

**THRIFTY OIL CO.** ENVIRONMENTAL  
PROTECTION

99 APR 21 PM 1:51

April 16, 1999

O.9646

Mr. Scott O. Seery, CHMM  
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  
*1st Quarter 1999, Status Report*

Dear Mr. Seery:

Presented herewith is the 1st 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, please contact the undersign in this report at (562) 921-3581.

Sincerely,



Chris Panaitescu  
General Manager  
Environmental Affairs

c: File



# THRIFTY OIL CO.

April 15, 1999

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  
*1st Quarter 1999, Status Report*

Dear Mr. Seery:

Presented herein is the 1st Quarter 1999, Status Report prepared for Thrifty Oil Co. (TOC) 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 March 15, 1999.** TOC has retained the services of Earth Management Company (EMC) to conduct quarterly monitoring and sampling activities at this site. The data is reported by Thrifty's in-house environmental staff.

## **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 March 15, 1999 is presented in **Table 1**. In general, **groundwater occurs under water table conditions beneath the station at depths ranging from 3.85 feet below ground surface (bgs) in monitoring well RE-4 to 9.85 feet bgs in monitoring well RS-8, as measured on March 15, 1999.** Field monitoring reports are included in **Appendix C**. Groundwater elevation contour map based on the March 15, 1999 data is presented in **Figure 1**. The general direction of groundwater flow beneath the site is to the east at a gradient ranging from 0.034 to 0.12 feet/foot, with localized water table mounding.

## **Quarterly Groundwater Sampling**

As part of the on-going groundwater monitoring program, groundwater samples were obtained from monitoring wells PW-1, PW-2, RE-1, RE-2, RE-3, RE-4, RE-5, RE-6, RE-7, RS-8, RS-9, RS-10, and RS-11 on March 15, 1999. Groundwater samples were obtained by EMC and delivered in a chilled state in an ice chest following strict Chain-of-Custody procedures to state-certified American Analytics laboratory, Chatsworth, California. Water samples were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA method 8020, and total petroleum hydrocarbons (TPH) by EPA method 8015 modified.



## Analytical Results

During this reporting period, dissolved total petroleum hydrocarbons (TPH) concentrations above 50 micrograms per liter (ug/L) were recorded in sample RE-7 at a concentration of 350 ug/L.

All samples were below the dissolved benzene concentrations levels of 1.0 ug/L.

Similarly, MTBE concentrations above 20 ug/L were recorded in sample RE-7 at a concentration of 140 ug/L. All other samples collected did not contain TPH, benzene nor MTBE above the method detection limits, with the exception of 0.71 ug/L benzene in RE-7, and MTBE concentrations of 8.4 ug/L (RE-6) and 9.6 ug/L (RS-8). A summary of historical analytical sampling results are provided in **Table 1**, and copies of the analytical laboratory reports are contained in **Appendix A**. TPH, benzene, and MTBE distribution in groundwater during the reporting period are presented in **Figures 2, 3, and 4**, respectively.

## Remediation System Operation Status

The soil and groundwater remediation system was designed and installed by Remediation Services Int'l (RSI) and has been in operation at the site since November 1989. The treatment compound consists of a Ford internal combustion engine, spray aeration tower, two activated carbon canisters and gauging instruments. The hydrocarbon laden vapors from the extraction wells are burned as fuel by the engine, and extracted water is being treated by carbon. The engine is equipped with a catalytic converter for exhaust emission reduction.

## Water

As of March 15, 1998, a total of about 27,922 gallons of water (current meter reading 11,832) had been processed by the unit and discharged to the local sanitary sewer. The system was non-operational during the 1st Quarter 1999 the water system was shut down because the system's compressor needed to be replaced. During this downtime the carbons canisters were changed out on February 15, 1999. Upon the review of the groundwater laboratory analytical results, Thrifty requests that the water treatment system be permanently shut down.

## Vapor

The system was operational from January 4, 1999 through March 29, 1999 for a total of 864 hours. The system was non-operation various times through the quarter due to system maintenance. The site was maintained by EMC, and the RSI-SAVE unit operated 864 hours, bring the total operation hours to 21,167 (current meter reading 16,992). Treatment unit effluent vapor samples were collected during the operational period. Copies of laboratory analytical reports are located in **Appendix B**. Field status reports for the vapor monitoring system are located in **Appendix C**.

After reviewing the vapor laboratory analytical results, it was discovered that vapor inlet samples were not taken this quarter. This will be corrected and vapor inlet samples will be collected and analyzed for second quarter 1999. If these sampled inlet vapor laboratory analytical results indicate

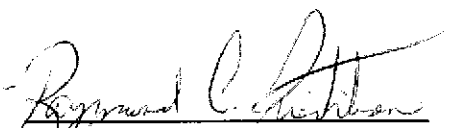
the absence of hydrocarbons, Thrifty will then request that the vapor system be permanently shut down.

### **Closing**

Thrifty request that the groundwater be shut down permanently and the vapor system will continue to operate. Depending on the outcome of the vapor samples, Thrifty will then determine what action to take. Groundwater monitoring and sampling at this site will continue. If the concentrations continue to remain low to non-detect, Thrifty will then request environmental closure of this site.

All interpretations expressed in this report are based upon the review of data collected by Earth Management Company. If you have any questions please contact the undersigned at (562) 921-3581 X376.

Written by:

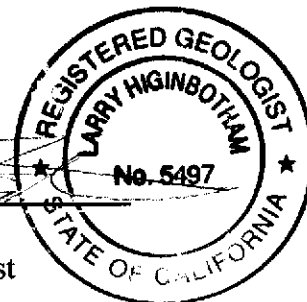


Raymond C. Friedrichsen, REA  
Project Manager  
Hydrogeologist

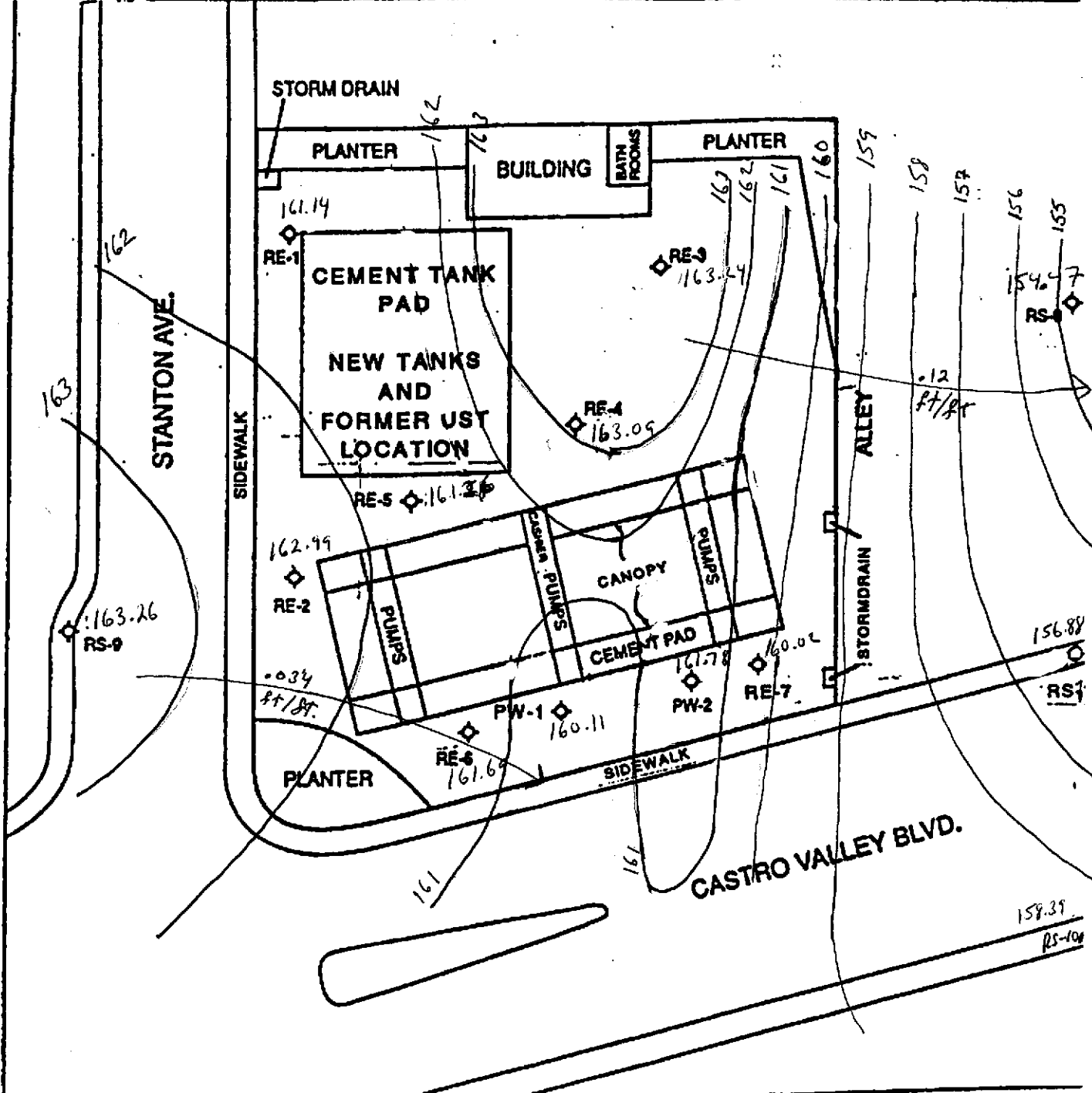
Reviewed by:



