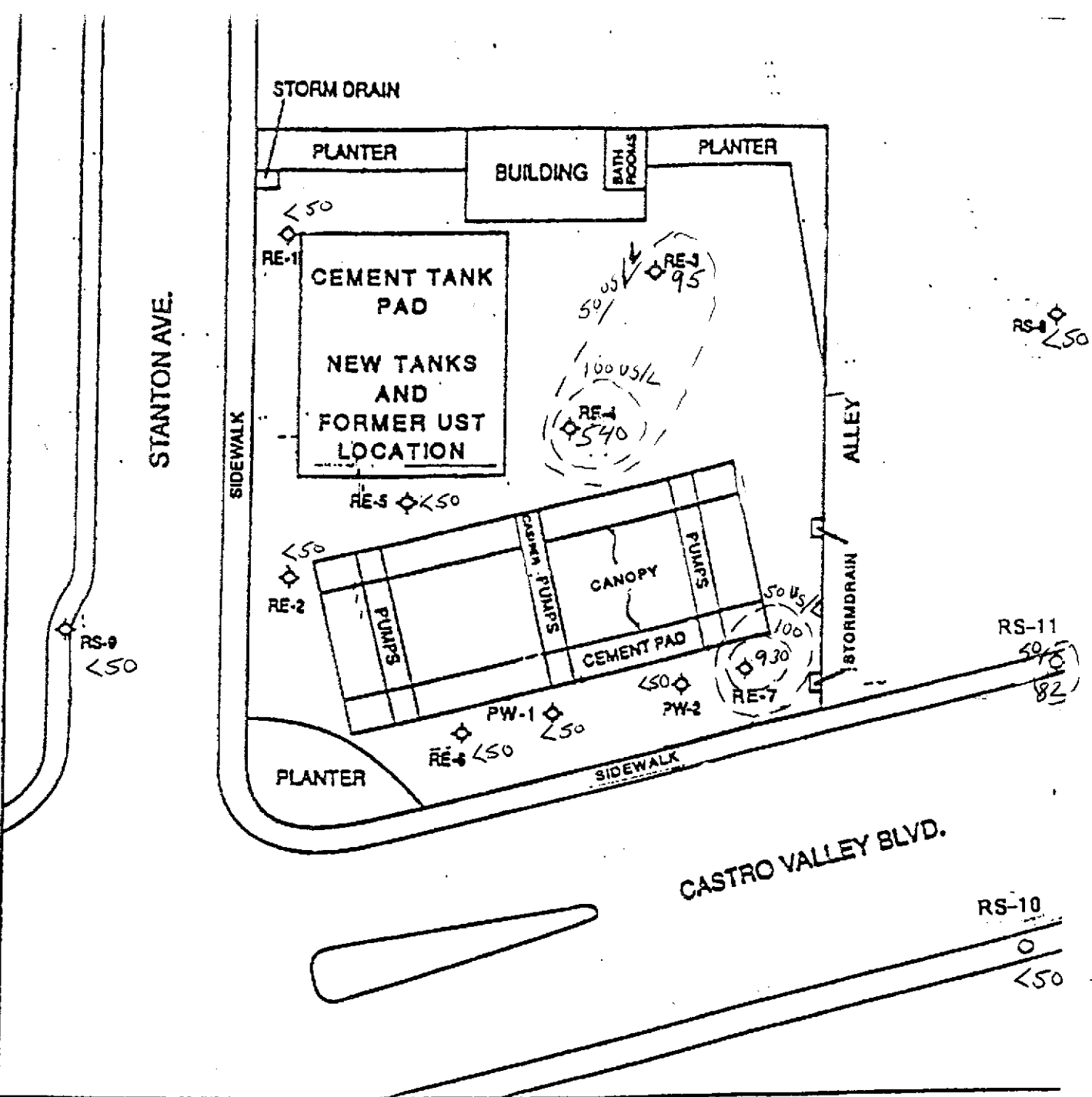
\* Results not used for contouring.

**GROUNDWATER CONTOUR MAP**  
**THRIFTY OIL CO. #054**  
**CASTRO VALLEY, CALIFORNIA**  
 Prepared for  
**THRIFTY OIL CO.**  
**SANTA FE, SPRINGS**  
**CALIFORNIA**



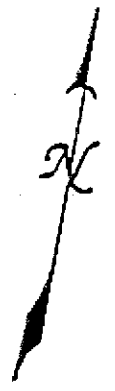
◊ EXISTING MONITORING WELL

Date: 12/1/99 **FIGURE 1**



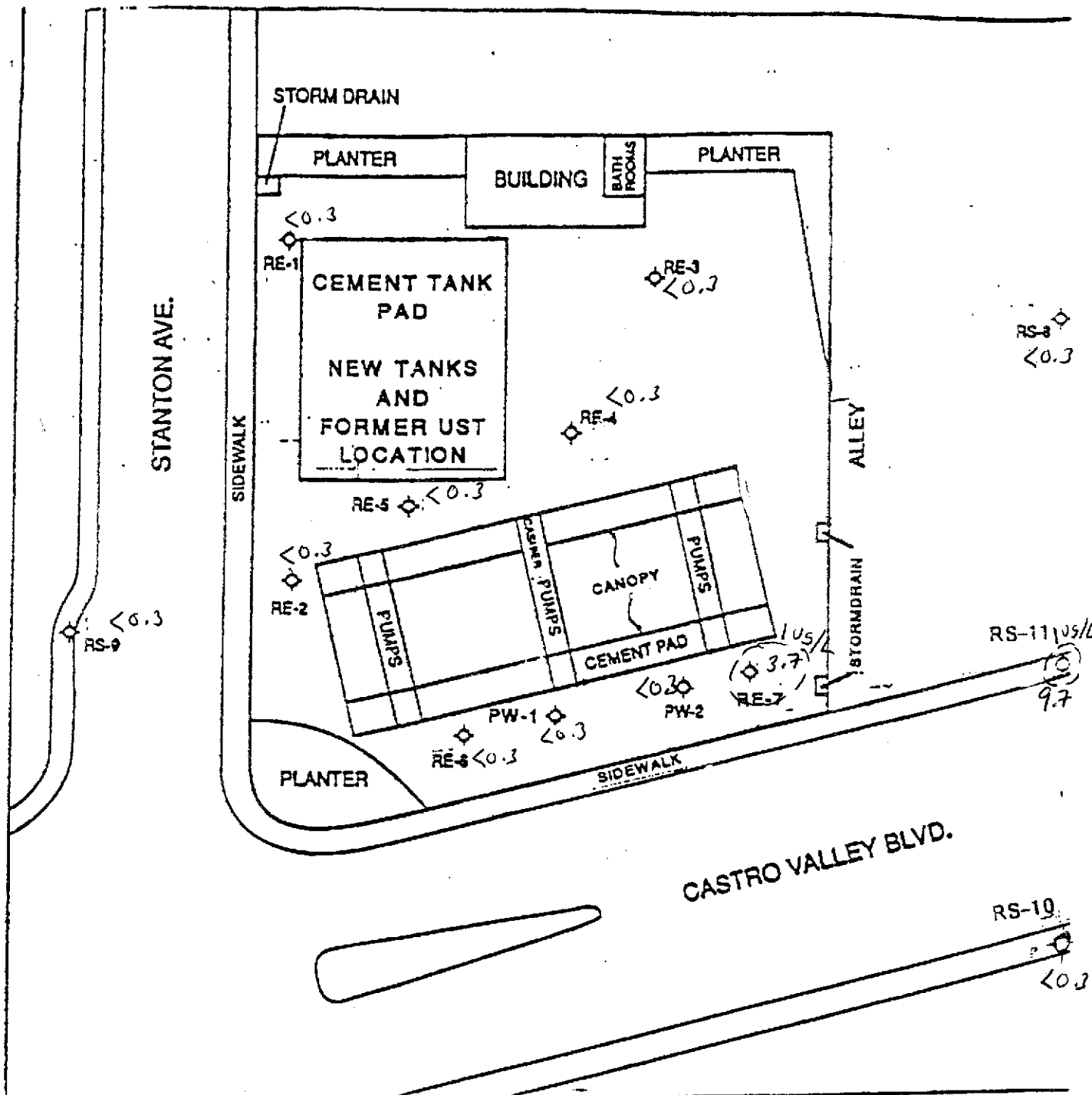
TPH GROUNDWATER ISOCONCENTRATION MAP PPB

THRIFTY OIL CO. #054  
 CASTRO VALLEY, CALIFORNIA  
 Prepared for  
 THRIFTY OIL CO.  
 SANTA FE, SPRINGS  
 CALIFORNIA



◊ EXISTING MONITORING WELL

Date: 12/1/99 **FIGURE 2**



**BENZENE ISOCONCENTRATION MAP PPB**

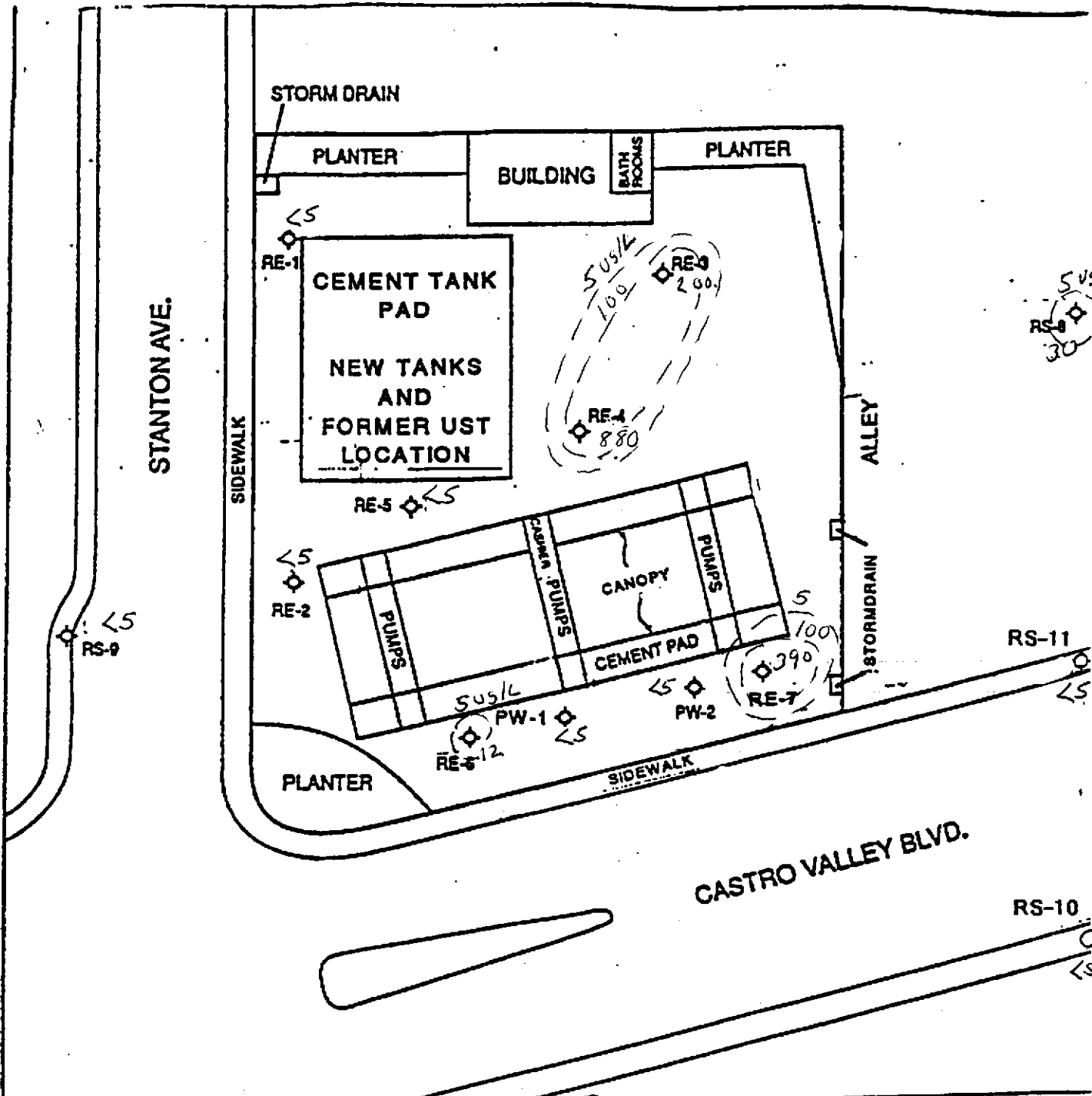
THRIFTY OIL CO. #054  
 CASTRO VALLEY, CALIFORNIA  
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 SANTA FE, SPRINGS  
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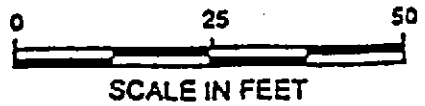
◊ EXISTING MONITORING WELL

Date: 12/1/99

FIGURE 3



~~MTBE~~ ISOCONCENTRATION MAP ug/L  
 THRIFTY OIL CO. #054  
 CASTRO VALLEY, CALIFORNIA  
 Prepared for  
 THRIFTY OIL CO.  
 SANTA FE, SPRINGS  
 CALIFORNIA



◊ EXISTING MONITORING WELL

Date: 12/1/99

FIGURE 4



# **TABLES**

**TABLE 1**  
**GROUNDWATER DATA**  
**THRIFTY OIL STATION #054, CASTRO VALLEY, 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)	MIBP (ug/L)					
<b>MONITORING WELL RPW-1</b>											
04/11/88	-	-	-	-	-	-	-	-	-	-	-
04/09/90	230,000	600	2,700	1,000	16,000	-	5.10	NP	0.00	166.46	161.36
10/30/90	35,000	240	970	240	3,580	-	6.17	NP	0.00	166.46	160.29
01/18/91	37,000	43	140	42	1,600	-	6.28	NP	0.00	166.46	160.18
02/12/91	45,000	99	130	25	700	-	5.88	NP	0.00	166.46	160.58
03/20/91	1,900	0.43	ND	ND	2.8	-	4.75	NP	0.00	166.46	161.71
05/22/91	41,000	600	730	250	3,800	-	5.10	NP	0.00	166.46	161.36
06/19/91	-	-	-	-	-	-	5.61	NP	0.00	166.46	160.85
07/17/91	-	-	-	-	-	-	5.53	FILM	0.00	166.46	160.93
08/07/91	-	-	-	-	-	-	5.67	FILM	0.00	166.46	160.79
09/24/91	-	-	-	-	-	-	5.57	FILM	0.00	166.46	160.89
10/23/91	-	-	-	-	-	-	6.53	FILM	0.00	166.46	159.93
11/06/91	-	-	-	-	-	-	5.85	FILM	0.00	166.46	160.61
12/04/91	-	-	-	-	-	-	5.91	FILM	0.00	166.46	160.55
01/29/92	-	-	-	-	-	-	5.43	FILM	0.00	166.46	161.03
02/26/92	-	-	-	-	-	-	5.54	FILM	0.00	166.46	160.92
03/19/92	ND	ND	ND	ND	ND	-	5.47	NP	0.00	166.46	160.99
04/22/92	-	-	-	-	-	-	5.62	FILM	0.00	166.46	160.84
05/21/92	1,300	19	2.9	0.7	58	-	6.21	NP	0.00	166.46	160.25
06/25/92	-	-	-	-	-	-	6.94	NP	0.00	166.46	159.52
07/30/92	-	-	-	-	-	-	5.90	FILM	0.00	166.46	160.56
08/20/92	-	-	-	-	-	-	7.12	FILM	0.00	166.46	159.34
09/30/92	3,400	57	ND	26	240	-	6.42	NP	0.00	166.46	160.04
12/23/92	-	-	-	-	-	-	5.56	FILM	0.00	166.46	160.90
03/10/93	-	-	-	-	-	-	5.65	FILM	0.00	166.46	160.81
06/09/93	400	<0.5	1.1	<1.0	<1.0	-	5.30	NP	0.00	166.46	161.16
09/14/93	180	3.7	3.2	1.5	14	-	5.43	NP	0.00	166.46	161.03
12/14/93	<50	<0.3	<0.3	<0.3	<0.5	-	4.65	NP	0.00	166.46	161.81
03/02/94	<50	<0.3	<0.3	<0.3	<0.5	-	5.43	NP	0.00	166.46	161.03
06/06/94	330	1.3	<0.3	0.88	9.8	-	4.70	NP	0.00	166.46	161.76
09/06/94	1,100	67	<0.3	<0.3	24	-	6.48	NP	0.00	166.46	159.98
12/07/94	<50	<0.3	<0.3	<0.5	<0.5	-	5.22	NP	0.00	166.46	161.24
03/08/95	<100	<0.5	<0.5	<0.5	<1	-	6.94	NP	0.00	166.46	159.52
06/15/95	260	0.8	0.6	<0.5	3.2	-	5.72	NP	0.00	166.46	160.74