Larry Higinbotham  
Registered Geologist  
RG #5497



# FIGURES

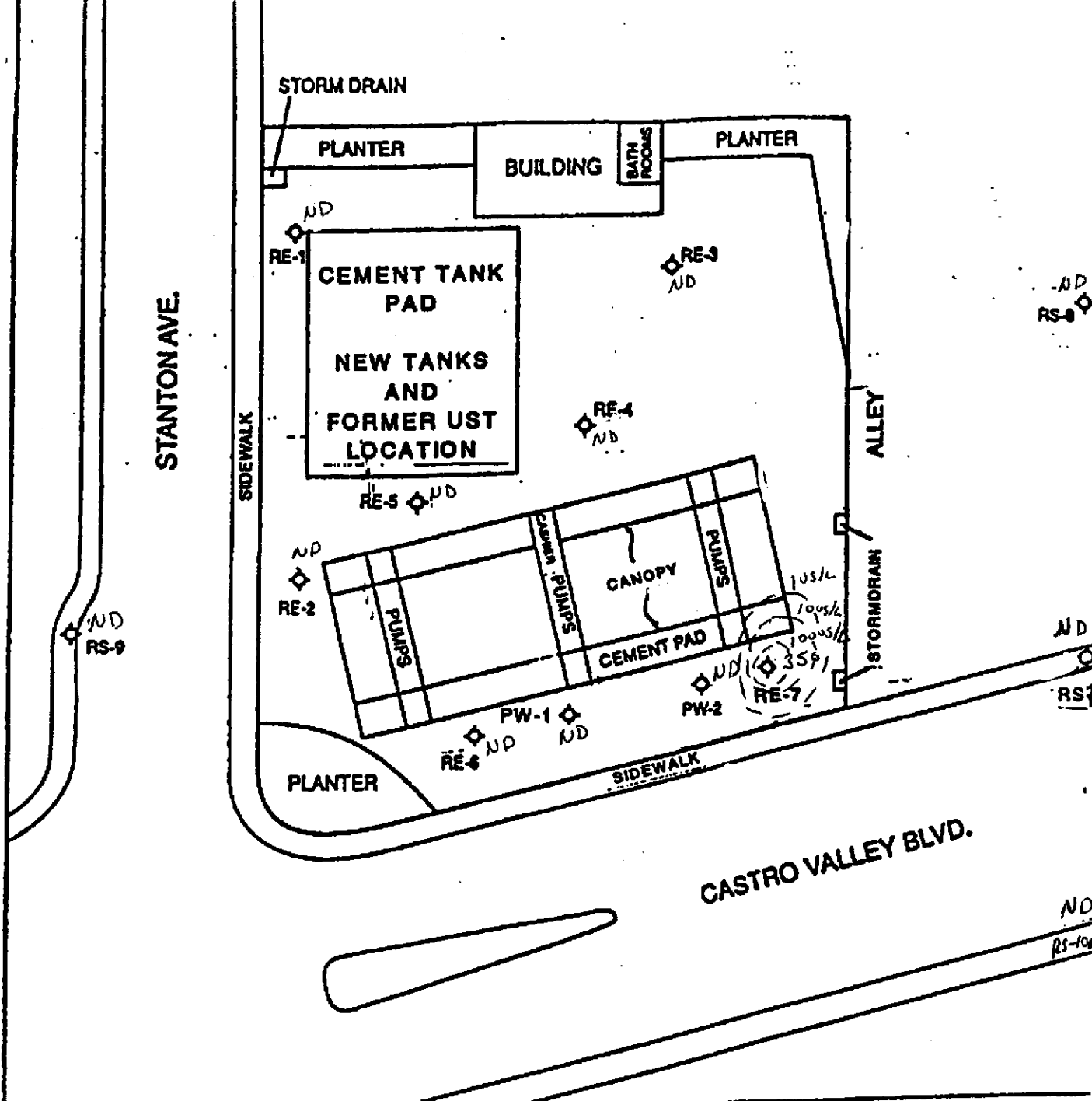


GROUNDWATER CONTOUR MAP  
 THRIFTY OIL CO. #054  
 CASTRO VALLEY, CALIFORNIA  
 Prepared for  
 THRIFTY OIL CO.  
 SANTA FE, SPRINGS  
 CALIFORNIA



◊ EXISTING MONITORING WELL

FIGURE 1



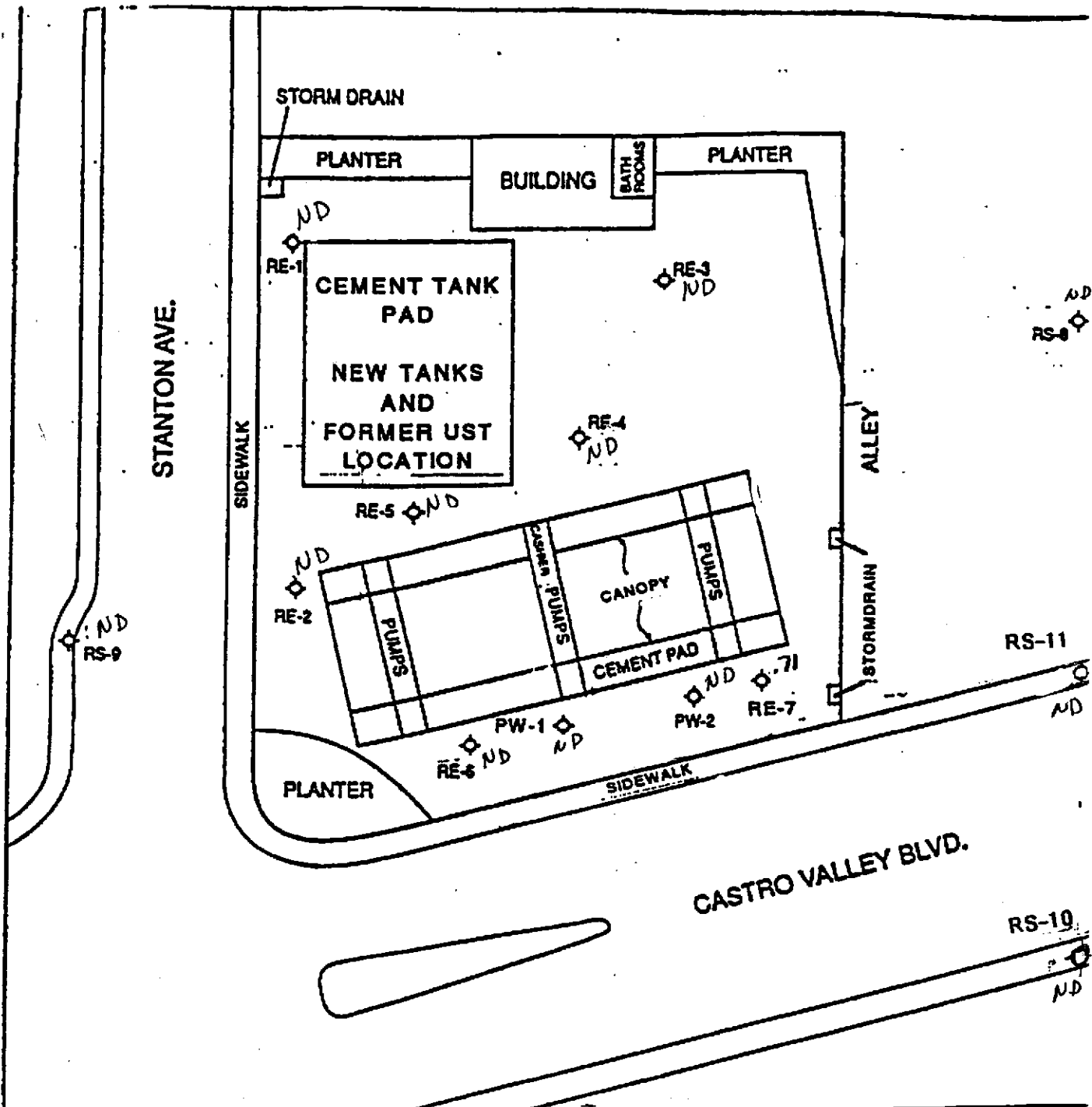
**TPH GROUNDWATER ISOCONCENTRATION MAP PPB**

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



◇ EXISTING MONITORING WELL

**FIGURE 2**



**BENZENE ISOCONCENTRATION MAP PPB**

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



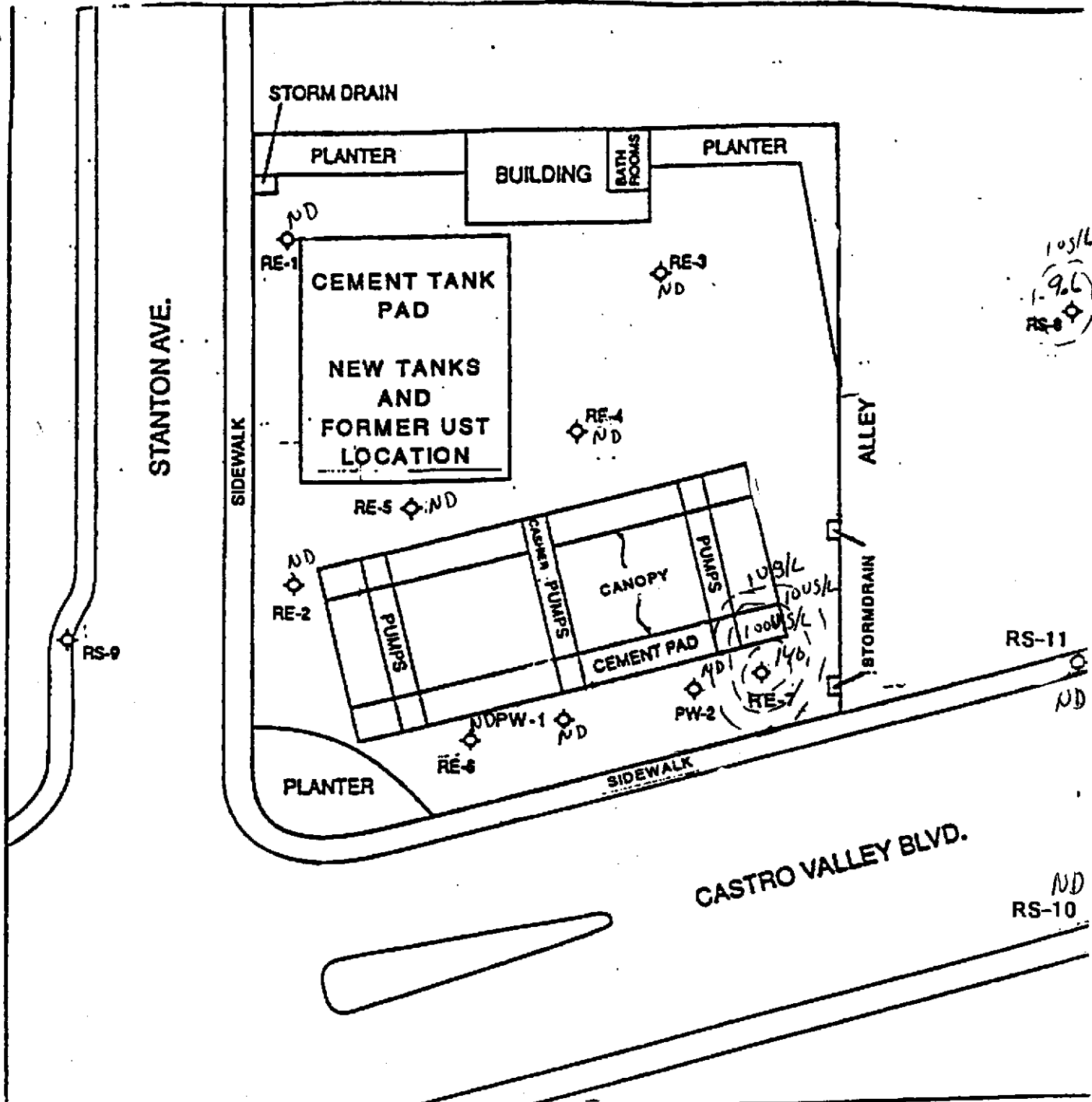
**SCALE IN FEET**



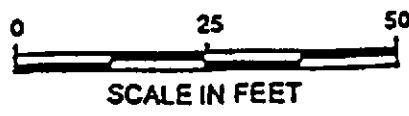
◇ EXISTING MONITORING WELL

**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

FIGURE 4

# TABLE(S)

**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 WELL #PW-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 (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	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
<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
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

**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)					
04/22/92	-	-	-	-	-	-	5.88	FILM	0.00	166.18	160.30
05/21/92	-	-	-	-	-	-	6.03	FLM	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
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	4.40	NP	0.00	166.18	161.78

**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)	MTHB (ug/L)					
<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
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	-	-	-	-	-	-	-	-	-	-	-

**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	-	-	-	-	-	-	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
<b>MONITORING WELL #RE-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
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

**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)	LANDING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
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
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



**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 WELL #RE-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
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	-	-	-	-	-	-	-	-	-	-	-

**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	-	-	-	-	-	-	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
<b>MONITORING WELL #RE-1</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
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	FILM	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