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (ft)	DEPTH TO PRODUCT (ft)	PRODUCT THICKNESS (ft)	CASING ELEVATION (ft)	GROUNDWATER ELEVATION (ft)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MIBK (ug/L)					
09/05/95	330	2.1	<0.5	2.1	9.6	-	5.96	NP	0.00	166.46	160.50
11/21/95	660	13	1.3	<0.3	4.0	-	6.04	NP	0.00	166.46	160.42
03/11/96	660	0.94	0.77	<0.3	8.1	-	3.60	NP	0.00	166.46	162.86
06/19/96	120	0.53	<0.3	<0.3	2.3	-	4.80	NP	0.00	166.46	161.66
09/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.10	NP	0.00	166.46	161.36
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	4.92	NP	0.00	166.46	161.54
03/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	4.50	NP	0.00	166.46	161.96
06/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	-	-	-	-	-
09/16/97	690	0.97	<0.3	<0.3	<0.5	<20	4.55	NP	0.00	166.46	161.91
12/09/97	640	150	0.64	<0.3	5.2	1,300	5.60	NP	0.00	166.46	160.86
03/03/98	<50	<0.3	0.57	<0.3	<0.5	<20	4.13	NP	0.00	166.46	162.33
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	<5	6.35	NP	0.00	166.46	160.11
12/30/98	<50	1.1	<0.3	<0.3	<0.5	<5	6.40	NP	0.00	166.46	160.06
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	6.35	NP	0.00	166.46	160.11
06/22/99	<50	<0.3	<0.3	<0.3	<0.5	53	4.95	NP	0.00	166.46	161.51
09/08/99	<50	<0.3	<0.3	<0.3	<0.5	<5	4.80	NP	0.00	166.46	161.66
12/01/99	<50	<0.3	<0.3	<0.3	<0.5	<5	3.64	NP	0.00	166.46	162.82
<b>MONITORING WELL PW-2</b>											
04/11/88	-	-	-	-	-	-	-	-	-	-	-
04/09/90	600,000	1,300	11,000	4,600	4,300	-	5.81	NP	0.00	166.18	160.37
10/30/90	48,000	310	51	10	480	-	6.95	NP	0.00	166.18	159.23
01/18/91	86,000	230	1,400	350	8,300	-	6.92	NP	0.00	166.18	159.26
02/12/91	160,000	680	1,300	250	7,000	-	6.78	NP	0.00	166.18	159.40
03/20/91	17,000	34	50	ND	1,100	-	5.54	NP	0.00	166.18	160.64
05/22/91	14,000	57	2,100	500	8,200	-	6.07	NP	0.00	166.18	160.11
06/19/91	-	-	-	-	-	-	6.37	FILM	0.00	166.18	159.81
07/17/91	-	-	-	-	-	-	6.38	FILM	0.00	166.18	159.80
08/07/91	-	-	-	-	-	-	6.63	FILM	0.00	166.18	159.55
09/24/91	-	-	-	-	-	-	6.42	FILM	0.00	166.18	159.76
10/23/91	-	-	-	-	-	-	7.25	FILM	0.00	166.18	158.93
11/06/91	-	-	-	-	-	-	6.44	FILM	0.00	166.18	159.74
12/04/91	-	-	-	-	-	-	6.65	FILM	0.00	166.18	159.53

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #054, CASTRO VALLEY, 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)	MIBK (ug/L)					
01/29/92	-	-	-	-	-	-	6.17	FILM	0.00	166.18	160.01
02/26/92	-	-	-	-	-	-	5.90	FILM	0.00	166.18	160.28
03/19/92	-	-	-	-	-	-	5.80	FILM	0.00	166.18	160.38
04/22/92	-	-	-	-	-	-	5.88	FILM	0.00	166.18	160.30
05/21/92	-	-	-	-	-	-	6.03	FILM	0.00	166.18	160.15
06/25/92	-	-	-	-	-	-	6.57	FILM	0.00	166.18	159.61
07/30/92	-	-	-	-	-	-	6.20	FILM	0.00	166.18	159.98
08/20/92	-	-	-	-	-	-	6.64	FILM	0.00	166.18	159.54
09/30/92	-	-	-	-	-	-	6.88	FILM	0.00	166.18	159.30
12/23/92	-	-	-	-	-	-	6.08	FILM	0.00	166.18	160.10
03/10/93	-	-	-	-	-	-	5.95	FILM	0.00	166.18	160.23
06/09/93	3,400	24	22	<0.5	240	-	5.38	NP	0.00	166.18	160.80
09/14/93	4,900	190	15	6.8	480	-	6.26	NP	0.00	166.18	159.92
12/14/93	1,700	4.2	<0.3	<0.3	<0.5	-	5.22	NP	0.00	166.18	160.96
03/02/94	-	-	-	-	-	-	5.75	FILM	0.00	166.18	160.43
06/06/94	980	25	1.2	<0.3	42	-	5.25	NP	0.00	166.18	160.93
09/06/94	3,200	95	3.0	<1.7	76	-	6.80	NP	0.00	166.18	159.38
12/07/94	510	1.8	<0.3	<0.5	1.7	-	5.57	NP	0.00	166.18	160.61
03/08/95	1,900	<0.5	<0.5	1.4	35	-	4.10	NP	0.00	166.18	162.08
06/15/95	1,700	5.6	<0.5	<0.5	1.6	-	5.44	NP	0.00	166.18	160.74
09/05/95	2,500	33	1.0	0.86	18	-	6.13	NP	0.00	166.18	160.05
11/21/95	2,800	130	59	18	190	-	6.23	NP	0.00	166.18	159.95
03/11/96	13,000	330	460	<15	3,800	-	4.48	NP	0.00	166.18	161.70
06/19/96	1,400	<0.3	<0.3	<0.3	<0.5	-	5.38	NP	0.00	166.18	160.80
09/16/96	3,500	<0.3	<0.3	<0.3	<0.5	5,900	5.21	NP	0.00	166.18	160.97
12/10/96	2,100	<0.3	<0.3	<0.3	<0.5	4,700	4.87	NP	0.00	166.18	161.31
03/12/97	600	1.6	<0.3	<0.3	5.8	1,100	4.43	NP	0.00	166.18	161.75
06/12/97	270	<0.3	<0.3	<0.3	<0.5	630	-	-	-	-	-
09/10/97	220	<0.3	<0.3	<0.3	<0.5	320	4.07	NP	0.00	166.18	162.11
12/09/97	120	<0.3	0.73	<0.3	<0.5	420	5.20	NP	0.00	166.18	160.98
03/03/98	<50	0.43	0.48	<0.3	<0.5	47	3.30	NP	0.00	166.18	162.88
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	<5	5.15	NP	0.00	166.18	161.03
12/30/98	<50	1.1	<0.3	<0.3	<0.5	<5	4.75	NP	0.00	166.18	161.43

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #054, CASTRO VALLEY, 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)	TOLOENE (ug/L)	LOW Benzene (ug/L)	XYLENE (ug/L)	MIBP (ug/L)					
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	4.40	NP	0.00	166.18	161.78
06/22/99	-	-	-	-	-	-	4.50	NP	0.00	166.18	161.68
09/08/99	100	<0.3	<0.3	<0.3	<0.5	230	3.99	NP	0.00	166.18	162.19
12/01/99	<50	<0.3	<0.3	<0.3	<0.5	<5	3.62	NP	0.00	166.18	162.56
<b>MONITORING WELL #RE-1</b>											
04/11/88	37,000	1,900	8,400	1,200	15,000	-	-	-	-	-	-
04/09/90	45,000	6,100	7,000	2,000	8,800	-	4.99	NP	0.00	166.82	161.83
10/30/90	72,000	7,700	5,300	1,800	8,900	-	5.95	NP	0.00	166.82	160.87
01/18/91	150,000	11,000	14,000	1,800	4,300	-	5.17	NP	0.00	166.82	161.65
02/12/91	140,000	11,000	12,000	1,600	13,000	-	4.16	NP	0.00	166.82	162.66
03/20/91	53,000	3,100	4,200	400	5,500	-	4.75	NP	0.00	166.82	162.07
05/22/91	85,000	8,700	10,000	1,800	12,000	-	4.42	NP	0.00	166.82	162.40
06/19/91	110,000	8,500	9,600	2,600	16,000	-	4.93	NP	0.00	166.82	161.89
07/17/91	5,500	950	ND	26	ND	-	5.19	NP	0.00	166.82	161.63
08/07/91	-	6,700	5,000	ND	7,100	-	5.12	NP	0.00	166.82	161.70
09/24/91	60,000	6,800	4,300	640	6,900	-	5.87	NP	0.00	166.82	160.95
10/23/91	79,000	7,900	8,300	450	7,100	-	5.81	NP	0.00	166.82	161.01
11/06/91	130,000	14,000	15,000	1,100	8,800	-	5.56	NP	0.00	166.82	161.26
12/04/91	50,000	8,000	4,700	520	4,100	-	5.35	NP	0.00	166.82	161.47
01/29/92	21,000	10,300	11,000	780	6,000	-	4.50	NP	0.00	166.82	162.32
02/26/92	38,000	8,400	10,500	720	7,100	-	5.27	NP	0.00	166.82	161.55
03/19/92	48,000	6,200	9,700	780	7,200	-	4.47	NP	0.00	166.82	162.35
04/22/92	-	-	-	-	-	-	4.62	NP	0.00	166.82	162.20
05/21/92	20,000	7,600	10,100	830	6,900	-	4.98	NP	0.00	166.82	161.84
06/25/92	-	-	-	-	-	-	5.14	FILM	0.00	166.82	161.68
07/30/92	-	-	-	-	-	-	5.30	FILM	0.00	166.82	161.52
08/20/92	-	-	-	-	-	-	5.28	FILM	0.00	166.82	161.54
09/30/92	-	-	-	-	-	-	5.66	FILM	0.00	166.82	161.16
12/23/92	-	-	-	-	-	-	4.81	FILM	0.00	166.82	162.01
03/10/93	-	-	-	-	-	-	4.13	FILM	0.00	166.82	162.69
06/09/93	-	-	-	-	-	-	4.48	FILM	0.00	166.82	162.34
09/14/93	19,000	3,600	1,100	740	4,300	-	5.35	NP	0.00	166.82	161.47
12/14/93	38,000	4,300	1,300	<6.6	11	-	4.38	NP	0.00	166.82	162.44

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	LEAD (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	Ethylbenzene (ug/L)	XYLENE (ug/L)	BTX (ug/L)					
03/02/94	-	-	-	-	-	-	4.22	FILM	0.00	166.82	162.60
06/06/94	-	-	-	-	-	-	2.16	FILM	0.00	166.82	164.66
09/06/94	74,000	3,300	3,900	1,200	6,100	-	5.00	NP	0.00	166.82	161.82
12/07/94	30,000	3,200	2,900	1,200	4,600	-	4.10	NP	0.00	166.82	162.72
03/08/95	28,000	4,200	2,300	810	7,800	-	3.92	NP	0.00	166.82	162.90
06/15/95	-	-	-	-	-	-	-	-	-	-	-
09/05/95	-	-	-	-	-	-	4.78	FILM	0.00	166.82	162.04
11/21/95	-	-	-	-	-	-	4.82	NP	0.00	166.82	162.00
03/11/96	270	2.4	6.0	4.5	19	-	3.32	NP	0.00	166.82	163.50
06/19/96	3,000	570	63	<1.5	400	-	4.20	NP	0.00	166.82	162.62
09/16/96	7,700	440	69	<1.5	680	230	4.68	NP	0.00	166.82	162.14
12/10/96	52	<0.3	<0.3	<0.3	<0.5	120	4.93	NP	0.00	166.82	161.89
03/12/97	8,700	180	5.4	40	1,100	130	4.10	NP	0.00	166.82	162.72
06/12/97	<50	<0.3	<0.3	<0.3	<0.5	36	-	-	-	-	-
09/16/97	<50	<0.3	<0.3	<0.3	<0.5	<20	4.55	NP	0.00	166.82	162.27
12/09/97	<50	<0.3	0.44	<0.3	<0.5	<20	5.30	NP	0.00	166.82	161.52
03/03/98	1,100	13	0.51	<0.3	<0.5	220	4.55	NP	0.00	166.82	162.27
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	60	<0.3	<0.3	<0.3	<0.5	180	6.05	NP	0.00	166.82	160.77
12/30/98	<50	1.1	<0.3	<0.3	<0.5	<5	5.65	NP	0.00	166.82	161.17
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	5.68	NP	0.00	166.82	161.14
06/22/99	880	14	0.98	<0.3	8.1	260	4.95	NP	0.00	166.82	161.87
09/08/99	72	<0.3	<0.3	<0.3	<0.5	120	4.46	NP	0.00	166.82	162.36
12/01/99	<50	<0.3	<0.3	<0.3	<0.5	<5	4.08	NP	0.00	166.82	162.74
<b>MONITORING WELL #10-2</b>											
04/11/88	-	-	-	-	-	-	-	-	-	-	-
04/09/90	850	5.8	0.5	4.8	1.1	-	4.90	NP	0.00	167.19	162.29
10/30/90	440	2.8	0.91	13	3.14	-	5.34	NP	0.00	167.19	161.85
01/18/91	1,100	8.4	3.1	ND	10	-	4.90	NP	0.00	167.19	162.29
02/12/91	1,100	5.9	ND	1.77	ND	-	4.94	NP	0.00	167.19	162.25
03/20/91	550	4.3	ND	ND	ND	-	4.32	NP	0.00	167.19	162.87
05/22/91	1,000	5.3	3.6	4.4	8.9	-	4.43	NP	0.00	167.19	162.76
06/19/91	700	2.1	1.4	3.8	3.5	-	6.43	NP	0.00	167.19	160.76

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #054, CASTRO VALLEY, 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)					
07/17/91	880	12	8.0	4.3	28	-	4.75	NP	0.00	167.19	162.44
08/07/91	-	3.8	1.6	ND	ND	-	4.87	NP	0.00	167.19	162.32
09/24/91	670	7.2	7.1	ND	23	-	5.50	NP	0.00	167.19	161.69
10/23/91	2,700	52	60	22	130	-	5.63	NP	0.00	167.19	161.56
11/06/91	1,900	18	61	9.1	83	-	5.14	NP	0.00	167.19	162.05
12/04/91	1,100	26	47	4.3	42	-	5.26	NP	0.00	167.19	161.93
01/29/92	900	14	24	5.3	19	-	5.11	NP	0.00	167.19	162.08
02/26/92	500	3.4	3.5	2.7	2.7	-	4.31	NP	0.00	167.19	162.88
03/19/92	1,200	14	20	15	18	-	4.45	NP	0.00	167.19	162.74
04/22/92	200	ND	ND	ND	ND	-	4.78	NP	0.00	167.19	162.41
05/21/92	500	7.5	6.8	3.9	7.4	-	5.02	NP	0.00	167.19	162.17
06/25/92	ND	ND	0.9	0.7	ND	-	5.13	NP	0.00	167.19	162.06
07/30/92	500	7.7	8.6	3.2	1.7	-	5.19	NP	0.00	167.19	162.00
08/20/92	1,100	6.6	4.5	2.7	2.0	-	5.27	NP	0.00	167.19	161.92
09/30/92	500	5.4	2.4	1.8	4.5	-	5.45	NP	0.00	167.19	161.74
12/23/92	800	1.9	ND	ND	2.3	-	4.60	NP	0.00	167.19	162.59
03/10/93	1,200	ND	1.4	ND	2.1	-	4.18	NP	0.00	167.19	163.01
06/09/93	200	ND	ND	ND	ND	-	4.53	NP	0.00	167.19	162.66
09/17/93	360	1.6	1.1	3.2	8.9	-	5.26	NP	0.00	167.19	161.93
12/14/93	260	5.6	3.9	<0.3	21.0	-	2.75	NP	0.00	167.19	164.44
03/02/94	410	<0.3	<0.3	<0.3	<0.5	-	4.27	NP	0.00	167.19	162.92
06/06/94	760	4.6	<0.3	0.32	1.3	-	4.88	NP	0.00	167.19	162.31
09/06/94	1,300	43	45	8.9	69	-	5.16	NP	0.00	167.19	162.03
12/07/94	-	-	-	-	-	-	4.16	NP	0.00	167.19	163.03
03/08/95	<100	<0.5	<0.5	<0.5	<1	-	3.96	NP	0.00	167.19	163.23
06/15/95	130	<0.5	<0.5	<0.5	<1	-	4.52	NP	0.00	167.19	162.67
09/05/95	210	<0.5	<0.5	<0.5	<1	-	4.76	NP	0.00	167.19	162.43
11/21/95	160	0.65	<0.3	0.35	0.95	-	4.83	NP	0.00	167.19	162.36
03/11/96	<50	<0.3	<0.3	<0.3	<0.5	-	3.36	NP	0.00	167.19	163.83
06/19/96	<50	<0.3	<0.3	<0.3	<0.5	-	4.68	NP	0.00	167.19	162.51
09/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.10	NP	0.00	167.19	162.09
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	4.47	NP	0.00	167.19	162.72
03/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	4.05	NP	0.00	167.19	163.14
06/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	-	-	-	-	-
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<20	4.08	NP	0.00	167.19	163.11