**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)					
04/22/92	-	-	-	-	-	-	5.94	FLM	0.00	166.94	161.00
05/21/92	-	-	-	-	-	-	5.40	FLM	0.00	166.94	161.54
06/25/92	-	-	-	-	-	-	5.71	FLM	0.00	166.94	161.23
07/30/92	-	-	-	-	-	-	6.33	FLM	0.00	166.94	160.61
08/20/92	-	-	-	-	-	-	5.80	FLM	0.00	166.94	161.14
09/30/92	-	-	-	-	-	-	6.34	FLM	0.00	166.94	160.60
12/23/92	-	-	-	-	-	-	5.50	FLM	0.00	166.94	161.44
03/10/93	-	-	-	-	-	-	4.67	FLM	0.00	166.94	162.27
06/09/93	-	-	-	-	-	-	5.12	FLM	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	FLM	0.00	166.94	161.74
09/06/94	-	-	-	-	-	-	9.85	FLM	0.00	166.94	157.09
12/07/94	-	-	-	-	-	-	5.20	FLM	0.00	166.94	161.74
03/08/95	-	-	-	-	-	-	4.98	FLM	0.00	166.94	161.96
06/15/95	-	-	-	-	-	-	-	-	-	-	-
09/05/95	-	-	-	-	-	-	13.72	FLM	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
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

**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 WELL #RE-3</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
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	-	4.78	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

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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (ft.)	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	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
<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

**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)					
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	FLM	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
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

**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 WELL #RE-7</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		9.85	166.04	163.60
09/24/91	-	-	-	-	-	-	9.85		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
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		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	-	-	-	-	-	-	-	-	-	-	-

**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	-	-	-	-	-	-	7.98	<b>PLM</b>	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
09/09/97	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
<b>MONITORING WELL #RS-5</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



**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)					
09/14/93	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
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
<b>MONITORING WELL IRS-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

**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)					
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
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

**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 WELL #RS-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
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

**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)					
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
<b>MONITORING WELL #RS-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

**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 or 8260

# APPENDIX A



## 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.: A135054-93  
Date Received: 03/17/99  
Date Reported: 03/29/99  
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
84965	RS-10 ✓	03/15/99	03/19/99	<50	50
84966	RS-11 ✓	03/15/99	03/19/99	<50	50
84967	RS-8 ✓	03/15/99	03/19/99	<50	50
84968	RE-7 ✓	03/15/99	03/19/99	350	50
84969	PW-2 ✓	03/15/99	03/19/99	<50	50
84970	PW-1 ✓	03/15/99	03/19/99	<50	50
84971	RE-6 ✓	03/15/99	03/19/99	<50	50
84972	RE-2 ✓	03/15/99	03/19/99	<50	50
84973	RE-5 ✓	03/15/99	03/19/99	<50	50
84974	RE-4 ✓	03/15/99	03/19/99	<50	50
84975	RE-3 ✓	03/15/99	03/19/99	<50	50
84976	RE-1 ✓	03/15/99	03/19/99	<50	50
84977	RS-9 ✓	03/15/99	03/19/99	<50	50
84978	Trip Blank	03/15/99	03/19/99	<50	50

MRL: Method Reporting Limit

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

  
George Havalas  
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.: A135054-93  
Date Received: 03/17/99  
Date Reported: 03/29/99  
Units: ug/L

Date Sampled:	03/15/99	03/15/99	03/15/99	03/15/99	
Date Analyzed:	03/19/99	03/19/99	03/19/99	03/19/99	
AA ID No.:	84965	84966	84967	84968	
Client ID No.:	RS-10	RS-11	RS-8	RE-7	MRL
<u>Compounds:</u>					
Benzene	<0.3	<0.3	<0.3	0.71	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	1.3	<0.5	<0.5	<0.5	0.5

  
\_\_\_\_\_  
George Havallas  
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.: A135054-93  
Date Received: 03/17/99  
Date Reported: 03/29/99  
Units: ug/L

Date Sampled:	03/15/99	03/15/99	03/15/99	03/15/99	
Date Analyzed:	03/19/99	03/19/99	03/19/99	03/19/99	
AA ID No.:	84969	84970	84971	84972	
Client ID No.:	PW-2	PW-1	RE-6	RE-2	MRL
<u>Compounds:</u>					
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 Havaitas  
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.: A135054-93  
Date Received: 03/17/99  
Date Reported: 03/29/99  
Units: ug/L

Date Sampled:	03/15/99	03/15/99	03/15/99	03/15/99	
Date Analyzed:	03/19/99	03/19/99	03/19/99	03/19/99	
AA ID No.:	84973	84974	84975	84976	
Client ID No.:	RE-5	RE-4	RE-3	RE-1	MRL
<u>Compounds:</u>					
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

Page 4

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

AA Project No.: A135054-93  
Date Received: 03/17/99  
Date Reported: 03/29/99  
Units: ug/L

Date Sampled:	03/15/99	03/15/99	
Date Analyzed:	03/19/99	03/19/99	
AA ID No.:	84977	84978	
Client ID No.:	RS-9	Trip Blank	MRL
<b>Compounds:</b>			
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.: A135054-93  
Date Received: 03/17/99  
Date Reported: 03/29/99  
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
84965	RS-10	03/15/99	03/19/99	<5	5
84966	RS-11	03/15/99	03/19/99	<5	5
84967	RS-8	03/15/99	03/19/99	9.6	5
84968	RE-7	03/15/99	03/19/99	140	5
84969	PW-2	03/15/99	03/19/99	<5	5
84970	PW-1	03/15/99	03/19/99	<5	5
84971	RE-6	03/15/99	03/19/99	8.4	5
84972	RE-2	03/15/99	03/19/99	<5	5
84973	RE-5	03/15/99	03/19/99	<5	5
84974	RE-4	03/15/99	03/19/99	<5	5
84975	RE-3	03/15/99	03/19/99	<5	5
84976	RE-1	03/15/99	03/19/99	<5	5
84977	RS-9	03/15/99	03/19/99	<5	5
84978	Trip Blank	03/15/99	03/19/99	<5	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) 998-6548

1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

DATE 03.15.99

PAGE 1 OF 4

AA Client <b>THRIFTY OIL CO.</b>	Phone <b>(562) 921-3581</b>	Sampler's Name <b>DERBAW P.</b>
Project Manager <b>JEFF SURYARUSUMA</b>	P.O. No.	Sampler's Signature <i>[Signature]</i>
Project Name <b>Q.V.-S.</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	

AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	TPH	BTEX	MDE										
84965	RS-10	03.15.99	16:10	WATER	3	X	X	X										
84966	RS-11	↑	16:20	↑	3	X	X	X										
84967	RS-8	↑	16:30	↑	3	X	X	X										
84968	RE-7	↑	16:40	↑	3	X	X	X										
84969	PW-2	↑	16:45	↑	3	X	X	X										
84970	PW-1	↑	16:50	↑	3	X	X	X										
84971	RE-6	↑	16:55	↑	3	X	X	X										
84972	RE-2	↑	17:00	↑	3	X	X	X										
84973	RE-5	↑	17:05	↑	3	X	X	X										
84974	RE-4	↑	17:10	↑	3	X	X	X										
84975	RE-3	↑	17:15	↑	3	X	X	X										
84976	RE-1	↑	17:20	↑	3	X	X	X										
84977	RS-9	↑	17:25	↑	3	X	X	X										
84978	TRIPBLANK	↓	7:30	↓	2	X	X											

<b>SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB</b> 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: _____ AA Project No. <b>A135054-93</b>	Relinquished by: <i>[Signature]</i>	Date <b>03.15.99</b>	Time <b>17:00</b>	Received by: <b>CA. OVERNIGHT</b>
	Relinquished by: <b>CA. OVERNIGHT</b>	Date <b>03.15.99</b>	Time <b>17:30</b>	Received by:
	Relinquished by:	Date <b>3/17/99</b>	Time <b>1006</b>	Received by: <i>[Signature]</i>
	Relinquished by:	Date	Time	Received by:

DISTRIBUTION: White - Laboratory, Canary - Laboratory, Pink - Account Executive, Gold - Client

# APPENDIX B



**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.:** A135054-92 ✓  
**Date Received:** 02/18/99  
**Date Reported:** 03/01/99  
**Units:** ug

AA I.D. No.	Client I.D. No.	Date Sampled	Date Extracted	Date Analyzed	Results	MRL
83606	Effluent	02/18/99	02/25/99	02/25/99	<0.1	0.1
83607	Trip Blank	02/18/99	02/25/99	02/25/99	<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: 02-18-99

PAGE 1 OF 4

AA Client <b>THRIFTY OIL CO.</b>	Phone <b>(562) 921-3581</b>	Sampler's Name <b>SERGEAN P.</b>
Project Manager <b>JEFF SURYAKUSUMA</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 2504 CASTRO VALLEY BLVD. CASTRO VALLEY, 94546</b>	<b>ANALYSIS REQUIRED</b>	Test Requirements
Detection Limits		
Test Name	<b>BENZENE</b>	

AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	ANALYSIS REQUIRED													
83606	EFFLUENT	02.18.99	17:00	AIR	16.	X													
83607	TRIP BLANK	02.18.99	17:00	AIR	16.	X													

<b>SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB</b>		Relinquished by:	Date	Time	Received by:
Samples Intact	Yes _____ No _____	<i>[Signature]</i>	02.18.99	17:00	CA. OVERNIGHT
Samples Properly Cooled	Yes _____ No _____	CA. OVERNIGHT	02.18.99	17:30	
Samples Accepted	Yes _____ No _____				
# Not Why: _____		Relinquished by:	Date	Time	Received by:
AA Project No. <b>A135054-92</b>					



**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.:** A135054-91 ✓  
**Date Received:** 01/06/99  
**Date Reported:** 01/13/99  
**Units:** ug

AA I.D. No.	Client I.D. No.	Date Sampled	Date Extracted	Date Analyzed	Results	MRL
81029	Effluent	01/04/99	01/12/99	01/12/99	<0.1	0.1
81030	Trip Blank	01/04/99	01/12/99	01/12/99	<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: 01-04-99

PAGE 1 OF 4

AA Client <b>THRIFTY OIL CO -</b>	Phone <b>(562) 921-3880</b>	Sampler's Name <b>SERRANO P -</b>
Project Manager <b>JEFF SURYAKUSUMA</b>	P.O. No.	Sampler's Signature 
Project Name <b>054</b>	Project No.	Project Manager's Signature

						ANALYSIS REQUIRED										Test Requirements			
Job Name and Address						Detection Limits													
A.A. ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	Test Name													
80960	EFFLUENT	01.04.99	10:00	AIR	1	BENZENE	/												
80961	TRIP BLANK	01.04.99	10:05	AIR	1	BENZENE	/												
/																			

SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB				Relinquished by:	Date	Time	Received by:
Samples Intact	Yes	No			01.04.99	17:00	CA. OVERNIGHT
Samples Properly Cooled	Yes	No		CA. OVERNIGHT	01.04.99	17:30	
Samples Accepted	Yes	No			1-6-99	9:30	Tracy Ireland
If Not Why:							
AA Project No.	A135054-91						

# APPENDIX C



**EARTH MANAGEMENT CO.**

Environmental Remediation

054

**FIELD STATUS REPORT**

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

MAINFOLD															
WELLS	WATER							WELLS	VAPORS						
	ON									ON	RE1		RE3		
OFF								OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	AM	
					HOURS	#	17009	
					ENGINE RPM	RPM	1300	
					ENGINE VACUUM	IN HG	9	
					TK REC TEMP	F	98	
					AIR TEMP	F	52	
					AIR FLOW	CFM	14	
					VAPOR FLOW	CFM	17	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	13	
					GAS METER		% 24	
					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. Restart again

SERVICE TECHNICAN [Signature] DATE 04-06-99 THRIFTY OIL CO # 054

54

**FIELD STATUS REPORT**

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

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

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	AM	
					HOURS	#	16992	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	9	
					TK REC TEMP	F	100	
					AIR TEMP	F	53	
					AIR FLOW	CFM	16	
					VAPOR FLOW	CFM	17	
					FUEL FLOW	CFM/H	75	
					WELL VACUUM	IN H2O	13	
					GAS METER		% 28	

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: ENGINE WAS SHUT DOWN. I REPLACE COIL AND RESTART AGAIN

SERVICE TECHNICAN T. J. [Signature] DATE 02-29-94 THRIFTY OIL CO # 024

**FIELD STATUS REPORT**

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

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

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	16:24	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	13	
					TK REC TEMP	F	100	
					AIR TEMP	F	58	
					AIR FLOW	CFM	14	
					VAPOR FLOW	CFM	11	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	13	
					GAS METER		% 30	
					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: *Engine not shut down after maintenance finished.*

SERVICE TECHNICAN   J. Miller   DATE   8-22-84   THRIFTY OIL CO #   504



THRIFTY OIL CO. SS #054  
 2504 CASTRO VALLEY BLVD.  
 CASTRO VALLEY, CA 94546  
 DATE: 03-15-99

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	6.35				X			X		X	-					
M	PW-2	4.40				X			X		X	-					
M	RE-1	5.68				X			X		X	-		X			
M	RE-2	4.20				X			X		X	-					
M	RE-3	4.15				X			X		X	-		X			
M	RE-4	3.85				X			X		X	-					
M	RE-5	5.25				X			X		X	-					
M	RE-6	4.82				X			X		X	-		X			
M	RE-7	6.02				X			X		X	-		X			
M	RS-8	9.85				X			X		-	X					
M	RS-9	4.25				X			X		-	X					
M	RS-10	4.50				X			X		X						
M	RS-11	6.40				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: WATER SIDE ARE SHUT DOWN

FREE PRODUCT REMOVED: APPROX. \_\_\_\_\_ GALLONS WATER REMOVED: APPROX. 200 GALLONS

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

**FIELD DATA -GROUNDWATER SAMPLING PROGRAM**

Site:	SS # 054	Date:	03-15-1999
Address:			
Personnel:		Weather:	SUNNY DAY
Well No:	RS-10	Equip:	PATLVER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	24.40	Well Diameter	2"
Depth to Water (ft)	4.50	Est. Purge Volume:	13

<b>Sampling Data:</b>							
<b>Initial Turbidity:</b>				<b>Final Turbidity:</b>			
Time	7:48	7:50	7:52	7:54	7:56	7:58	8:00
EC	1670	1630	1610	1590	1580	1560	1540
pH	5.22	5.17	5.11	5.08	5.03	4.96	4.91
Temp	70.3	70.1	69.9	69.7	69.6	69.4	69.1
Gal.	1	3	5	7	9	11	13
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>			
Depth to Water (ft.)	3.40	Total Well Depth(ft.)	24.40

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site: <u>004</u>	Date: <u>03-15-99</u>
Address: _____	
Personnel: <u>DERSTIN</u>	Weather: <u>SUNNY DRY</u>
Well No: <u>PW-1</u>	Equip: <u>BUTLER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>14.00</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>6.35</u>	Est. Purge Volume:	<u>20</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>9:42</u>	<u>9:45</u>	<u>9:48</u>	<u>9:51</u>	<u>9:54</u>	<u>9:57</u>	<u>10:00</u>
EC	<u>1730</u>	<u>1710</u>	<u>1690</u>	<u>1670</u>	<u>1650</u>	<u>1630</u>	<u>1610</u>
pH	<u>5.21</u>	<u>5.17</u>	<u>5.13</u>	<u>5.08</u>	<u>5.05</u>	<u>5.01</u>	<u>4.98</u>
Temp	<u>21.1</u>	<u>20.9</u>	<u>20.7</u>	<u>20.6</u>	<u>20.5</u>	<u>20.1</u>	<u>69.9</u>
Gal.	<u>2</u>	<u>5</u>	<u>8</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>20</u>
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	<u>6.20</u>
Total Well Depth (ft.)	<u>14.00</u>