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (mg/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MIBK (ug/L)					
12/09/97	<50	<0.3	<0.3	<0.3	<0.5	<20	4.40	NP	0.00	167.19	162.79
03/03/98	<50	<0.3	<0.3	<0.3	<0.5	<20	3.30	NP	0.00	167.19	163.89
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	15	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	<5	4.93	NP	0.00	167.19	162.26
12/30/98	460	0.92	<0.3	<0.3	<0.5	1,400	4.20	NP	0.00	167.19	162.99
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	4.20	NP	0.00	167.19	162.99
06/22/99	2,900	7.4	<0.3	0.43	4.1	4,500	3.70	NP	0.00	167.19	163.49
09/08/99	1,400	<3	<3	<3	<5	3,200	3.96	NP	0.00	167.19	163.23
12/01/99	<50	<0.3	<0.3	<0.3	<0.5	<5	3.58	NP	0.00	167.19	163.61
<b>MONITORING WELL ARE-3</b>											
04/11/88	70,000	6,600	5,300	800	13,000	-	-	-	-	-	-
04/09/90	370,000	2,300	4,900	3,200	31,000	-	7.15	NP	0.00	167.39	160.24
10/30/90	13,000	860	660	220	2,210	-	7.84	NP	0.00	167.39	159.55
01/18/91	42,000	4,700	4,500	21	7,700	-	6.90	NP	0.00	167.39	160.49
02/12/91	72,000	3,600	4,500	ND	7,600	-	6.62	NP	0.00	167.39	160.77
03/20/91	65,000	2,400	9,400	50	9,800	-	5.87	NP	0.00	167.39	161.52
05/22/91	-	-	-	-	-	-	5.98	FILM	0.00	167.39	161.41
06/19/91	-	-	-	-	-	-	6.84	FILM	0.00	167.39	160.55
07/17/91	-	-	-	-	-	-	7.10	FILM	0.00	167.39	160.29
08/07/91	-	-	-	-	-	-	7.30	FILM	0.00	167.39	160.09
09/24/91	-	-	-	-	-	-	7.84	FILM	0.00	167.39	159.55
10/23/91	-	-	-	-	-	-	8.07	FILM	0.00	167.39	159.32
11/06/91	-	-	-	-	-	-	7.63	FILM	0.00	167.39	159.76
12/04/91	-	-	-	-	-	-	7.83	FILM	0.00	167.39	159.56
01/29/92	-	-	-	-	-	-	7.17	FILM	0.00	167.39	160.22
02/26/92	-	-	-	-	-	-	5.56	FILM	0.00	167.39	161.83
03/19/92	-	-	-	-	-	-	5.44	FILM	0.00	167.39	161.95
04/22/92	-	-	-	-	-	-	6.56	FILM	0.00	167.39	160.83
05/21/92	-	-	-	-	-	-	6.90	FILM	0.00	167.39	160.49
06/25/92	-	-	-	-	-	-	7.18	FILM	0.00	167.39	160.21
07/30/92	-	-	-	-	-	-	6.80	FILM	0.00	167.39	160.59
08/20/92	-	-	-	-	-	-	7.25	FILM	0.00	167.39	160.14
09/30/92	-	-	-	-	-	-	7.68	FILM	0.00	167.39	159.71



**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	PHH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EDM Benzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
12/23/92	-	-	-	-	-	-	6.07	FILM	0.00	167.39	161.32
03/10/93	-	-	-	-	-	-	5.66	FILM	0.00	167.39	161.73
06/09/93	-	-	-	-	-	-	6.66	FILM	0.00	167.39	160.73
09/14/93	40,000	2,900	1,500	180	6,900	-	7.30	NP	0.00	167.39	160.09
12/14/93	-	-	-	-	-	-	5.95	NP	0.00	167.39	161.44
03/02/94	-	-	-	-	-	-	5.08	NP	0.00	167.39	162.31
06/06/94	-	-	-	-	-	-	6.35	FILM	0.00	167.39	161.04
09/06/94	11,000	260	26	<6.6	1,000	-	7.50	NP	0.00	167.39	159.89
12/07/94	-	-	-	-	-	-	5.48	FILM	0.00	167.39	161.91
03/08/95	-	-	-	-	-	-	5.18	FILM	0.00	167.39	162.21
06/15/95	-	-	-	-	-	-	-	-	-	-	-
09/05/95	-	-	-	-	-	-	6.84	FILM	0.00	167.39	160.55
11/21/95	10,000	210	<3	4.5	330	-	7.38	NP	0.00	167.39	160.01
03/11/96	1,600	640	15	10	46	-	4.85	NP	0.00	167.39	162.54
06/19/96	2,100	280	<3	<3	120	-	5.80	NP	0.00	167.39	161.59
09/16/96	140	<0.3	<0.3	<0.3	<0.5	110	4.50	NP	0.00	167.39	162.89
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.35	NP	0.00	167.39	162.04
03/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	3.48	NP	0.00	167.39	163.91
06/12/97	<50	<0.3	<0.3	<0.3	0.58	<20	-	-	-	-	-
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<20	3.10	NP	0.00	167.39	164.29
12/09/97	3,600	1,000	1,000	<6	570	260	4.55	NP	0.00	167.39	162.84
03/03/98	2,800	20	0.65	0.39	16	5,600	2.30	NP	0.00	167.39	165.09
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	23	4.95	NP	0.00	167.39	162.44
12/30/98	<50	1.1	<0.3	<0.3	<0.5	<5	4.55	NP	0.00	167.39	162.84
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	4.15	NP	0.00	167.39	163.24
06/22/99	670	17	1.2	0.36	1.7	340	3.85	NP	0.00	167.39	163.54
09/08/99	140	0.72	<0.3	<0.3	<0.5	230	2.63	NP	0.00	167.39	164.76
12/01/99	95	<0.3	<0.3	<0.3	<0.5	200	2.63	NP	0.00	167.39	164.76
<b>MONITORING WELLS ARE:</b>											
04/11/88	15,000	12,000	8,000	1,000	2,700	-	-	-	-	-	-
04/09/90	-	-	-	-	-	-	-	-	-	-	-
10/30/90	87,000	7,200	10,000	1,600	12,900	-	7.04	NP	0.00	166.94	159.90

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TOPI (ppb)	BENZENE (ppb)	TOLUENE (ppb)	EthylBenzene (ppb)	XYLENE (ppb)	MIBE (ppb)					
01/18/91	70,000	5,000	5,400	790	9,900	-	11.62	NP	0.00	166.94	155.32
02/12/91	87,000	5,200	2,800	240	11,000	-	11.63	NP	0.00	166.94	155.31
03/20/91	6,500	370	230	17	670	-	11.61	NP	0.00	166.94	155.33
05/22/91	-	-	-	-	-	-	10.30	FILM	0.00	166.94	156.64
06/19/91	-	-	-	-	-	-	11.10	FILM	0.00	166.94	155.84
07/17/91	-	-	-	-	-	-	6.20	FILM	0.00	166.94	160.74
08/17/91	-	-	-	-	-	-	8.15	FILM	0.00	166.94	158.79
09/24/91	-	-	-	-	-	-	10.40	FILM	0.00	166.94	156.54
10/23/91	-	-	-	-	-	-	11.20	FILM	0.00	166.94	155.74
11/06/91	-	-	-	-	-	-	6.62	FILM	0.00	166.94	160.32
12/04/91	-	-	-	-	-	-	11.20	ILM	0.00	166.94	155.74
01/29/92	-	-	-	-	-	-	7.72	FILM	0.00	166.94	159.22
02/26/92	-	-	-	-	-	-	5.13	FILM	0.00	166.94	161.81
03/19/92	-	-	-	-	-	-	5.00	FILM	0.00	166.94	161.94
04/22/92	-	-	-	-	-	-	5.94	FILM	0.00	166.94	161.00
05/21/92	-	-	-	-	-	-	5.40	FILM	0.00	166.94	161.54
06/25/92	-	-	-	-	-	-	5.71	FILM	0.00	166.94	161.23
07/30/92	-	-	-	-	-	-	6.33	FILM	0.00	166.94	160.61
08/20/92	-	-	-	-	-	-	5.80	FILM	0.00	166.94	161.14
09/30/92	-	-	-	-	-	-	6.34	FILM	0.00	166.94	160.60
12/23/92	-	-	-	-	-	-	5.50	FILM	0.00	166.94	161.44
03/10/93	-	-	-	-	-	-	4.67	FILM	0.00	166.94	162.27
06/09/93	-	-	-	-	-	-	5.12	FILM	0.00	166.94	161.82
09/14/93	-	-	-	-	-	-	10.44	NP	0.00	166.94	156.50
12/14/93	-	-	-	-	-	-	7.52	NP	0.00	166.94	159.42
03/02/94	-	-	-	-	-	-	4.85	NP	0.00	166.94	162.09
06/06/94	-	-	-	-	-	-	5.20	FILM	0.00	166.94	161.74
09/06/94	-	-	-	-	-	-	9.85	FILM	0.00	166.94	157.09
12/07/94	-	-	-	-	-	-	5.20	FILM	0.00	166.94	161.74
03/08/95	-	-	-	-	-	-	4.98	FILM	0.00	166.94	161.96
06/15/95	-	-	-	-	-	-	-	-	-	-	-
09/05/95	-	-	-	-	-	-	13.72	FILM	0.00	166.94	153.22
11/21/95	32,000	46	21	66	340	-	12.53	NP	0.00	166.94	154.41
03/11/96	1,700	130	15	2.0	120	-	4.72	NP	0.00	166.94	162.22
06/19/96	1,700	230	30	0.35	100	-	5.40	NP	0.00	166.94	161.54

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	THH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MIBK (ug/L)					
09/16/96	510	<0.3	0.73	<0.3	<0.5	800	5.18	NP	0.00	166.94	161.76
12/10/96	520	<0.3	<0.3	<0.3	<0.5	1,000	4.65	NP	0.00	166.94	162.29
03/12/97	420	3.2	<0.3	<0.3	11	370	3.87	NP	0.00	166.94	163.07
06/12/97	510	0.66	<0.3	<0.3	<0.5	1,600	-	-	-	-	-
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<20	5.40	NP	0.00	166.94	161.54
12/09/97	1,400	330	2.3	<0.3	1.5	2,500	4.60	NP	0.00	166.94	162.34
03/03/98	3,000	400	0.61	0.5	97	3,800	5.05	NP	0.00	166.94	161.89
07/08/98	650	<0.3	<0.3	<0.3	<0.5	1,800	-	-	-	-	-
09/10/98	2,700	<0.3	<0.3	<0.3	1.4	7,600	4.60	NP	0.00	166.94	162.34
12/30/98	530	<0.3	<0.3	<0.3	<0.5	1,500	4.20	NP	0.00	166.94	162.74
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	3.85	NP	0.00	166.94	163.09
06/22/99	1,200	23	1.5	<0.3	2.4	1,400	3.90	NP	0.00	166.94	163.04
09/08/99	590	1.5	<0.6	<0.6	<1	1,100	5.72	NP	0.00	166.94	161.22
12/01/99	540	<0.3	<0.3	<0.3	<0.5	880	5.34	NP	0.00	166.94	161.60
<b>MONITORING WELL #RE-5</b>											
04/11/88	14,000	1,300	1,100	100	2,600	-	-	-	-	-	-
04/09/90	3,000	690	190	40	270	-	4.79	NP	0.00	166.51	161.72
10/30/90	3,400	910	48	87	249	-	5.86	NP	0.00	166.51	160.65
01/18/91	1,400	180	8.6	0.52	48	-	4.40	NP	0.00	166.51	162.11
02/12/91	1,000	ND	ND	0.65	ND	-	4.76	NP	0.00	166.51	161.75
03/20/91	3,000	250	53	ND	110	-	5.08	NP	0.00	166.51	161.43
05/22/91	2,500	330	7.8	5.6	200	-	4.52	NP	0.00	166.51	161.99
01/19/91	2,000	59	1.6	5.1	110	-	4.39	NP	0.00	166.51	162.12
07/17/91	-	-	-	-	-	-	5.05	FILM	0.00	166.51	161.46
08/07/91	-	-	-	-	-	-	5.02	FILM	0.00	166.51	161.49
09/24/91	-	-	-	-	-	-	5.86	FILM	0.00	166.51	160.65
10/23/91	-	-	-	-	-	-	5.84	FILM	0.00	166.51	160.67
11/06/91	9,900	2,300	37	260	160	-	5.48	NP	0.00	166.51	161.03
12/04/91	4,500	1,000	27	ND	180	-	5.43	NP	0.00	166.51	161.08
01/29/92	600	6.1	2.3	ND	47	-	5.12	NP	0.00	166.51	161.39
02/26/92	500	5.4	2.7	1.2	14	-	4.93	NP	0.00	166.51	161.58
03/19/92	ND	1.7	1.1	ND	5.5	-	4.45	NP	0.00	166.51	162.06
04/22/92	1,600	240	2.2	ND	160	-	4.63	NP	0.00	166.51	161.88

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	LEAD (ppb)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MIBE (ug/L)					
05/21/92	1,200	410	37	ND	118	-	4.90	NP	0.00	166.51	161.61
06/25/92	ND	1.0	0.8	0.8	0.4	-	5.15	NP	0.00	166.51	161.36
07/30/92	ND	2.0	1.8	1.9	6.4	-	5.30	NP	0.00	166.51	161.21
08/20/92	300	1.7	3.3	0.7	12	-	5.44	NP	0.00	166.51	161.07
09/30/92	1,900	140	ND	19	35	-	5.73	NP	0.00	166.51	160.78
12/23/92	400	8.0	ND	ND	ND	-	4.75	NP	0.00	166.51	161.76
03/10/93	1,100	290	9.7	ND	75	-	4.14	NP	0.00	166.51	162.37
06/09/93	400	1.5	0.5	ND	12	-	5.42	NP	0.00	166.51	161.09
09/14/93	240	6.9	8.8	1.4	67	-	5.53	NP	0.00	166.51	160.98
12/14/93	3,300	510	5.4	4.1	55	-	478	NP	0.00	166.51	-311.49
03/02/94	2,400	270	4.5	<0.3	13	-	4.20	NP	0.00	166.51	162.31
06/06/94	730	<0.3	<0.3	0.70	22	-	5.13	NP	0.00	166.51	161.38
09/06/94	2,400	180	28	2.3	76	-	5.45	NP	0.00	166.51	161.06
12/07/94	540	5.6	<0.3	<0.5	6.9	-	4.13	NP	0.00	166.51	162.38
03/08/95	1,500	220	5.5	<0.5	83	-	5.20	NP	0.00	166.51	161.31
06/15/95	3,200	820	53	6.2	74	-	4.93	NP	0.00	166.51	161.58
09/05/95	4,400	440	22	<2.5	57	-	5.03	NP	0.00	166.51	161.48
11/21/95	660	3.4	<0.3	<0.3	0.6	-	5.23	NP	0.00	166.51	161.28
03/11/96	1,000	76	2.2	<0.3	130	-	4.16	NP	0.00	166.51	162.35
06/09/96	90	<0.3	<0.3	<0.3	<0.5	-	5.42	NP	0.00	166.51	161.09
09/16/96	1,900	5.8	<0.3	<0.3	5.9	1,100	5.20	NP	0.00	166.51	161.31
12/10/96	740	<0.3	<0.3	<0.3	<0.5	1,300	5.27	NP	0.00	166.51	161.24
03/12/97	2,000	600	59	5.1	54	1,300	3.85	NP	0.00	166.51	162.66
06/12/97	230	<0.3	<0.3	<0.3	<0.5	720	-	-	-	-	-
09/10/97	210	<0.3	<0.3	<0.3	<0.5	210	4.10	NP	0.00	166.51	162.41
12/09/97	11,000	2,500	2,700	<6	1,500	510	5.20	NP	0.00	166.51	161.31
03/03/98	<50	<0.3	<0.3	<0.3	<0.5	<20	3.70	NP	0.00	166.51	162.81
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	<5	6.77	NP	0.00	166.51	159.74
12/30/98	<50	<0.3	<0.3	<0.3	<0.5	<5	5.95	NP	0.00	166.51	160.56
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	5.25	NP	0.00	166.51	161.26
06/22/99	110	<0.3	<0.3	<0.3	<0.5	200	4.50	NP	0.00	166.51	162.01
09/08/99	68	<0.3	<0.3	<0.3	<0.5	110	4.43	NP	0.00	166.51	162.08
12/01/99	<50	<0.3	<0.3	<0.3	<0.5	<5	3.66	NP	0.00	166.51	162.85

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (ft)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	XYLENE (ug/L)	MIBK (ug/L)					
<b>MONITORING WELL #RE-6</b>											
04/11/88	6,000	3,000	40	80	140	-	-	-	-	-	-
04/09/90	3,000	990	ND	70	ND	-	5.64	NP	0.00	166.51	160.87
10/30/90	3,400	1,000	28	ND	ND	-	6.68	NP	0.00	166.51	159.83
01/18/91	6,300	1,200	ND	3.0	15	-	6.61	NP	0.00	166.51	159.90
02/12/91	5,200	850	8.4	4.9	41	-	6.20	NP	0.00	166.51	160.31
03/20/91	5,800	680	12	8.0	16	-	5.62	NP	0.00	166.51	160.89
05/22/91	8,500	1,700	14	24	6.7	-	6.05	NP	0.00	166.51	160.46
06/19/91	-	-	-	-	-	-	6.12	FILM	0.00	166.51	160.39
07/17/91	120,000	9,300	13,000	2,400	16,000	-	6.20	NP	0.00	166.51	160.31
08/07/91	-	590	5.3	ND	14	-	6.27	NP	0.00	166.51	160.24
09/24/91	7,000	310	11	5.3	35	-	6.63	NP	0.00	166.51	159.88
10/23/91	-	-	-	-	-	-	6.36	FILM	0.00	166.51	160.15
11/06/91	4,000	710	18	29	49	-	6.15	NP	0.00	166.51	160.36
12/04/91	4,100	1,100	14	33	39	-	6.19	NP	0.00	166.51	160.32
01/29/92	2,600	790	14	ND	49	-	6.70	NP	0.00	166.51	159.81
02/26/92	3,100	950	21	30	33	-	5.44	NP	0.00	166.51	161.07
03/19/92	2,200	630	14	12	40	-	5.30	NP	0.00	166.51	161.21
04/22/92	-	730	2.2	ND	40	-	6.00	NP	0.00	166.51	160.51
05/21/92	1,500	840	7.8	7.1	34	-	6.25	NP	0.00	166.51	160.26
06/25/92	<2000	740	8.0	27	28	-	6.38	NP	0.00	166.51	160.13
07/30/92	-	-	-	-	-	-	6.42	FILM	0.00	166.51	160.09
08/20/92	2,800	630	17	23	22	-	6.50	NP	0.00	166.51	160.01
09/30/92	7,800	540	ND	12	29	-	6.66	NP	0.00	166.51	159.85
12/23/92	1,800	350	ND	7.7	11	-	5.83	NP	0.00	166.51	160.68
03/10/93	3,000	830	5.6	19	16	-	5.63	NP	0.00	166.51	160.88
06/09/93	4,800	920	6.2	3.2	12	-	6.01	NP	0.00	166.51	160.50
09/14/93	3,600	660	7.5	11	27	-	6.53	NP	0.00	166.51	159.98
12/14/93	1,500	200	<0.3	<0.3	8.8	-	3.58	NP	0.00	166.51	162.93
03/02/94	-	-	-	-	-	-	5.12	NP	0.00	166.51	161.39
06/06/94	2,400	290	4.6	1.3	24	-	1.85	NP	0.00	166.51	164.66
09/06/94	4,300	230	21	<6.6	130	-	6.40	NP	0.00	166.51	160.11
12/07/94	1,500	17	2.5	3.2	22	-	5.68	NP	0.00	166.51	160.83
03/08/95	2,500	460	5.5	2.1	51	-	5.12	NP	0.00	166.51	161.39
06/15/95	2,300	91	1.1	0.7	97	-	5.72	NP	0.00	166.51	160.79

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #054, CASTRO VALLEY, 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)					
09/05/95	3,300	60	<10	<10	74	-	5.94	NP	0.00	166.51	160.57
11/21/95	2,000	7.3	<0.3	0.56	8.7	-	6.24	NP	0.00	166.51	160.27
03/11/96	840	43	0.96	5.7	14	-	5.16	NP	0.00	166.51	161.35
06/19/96	1,800	160	2.7	9.9	25	-	5.80	NP	0.00	166.51	160.71
09/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.38	NP	0.00	166.51	161.13
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.62	NP	0.00	166.51	160.89
03/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	5.20	NP	0.00	166.51	161.31
06/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	-	-	-	-	-
09/10/97	440	<0.3	<0.3	<0.3	<0.5	320	5.20	NP	0.00	166.51	161.31
12/09/97	<50	<0.3	<0.3	<0.3	<0.5	<20	5.97	NP	0.00	166.51	160.54
03/03/98	400	7.0	<0.3	<0.3	4.3	65	4.45	NP	0.00	166.51	162.06
07/08/98	300	<0.3	<0.3	<0.3	1.0	35	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	<5	5.90	NP	0.00	166.51	160.61
12/30/98	<50	<0.3	<0.3	<0.3	<0.5	<5	5.20	NP	0.00	166.51	161.31
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	8.4	4.82	NP	0.00	166.51	161.69
06/22/99	700	11	1.9	<0.3	3.9	140	6.00	NP	0.00	166.51	160.51
09/08/99	<50	<0.3	<0.3	<0.3	<0.5	<5	5.15	NP	0.00	166.51	161.36
12/01/99	<50	<0.3	<0.3	<0.3	<0.5	12	4.02	NP	0.00	166.51	162.49
<b>MONITORING WELLS AREA</b>											
04/11/88	<50,000	17,000	4,400	600	8,400	-	-	-	-	-	-
04/09/90	16,000	7,000	1,200	640	1,600	-	5.93	NP	0.00	166.04	160.11
10/30/90	31,000	14,000	ND	ND	ND	-	8.21	NP	0.00	166.04	157.83
01/18/91	-	-	-	-	-	-	11.80	NP	0.00	166.04	154.24
02/12/91	-	-	-	-	-	-	10.80	FILM	0.00	166.04	155.24
03/20/91	120,000	12,000	2,800	490	6,600	-	9.96	NP	0.00	166.04	156.08
05/22/91	-	-	-	-	-	-	11.70	FILM	0.00	166.04	154.34
06/19/91	-	-	-	-	-	-	11.50	FILM	0.00	166.04	154.54
07/17/91	-	-	-	-	-	-	7.80	FILM	0.00	166.04	158.24
08/07/91	-	-	-	-	-	-	9.88	0.03	9.85	166.04	163.60
09/24/91	-	-	-	-	-	-	9.85	0.03	9.82	166.04	163.60
10/23/91	-	-	-	-	-	-	9.96	FILM	0.00	166.04	156.08
11/06/91	-	-	-	-	-	-	6.77	FILM	0.00	166.04	159.27
12/04/91	-	-	-	-	-	-	10.80	FILM	0.00	166.04	155.24

**TABLE 1**  
**GROUNDWATER DATA**  
**THRIFTY OIL STATION #054, CASTRO VALLEY, CA.**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
01/29/92	-	-	-	-	-	-	8.64	FILM	0.00	166.04	157.40
02/26/92	-	-	-	-	-	-	6.00	FILM	0.00	166.04	160.04
03/19/92	-	-	-	-	-	-	5.55	FILM	0.00	166.04	160.49
04/22/92	-	-	-	-	-	-	6.12	FILM	0.00	166.04	159.92
05/21/92	-	-	-	-	-	-	6.40	FILM	0.00	166.04	159.64
06/25/92	-	-	-	-	-	-	6.73	0.02	6.71	166.04	164.38
07/30/92	-	-	-	-	-	-	6.73	FILM	0.00	166.04	159.31
08/20/92	-	-	-	-	-	-	6.82	FILM	0.00	166.04	159.22
09/30/92	-	-	-	-	-	-	7.26	FILM	0.00	166.04	158.78
12/23/92	-	-	-	-	-	-	6.22	FILM	0.00	166.04	159.82
03/10/93	-	-	-	-	-	-	5.82	FILM	0.00	166.04	160.22
06/09/93	-	-	-	-	-	-	6.17	FILM	0.00	166.04	159.87
09/14/93	-	-	-	-	-	-	11.33	NP	0.00	166.04	154.71
12/14/93	-	-	-	-	-	-	8.40	NP	0.00	166.04	157.64
03/02/94	-	-	-	-	-	-	6.82	NP	0.00	166.04	159.22
06/06/94	-	-	-	-	-	-	10.95	FILM	0.00	166.04	155.09
09/06/94	-	-	-	-	-	-	11.30	FILM	0.00	166.04	154.74
12/07/94	-	-	-	-	-	-	5.63	FILM	0.00	166.04	160.41
03/08/95	-	-	-	-	-	-	5.06	FILM	0.00	166.04	160.98
06/15/95	-	-	-	-	-	-	-	-	-	-	-
09/05/95	-	-	-	-	-	-	7.98	FILM	0.00	166.04	158.06
11/21/95	20,000	8,800	110	<30	310	-	7.32	NP	0.00	166.04	158.72
03/11/96	4,800	2,200	38	26	120	-	5.62	NP	0.00	166.04	160.42
06/19/96	4,400	3,300	49	5.8	70	-	6.40	NP	0.00	166.04	159.64
09/19/96	7,200	510	83	<0.3	710	130	6.20	NP	0.00	166.04	159.84
12/10/96	700	<0.3	<0.3	<0.3	<0.5	1,400	5.92	NP	0.00	166.04	160.12
03/12/97	660	0.31	<0.3	<0.3	<0.5	1,400	5.62	NP	0.00	166.04	160.42
06/12/97	320	<0.3	0.45	<0.3	<0.5	850	-	-	-	-	-
09/10/97	780	<0.3	<0.3	<0.3	<0.5	930	7.45	NP	0.00	166.04	158.59
12/09/97	14,000	3,500	3,700	<15	2,100	1,100	7.10	NP	0.00	166.04	158.94
03/03/98	6,100	2,500	18	<6	110	270	6.70	NP	0.00	166.04	159.34
07/08/98	1,300	8.7	<0.3	<0.3	<0.5	350	-	-	-	-	-
09/10/98	690	2.2	<0.3	<0.3	<0.5	350	7.04	NP	0.00	166.04	159.00
12/30/98	600	2.0	0.55	<0.3	<0.5	350	6.25	NP	0.00	166.04	159.79
03/15/99	350	0.71	<0.3	<0.3	<0.5	140	6.02	NP	0.00	166.04	160.02

**TABLE 1**  
**GROUNDWATER DATA**  
**THRIFTY OIL STATION #054, CASTRO VALLEY, 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)					
06/22/99	5,900	2,100	16	4.6	48	170	6.35	NP	0.00	166.04	159.69
09/08/99	1,700	380	<3	<3	13	160	7.03	NP	0.00	166.04	159.01
12/01/99	930	3.7	<0.3	<0.3	<0.5	390	6.25	NP	0.00	166.04	159.79
<b>MONITORING WELL IRS-3</b>											
08/07/91	ND	ND	ND	ND	ND	-	9.68	NP	0.00	164.32	154.64
09/27/91	ND	ND	ND	ND	ND	-	9.89	NP	0.00	164.32	154.43
10/23/91	ND	ND	ND	ND	ND	-	10.05	NP	0.00	164.32	154.27
11/06/91	ND	ND	ND	ND	ND	-	9.71	NP	0.00	164.32	154.61
12/04/91	ND	ND	ND	ND	ND	-	10.00	NP	0.00	164.32	154.32
01/29/92	ND	2.1	1.0	2.5	3.6	-	9.28	NP	0.00	164.32	155.04
02/26/92	ND	ND	0.7	ND	0.7	-	7.05	NP	0.00	164.32	157.27
03/19/92	ND	0.5	1.0	1.5	2.7	-	7.30	NP	0.00	164.32	157.02
04/22/92	ND	ND	ND	ND	ND	-	8.60	NP	0.00	164.32	155.72
05/21/92	ND	ND	ND	ND	ND	-	9.22	NP	0.00	164.32	155.10
06/25/92	ND	ND	ND	ND	ND	-	9.49	NP	0.00	164.32	154.83
07/30/92	ND	1.1	4.2	ND	3.0	-	9.55	NP	0.00	164.32	154.77
08/20/92	ND	2.0	4.7	ND	5.7	-	9.63	NP	0.00	164.32	154.69
09/30/92	ND	ND	ND	ND	ND	-	9.90	NP	0.00	164.32	154.42
12/23/92	ND	ND	ND	ND	ND	-	9.96	NP	0.00	164.32	154.36
05/10/93	ND	ND	ND	ND	ND	-	8.95	NP	0.00	164.32	155.37
06/09/93	ND	ND	ND	ND	ND	-	9.00	NP	0.00	164.32	155.32
09/14/93	200	0.3	ND	ND	ND	-	9.50	NP	0.00	164.32	154.82
12/14/93	ND	ND	ND	ND	ND	-	8.75	NP	0.00	164.32	155.57
03/02/94	<50	<0.3	<0.3	<0.3	<0.5	-	7.52	NP	0.00	164.32	156.80
06/06/94	54	<0.3	<0.3	<0.3	2.4	-	9.00	NP	0.00	164.32	155.32
09/06/94	<50	<0.3	<0.3	<0.3	<0.5	-	9.26	NP	0.00	164.32	155.06
12/07/94	130	2.5	1.9	1.3	3.6	-	8.67	NP	0.00	164.32	155.65
03/08/95	<100	<0.5	<0.5	<0.5	<1	-	8.34	NP	0.00	164.32	155.98
06/15/95	<100	1.0	<0.5	<0.5	<1	-	9.12	NP	0.00	164.32	155.20
09/05/95	<100	<0.5	<0.5	<0.5	<1	-	9.56	NP	0.00	164.32	154.76
11/21/95	<50	0.44	<0.3	<0.3	1.5	-	9.28	NP	0.00	164.32	155.04
03/11/96	<50	1.3	<0.3	<0.3	0.6	-	7.52	NP	0.00	164.32	156.80
06/19/96	640	72	20	34	150	-	7.80	NP	0.00	164.32	156.52



**TABLE 1**  
**GROUNDWATER DATA**  
**THRIFTY OIL STATION #054, CASTRO VALLEY, CA.**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (ft)	DEPTH TO PRODUCT (ft)	PRODUCT THICKNESS (ft)	CASING ELEVATION (ft)	GROUNDWATER ELEVATION (ft)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL Benzene (ug/L)	XYLENE (ug/L)	MIBK (ug/L)					
09/16/96	<50	<0.3	<0.3	<0.3	<0.5	20	9.18	NP	0.00	164.32	155.14
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.08	NP	0.00	164.32	158.24
03/12/97	53	0.45	<0.3	<0.3	<0.5	140	8.65	NP	0.00	164.32	155.67
06/12/97	<50	<0.3	<0.3	<0.3	<0.5	68	-	-	-	-	-
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<20	8.30	NP	0.00	164.32	156.02
12/09/97	<50	1.7	2.1	<0.3	1.4	82	9.98	NP	0.00	164.32	154.34
03/03/98	<50	<0.3	<0.3	<0.3	<0.5	84	8.33	NP	0.00	164.32	155.99
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	97	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	97	12.95	NP	0.00	164.32	151.37
12/30/98	<50	1.3	1.5	<0.3	0.86	19	11.35	NP	0.00	164.32	152.97
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	9.6	9.85	NP	0.00	164.32	154.47
06/22/99	66	0.39	<0.3	<0.3	<0.5	62	9.90	NP	0.00	164.32	154.42
09/08/99	<50	<0.3	<0.3	<0.3	<0.5	25	9.85	NP	0.00	164.32	154.47
12/01/99	<50	<0.3	<0.3	<0.3	<0.5	30	8.30	NP	0.00	164.32	156.02
<b>MONITORING WELL #RS-9</b>											
08/07/91	-	0.5	ND	330	1,200	-	2.28	NP	0.00	167.51	165.23
09/27/91	13,000	3.5	3.0	82	140	-	2.77	NP	0.00	167.51	164.74
10/23/91	11,000	ND	ND	39	340	-	3.53	NP	0.00	167.51	163.98
11/06/91	6,800	8.4	0.6	22	230	-	2.51	NP	0.00	167.51	165.00
12/04/91	6,500	6.5	0.7	87	200	-	3.20	NP	0.00	167.51	164.31
01/29/92	8,100	22	10	140	260	-	2.65	NP	0.00	167.51	164.86
02/26/92	13,000	40	16	220	600	-	3.42	NP	0.00	167.51	164.09
03/19/92	12,000	21	12	100	280	-	3.12	NP	0.00	167.51	164.39
04/22/92	8,600	ND	ND	20	37	-	3.24	NP	0.00	167.51	164.27
05/21/92	6,000	21	10	53	210	-	3.75	NP	0.00	167.51	163.76
06/25/92	370	2.3	1.5	0.7	4.3	-	2.65	NP	0.00	167.51	164.86
07/30/92	3,600	20	ND	39	80	-	2.70	NP	0.00	167.51	164.81
08/20/92	3,000	0.7	5.2	2.0	5.3	-	2.83	NP	0.00	167.51	164.68
09/30/92	9,200	4.8	6.5	12	91	-	2.80	NP	0.00	167.51	164.71
12/23/92	2,000	17	ND	8.2	18	-	2.45	NP	0.00	167.51	165.06
03/10/93	1,500	ND	2.6	21	12	-	2.40	NP	0.00	167.51	165.11
06/09/93	1,300	0.6	1.7	ND	7.5	-	3.55	NP	0.00	167.51	163.96
09/14/93	1,500	1.3	7.6	4.1	14	-	2.81	NP	0.00	167.51	164.70

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (ft)	DEPTH TO PRODUCT (ft)	PRODUCT THICKNESS (ft)	CASING ELEVATION (ft)	GROUNDWATER ELEVATION (ft)
	TUO (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	Dibenzene (ug/L)	XYLENE (ug/L)	MUO (ug/L)					
12/14/93	560	ND	ND	ND	5.5	-	2.63	NP	0.00	167.51	164.88
03/02/94	1,100	<0.3	<0.3	<0.3	<0.5	-	2.60	NP	0.00	167.51	164.91
06/06/94	290	0.58	0.53	1.1	5.8	-	2.52	NP	0.00	167.51	164.99
09/06/94	890	<0.3	<0.3	<0.3	3.1	-	3.16	NP	0.00	167.51	164.35
12/07/94	940	22	23	10	32	-	5.18	NP	0.00	167.51	162.33
03/08/95	1,600	<0.5	<0.5	<0.5	2.3	-	4.57	NP	0.00	167.51	162.94
06/15/95	3,200	2.2	5.3	4.3	3.1	-	5.08	NP	0.00	167.51	162.43
09/05/95	1,100	<0.5	<0.5	<0.5	<1	-	5.72	NP	0.00	167.51	161.79
11/21/95	1,100	1.1	2.9	3.5	3.0	-	2.46	NP	0.00	167.51	165.05
03/11/96	440	0.7	0.34	<0.3	3.7	-	3.44	NP	0.00	167.51	164.07
06/19/96	580	3.8	0.49	1.2	<0.5	-	3.80	NP	0.00	167.51	163.71
09/16/96	490	<0.3	1.6	<0.3	<0.5	<20	3.80	NP	0.00	167.51	163.71
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	2.76	NP	0.00	167.51	164.75
03/12/97	<50	<0.3	0.42	<0.3	1.5	<20	3.20	NP	0.00	167.51	164.31
06/12/97	<50	<0.3	<0.3	<0.3	0.51	<20	-	-	-	-	-
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<20	4.24	NP	0.00	167.51	163.27
12/09/97	<50	<0.3	0.48	<0.3	<0.5	<20	2.72	NP	0.00	167.51	164.79
03/03/98	190	<0.3	<0.3	0.38	<0.5	<20	1.90	NP	0.00	167.51	165.61
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	<5	2.72	NP	0.00	167.51	164.79
12/30/98	<50	<0.3	<0.3	<0.3	<0.5	<5	1.20	NP	0.00	167.51	166.31
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	4.25	NP	0.00	167.51	163.26
06/22/99	1,300	4.2	1.2	0.69	0.74	<5	3.70	NP	0.00	167.51	163.81
09/08/99	<50	<0.3	<0.3	<0.3	<0.5	<5	2.71	NP	0.00	167.51	164.80
12/01/99	<50	<0.3	<0.3	<0.3	<0.5	<5	2.70	NP	0.00	167.51	164.81
<b>MONITORING WELLS PWS-10</b>											
08/07/91	ND	ND	ND	ND	ND	-	6.16	NP	0.00	162.89	156.73
09/27/91	ND	ND	ND	ND	ND	-	6.48	NP	0.00	162.89	156.41
10/23/91	ND	ND	ND	ND	ND	-	7.37	NP	0.00	162.89	155.52
11/06/91	ND	ND	ND	ND	ND	-	6.44	NP	0.00	162.89	156.45
12/04/91	ND	ND	ND	ND	ND	-	7.02	NP	0.00	162.89	155.87
01/29/92	ND	ND	ND	ND	ND	-	6.78	NP	0.00	162.89	156.11
02/26/92	ND	ND	ND	ND	ND	-	8.33	NP	0.00	162.89	154.56