**FIELD DATA - GROUNDWATER SAMPLING PROGRAM**

Site:	⇒ 054	Date:	03-15-99
Address:			
Personnel:		Weather:	SUNNY DM
Well No:	R3-8	Equip:	BAILER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	25.18	Well Diameter	2"
Depth to Water (ft)	9.85	Est. Purge Volume:	10

<b>Sampling Data:</b>							
<b>Initial Turbidity:</b>				<b>Final Turbidity:</b>			
Time	8:21	8:22	8:24	8:25	8:27	8:28	8:30
EC	1720	1710	1690	1610	1630	1610	1590
pH	5.14	5.04	5.06	5.03	4.98	4.94	4.91
Temp	71.3	71.1	70.9	70.7	70.6	70.4	70.3
Gal.	1	2	4	5	7	8	10
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	7.40
Total Well Depth(ft.)	25.18

**FIELD DATA - GROUNDWATER SAMPLING PROGRAM**

Site: <u>W054</u>	Date: <u>03-15-99</u>
Address: _____	
Personnel: <u>JERSON</u>	Weather: <u>SUNNY dry</u>
Well No: <u>RE-2</u>	Equip: <u>BAUER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>17.20</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>4.20</u>	Est. Purge Volume:	<u>34</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>10:40</u>	<u>10:45</u>	<u>10:50</u>	<u>10:55</u>	<u>11:00</u>	<u>11:05</u>	<u>11:10</u>
EC	<u>1320</u>	<u>1310</u>	<u>1290</u>	<u>1270</u>	<u>1230</u>	<u>1210</u>	<u>1690</u>
pH	<u>5.23</u>	<u>5.21</u>	<u>5.17</u>	<u>5.13</u>	<u>5.09</u>	<u>5.04</u>	<u>5.01</u>
Temp	<u>70.3</u>	<u>70.1</u>	<u>69.9</u>	<u>69.7</u>	<u>69.5</u>	<u>69.3</u>	<u>69.1</u>
Gal.	<u>4</u>	<u>9</u>	<u>14</u>	<u>19</u>	<u>24</u>	<u>29</u>	<u>34</u>
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	<u>9.90</u> Total Well Depth(ft.) <u>17.20</u>

**FIELD DATA - GROUNDWATER SAMPLING PROGRAM**

Site:	054	Date:	3-15-99
Address:			
Personnel:	TERBATA	Weather:	SUNNY
Well No:	PW-2	Equip:	BAILER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	14.35	Well Diameter	4"
Depth to Water (ft)	4.40	Est. Purge Volume:	26

<b>Sampling Data:</b>							
<b>Initial Turbidity:</b>				<b>Final Turbidity:</b>			
Time	9:08	9:12	9:16	9:14	9:23	9:27	9:30
EC	1830	1840	1790	1770	1740	1730	1690
pH	5.09	5.04	5.01	4.98	4.96	4.93	4.86
Temp	71.3	71.1	70.9	70.7	70.1	70.3	70.1
Gal.	3	7	11	14	18	22	26
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	3.10
Total Well Depth(ft).	14.35

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site: <u>004</u>	Date: <u>03-15-99</u>
Address: _____	
Personnel: <u>DERBY</u>	Weather: <u>BUNNY DAY</u>
Well No: <u>PW-1</u>	Equip: <u>BTLER</u>

**Before Purging:**

Total Well Depth: (ft.) <u>14.00</u>	Well Diameter: <u>4"</u>
Depth to Water (ft.) <u>6.35</u>	Est. Purge Volume: <u>20</u>

**Sampling Data:**

**Initial Turbidity:**

**Final Turbidity:**

Time	9:43	9:45	9:48	9:51	9:54	9:57	10:00
EC	1730	1710	1690	1670	1640	1630	1610
pH	5.21	5.17	5.13	5.08	5.03	5.01	4.98
Temp	70.1	70.9	70.7	70.6	70.5	70.1	69.9
Gal.	2	5	8	11	14	17	20

Time							
EC							
pH							
Temp							
Gal.							

**After Purging/Before Sample Collection**

Depth to Water (ft.) <u>6.20</u>	Total Well Depth(ft.) <u>14.00</u>
----------------------------------	------------------------------------

**FIELD DATA -GROUNDWATER SAMPLING PROGRAM**

Site: <u>→ 054</u>	Date: <u>3-15-99</u>
Address: _____	
Personnel: <u>BERBON</u>	Weather: <u>SUNNY</u>
Well No: <u>RE-6</u>	Equip: <u>BAILER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>13.60</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>4.82</u>	Est. Purge Volume:	<u>23</u>

<b>Sampling Data:</b>							
<b>Initial Turbidity:</b>				<b>Final Turbidity:</b>			
Time	<u>10:10</u>	<u>10:13</u>	<u>10:16</u>	<u>10:20</u>	<u>10:23</u>	<u>10:26</u>	<u>10:30</u>
EC	<u>1740</u>	<u>1720</u>	<u>1710</u>	<u>1690</u>	<u>1660</u>	<u>1630</u>	<u>1620</u>
pH	<u>5.14</u>	<u>5.09</u>	<u>5.03</u>	<u>4.98</u>	<u>5.43</u>	<u>5.84</u>	<u>5.84</u>
Temp	<u>20.3</u>	<u>20.1</u>	<u>69.9</u>	<u>69.7</u>	<u>69.6</u>	<u>69.4</u>	<u>69.3</u>
Gal.	<u>3</u>	<u>6</u>	<u>9</u>	<u>13</u>	<u>16</u>	<u>19</u>	<u>23</u>
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	<u>3.40</u> Total Well Depth(ft.) <u>13.60</u>

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site: <u>20 H 054</u>	Date: <u>03-15-99</u>
Address: _____	
Personnel: <u>32 RBOM</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>RG-2</u>	Equip: <u>BAILER</u>

Before Purging:

Total Well Depth: (ft.) <u>17.20</u>	Well Diameter <u>4"</u>
Depth to Water (ft) <u>4.20</u>	Est. Purge Volume: <u>34</u>

Sampling Data:

Initial Turbidity:

Final Turbidity:

Time	10:40	10:45	10:50	10:55	11:00	11:05	11:10
EC	1320	1320	1740	1710	1730	1710	1690
pH	5.23	5.21	5.17	5.13	5.09	5.09	5.11
Temp	70.3	70.1	69.9	69.7	69.5	69.3	69.1
Gal.	4	9	14	19	24	29	34

Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection

Depth to Water (ft.) <u>3.70</u>	Total Well Depth(ft.) <u>17.20</u>
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**FIELD DATA -GROUNDWATER SAMPLING PROGRAM**

Site:	#054	Date:	03-15-1999
Address:			
Personnel:	BERBATA	Weather:	SUNNY DAY
Well No:	RE-5	Equip:	BAILER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	18.23	Well Diameter	44
Depth to Water (ft)	5.25	Est. Purge Volume:	34

<b>Sampling Data:</b>							
<b>Initial Turbidity:</b>				<b>Final Turbidity:</b>			
Time	11:20	11:25	11:30	11:35	11:40	11:45	11:50
EC	1760	1740	1710	1690	1670	1640	1620
pH	5.11	5.09	5.04	5.01	4.98	4.93	4.91
Temp	71.3	71.1	70.9	70.7	70.5	70.3	70.1
Gal.	4	9	14	19	24	29	34
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	4.30
Total Well Depth(ft).	18.23