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	CHL (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
03/19/92	ND	ND	ND	ND	0.6	-	8.02	NP	0.00	162.89	154.87
04/22/92	ND	ND	ND	ND	ND	-	7.78	NP	0.00	162.89	155.11
05/21/92	ND	ND	0.6	ND	1.2	-	6.21	NP	0.00	162.89	156.68
06/25/92	ND	ND	ND	ND	ND	-	7.73	NP	0.00	162.89	155.16
07/30/92	ND	ND	0.5	ND	1.0	-	7.84	NP	0.00	162.89	155.05
08/20/92	ND	ND	ND	ND	ND	-	7.50	NP	0.00	162.89	155.39
09/30/92	ND	ND	ND	ND	ND	-	7.63	NP	0.00	162.89	155.26
12/23/92	ND	ND	ND	ND	ND	-	7.24	NP	0.00	162.89	155.65
03/10/93	ND	ND	ND	ND	ND	-	6.38	NP	0.00	162.89	156.51
06/09/93	ND	ND	ND	ND	ND	-	7.98	NP	0.00	162.89	154.91
09/14/93	ND	ND	ND	ND	ND	-	7.35	NP	0.00	162.89	155.54
03/02/94	<50	<0.3	<0.3	<0.3	<0.3	-	7.00	NP	0.00	162.89	155.89
06/06/94	<50	<0.3	<0.3	<0.3	<0.5	-	6.55	NP	0.00	162.89	156.34
09/06/94	<50	<0.3	<0.3	<0.3	<0.5	-	7.63	NP	0.00	162.89	155.26
12/07/94	56	<0.3	<0.3	<0.5	2.1	-	5.92	NP	0.00	162.89	156.97
03/08/95	<100	<0.5	<0.5	<0.5	<1	-	7.84	NP	0.00	162.89	155.05
06/15/95	<100	<0.5	<0.5	<0.5	<1	-	6.97	NP	0.00	162.89	155.92
09/05/95	<100	<0.5	<0.5	<0.5	<1	-	8.14	NP	0.00	162.89	154.75
11/21/95	<50	<0.3	<0.3	<0.3	<0.5	-	7.68	NP	0.00	162.89	155.21
03/11/96	<50	<0.3	<0.3	<0.3	<0.5	-	6.76	NP	0.00	162.89	156.13
06/19/96	<50	<0.3	<0.3	<0.3	<0.5	-	7.20	NP	0.00	162.89	155.69
09/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.30	NP	0.00	162.89	156.59
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.05	NP	0.00	162.89	156.84
03/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	7.56	NP	0.00	162.89	155.33
06/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	-	-	-	-	-
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<20	7.55	NP	0.00	162.89	155.34
12/09/97	1,900	610	510	<6	290	<20	7.55	NP	0.00	162.89	155.34
03/03/98	<50	2.0	<0.3	<0.3	<0.5	27	6.03	NP	0.00	162.89	156.86
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	72	7.55	NP	0.00	162.89	155.34
12/30/98	<50	1.1	<0.3	<0.3	<0.5	<5	4.45	NP	0.00	162.89	158.44
03/15/99	<50	<0.3	<0.3	<0.3	1.3	<5	4.50	NP	0.00	162.89	158.39
06/22/99	<50	<0.3	<0.3	<0.3	<0.5	<5	9.15	NP	0.00	162.89	153.74
09/08/99	<50	<0.3	<0.3	<0.3	<0.5	<5	7.51	NP	0.00	162.89	155.38
12/01/99	<50	<0.3	<0.3	<0.3	<0.5	<5	5.97	NP	0.00	162.89	156.92

**TABLE 1  
GROUNDWATER DATA  
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
<b>MONITORING WELLS 11</b>											
09/21/95	110	<0.5	<0.5	<0.5	<1	-	9.37	NP	0.00	163.28	153.91
11/21/95	-	-	-	-	-	-	-	-	-	-	-
03/11/96	-	-	-	-	-	-	-	-	-	-	-
06/19/96	-	-	-	-	-	-	-	-	-	-	-
09/16/96	-	-	-	-	-	-	-	-	-	-	-
03/12/97	74	9.5	<0.3	<0.3	0.57	<20	7.75	NP	0.00	163.28	155.53
06/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	-	-	-	-	-
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<20	9.50	NP	0.00	163.28	153.78
12/09/97	<50	0.79	1.2	<0.3	<0.5	<20	9.50	NP	0.00	163.28	153.78
03/03/98	140	22	0.63	<0.3	<0.5	<20	7.93	NP	0.00	163.28	155.35
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	<5	9.48	NP	0.00	163.28	153.80
12/30/98	<50	1.3	0.87	<0.3	0.55	<5	7.95	NP	0.00	163.28	155.33
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	6.40	NP	0.00	163.28	156.88
06/22/99	350	89	2.9	3.3	0.91	6.8	11.00	NP	0.00	163.28	152.28
09/08/99	99	9.1	0.37	<0.3	<0.5	<5	7.90	NP	0.00	163.28	155.38
12/01/99	82	9.7	0.44	<0.3	<0.5	<5	7.90	NP	0.00	163.28	155.38

**NOTE:** ND = Nondetectable  
 " - " = Not Analyzed / Not Available  
 NP = No Free Product

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

**TABLE 2**  
**Vapor Extraction Operating Data**  
**Thrifty Oil Station # 054, CASTRO VALLEY, CA**

Date	Duration (hrs)	Inlet		Hydrocarbons Removed		Remark
		Average Flow (cfm)	Average PID Conc. (ppmV)	Period (lbs)	Cumulative (lbs)	
Jan-91	0	30	est. 10,000	0.0	0	
Feb-91	50	30	est. 10,000	204.2	204	
Mar-91	49	5	est. 10,000	33.4	238	System off 4/91 - 9/91
Oct-91	758	15	est. 10,000	1,548.0	1,786	
Nov-91	3	14	est. 10,000	5.7	1,791	
Dec-91	107	14	est. 10,000	203.9	1,995	
Jan-92	129	14	est. 10,000	245.9	2,241	
Feb-92	268	14	est. 10,000	510.8	2,752	System off 3/92 - 7/92
Aug-93	0	18	est. 10,000	0.0	2,752	
Sep-93	153	17	est. 10,000	354.1	3,106	
Oct-93	514	18	est. 10,000	1,259.6	4,366	
Nov-93	421	18	est. 10,000	1,031.7	5,397	
Dec-93	324	18	est. 10,000	794.0	6,191	
Jan-94	608	18	est. 10,000	1,490.0	7,681	
Feb-94	536	17	10,000	1,240.6	8,922	
Mar-94	347	20	10,000	944.9	9,867	
Apr-94	401	16	10,000	873.5	10,740	
May-94	406	17	est. 10,000	939.7	11,680	
Jun-94	511	16	10,000	1,113.1	12,793	
Jul-94	165	15	10,000	337.0	13,130	
Aug-94	56	16	est. 10,000	122.0	13,252	
Sep-94	605	16	est. 10,000	1,317.9	14,570	
Oct-94	214	15	est. 10,000	437.0	15,007	
Dec-94	102	15	est. 10,000	208.3	15,215	
Jan-95	86	12	est. 10,000	140.5	15,356	
Feb-95	130	13	est. 10,000	230.1	15,586	
Mar-95	104	15	est. 10,000	212.4	15,798	
Apr-95	33	8	est. 10,000	35.9	15,834	
May-95	396	16	est. 10,000	862.6	16,697	
Jun-95	31	16	est. 10,000	67.5	16,765	
Jul-95	398	16	est. 10,000	867.0	17,632	
Aug-95	76	16	10,000	165.6	17,797	
Sep-95	158	16	est. 10,000	344.2	18,141	
Oct-95	95	14	10,000	181.1	18,322	
Nov-95	31	16	est. 10,000	67.5	18,390	
Jan-96	47	9	est. 10,000	57.6	18,447	Replaced hour meter (8930)
Feb-96	14	8	est. 10,000	15.2	18,463	System off 2/96 - 4/96
Apr-96	93	8	210	2.1	18,465	
May-96	40	12	220	1.4	18,466	
Jun-96	155	9	1,000	19.0	18,485	
Jul-96	91	17	420	8.8	18,494	
Aug-96	21	9	340	0.9	18,495	
Sep-96	330	17	est. 340	26.0	18,521	
Oct-96	52	7	est. 340	1.7	18,523	
Dec-96	3	8	est. 340	0.1	18,523	System off 10/96 - 12/96
Apr-97	36	15	10,000	73.5	18,596	System off 1/97 - 4/97
May-97	220	15	9,800	440.3	19,037	
Jun-97	631	11	est. 9,000	850.5	19,887	
Jul-97	49	12	est. 9,000	72.0	19,959	
Aug-97	238	12	est. 9,000	350.0	20,309	

**TABLE 2**  
**Vapor Extraction Operating Data**  
**Thrifty Oil Station # 054, CASTRO VALLEY, CA**

Date	Duration (hrs)	Inlet		Hydrocarbons Removed		Remark
		Average Flow (cfm)	Average PID Conc. (ppmV)	Period (lbs)	Cumulative (lbs)	
Sep-97	186	16	est. 9,000	364.7	20,674	
Oct-97	184	12	est. 9,000	270.6	20,944	
Nov-97	132	17	est. 9,000	275.0	21,219	
Dec-97	58	19	9,000	135.0	21,354	
Jan-98	274	17	10,000	634.2	21,988	
Feb-98	396	16	10,000	862.6	22,851	
Mar-98	831	17	10,000	1,923.4	24,774	
Apr-98	49	17	est. 10,000	113.4	24,888	
May-98	251	16	10,000	546.8	25,435	
Jun-98	347	17	10,000	803.1	26,238	
Jul-98	682	16	est. 10,000	1,485.6	27,723	
Sep-98	202	12	est. 10,000	330.0	28,053	
Nov-98	188	12	est. 10,000	307.1	28,361	
Dec-98	394	11	est. 10,000	590.1	28,951	
Feb-99	991	10	2,800	377.8	29,328	
Mar-99	583	13	210	21.7	29,350	
Apr-99	311	13	est. 210	11.6	29,362	
May-99	89	10	est. 210	2.5	29,364	
Jun-99	995	10	4,100	555.4	29,920	
Jul-99	70	10	est. 4,000	38.1	29,958	
Aug-99	33	11	est. 4,000	19.8	29,978	
Sep-99	122	12	est. 4,000	79.7	30,057	
Oct-99	30	13	est. 4,000	21.2	30,078	
Nov-99	269	12	est. 4,000	175.8	30,254	
Dec-99	479	12	210	16.4	30,271	

Note: The "duration" is derived from subtracting the hour meter from a representative day of the month by the hour meter from a representative day of the previous month. Some months may have more than 30 days.

**TABLE 3**  
**Laboratory Analytical Results of Inlet Vapor Samples**  
**Thrifty Oil Co. Station # 054, CASTRO VALLEY, CA**

Date	Analyses Results of Inlet Vapor Concentrations					
	TPH (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MIBE (ppmv)
5/15/97	-	0.36*	-	-	-	-
7/17/97	-	<0.1*	-	-	-	-
5/5/99	<5	<0.1	0.13	<0.1	<0.1	<1
8/24/99	53	1.4	8.1	2.5	14	<1
8/30/99	<5	<0.1	0.23	0.12	0.77	1.6
9/14/99	2,200	11	36	11	55	9.9
10/25/99	<5	<0.1	0.11	<0.1	0.44	<1
12/21/99	190	5.7	0.64	0.15	1.8	39

NOTE:           \*Unit of measure = ug, by NIOSH 1501 (Benzene)  
                   "- " = not analyzed

# **APPENDIX A**





THRIFTY OIL CO. SS #054  
 2504 CASTRO VALLEY BLVD.  
 CASTRO VALLEY, CA 94546  
 DATE: 12-01-1999

PROJECT STATUS REPORT

FREQ.	MONITORING				ODORS			FREE		WELLS CONNECTED TO SYSTEM (W)							
	OBSERVATION WELLS				(S=SLIGHT)			PRODUCT		CONNECT		INTEGRITY		VAPOR		WATER	
	NO.	DTW	DTP	PT	YES	NO	S	YES	NO	YES	NO	OK	NO	ON	OFF	ON	OFF
M	PW-1	3.64				X			X		X	-					
M	PW-2	3.62				X			X		X	-					
M	RE-1	4.08				X			X		X	-	X		X		
M	RE-2	3.58				X			X		X	-					
M	RE-3	2.63				X			X		X	-	X		X		
M	RE-4	5.34				X			X		X	-					
M	RE-5	3.66				X			X		X	-					
M	RE-6	4.02				X			X		X	-	X		X		
M	RE-7	6.25				X			X		X	-	X		X		
M	RS-8	8.30				X			X		-	X					
M	RS-9	2.70				X			X		-	X					
M	RS-10	5.97				X			X		X						
M	RS-11	7.90				X			X		X						

SAVE SYSTEM WEEKLY

PARAMETER	U/M	DATA	PARAMETER	U/M	DATA
TIME	AM/PM		AIR FLOW	C F M	
WORKING	YES/NO		VAPOR FLOW	C F M	
RESTARTED	YES/NO		FUEL FLOW	C F M/H	
HOURS	#		WELL VACUUM	IN H2O	
ENGINE ROT.	RPM		L P G TANKS	%	#1:
ENGINE VACUUM	IN HG		GAS METER READING	-	N/A
TANK VACUUM	IN HG		WATER FLOWMETER	GALL.	

EXHAUST (By others) \_\_\_\_\_

INLET TO ENGINE \_\_\_\_\_

MAINTENANCE ES/100/400/800 \_\_\_\_\_ FOR SPECIFIC OPERATIONS SEE FIELD RECORD

WATER SAMPLING - CHECK (✓) WHEN DONE

EFFLUENT	INFLUENT	WELLS
( ) _____	( ) _____	(✓) Q. - SEE C. CUST.

REMARKS: Q.W.S -

FREE PRODUCT REMOVED: APPROX. \_\_\_\_\_ GALLONS WATER REMOVED: APPROX. 300 GALLONS

DATA RECORDED BY: [Signature] INPUT BY: AJB 02/05/97

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>25 054</u>	Date: <u>12-01-99</u>
Address: _____	
Personnel: <u>BERDON</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>PW-1</u>	Equip: <u>BAILER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>13.97</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>3.64</u>	Est. Purge Volume:	<u>27</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	10:16	10:20	10:24	10:28	10:32	10:36	10:40
EC	1370	1380	1350	1360	1300	1290	1290
pH	5.61	5.63	5.61	5.58	5.60	5.57	5.53
Temp	72.6	71.8	71.6	71.4	71.1	71.3	71.1
Gal.	3	7	11	15	19	23	27
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	<u>2.72</u> Total Well Depth(ft.) <u>13.97</u>

## FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>054</u>	Date: <u>12-01-99</u>
Address: _____	
Personnel: <u>DEBOK</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>PW-2</u>	Equip: <u>BATLER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>14.32</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>3.62</u>	Est. Purge Volume:	<u>28</u>

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	<u>9:46</u>	<u>9:50</u>	<u>9:54</u>	<u>9:58</u>	<u>10:02</u>	<u>10:06</u>	<u>10:10</u>
EC	<u>1870</u>	<u>1860</u>	<u>1890</u>	<u>1870</u>	<u>1860</u>	<u>1830</u>	<u>1910</u>
pH	<u>5.52</u>	<u>5.44</u>	<u>5.46</u>	<u>5.47</u>	<u>5.44</u>	<u>5.41</u>	<u>5.43</u>
Temp	<u>73.6</u>	<u>73.4</u>	<u>73.1</u>	<u>72.9</u>	<u>72.8</u>	<u>72.6</u>	<u>72.4</u>
Gal.	<u>4</u>	<u>8</u>	<u>12</u>	<u>16</u>	<u>20</u>	<u>24</u>	<u>28</u>
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	<u>2.82</u>
Total Well Depth(ft.)	<u>14.32</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>054</u>	Date: <u>12-01-99</u>
Address: _____	
Personnel: <u>GERBANK</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>RE-1</u>	Equip: <u>RAIVER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>19.00</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>4.08</u>	Est. Purge Volume:	<u>39</u>

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	<u>14:41</u>	<u>14:47</u>	<u>14:52</u>	<u>14:58</u>	<u>13:03</u>	<u>13:09</u>	<u>13:15</u>
EC	<u>1220</u>	<u>1170</u>	<u>1120</u>	<u>1120</u>	<u>1140</u>	<u>1120</u>	<u>1110</u>
pH	<u>5.51</u>	<u>5.53</u>	<u>5.51</u>	<u>5.48</u>	<u>5.40</u>	<u>5.45</u>	<u>5.41</u>
Temp	<u>72.3</u>	<u>71.9</u>	<u>71.7</u>	<u>71.4</u>	<u>71.5</u>	<u>71.3</u>	<u>71.7</u>
Gal.	<u>5</u>	<u>11</u>	<u>16</u>	<u>22</u>	<u>27</u>	<u>33</u>	<u>39</u>
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.) <u>3.64</u>	Total Well Depth(ft.) <u>19.00</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	<u>03 054</u>	Date:	<u>12-01-99</u>
Address:			
Personnel:	<u>SERBAN</u>	Weather:	<u>SUNNY DAY</u>
Well No:	<u>RE-2</u>	Equip:	<u>BATLER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>16.96</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>3.58</u>	Est. Purge Volume:	<u>35</u>

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	<u>11:20</u>	<u>11:25</u>	<u>11:30</u>	<u>11:35</u>	<u>11:40</u>	<u>11:45</u>	<u>11:50</u>
EC	<u>1870</u>	<u>1890</u>	<u>1960</u>	<u>1930</u>	<u>1920</u>	<u>1840</u>	<u>1810</u>
pH	<u>5.46</u>	<u>5.47</u>	<u>5.49</u>	<u>5.46</u>	<u>5.44</u>	<u>5.46</u>	<u>5.46</u>
Temp	<u>72.1</u>	<u>72.0</u>	<u>72.2</u>	<u>71.8</u>	<u>71.6</u>	<u>71.3</u>	<u>71.5</u>
Gal.	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>			
Depth to Water (ft.)	<u>2.48</u>	Total Well Depth(ft).	<u>16.96</u>

**FIELD DATA -GROUNDWATER SAMPLING PROGRAM**

Site:	054	Date:	12-01-99
Address:			
Personnel:	BERNIX	Weather:	SUNNY DAY
Well No:	RE-3	Equip:	BAILER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	17.55	Well Diameter	4"
Depth to Water (ft)	2.63	Est. Purge Volume:	39

<b>Sampling Data:</b>							
<b>Initial Turbidity:</b>				<b>Final Turbidity:</b>			
Time	14:06	14:12	14:17	14:23	14:28	14:34	14:40
EC	1450	1410	1400	1390	1360	1330	1310
pH	5.52	5.52	5.49	5.47	5.44	5.42	5.42
Temp	73.4	73.1	72.9	72.7	72.6	71.9	71.7
Gal.	5	11	16	22	27	33	39
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	1.82
Total Well Depth(ft.)	17.55

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>    054    </u>	Date: <u>    12-01-99    </u>
Address: _____	
Personnel: <u>    BERBOW    </u>	Weather: <u>    SUNNY DAY    </u>
Well No: <u>    RE-4    </u>	Equip: <u>    BAILED    </u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>    14.52    </u>	Well Diameter	<u>    4"    </u>
Depth to Water (ft)	<u>    5.34    </u>	Est. Purge Volume:	<u>    24    </u>

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	<u>13:39</u>	<u>13:42</u>	<u>13:46</u>	<u>13:49</u>	<u>13:53</u>	<u>13:56</u>	<u>14:00</u>
EC	<u>1300</u>	<u>1360</u>	<u>1350</u>	<u>1370</u>	<u>1350</u>	<u>1340</u>	<u>1360</u>
pH	<u>5.65</u>	<u>5.67</u>	<u>5.65</u>	<u>5.66</u>	<u>5.63</u>	<u>5.63</u>	<u>5.65</u>
Temp	<u>72.8</u>	<u>72.5</u>	<u>72.3</u>	<u>71.8</u>	<u>71.6</u>	<u>71.3</u>	<u>71.1</u>
Gal.	<u>3</u>	<u>6</u>	<u>10</u>	<u>13</u>	<u>17</u>	<u>20</u>	<u>24</u>
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	<u>    4.14    </u>
Total Well Depth(ft.)	<u>    14.52    </u>

**FIELD DATA -GROUNDWATER SAMPLING PROGRAM**

Site: <u>SD 054</u>	Date: <u>12-01-99</u>
Address: _____	
Personnel: <u>BERBOM</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>RE-5</u>	Equip: <u>BAITER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>18.21</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>3.66</u>	Est. Purge Volume:	<u>38</u>

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	<u>11:57</u>	<u>12:02</u>	<u>12:08</u>	<u>12:13</u>	<u>12:19</u>	<u>12:24</u>	<u>12:30</u>
EC	<u>1450</u>	<u>1410</u>	<u>1400</u>	<u>1400</u>	<u>1420</u>	<u>1400</u>	<u>1390</u>
pH	<u>5.52</u>	<u>5.53</u>	<u>5.50</u>	<u>5.48</u>	<u>5.46</u>	<u>5.44</u>	<u>5.41</u>
Temp	<u>73.4</u>	<u>73.1</u>	<u>72.8</u>	<u>72.6</u>	<u>72.3</u>	<u>72.1</u>	<u>71.9</u>
Gal.	<u>5</u>	<u>10</u>	<u>16</u>	<u>21</u>	<u>27</u>	<u>32</u>	<u>38</u>
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	Total Well Depth(ft.)
<u>2.62</u>	<u>18.21</u>



FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	30 054	Date:	12-01-99
Address:			
Personnel:	BERBATH	Weather:	SUNNY DAY
Well No:	RE-6	Equip:	BAUER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	13.58	Well Diameter	4"
Depth to Water (ft)	4.02	Est. Purge Volume:	25

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	10:48	10:52	10:55	10:59	11:02	11:06	11:10
EC	1110	1010	1020	1040	1010	1020	1010
pH	5.28	5.24	5.26	5.23	5.18	5.25	5.17
Temp	22.3	21.9	21.7	21.4	21.3	21.1	20.8
Gal.	3	7	10	14	17	21	25
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	3.64
Total Well Depth(ft.)	13.58

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>054</u>	Date: <u>12-01-99</u>
Address: _____	
Personnel: <u>BERBAH</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>RE-7</u>	Equip: <u>BAILER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>13.14</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>6.25</u>	Est. Purge Volume:	<u>18</u>

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	9:24	9:27	9:29	9:32	9:34	9:37	9:40
EC	1760	1760	1730	1710	1740	1710	1690
pH	5.51	5.53	5.51	5.51	5.49	5.43	5.46
Temp	72.3	72.7	72.1	71.9	71.7	71.5	71.3
Gal.	2	5	7	10	12	15	18
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	<u>4.36</u> Total Well Depth(ft.) <u>13.14</u>

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site: <u>054</u>	Date: <u>12-01-1998</u>
Address: _____	
Personnel: <u>BERBOM</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>RS-8</u>	Equip: <u>BITICER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>25.17</u>	Well Diameter	<u>2"</u>
Depth to Water (ft)	<u>8.30</u>	Est. Purge Volume:	<u>11</u>

<b>Sampling Data:</b>							
	<b>Initial Turbidity:</b>			<b>Final Turbidity:</b>			
Time	9:10	9:12	9:13	9:15	9:16	9:18	9:20
EC	1850	1850	1770	1760	1780	1750	1750
pH	5.20	5.52	5.50	5.83	5.44	5.51	5.47
Temp	74.5	74.4	74.3	74.1	73.8	73.6	73.4
Gal.	1	3	4	6	7	9	11
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.) <u>6.25</u>	Total Well Depth(ft.) <u>25.17</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>→ 054</u>	Date: <u>12-01-99</u>
Address: _____	
Personnel: <u>DEBBY</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>RS-10</u>	Equip: <u>BAILER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>24.38</u>	Well Diameter	<u>2"</u>
Depth to Water (ft)	<u>5.97</u>	Est. Purge Volume:	<u>12</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>8:49</u>	<u>8:51</u>	<u>8:53</u>	<u>8:54</u>	<u>8:56</u>	<u>8:58</u>	<u>9:00</u>
EC	<u>1770</u>	<u>1760</u>	<u>1740</u>	<u>1720</u>	<u>1730</u>	<u>1720</u>	<u>1710</u>
pH	<u>5.43</u>	<u>5.44</u>	<u>5.47</u>	<u>5.44</u>	<u>5.49</u>	<u>5.48</u>	<u>5.49</u>
Temp	<u>71.6</u>	<u>70.2</u>	<u>70.1</u>	<u>69.9</u>	<u>69.7</u>	<u>69.6</u>	<u>69.4</u>
Gal.	<u>1</u>	<u>3</u>	<u>5</u>	<u>6</u>	<u>8</u>	<u>10</u>	<u>12</u>
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.) <u>4.30</u>	Total Well Depth(ft.) <u>24.38</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>35 054</u>	Date: <u>12-01-99</u>
Address: _____	
Personnel: <u>DERBIA</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>RS-11</u>	Equip: <u>BAUER</u>

<u>Before Purging:</u>			
Total Well Depth: (ft.)	<u>24.77</u>	Well Diameter	<u>2"</u>
Depth to Water (ft)	<u>7.90</u>	Est. Purge Volume:	<u>11</u>

Sampling Data:

Time	Initial Turbidity:			Final Turbidity:			
	9:01	9:02	9:03	9:05	9:06	9:08	9:10
EC	1110	1120	1100	970	900	860	840
pH	5.40	5.41	5.43	5.40	5.38	5.30	5.38
Temp	73.3	73.1	72.9	72.6	72.3	72.6	72.1
Gal.	1	3	4	6	7	9	11

Time							
EC							
pH							
Temp							
Gal.							

<u>After Purging/Before Sample Collection</u>			
Depth to Water (ft.)	<u>6.20</u>	Total Well Depth(ft).	<u>24.77</u>

## FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>03054</u>	Date: <u>12-01-99</u>
Address: _____	
Personnel: <u>BERBAH</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>R5-9</u>	Equip: <u>BAILER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>14.97</u>	Well Diameter	<u>2"</u>
Depth to Water (ft)	<u>2.70</u>	Est. Purge Volume:	<u>8</u>

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	<u>13:18</u>	<u>13:19</u>	<u>13:20</u>	<u>13:21</u>	<u>13:22</u>	<u>13:23</u>	<u>13:25</u>
EC	<u>1850</u>	<u>1870</u>	<u>1770</u>	<u>1760</u>	<u>1760</u>	<u>1770</u>	<u>1780</u>
pH	<u>5.50</u>	<u>5.52</u>	<u>5.56</u>	<u>5.53</u>	<u>5.51</u>	<u>5.51</u>	<u>5.53</u>
Temp	<u>72.7</u>	<u>72.3</u>	<u>72.2</u>	<u>71.8</u>	<u>71.4</u>	<u>71.2</u>	<u>71.2</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.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.) <u>1.86</u>	Total Well Depth(ft.) <u>14.97</u>

# **APPENDIX B**



## LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company  
Project No.: N/A  
Project Name: SS# 054 ✓  
Sample Matrix: Water  
Method: EPA 8015M (Gasoline)

AA Project No.: A135054107 ✓

Date Received: 12/02/99

Date Reported: 12/09/99

Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
98778	RS-10	12/01/99	12/07/99	<50	50
98779	RS-11	12/01/99	12/07/99	82	50
98780	RS-8	12/01/99	12/07/99	<50	50
98781	RE-7	12/01/99	12/07/99	930	50
98782	PW-2	12/01/99	12/07/99	<50	50
98783	PW-1	12/01/99	12/07/99	<50	50
98784	RE-6	12/01/99	12/07/99	<50	50
98785	RE-2	12/01/99	12/07/99	<50	50
98786	RE-5	12/01/99	12/07/99	<50	50
98787	RE-1	12/01/99	12/07/99	<50	50
98788	RS-9	12/01/99	12/07/99	<50	50
98789	RE-4	12/01/99	12/07/99	540	50
98790	RE-3	12/01/99	12/07/99	95	50
98791	Trip Blank	12/01/99	12/07/99	<50	50

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

George Havalias  
Laboratory Director





**LABORATORY ANALYSIS RESULTS**

Page 1

Client: Thrifty Oil Company  
Project No.: N/A  
Project Name: SS# 054  
Sample Matrix: Water  
Method: EPA 8020 (BTEX)

AA Project No.: A135054107  
Date Received: 12/02/99  
Date Reported: 12/09/99  
Units: ug/L

Date Sampled:	12/01/99	12/01/99	12/01/99	12/01/99	
Date Analyzed:	12/07/99	12/07/99	12/07/99	12/07/99	
AA ID No.:	98778	98779	98780	98781	
Client ID No.:	RS-10	RS-11	RS-8	RE-7	MRL
<b>Compounds:</b>					
Benzene	<0.3	9.7	<0.3	3.7	0.3
Ethylbenzene	<0.3	<0.3	<0.3	<0.3	0.3
Toluene	<0.3	0.44	<0.3	<0.3	0.3
Xylenes	<0.5	<0.5	<0.5	<0.5	0.5

George Havalias  
Laboratory Director



**LABORATORY ANALYSIS RESULTS**

Client: Thrifty Oil Company  
Project No.: N/A  
Project Name: SS# 054  
Sample Matrix: Water  
Method: EPA 8020 (BTEX)

AA Project No.: A135054107  
Date Received: 12/02/99  
Date Reported: 12/09/99  
Units: ug/L

Date Sampled:	12/01/99	12/01/99	12/01/99	12/01/99	
Date Analyzed:	12/07/99	12/07/99	12/07/99	12/07/99	
AA ID No.:	98782	98783	98784	98785	
Client ID No.:	PW-2	PW-1	RE-6	RE-2	MRL
<b>Compounds:</b>					
Benzene	<0.3	<0.3	<0.3	<0.3	0.3
Ethylbenzene	<0.3	<0.3	<0.3	<0.3	0.3
Toluene	<0.3	<0.3	<0.3	<0.3	0.3
Xylenes	<0.5	<0.5	<0.5	<0.5	0.5

George Havalias  
Laboratory Director



**LABORATORY ANALYSIS RESULTS**

**Client:** Thrifty Oil Company  
**Project No.:** N/A  
**Project Name:** SS# 054  
**Sample Matrix:** Water  
**Method:** EPA 8020 (BTEX)

**AA Project No.:** A135054107  
**Date Received:** 12/02/99  
**Date Reported:** 12/09/99  
**Units:** ug/L

<b>Date Sampled:</b>	<b>12/01/99</b>	<b>12/01/99</b>	<b>12/01/99</b>	<b>12/01/99</b>	
<b>Date Analyzed:</b>	<b>12/07/99</b>	<b>12/07/99</b>	<b>12/07/99</b>	<b>12/07/99</b>	
<b>AA ID No.:</b>	<b>98786</b>	<b>98787</b>	<b>98788</b>	<b>98789</b>	
<b>Client ID No.:</b>	<b>RE-5</b>	<b>RE-1</b>	<b>RS-9</b>	<b>RE-4</b>	<b>MRL</b>
<b>Compounds:</b>					
Benzene	<0.3	<0.3	<0.3	<0.3	0.3
Ethylbenzene	<0.3	<0.3	<0.3	<0.3	0.3
Toluene	<0.3	<0.3	<0.3	<0.3	0.3
Xylenes	<0.5	<0.5	<0.5	<0.5	0.5

**George Havalias**  
**Laboratory Director**



**LABORATORY ANALYSIS RESULTS**

Client: Thrifty Oil Company  
Project No.: N/A  
Project Name: SS# 054  
Sample Matrix: Water  
Method: EPA 8020 (BTEX)

AA Project No.: A135054107  
Date Received: 12/02/99  
Date Reported: 12/09/99  
Units: ug/L

Date Sampled:	12/01/99	12/01/99	
Date Analyzed:	12/07/99	12/07/99	
AA ID No.:	98790	98791	
Client ID No.:	RE-3	Trip Blank	MRL
<u>Compounds:</u>			
Benzene	<0.3	<0.3	0.3
Ethylbenzene	<0.3	<0.3	0.3
Toluene	<0.3	<0.3	0.3
Xylenes	<0.5	<0.5	0.5

MRL: Method Reporting Limit  
<: Not detected at or above the value of the concentration indicated.

  
George Havalias  
Laboratory Director



**LABORATORY ANALYSIS RESULTS**

Client: Thrifty Oil Company  
Project No.: N/A  
Project Name: SS# 054  
Sample Matrix: Water  
Method: MTBE (EPA 8020)

AA Project No.: A135054107  
Date Received: 12/02/99  
Date Reported: 12/09/99  
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
98778	RS-10	12/01/99	12/07/99	<5	5
98779	RS-11	12/01/99	12/07/99	<5	5
98780	RS-8	12/01/99	12/07/99	30	5
98781	RE-7	12/01/99	12/07/99	390	5
98782	PW-2	12/01/99	12/07/99	<5	5
98783	PW-1	12/01/99	12/07/99	<5	5
98784	RE-6	12/01/99	12/07/99	12	5
98785	RE-2	12/01/99	12/07/99	<5	5
98786	RE-5	12/01/99	12/07/99	<5	5
98787	RE-1	12/01/99	12/07/99	<5	5
98788	RS-9	12/01/99	12/07/99	<5	5
98789	RE-4	12/01/99	12/07/99	880	5
98790	RE-3	12/01/99	12/07/99	200	5
98791	Trip Blank	12/01/99	12/07/99	<5	5

MRL: Method Reporting Limit  
<: Not detected at or above the value of the concentration indicated.