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site: <u>00 # 054</u>	Date: <u>03-15-99</u>
Address: _____	
Personnel: <u>PERBOM</u>	Weather: <u>SUNNY DM</u>
Well No: <u>RE-4</u>	Equip: <u>BAILER</u>

Before Purging:	
Total Well Depth: (ft.) <u>14.54</u>	Well Diameter <u>4"</u>
Depth to Water (ft.) <u>3.85</u>	Est. Purge Volume: <u>28</u>

Sampling Data:

Initial Turbidity:			Final Turbidity:				
Time	<u>11:56</u>	<u>12:00</u>	<u>12:04</u>	<u>12:08</u>	<u>12:12</u>	<u>12:16</u>	<u>12:20</u>
EC	<u>1720</u>	<u>1700</u>	<u>1690</u>	<u>1670</u>	<u>1630</u>	<u>1610</u>	<u>1530</u>
pH	<u>5.16</u>	<u>5.14</u>	<u>5.10</u>	<u>5.01</u>	<u>5.03</u>	<u>5.03</u>	<u>4.97</u>
Temp	<u>71.3</u>	<u>71.1</u>	<u>70.9</u>	<u>70.7</u>	<u>70.3</u>	<u>70.3</u>	<u>70.1</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.						

After Purging/Before Sample Collection

Depth to Water (ft.) <u>3.10</u>	Total Well Depth (ft.) <u>14.54</u>
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**FIELD DATA - GROUNDWATER SAMPLING PROGRAM**

Site: <u>054</u>	Date: <u>03-15-99</u>
Address: _____	
Personnel: <u>ZERBON</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>RE-3</u>	Equip: <u>BAYLER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>17.55</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>4.15</u>	Est. Purge Volume:	<u>35</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>12:30</u>	<u>12:35</u>	<u>12:40</u>	<u>12:45</u>	<u>12:50</u>	<u>12:55</u>	<u>13:00</u>
EC	<u>1450</u>	<u>1410</u>	<u>1400</u>	<u>1400</u>	<u>1370</u>	<u>1360</u>	<u>1340</u>
pH	<u>5.18</u>	<u>5.13</u>	<u>5.09</u>	<u>5.04</u>	<u>5.01</u>	<u>4.97</u>	<u>4.93</u>
Temp	<u>71.1</u>	<u>70.9</u>	<u>70.7</u>	<u>70.5</u>	<u>70.3</u>	<u>70.1</u>	<u>69.9</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.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	<u>3.60</u> Total Well Depth(ft.) <u>17.55</u>

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site: <u>054</u>	Date: <u>03-15-94</u>
Address: _____	
Personnel: <u>258BWX</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>RE-1</u>	Equip: <u>ROVER</u>

Before Purging:			
Total Well Depth (ft.)	<u>19.83</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>5.68</u>	Est. Purge Volume:	<u>37</u>

Sampling Data:									
Initial Turbidity:				Final Turbidity:					
Time	<u>13:07</u>	<u>13:12</u>	<u>13:17</u>	<u>13:23</u>	<u>13:28</u>	<u>13:33</u>	<u>13:40</u>		
EC	<u>1710</u>	<u>1690</u>	<u>1670</u>	<u>1640</u>	<u>1620</u>	<u>1610</u>	<u>1590</u>		
pH	<u>5.21</u>	<u>5.17</u>	<u>5.14</u>	<u>5.09</u>	<u>5.04</u>	<u>5.01</u>	<u>4.98</u>		
Temp	<u>71.3</u>	<u>71.1</u>	<u>70.9</u>	<u>70.7</u>	<u>70.6</u>	<u>70.4</u>	<u>70.2</u>		
Gal.	<u>5</u>	<u>10</u>	<u>15</u>	<u>21</u>	<u>26</u>	<u>31</u>	<u>37</u>		
Time									
EC									
pH									
Temp									
Gal.									

After Purging/Before Sample Collection	
Depth to Water (ft.)	<u>h<sub>2</sub>O</u>
Total Well Depth (ft.)	<u>19.83</u>

**FIELD DATA -GROUNDWATER SAMPLING PROGRAM**

Site: <u>054</u>	Date: <u>03-15-1999</u>
Address: _____	
Personnel: <u>PERBAW</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>RS-9</u>	Equip: <u>BAILER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>14.98</u>	Well Diameter	<u>2"</u>
Depth to Water (ft)	<u>4.25</u>	Est. Purge Volume:	<u>7</u>

<b>Sampling Data:</b>							
<b>Initial Turbidity:</b>				<b>Final Turbidity:</b>			
Time	<u>13:44</u>	<u>13:45</u>	<u>13:46</u>	<u>13:47</u>	<u>13:48</u>	<u>13:49</u>	<u>13:50</u>
EC	<u>1850</u>	<u>1830</u>	<u>1840</u>	<u>1770</u>	<u>1760</u>	<u>1740</u>	<u>1730</u>
pH	<u>5.18</u>	<u>5.14</u>	<u>5.09</u>	<u>5.04</u>	<u>5.01</u>	<u>4.98</u>	<u>4.93</u>
Temp	<u>70.3</u>	<u>70.1</u>	<u>69.9</u>	<u>69.7</u>	<u>69.5</u>	<u>69.3</u>	<u>69.1</u>
Gal.	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>
Time							
EC							
pH							
Temp							
Gal.							

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

# EARTH MANAGEMENT CO.

Environmental Remediation



# FIELD STATUS REPORT

054

## 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	PM	
					HOURS	#	16698	
					ENGINE RPM	RPM	1600	
					ENGINE VACUUM	IN HG	13	
					TK REC TEMP	F	95	
					AIR TEMP	F	53	
					AIR FLOW	CFM	13	
					VAPOR FLOW	CFM	11	
					FUEL FLOW	CFM/H	70	
					WELL VACUUM	IN H2O	13	
					GAS METER		%40	

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: ENGINE MUST RESTART

SERVICE TECHNICIAN [Signature] DATE 03-12-99 THRIFTY OIL CO # 056

T.O.C. SS# 054

VAPOR EXTRACTION SYSTEM MODEL:

VAPOR READING

DATE: 03-15-1999

READING	PORT	FREQUENCY	R.O.C. READING (PPM)		PERMIT LIMITS	COMMENTS
			W/ CARBON	W/O CARBON		
TOTAL INLET BEFORE DILUTION.		W	166	210		
TOTAL INLET AFTER DILUTION &/OR MIXING.		W	141	193		
INTERMEDIATE 1 ( AFTER 1ST SECTION OF THE TREATMENT UNIT ) OR OUTLET FROM ENGINE BEFORE CATALYTIC.		W				
INTERMEDIATE 2.		W				
OUTLET FROM SYSTEM (EXHAUST).		W	80	110		
WELLS CONNECTED TO SYSTEM.						
WELL ID	ON	OFF				
RE-1	✓		62	91	?	
RE-3	✓		58	80	?	
RE-6	✓		60	94	?	
RE-7	✓		66	101	?	

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

TECHNICIAN NAME: SERBAN P

**FIELD STATUS REPORT**

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

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

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	16538	
					ENGINE RPM	RPM	1700	
					ENGINE VACUUM	IN HG	B	
					TK REC TEMP	F	100	
					AIR TEMP	F	93	
					AIR FLOW	CFM	14	
					VAPOR FLOW	CFM	8	
					FUEL FLOW	CFM/H	65	
					WELL VACUUM	IN H2O	B	
					GAS METER		0.35	

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: ENGINE WAS SHUT DOWN. RESTART ACTION.

SERVICE TECHNICAN J. W. [Signature] DATE \_\_\_\_\_ THRIFTY OIL CO # 054

**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	DTD	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	AM	
					HOURS	#	16207	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	14	
					TK REC TEMP	F	95	
					AIR TEMP	F	52	
					AIR FLOW	CFM	14	
					VAPOR FLOW	CFM	12	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	13	
					GAS METER		40%	

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: WATER SYSTEM IS SHUT DOWN FOR CHARGE CARBON - AIR DRYING -

SERVICE TECHNICIAN Stevenson DATE 02-15-99 THRIFTY OIL CO # 054

**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					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	AM	
					HOURS	#	16110	
					ENGINE RPM	RPM	2000	
					ENGINE VACUUM	IN HG	9	
					TK REC TEMP	F	90	
					AIR TEMP	F	60	
					AIR FLOW	CFM	20	
					VAPOR FLOW	CFM	10	
					FUEL FLOW	CFM/H	70	
					WELL VACUUM	IN H2O	30	
					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	>2800	
					OUTLET	PPM	260	

COMMENTS: WATER SYSTEM SHUT DOWN

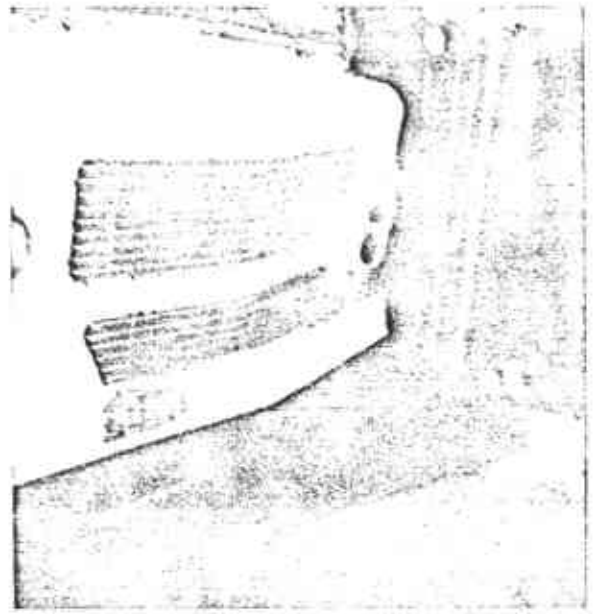
SERVICE TECHNICAN J. L. ... DATE 02-9-91 THRIFTY OIL CO # 054





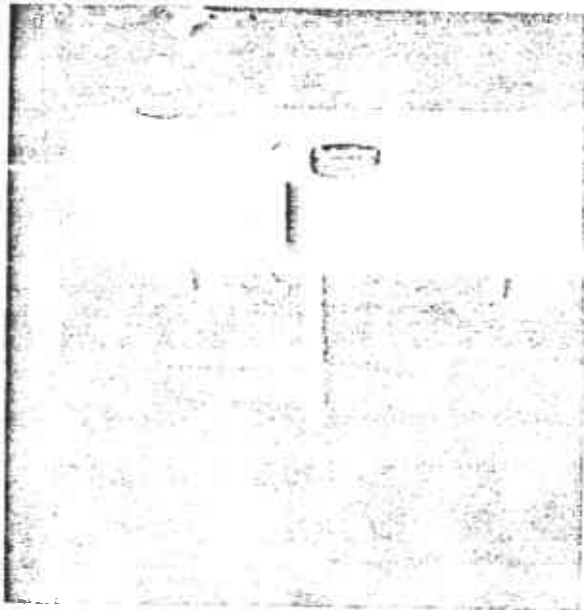
00054

01-05-99



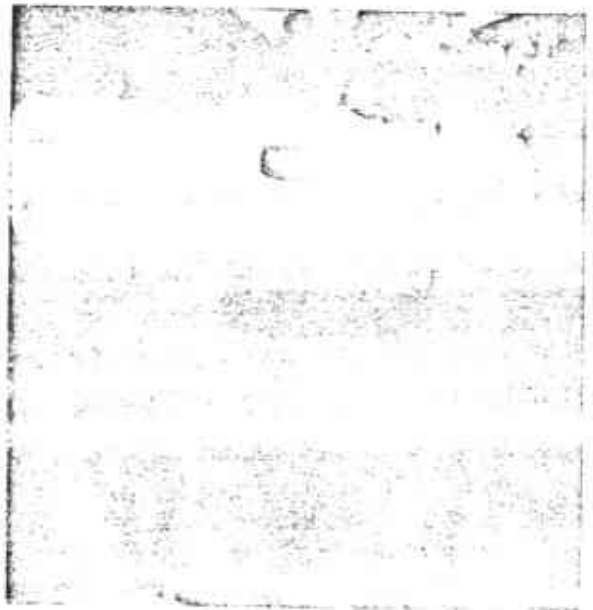
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01-05-99



00054

01-05-99



00054

01-05-99



DATE: 02-02-94

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

START UP REPORT:

SHUT DOWN REPORT:

*System shut down for repair*

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

*[Handwritten Signature]*



DATE: 01-19-99

START UP / SHUT DOWN REPORT  
STATION # RS.1.054  
SYSTEM TYPE :

START UP REPORT:

SHUT DOWN REPORT:

System shut down because propane valve don't work well - After few minute engine stop running -

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

*[Handwritten Signature]*

# EARTH MANAGEMENT CO.

Environmental Remediation

## MAINTENANCE & REPAIR REPORT

A)	SS #: 054	SYSTEM TYPE: 0
B)	DEFICIENCY DESCRIPTION : RSI	
C)	NAME OF REPORTING PARTY AND DATE:	
D)	DATE SCHEDULED : 01-14-99	

1)	NAME:	DATE/TIME
2)	FINDINGS:	
3)	HAS THE JOB BEEN COMPLETED? YES/NO IF "NO", PLEASE DESCRIBE WHY AND WHAT YOU NEED TO FINISH:	
4)	POST REPAIR TEST RESULTS:	
5)	THE CAUSE OF THE DEFICIENCY:	
BRIEF INSTRUCTIONS FOR PREVENTIVE MAINTENANCE TO THE TECHNICIAN:		
TUNE UP ENGINE, CHANGE OIL, CHECK BELTS, PIPE CONNECTIONS, REPLACE LID IN TOP THE WALLS -		
6)	OTHER:	



THRIFTY OIL CO. SS #054  
 2504 CASTRO VALLEY BLVD.  
 CASTRO VALLEY, CA 94546  
 DATE: 01-05-99

PROJECT STATUS REPORT

FREQ.	MONITORING				ODORS			FREE		WELLS CONNECTED TO SYSTEM (W)							
	OBSERVATION WELLS				(S-SLIGHT)			PRODUCT		CONNECT		INTEGRITY		VAPOR		WATER	
	NO.	DTW	DTB	PT	YES	NO	S	YES	NO	YES	NO	OK	NO	ON	OFF	ON	OFF
M	PW-1	6.55	14.00			X			X		X	-					
M	PW-2	4.80	14.35			X			X		X	-					
M	RE-1	5.63	19.83			X			X					X			
M	RE-2	4.25	17.20			X			X					X			
M	RE-3	4.55	17.55			X			X								
M	RE-4	4.25	14.54			X			X								X
M	RE-5	5.95	18.23			X			X								
M	RE-6	5.23	13.60			X			X					X			
M	RE-7	6.23	13.16			X			X					X			X
M	RS-8	11.30	25.18			X			X		-	X					
M	RS-9	1.25	14.98			X			X		-	X					
M	RS-10	4.40	24.40			X			X			X					
M	RS-11	7.90	24.30			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: INPUT BY: AJB 02/05/97



054

DATE: 01-04-99

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

START UP REPORT:

*Restart system -*

SHUT DOWN REPORT:

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

*[Handwritten Signature]*