George Havalias  
Laboratory Director



**LABORATORY QA/QC REPORT**

Client: Thrifty Oil Company  
Project Name: SS# 054  
Method: EPA 8020 (BTEX)  
Sample ID: Matrix Spike  
Concentration: 20 ug/L

AA ID No.: 98778  
Project No.: N/A  
AA Project No.: A135054107  
Date Analyzed: 12/07/99  
Date Reported: 12/09/99

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Benzene	20.38	102	20.49	102	0	65 - 135
Ethylbenzene	19.81	99	19.89	99	0	77 - 123
Toluene	19.88	99	20.16	101	2	66 - 134
Xylenes	19.93	100	20.12	101	1	73 - 127

*George Havalias*

George Havalias  
Laboratory Director



LABORATORY QA/QC REPORT

Client: Thrifty Oil Company  
Project Name: SS# 054  
Method: EPA 8015M (Gasoline)  
Sample ID: Matrix Spike  
Concentration: 500 ug/L

AA ID No.: 98778  
Project No.: N/A  
AA Project No.: A135054107  
Date Analyzed: 12/07/99  
Date Reported: 12/09/99

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Gasoline Range Organics	570	114	560	112	2	59 - 149

George Havalias  
Laboratory Director



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

(818) 998-5547 (818) 998-5548 1-800-533-TEST 1-800-533-8378 FAX (818) 998-7258

DATE: 12.01.99  
PAGE 1 OF 1

AA Client <b>T. O. C -</b>				Phone <b>562/921-3581</b>		Sampler's Name <b>SERBATA P.</b>											
Project Manager <b>JEFF SURYAKUSUMA</b>				P.O. No.		Sampler's Signature 											
Project Name <b>Q.W.S -</b>				Project No.		Project Manager's Signature											
Job Name and Address <b>→ (054) 2504 CASTRO VALLEY Blvd - CASTRO VALLEY 94546</b>				<b>ANALYSIS REQUIRED</b>													
				Detection Limits													
				Test Name													
				TRP BTEX MTBE													
				Test Requirements													
AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	TRP	BTEX	MTBE									
98778	RS-10	12.01.99	16:50	WATER	3	X	X	X									
98779	RS-11	↑	17:00	↑	3	X	X	X									
98780	RS-8	↑	17:05	↑	3	X	X	X									
98781	RE-7	↑	17:10	↑	3	X	X	X									
98782	PW-2	↑	17:15	↑	3	X	X	X									
98783	PW-1	↑	17:20	↑	3	X	X	X									
98784	RE-6	↑	17:25	↑	3	X	X	X									
98785	RE-2	↑	17:30	↑	3	X	X	X									
98786	RE-5	↑	17:35	↑	3	X	X	X									
98787	RE-1	↑	17:40	↑	3	X	X	X									
98788	RS-9	↑	17:50	↑	3	X	X	X									
98789	RE-4	↑	17:55	↑	3	X	X	X									
98790	RE-3	↑	18:00	↑	3	X	X	X									
98791	TRIP BLANK	↓	7:30	↓	2	X											
<b>SAMPLE INTEGRITY TO BE FILLED IN BY RECEIVING LAB</b>						Relinquished by: 		Date	Time	Received by:							
Samples Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								12.01.99	18:00	CA. OVERNIGHT							
Samples Properly Cooled Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										Received by:							
Samples Accepted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										CA. OVERNIGHT							
If Not Why: _____										Received by:							
AA Project No. <b>A135054107</b>										Received by:							
										Received by:							



# APPENDIX C

**FIELD STATUS REPORT**

**GROUND WATER AND SOIL CLEAN-UP SYSTEM**

MAINFOLD															
WELLS	WATER							WELLS	VAPORS						
ON								ON	REF 1		REF 3			REF 6 REF 7	
OFF								OFF							

WELL MONITORING				
WELL NO	DTW	DTP	PT	DTB

RSI SYSTEM			
PARAMETER	U/M	DATA	OBS
TIME	AM/PM		
HOURS	#	18730	
ENGINE RPM	RPM	1800	
ENGINE VACUUM	IN HG	13	
TK REC TEMP	F	90	
AIR TEMP	F	60	
AIR FLOW	CFM	14	
VAPOR FLOW	CFM	12	
FUEL FLOW	CFM/H	75	
WELL VACUUM	IN H2O	13	
GAS METER		0.00	
CATALIST IN	F		
CATALIST OUT	F		
EXHAUST HC	PPM/%		
EXHAUST CO	%PPM		
EXHAUST CO2	%		
EXHAUST NOX	%PPM		
CATALYST REPLACEMENT			
EXHAUST O2	%		
INLET	PPM		
OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER			
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS:

SERVICE TECHNICAN \_\_\_\_\_ DATE 12-27-92 THRIFTY OIL CO # \_\_\_\_\_

T.O.C. SS# ..... 054 .....

VAPOR EXTRACTION SYSTEM MODEL:  
RS1 (VE + GWT)

VAPOR READING

DATE: ..... 12-21-1999 .....

READING	PORT	FREQUENCY	R.O.C. READING (PPM)		PERMIT LIMITS	COMMENTS
			W/ CARBON	W/O CARBON		
TOTAL INLET BEFORE DILUTION.		W	80	210		
TOTAL INLET AFTER DILUTION &/OR MIXING.		W				
INTERMEDIATE 1 ( AFTER 1ST SECTION OF THE TREATMENT UNIT ) OR OUTLET FROM ENGINE BEFORE CATALYTIC.		W				
INTERMEDIATE 2.		W				
OUTLET FROM SYSTEM (EXHAUST).		W	30	120		
WELLS CONNECTED TO SYSTEM.			M			
WELL ID	ON	OFF				
RE 1	✓		50	80		
RE 3	✓		20	70		
RE 6	✓		40	90		
RE 7	✓		15	50		

THE INSTRUMENT USED: ..... FID ..... CALIBRATED AS : .....

TECHNICIAN NAME: ..... [Signature] .....



**EARTH MANAGEMENT CO.**  
Environmental Remediation

05A

**FIELD STATUS REPORT**

**GROUND WATER AND SOIL CLEAN-UP SYSTEM**

MAINFOLD														
WELLS	WATER						WELLS	VAPORS						
ON							ON	RE1		RE3			RE6	RE7
OFF							OFF							

WELL MONITORING				
WELL NO	DTW	DTP	PT	DTB

RSI SYSTEM			
PARAMETER	U/M	DATA	OBS
TIME	AM/PM		
HOURS	#	18562	
ENGINE RPM	RPM		
ENGINE VACUUM	IN HG		
TK REC TEMP	F		
AIR TEMP	F		
AIR FLOW	CFM		
VAPOR FLOW	CFM		
FUEL FLOW	CFM/H		
WELL VACUUM	IN H2O		
GAS METER			
CATALIST IN	F		
CATALIST OUT	F		
EXHAUST HC	PPM/%		
EXHAUST CO	%PPM		
EXHAUST CO2	%		
EXHAUST NOX	%PPM		
CATALYST REPLACEMENT			
EXHAUST O2	%		
INLET	PPM		
OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER			
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: *all valves off 15:20 because propane co.*

SERVICE TECHNICIAN *[Signature]* DATE *12-20-99* THRIFTY OIL CO # *201*



054

# FIELD STATUS REPORT

## GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD															
WELLS		WATER						WELLS		VAPORS					
ON							ON	RE1		RE3			RE6	RE7	
OFF							OFF								

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	AM	
					HOURS	#	18562	
					ENGINE RPM	RPM		
					ENGINE VACUUM	IN HG		
					TK REC TEMP	F		
					AIR TEMP	F		
					AIR FLOW	CFM		
					VAPOR FLOW	CFM		
					FUEL FLOW	CFM/H		
					WELL VACUUM	IN H2O		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER			
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

GAS METER			
CATALIST IN	F		
CATALIST OUT	F		
EXHAUST HC	PPM/%		
EXHAUST CO	%PPM		
EXHAUST CO2	%		
EXHAUST NOX	%PPM		
CATALYST REPLACEMENT			
EXHAUST O2	%		
INLET	PPM		
OUTLET	PPM		

COMMENTS: *Flow will down propane tanks empty. Call*

SERVICE TECHNICAN \_\_\_\_\_ DATE 12-19-99 THRIFTY OIL CO # \_\_\_\_\_



DATE: 12-13-99

START UP / SHUT DOWN REPORT  
STATION # 054  
SYSTEM TYPE: RSI -

START UP REPORT:

SHUT DOWN REPORT:

PROPANE TANK EMPTY. CALL FOR REFILL.  
SYSTEM SHUT DOWN.

SIGNATURE: \_\_\_\_\_

**FIELD STATUS REPORT**  
**GROUND WATER AND SOIL CLEAN-UP SYSTEM**

MAINFOLD													
WELLS	WATER						WELLS	VAPORS					
ON							ON	RE1		RE3		REG	REF
OFF							OFF						

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	2.0	
					HOURS	#	18245	
					ENGINE RPM	RPM	1700	
					ENGINE VACUUM	IN HG	15	
					TK REC TEMP	F	70	
					AIR TEMP	F	69	
					AIR FLOW	CFM	16	
					VAPOR FLOW	CFM	12	
					FUEL FLOW	CFM/H	70	
					WELL VACUUM	IN H2O	13	
					GAS METER		9.20	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER			
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS:

SERVICE TECHNICIAN J. M. M. DATE 12-06-99 THRIFTY OIL CO # 054

54

**MAINFOLD**

WELLS	WATER						WELLS	VAPORS						
ON							ON	RE1		RE2			RE6	RE7
OFF							OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	18:075	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	14	
					TK REC TEMP	F	100	
					AIR TEMP	F	72	
					AIR FLOW	CFM	12	
					VAPOR FLOW	CFM	11	
					FUEL FLOW	CFM/H	60-70	
					WELL VACUUM	IN H2O	12	
					GAS METER		2.50	

**HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT**

PARAMETER	U/M	LIMIT	DATA
FLOWMETER			
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

CATALIST IN	F		
CATALIST OUT	F		
EXHAUST HC	PPM%		
EXHAUST CO	%PPM		
EXHAUST CO2	%		
EXHAUST NOX	%PPM		
CATALYST REPLACEMENT			
EXHAUST O2	%		
INLET	PPM		
OUTLET	PPM		

COMMENTS: Q.W.S.

SERVICE TECHNICAN [Signature] DATE 12-01-99 THRIFTY OIL CO # 059



MAINFOLD															
WELLS		WATER						WELLS		VAPORS					
ON								ON		RE1		RE3		RE6	RE7
OFF								OFF							


WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	<del>1825</del> <sup>18</sup> 617	
					ENGINE RPM	RPM	1750	
					ENGINE VACUUM	IN HG	14	
					TK REC TEMP	F	99	
					AIR TEMP	F	64	
					AIR FLOW	CFM	14	
					VAPOR FLOW	CFM	11	
					FUEL FLOW	CFM/H	60-70	
					WELL VACUUM	IN H2O	13	
					GAS METER		90	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

COMMENTS: RESTART ENGINE - Add Oil -

SERVICE TECHNICAN [Signature] DATE 11-29-94 THRIFTY OIL CO # 054

**MAINFOLD**

WELLS		WATER						WELLS		VAPORS					
ON								ON	DE1		DE5			DE6	DE7
OFF								OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	<del>12:48</del> 12:56	
					ENGINE RPM	RPM		
					ENGINE VACUUM	IN HG		
					TK REC TEMP	F		
					AIR TEMP	F		
					AIR FLOW	CFM		
					VAPOR FLOW	CFM		
					FUEL FLOW	CFM/H		
					WELL VACUUM	IN H2O		
					GAS METER			
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

COMMENTS: RESTART SYSTEM

SERVICE TECHNICIAN A. [Signature] DATE 11-22-99 THRIFTY OIL CO # 054

054

**MAINFOLD**

WELLS	WATER						WELLS	VAPORS					
ON							ON	DE1		DE3		DE6	DE7
OFF							OFF						

WELL MONITORING				
WELL NO	DTW	DTP	PT	DTB

RSI SYSTEM			
PARAMETER	U/M	DATA	OBS
TIME	AM/PM	AM	
HOURS	#	2118.569	
ENGINE RPM	RPM	1800	
ENGINE VACUUM	IN HG	13	
TK REC TEMP	F	90	
AIR TEMP	F	54	
AIR FLOW	CFM	16	
VAPOR FLOW	CFM	12	
FUEL FLOW	CFM/H	75	
WELL VACUUM	IN H2O	13	
GAS METER		% 10	
CATALIST IN	F		
CATALIST OUT	F		
EXHAUST HC	PPM/%		
EXHAUST CO	%PPM		
EXHAUST CO2	%		
EXHAUST NOX	%PPM		
CATALYST REPLACEMENT			
EXHAUST O2	%		
INLET	PPM		
OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER			
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: SHUT DOWN. PROPANE TANK EMPTY -

SERVICE TECHNICAN R. [Signature] DATE 11-15-99 THRIFTY OIL CO # 054



DATE: 11-08-99

START UP / SHUT DOWN REPORT  
STATION # 054  
SYSTEM TYPE: R.S.I.

START UP REPORT:

SHUT DOWN REPORT:

System shut down because propane tank  
empty - Call to refill -

SIGNATURE: \_\_\_\_\_

*[Handwritten Signature]*



# FIELD STATUS REPORT

## GROUND WATER AND SOIL CLEAN-UP SYSTEM

054

MAINFOLD																
WELLS		WATER						WELLS		VAPORS						
ON								ON		RE-1		RE-3			RE-6	RE-7
OFF								OFF								

WELL MONITORING				
WELL NO	DTW	DTP	PT	DTB

RSI SYSTEM			
PARAMETER	U/M	DATA	OBS
TIME	AM/PM	est 18:56	
HOURS	#	<del>1848</del>	DON'T WORK
ENGINE RPM	RPM	1750	
ENGINE VACUUM	IN HG	13	
TK REC TEMP	F	90	
AIR TEMP	F	72	
AIR FLOW	CFM	16	
VAPOR FLOW	CFM	12	
FUEL FLOW	CFM/H	70	
WELL VACUUM	IN H2O	13	
GAS METER		% 20	
CATALIST IN	F		
CATALIST OUT	F		
EXHAUST HC	PPM%		
EXHAUST CO	%PPM		
EXHAUST CO2	%		
EXHAUST NOX	%PPM		
CATALYST REPLACEMENT			
EXHAUST O2	%		
INLET	PPM		
OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER			
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: System was shut down, I restart again, change oil, check water and hoses. Take out the clock for fixed or replace —

SERVICE TECHNICAN S. O. T. 2 DATE 11-01-99 THRIFTY OIL CO # 054

034

MAINFOLD													
WELLS		WATER					WELLS		VAPORS				
ON							ON	RE1		RE3		RE6	RE7
OFF							OFF						

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	est 18:44	
					HOURS	#	<del>1110</del>	MARK
					ENGINE RPM	RPM	1790	
					ENGINE VACUUM	IN HG	14	
					TK REC TEMP	F	48	
					AIR TEMP	F	66	
					AIR FLOW	CFM	16	
					VAPOR FLOW	CFM	13	
					FUEL FLOW	CFM/H	75	
					WELL VACUUM	IN H2O	13	

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER			
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: System was shut down. Somebody play with the valve what does anyone?? Air sampling -

SERVICE TECHNICAN Blair DATE 10/25/94 THRIFTY OIL CO # 059

MAINFOLD											
WELLS	WATER						WELLS	VAPORS			
ON							ON	RE1	RE3	RE6	RE7
OFF							OFF				

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	11:48	
					HOURS	#	18/118	DON'T WORK
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	15	
					TK REC TEMP	F	95	
					AIR TEMP	F	72	
					AIR FLOW	CFM	16	
					VAPOR FLOW	CFM	13	
					FUEL FLOW	CFM/H	75	
					WELL VACUUM	IN H2O	13	
					GAS METER		% 80	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

COMMENTS: RESTART SYSTEM UNTIL WE CHANGE PROPANE CO.

SERVICE TECHNICIAN [Signature] DATE 10-19-99 THRIFTY OIL CO # 059



DATE: 10-11-99.

START UP / SHUT DOWN REPORT  
STATION # 054  
SYSTEM TYPE : R.S.I.

START UP REPORT:

SHUT DOWN REPORT:

System is shut down because Propene  
Co. don't send the report about tank leaking  
or not -

SIGNATURE: \_\_\_\_\_

*[Handwritten Signature]*





THRIFTY OIL CO. SS #054  
 2504 CASTRO VALLEY BLVD.  
 CASTRO VALLEY, CA 94546  
 DATE: 10-04-99

PROJECT STATUS REPORT

F R E Q .	MONITORING				ODORS			FREE		WELLS CONNECTED TO SYSTEM (W)							
	OBSERVATION WELLS				(S=SLIGHT)			PRODUCT		CONNECT		INTEGRITY		VAPOR		WATER	
	NO.	DTW	DTP	PT	YES	NO	S	YES	NO	YES	NO	OK	NO	ON	OFF	ON	OFF
M	PW-1	6.34				X			X		X	-					
M	PW-2	5.13				X			X		X	-					
M	RE-1	6.04				X			X		X	-		X			
M	RE-2	4.91				X			X		X	-					
M	RE-3	4.44				X			X		X	-		X			
M	RE-4	4.58				X			X		X	-				X	
M	RE-5	6.75				X			X		X	-					
M	RE-6	5.89				X			X		X	-		X			
M	RE-7	7.02				X			X		X	-		X		X	
M	RS-8	12.88				X			X		-	X					
M	RS-9	2.70				X			X		-	X					
M	RS-10	7.54				X			X			X					
M	RS-11	9.47				X			X			X					

SAVE SYSTEM WEEKLY

PARAMETER	U/M	DATA	PARAMETER	U/M	DATA
TIME	AM/PM		AIR FLOW	C F M	
WORKING	YES/NO		VAPOR FLOW	C F M	
RESTARTED	YES/NO		FUEL FLOW	C F M/H	
HOURS	#		WELL VACUUM	IN H2O	
ENGINE ROT.	RPM		L P G TANKS	%	#1:
ENGINE VACUUM	IN HG		GAS METER READING	-	N/A
TANK VACUUM	IN HG		WATER FLOWMETER	GALL.	

EXHAUST (By others) \_\_\_\_\_

INLET TO ENGINE \_\_\_\_\_

MAINTENANCE ES/100/400/800 \_\_\_\_\_ FOR SPECIFIC OPERATIONS SEE FIELD RECORD

WATER SAMPLING - CHECK ( ) WHEN DONE

EFFLUENT	INFLUENT	WELLS
( ) _____	( ) _____	( ) Q. - SEE C.CUST.

REMARKS: \_\_\_\_\_

FREE PRODUCT REMOVED: APPROX. \_\_\_\_\_ GALLONS WATER REMOVED: APPROX. \_\_\_\_\_ GALLONS

DATA RECORDED BY : SERBOW

INPUT BY: AJB 02/05/97



DATE: 10-01-99

START UP / SHUT DOWN REPORT

STATION # 054

SYSTEM TYPE RST (VE + GWT)

START UP REPORT:

SHUT DOWN REPORT:

System shut down because I don't have O.K. from propane Co. about leaving report what I request.

SIGNATURE: \_\_\_\_\_

*[Handwritten Signature]*

# **APPENDIX D**



**LABORATORY ANALYSIS RESULTS**

Page 1

**Client:** Thrifty Oil Company  
**Project No.:** N/A  
**Project Name:** SS# 054  
**Sample Matrix:** Vapor  
**Method:** EPA 8015M(Gasoline)

**AA Project No.:** A135054109  
**Date Received:** 12/23/99  
**Date Reported:** 12/29/99  
**Units:** ppmV

---

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
99752	Inlet	12/21/99	12/23/99	190	5

---

MRL: Method Reporting Limit  
<: Not detected at or above the value of the concentration indicated.

George Havalias  
Laboratory Director



**LABORATORY ANALYSIS RESULTS**

**Client:** Thrifty Oil Company  
**Project No.:** N/A  
**Project Name:** SS# 054  
**Sample Matrix:** Vapor  
**Method:** EPA 8020 (BTEX)

**AA Project No.:** A135054109  
**Date Received:** 12/23/99  
**Date Reported:** 12/29/99  
**Units:** ppmV

---

<b>Date Sampled:</b>	<b>12/21/99</b>	
<b>Date Analyzed:</b>	<b>12/23/99</b>	
<b>AA ID No.:</b>	<b>99752</b>	
<b>Client ID No.:</b>	<b>Inlet</b>	<b>MRL</b>
<hr/>		
<b><u>Compounds:</u></b>		
Benzene	5.7	0.1
Ethylbenzene	0.15	0.1
Toluene	0.64	0.1
Xylenes	1.8	0.1

---

MRL: Method Reporting Limit  
<: Not detected at or above the value of the concentration indicated.

**George Havallas**  
**Laboratory Director**



**LABORATORY ANALYSIS RESULTS**

Client: Thrifty Oil Company  
Project No.: N/A  
Project Name: SS# 054  
Sample Matrix: Vapor  
Method: MTBE (EPA 8020)

AA Project No.: A135054109  
Date Received: 12/23/99  
Date Reported: 12/29/99  
Units: ppmV

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
99752	Inlet	12/21/99	12/23/99	39	5

MRL: Method Reporting Limit  
<: Not detected at or above the value of the concentration indicated.

George Havallas  
Laboratory Director



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

(818) 998-5547    (818) 998-5548    1-800-533-TEST    1-800-533-8378    FAX (818) 998-7258

DATE: \_\_\_\_\_

PAGE 1 OF 1

AA Client <b>T.O.C.</b>						Phone <b>(562) 921-3581</b>		Sampler's Name <b>DEBBAN P</b>		
Project Manager <b>JEFF RURYAKUSUMA</b>						P.O. No.		Sampler's Signature <i>[Signature]</i>		
Project Name <b>VAPOR SAMPLING</b>						Project No.		Project Manager's Signature		
Job Name and Address <b>→ 054 2504 CASTRO VALLEY Blvd CASTRO VALLEY CA. 94546</b>						<b>ANALYSIS REQUIRED</b>				Test Requirements
						Detection Limits				
						Test Name				
AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	TOL	BTEX	MIBS		
99752	INLET	12.21.99	8:40	VAPOR	1 Bag	X	X	X		
<b>SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB</b>						Relinquished by: <i>[Signature]</i>		Date	Time	Received by: <b>CA. OVERHIGHT</b>
Samples Intact                      Yes <input checked="" type="checkbox"/> No _____						Relinquished by: <b>CA. OVERHIGHT</b>		Date <b>12/23/99</b>	Time <b>10:30</b>	Received by: <i>[Signature]</i>
Samples Property Cooled            Yes <input checked="" type="checkbox"/> No _____						Relinquished by:		Date	Time	Received by:
Samples Accepted                      Yes <input checked="" type="checkbox"/> No _____						Relinquished by:		Date	Time	Received by:
If Not Why: _____						Relinquished by:		Date	Time	Received by:
AA Project No. <b>A135054109</b>						Relinquished by:		Date	Time	Received by:



**LABORATORY ANALYSIS RESULTS**

Client: Thrifty Oil Company  
Project No.: N/A  
Project Name: SS# 054 ✓  
Sample Matrix: Vapor  
Method: NIOSH 1501 (Benzene)

AA Project No.: A135054108 ✓  
Date Received: 12/07/99  
Date Reported: 12/10/99  
Units: ug

AA I.D. No.	Client I.D. No.	Date Sampled	Date Extracted	Date Analyzed	Results	MRL
98998	Effluent	12/07/99	12/09/99	12/10/99	<0.1	0.1
98999	Trip Blank	12/07/99	12/09/99	12/10/99	<0.1	0.1

MRL: Method Reporting Limit  
<: Not detected at or above the value of the concentration indicated.

  
\_\_\_\_\_  
George Havallas  
Laboratory Director





# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

(818) 998-5547

(818) 998-5548

1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

DATE: 12.07.99

PAGE 1 OF 1

AA Client: T.O.C.						Phone: (562) 921-3581		Sampler's Name: SERBAY P.		
Project Manager: JEFF SURYARUSUMA						P.O. No.		Sampler's Signature: [Signature]		
Project Name: AIR SAMPLING						Project No.		Project Manager's Signature		
Job Name and Address: 2504 CASTRO VALLEY Blvd CASTRO VALLEY, 94546- #054						<b>ANALYSIS REQUIRED</b>				
						Detection Limits		Test Requirements		
						Test Name: BENZENE				
AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers					
98998	EFFLUENT	12.07.99	10:20	AIR	1	X				
98999	TRIP BLANK	12.07.99	10:20	AIR	1	X				
SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB						Relinquished by: [Signature]		Date: 12.07.99	Time: 17:00	Received by: CA-OVERNIGHT
Samples Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						Relinquished by: CA-OVERNIGHT		Date: 12.07.99	Time: 17:30	Received by: [Signature] 12/19/99
Samples Properly Cooled Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						Relinquished by:		Date:	Time:	Received by:
Samples Accepted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						Relinquished by:		Date:	Time:	Received by:
If Not Why: _____						Relinquished by:		Date:	Time:	Received by:
AA Project No. A135054108						Relinquished by:		Date:	Time:	Received by:



**LABORATORY ANALYSIS RESULTS**

**Client:** Thrifty Oil Company  
**Project No.:** N/A  
**Project Name:** SS# 054 ✓  
**Sample Matrix:** Vapor  
**Method:** NIOSH 1501 (Benzene)

**AA Project No.:** A135054106 ✓  
**Date Received:** 11/22/99  
**Date Reported:** 11/30/99  
**Units:** ug

AA I.D. No.	Client I.D. No.	Date Sampled	Date Extracted	Date Analyzed	Results	MRL
98581	Effluent	11/22/99	11/29/99	11/29/99	<0.1	0.1
98582	TripBlank	11/22/99	11/29/99	11/29/99	<0.1	0.1

MRL: Method Reporting Limit  
<: Not detected at or above the value of the concentration indicated.

George Havallas  
Laboratory Director



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

(818) 998-5547

(818) 998-5548

1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

DATE: 11-22-94

PAGE 0 OF 1

AA Client <b>THRIFTY OIL CO.</b>						Phone <b>7562/921-3581</b>		Sampler's Name <b>SERBATH P</b>		
Project Manager <b>MEEF SURYARUSUMTA</b>						P.O. No.		Sampler's Signature <i>[Signature]</i>		
Project Name <b>AIR SAMPLING</b>						Project No.		Project Manager's Signature		
Job Name and Address <b>2504 CASTRO VALLEY Blvd - CASTRO VALLEY, CA. 94546</b>						<b>ANALYSIS REQUIRED</b>				
						Detection Limits				
						Test Name				
						Test Requirements				
AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	BENZENE				
98581	EFFLUENT	11.22.94	10:20	VAPOR	1	X				
98582	TRIP BLANK	11.22.94	10:20	VAPOR	1	X				
SAMPLE INTEGRITY TO BE FILLED IN BY RECEIVING LAB						Relinquished by: <i>[Signature]</i>		Date: 11.23.94	Time: 17:00	Received by: CA-OVERNIGHT
Samples Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						Relinquished by: CA-OVERNIGHT		Date: 11.23.94	Time: 17:30	Received by: _____
Samples Properly Cooled Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						Relinquished by: _____		Date: 11/24/94	Time: 9am	Received by: <i>[Signature]</i>
Samples Accepted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						Relinquished by: _____		Date: _____	Time: _____	Received by: _____
If Not Why: _____						Relinquished by: _____		Date: _____	Time: _____	Received by: _____
AA Project No. <b>A135054(106)</b>						Relinquished by: _____		Date: _____	Time: _____	Received by: _____



**LABORATORY ANALYSIS RESULTS**

Client: Thrifty Oil Company  
Project No.: N/A  
Project Name: SS #054 ✓  
Sample Matrix: Vapor  
Method: NIOSH 1501 (Benzene)

AA Project No.: A135054105 ✓  
Date Received: 11/09/99  
Date Reported: 11/15/99  
Units: ug

AA I.D. No.	Client I.D. No.	Date Sampled	Date Extracted	Date Analyzed	Results	MRL
97612	Effluent	11/08/99	11/11/99	11/11/99	<0.1	0.1
97613	Trip Blank	11/08/99	11/11/99	11/11/99	<0.1	0.1

MRL: Method Reporting Limit  
<: Not detected at or above the value of the concentration indicated.

George Havalias  
Laboratory Director



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

(818) 998-5547    (818) 998-5548    1-800-533-TEST    1-800-533-8378    FAX (818) 998-7258

DATE: 11.08.99  
PAGE: 1 of 1

AA Client <b>THRIFTY OIL CO.</b>	Phone	Sampler's Name <b>ZERBON P.</b>
Project Manager <b>JEFF SURYARUSUMU</b>	P.O. No.	Sampler's Signature <i>[Signature]</i>
Project Name <b>AIR SAMPLING</b>	Project No.	Project Manager's Signature

Job Name and Address <b>054</b>	<b>ANALYSIS REQUIRED</b>
	Detection Limits
	Test Name

AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	Benzene	Test Requirements
97612	EFFLUENT	11.08.99	13:20	AIR	1A	+	
97613	TRIP BLANK	11.08.99	13:20	AIR	1	+	
/							

<b>SAMPLE INTEGRITY TO BE FILLED IN BY RECEIVING LAB</b>	Relinquished by:	Date	Time	Received by:
Samples Intact                      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Samples Properly Cooled            Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Samples Accepted                      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If Not Why: _____	<i>[Signature]</i>	11.09.99	17:00	CA. OVERHIGHT
AA Project No. <b>A135054105</b>	Relinquished by:	Date	Time	Received by:
	CA. OVERHIGHT	11.09.99	12:30	
	Relinquished by:	Date	Time	Received by:
		11/10/99	9am	<i>[Signature]</i>
	Relinquished by:	Date	Time	Received by:




**LABORATORY ANALYSIS RESULTS**

**Client:** Thrifty Oil Company  
**Project No.:** N/A  
**Project Name:** SS# 054 ✓  
**Sample Matrix:** Vapor  
**Method:** NIOSH 1501 (Benzene)

**AA Project No.:** A135054104  
**Date Received:** 10/26/99  
**Date Reported:** 10/28/99  
**Units:** ug

AA I.D. No.	Client I.D. No.	Date Sampled	Date Extracted	Date Analyzed	Results	MRL
97055	Effluent	10/25/99	10/28/99	10/28/99	<0.1	0.1
97056	Trip Blank	10/25/99	10/28/99	10/28/99	<0.1	0.1

MRL: Method Reporting Limit  
<: Not detected at or above the value of the concentration indicated.

  
George Havalias  
Laboratory Director



# AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

(818) 998-5547    (818) 998-5548    1-800-533-TEST    1-800-533-8378    FAX (818) 998-7258

DATE: 10.25.99  
PAGE 1 OF 1

AA Client <b>T.O.C.</b>	Phone <b>(562) 921-3581</b>	Sampler's Name <b>SERBAN P.</b>
Project Manager <b>JEFF SURYARUSUMA</b>	P.O. No.	Sampler's Signature <i>[Signature]</i>
Project Name <b>AIR SAMPLING</b>	Project No.	Project Manager's Signature

Job Name and Address <b>2504 CASTRO VALLEY Blvd. CASTRO VALLEY, CA. 94546</b>	<b>ANALYSIS REQUIRED</b>
Detection Limits	Test Requirements
Test Name	

AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	Test Name						
97053	EFFLUENT	10.25.99	9:30	AIR	1	X						
97056	TRIP BLANK	10.25.99	9:30	AIR	1	X						
/												

<b>SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB</b>	Relinquished by: <i>[Signature]</i>	Date 10.25.99	Time 17:00	Received by: <b>CA. OVERNIGHT</b>
Samples Intact                      Yes _____ No _____	Relinquished by: <b>CA. OVERNIGHT</b>	Date 10.25.99	Time 17:30	Received by:
Samples Properly Cooled            Yes _____ No _____	Relinquished by:	Date 10/26/99	Time 9:30am	Received by: <i>[Signature]</i>
Samples Accepted                      Yes _____ No _____	Relinquished by:	Date	Time	Received by:
If Not Why: _____				
AA Project No. <b>A135054104</b>				




**LABORATORY ANALYSIS RESULTS**

Client: Thrifty Oil Company  
Project No.: N/A  
Project Name: SS #054 ✓  
Sample Matrix: Vapor  
Method: EPA 8015M(Gasoline)

AA Project No.: A135054103 ✓  
Date Received: 10/25/99  
Date Reported: 10/27/99  
Units: ppmV

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
97053	Outlet	10/25/99	10/26/99	5.5	5
97054	Inlet	10/25/99	10/26/99	<5	5

MRL: Method Reporting Limit  
<: Not detected at or above the value of the concentration indicated.



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George Havallas  
Laboratory Director





**LABORATORY ANALYSIS RESULTS**

**Client:** Thrifty Oil Company  
**Project No.:** N/A  
**Project Name:** SS #054  
**Sample Matrix:** Vapor  
**Method:** EPA 8020 (BTEX)


**AA Project No.:** A135054103  
**Date Received:** 10/25/99  
**Date Reported:** 10/27/99  
**Units:** ppmV

---

<b>Date Sampled:</b>	<b>10/25/99</b>	<b>10/25/99</b>	
<b>Date Analyzed:</b>	<b>10/26/99</b>	<b>10/26/99</b>	
<b>AA ID No.:</b>	<b>97053</b>	<b>97054</b>	
<b>Client ID No.:</b>	<b>Outlet</b>	<b>Inlet</b>	<b>MRL</b>
<b><u>Compounds:</u></b>			
Benzene	<0.1	<0.1	0.1
Ethylbenzene	0.10	<0.1	0.1
Toluene	0.13	0.11	0.1
Xylenes	0.81	0.44	0.1

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**MRL:** Method Reporting Limit  
<: Not detected at or above the value of the concentration indicated.



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**George Havalias**  
**Laboratory Director**



**LABORATORY ANALYSIS RESULTS**

Client: Thrifty Oil Company  
Project No.: N/A  
Project Name: SS #054  
Sample Matrix: Vapor  
Method: MTBE (EPA 8020)

AA Project No.: A135054103  
Date Received: 10/25/99  
Date Reported: 10/27/99  
Units: ppmv

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
97053	Outlet	10/25/99	10/26/99	<1	1
97054	Inlet	10/25/99	10/26/99	<1	1

MRL: Method Reporting Limit  
<: Not detected at or above the value of the concentration indicated.

  
\_\_\_\_\_  
George Havalias  
Laboratory Director



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DATE: 10-25-99

PAGE 1 OF 1

AA Client <b>T.O.C.</b>						Phone <b>7562 921-3581</b>		Sampler's Name <b>SEBASTIAN P</b>		
Project Manager <b>JEFF BURYAKOVICH</b>						P.O. No.		Sampler's Signature 		
Project Name <b>MONTHLY SAMPLING</b>						Project No.		Project Manager's Signature		
Job Name and Address <b>2504 CASTRO VALLEY BLVD. CASTRO VALLEY CA. 94546</b>						<b>ANALYSIS REQUIRED</b>				Test Requirements
						Detection Limits				
						Test Name <b>TPH BTEX MIRE</b>				
AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	TPH	BTEX	MIRE		
<b>97053</b>	<b>OUT</b>	<b>10.25.99</b>	<b>11:40</b>	<b>VAPOR</b>	<b>1 Bury</b>	X	X	X		
<b>97054</b>	<b>IN</b>	<b>10.25.99</b>	<b>11:40</b>	<b>VAPOR</b>	<b>1 Bury</b>	X	X	X		
/						/				
<b>SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB</b>						Relinquished by: 		Date <b>10.25.99</b>	Time <b>17:00</b>	Received by: <b>CA. OVERNIGHT</b>
Samples Intact Yes _____ No _____						Relinquished by: <b>CA. OVERNIGHT</b>		Date <b>10.25.99</b>	Time <b>17:30</b>	Received by: 
Samples Properly Cooled Yes _____ No _____						Relinquished by:		Date	Time	Received by:
Samples Accepted Yes _____ No _____						Relinquished by:		Date	Time	Received by:
If Not Why: _____						Relinquished by:		Date	Time	Received by:
AA Project No. <b>A136054103</b>						Relinquished by:		Date	Time	Received by: