

THRIFTY OIL CO.

ENVIRONMENTAL
PROTECTION
96 APR 19 PM 2:07

April 16, 1996

Mr. ~~Scott O. Seary~~ *Amy Leach*
Department of Environmental Health
Hazardous Materials Program
1131 Harbor Bay Parkway
Suite 2501
Alameda, California 94502

RE: THRIFTY OIL CO STATION #054
2504 Castro Valley Boulevard
Castro Valley, California
Quarterly Monitoring Report
4th Quarter 1995

Dear Mr. Seary:

Enclosed, please find the 4th Quarterly Monitoring Report for Thrifty Service Station #054, dated April 9, 1996.

I certify under the penalty of law that this document and all attachments are prepared under my direction in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any question, please call Raymond C. Friedrichsen or myself at (310) 923-9876.

Respectfully,



PETER D'AMICO
Manager
Environmental Affairs



THRIFTY OIL CO.

April 9, 1996

Mr. Scott O. Seary
Alameda County
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, California 94621

RE: **Thrifty Oil Co. Station #054**
2504 Castro Valley Boulevard
Castro Valley, California
4th QUARTER REPORT, 1995

Dear Mr. Seary,

This letter report presents the results of soil/groundwater treatment and site monitoring during the 4th quarter of 1995 at the subject site. The approximate location of the on- and off-site monitoring wells are shown on **Figure 1**. All monitoring is conducted by Earth Management Co. (EMC) of Santa Fe Springs, California.

Site Monitoring and Sample Collection

The site was visited on November 21, 1995, by an EMC technician in order to gauge the wells and collect groundwater samples. Water levels were measured in each well from the rim of the well cover using a Marine Moisture Tape (nearest 0.01 feet) capable of also measuring the presence of free floating hydrocarbons. *Depth to water* ranged from about 2.46 to 12.53 feet below grade which is consistent with previous data collected. As of November 21, 1995, no wells exhibited free product visible as a sheen or film. The depth to water data was used in conjunction with the recent survey data to determine groundwater elevations across the site. The interpretation of groundwater flow across the site is depicted on **Figure 1**. **In general, the groundwater flow was to the east at a calculated gradient of about 0.04 feet per foot.**

Prior to collecting groundwater samples from the wells, about 4 well volumes of groundwater was removed using a PVC bailer. During the purging process, the pH, conductivity and temperature were checked and recorded to insure formation water was entering the well to be sampled. Approximately 5 to 34 gallons of water were removed from each well and stored in 55 gallon D.O.T. approved drums pending disposal or discharge through the treatment unit. Groundwater samples were collected with a Teflon bailer. Samples were maintained and transported in 40 milliliter vials placed on ice pending delivery to American Analytics, a state certified analytical laboratory headquartered in Chatsworth, California. Field monitoring sheets prepared by EMC personnel are included in **Appendix A**.



Analytical Results

Groundwater samples were analyzed for total petroleum hydrocarbons (TPH) and volatile aromatic compounds (BETX) using EPA methods 8015 and 602, respectively. Copies of the laboratory analysis reports are attached in **Appendix B**. A summary of the results are presented in **Table 1**. Isoconcentration maps of TPH and benzene based on the November sampling event are presented as **Figures 2 and 3**.

Treatment Unit Operation Status

Based on the data obtained by EMC, the RSI-SAVE unit operated 182 hours during the reporting period and 12,378 hours total (current meter reading 9294). As of November 30, 1995, a total of about 15,772.1 gallons of water (current meter reading 564.7) had been processed by the unit and discharged to the local sanitary sewer. During the 4th quarter reporting period, 41.3 gallons of water had been processed by the treatment unit and were discharged to the sanitary sewer.

In order to monitor the effects of soil vapor removal, field vapor measurements are collected and recorded from each recovery well on a monthly basis. However, no vapor data was collected during this reporting period. The historical data is included in **Table 2** attached.

Closing

Thrifty will continue to conduct quarterly groundwater monitoring at the site. **In addition, the report documenting installation of one off-site well near the southeast corner of the site (RS-11) is currently being prepared and will be submitted in the near future. If you have any questions, please contact either the undersigned or Ray Friedrichson at (310) 923-9876.**

Very truly yours,

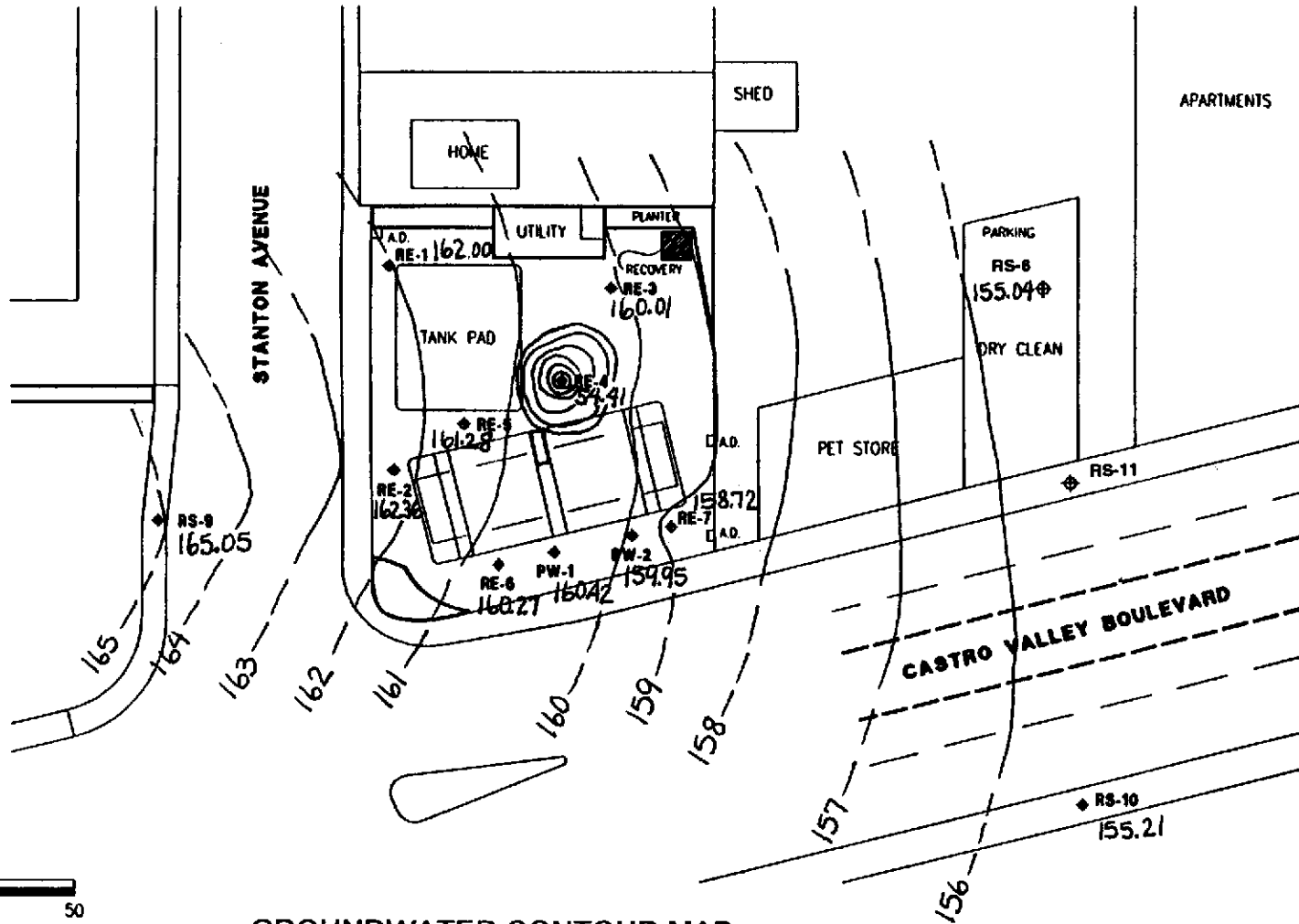


Peter D'Amico
Manager Environmental Affairs

FIGURES

LEGEND


- ⊕ RE-1 / MONITORING WELL
- A.D. AREA DRAIN
- ~ GROUNDWATER CONTOUR (11/21/95)



GROUNDWATER CONTOUR MAP

0 25 50
 - SCALE: 1" = 50'

REVISIONS	BY


 TRINITY OIL COMPANY
 10000 LAKEWOOD BLVD.
 DOWNEY, CA 90246
 (714) 933-9676

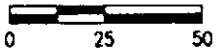
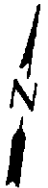
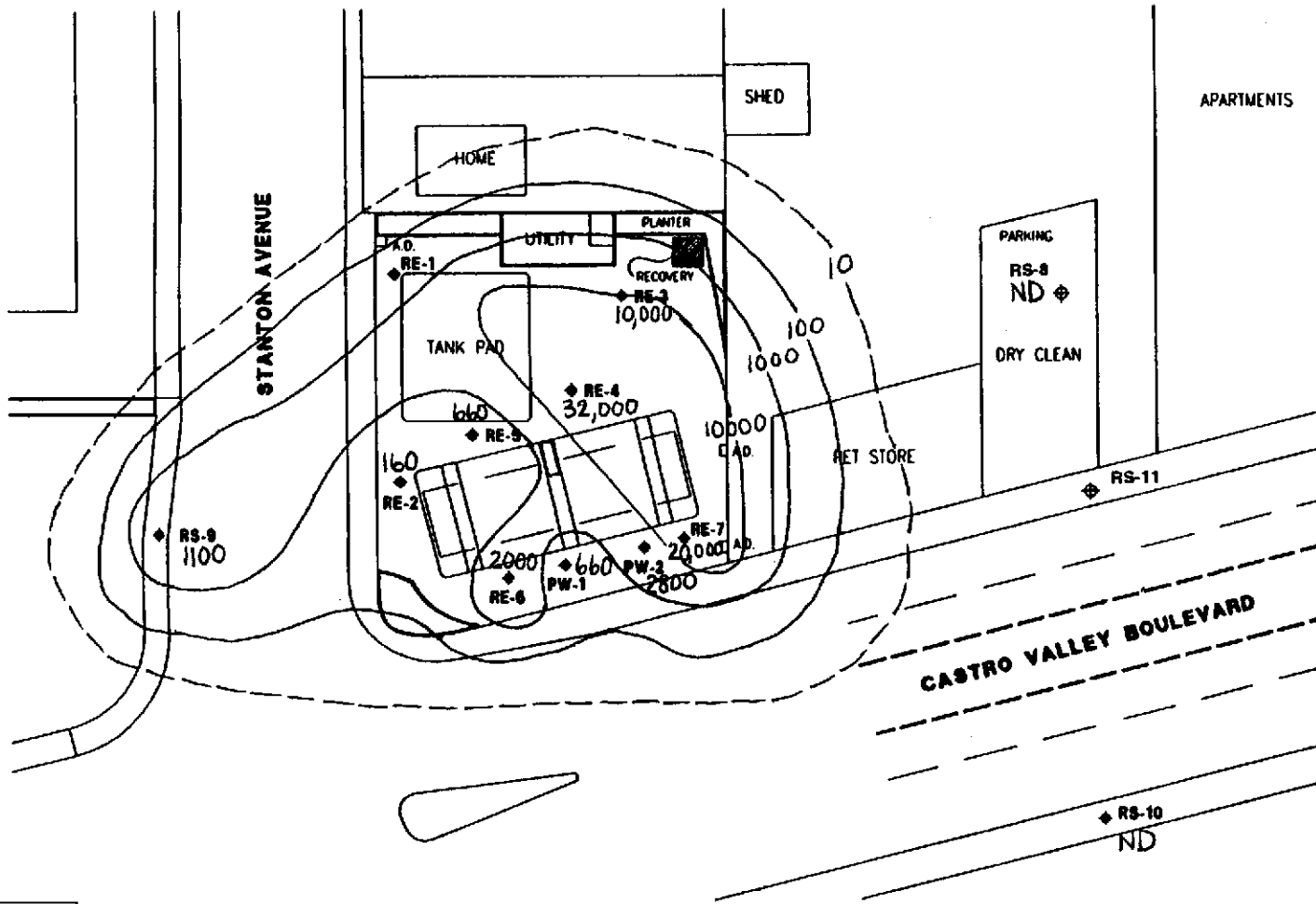
STATION No. 064
CASTRO VALLEY BLVD./STANTON AVE.
CASTRO VALLEY, CA.

DRAWN BY: RCI
05-04-94
1" = 50'-0"

1

LEGEND


- ◆ RE-1 / MONITORING WELL
- A.D. AREA DRAIN
- ~ TPH CONTOUR (11/21/95, mg/l)



SCALE: 1" = 50'

TPH ISOCONCENTRATION MAP

REVISIONS	BY


STATION No. 064
CASTRO VALLEY BLVD./STANTON AVE.
CASTRO VALLEY, CA.

TRINITY OIL COMPANY
 19000 LAKEWOOD BLVD.
 DOWNEY, CA 90248
 (714) 632-8878

DRAWN BY (R)
05-04-94
1" = 50'-0"

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TABLE 1

GROUNDWATER DATA
THRIFTY OIL STATION #54

DATE SAMPLED	TPH	BENZENE	TOLUENE	ETHYL BENZENE	XYLENE	TOP OF CASING	DEPTH TO GROUNDWTR
Monitoring Well PW-1							
Apr 11, 1988	NSC					166.46	
Apr 9, 1990	230000	600	2700	1000	16000		5.10
Oct 30, 1990	35000	240	970	240	3580		6.17
Jan 18, 1991	37000	43	140	42	1600		6.28
Feb 12, 1991	45000	99	130	25	700		5.88
Mar 20, 1991	1900	0.43	ND	ND	2.8		4.75
May 22, 1991	41000	600	730	250	3800		5.10
Jun 19, 1991	NSC						5.61
Jul 17, 1991	NSC						5.53 (Film)
Aug 7, 1991	NSC						5.67 (Film)
Sep 24, 1991	NSC						5.57 (Film)
Oct 23, 1991	NSC						6.53 (Film)
Nov 6, 1991	NSC						5.85 (Film)
Dec 4, 1991	NSC						5.91 (Film)
Jan 29, 1992	NSC						5.43 (Film)
Feb 26, 1992	NSC						5.54 (Film)
Mar 19, 1992	ND	ND	ND	ND	ND		5.47
Apr 22, 1992	NSC						5.62 (Film)
May 21, 1992	1300	19	2.9	0.7	58		6.21
Jun 25, 1992	NSC						6.94
Jul 30, 1992	NSC						5.90 (Film)
Aug 20, 1992	NSC						7.12 (Film)
Sep 30, 1992	3400	57	ND	26	240		6.42
Dec 23, 1992	NSC						5.56 (Film)
Mar 10, 1993	NSC						5.65 (Film)
Jun 9, 1993	400	<0.5	1.1	<1.0	<1.0		5.30
Sep 14, 1993	180	3.7	3.2	1.5	14.0		5.43
Dec 14, 1993	<50	<0.3	<0.3	<0.3	<0.5		4.65
Mar 2, 1994	<50	<0.3	<0.3	<0.3	<0.5		5.43
Jun 6, 1994	330	1.3	<0.3	0.88	9.8		4.70
Sep 6, 1994	1100	67	<0.3	<0.3	24		6.48
Dec 7, 1994	<50	<0.3	<0.3	<0.5	<0.5		5.22
Mar 8, 1995	<100	<0.5	<0.5	<0.5	<1		3.94
Jun 15, 1995	260	0.8	0.6	<0.5	3.2		5.72
Sep 5, 1995	330	2.1	<0.5	2.1	9.6		5.96
Nov 21, 1995	660	13	1.3	<0.3	4.0		6.04

TABLE 1 (Continued)

Monitoring Well PW-2							
Date	TPH	Benzene	Toluene	E-Benzene	Xylenes	Elevation	Depth to GW
Apr 11, 1988	NSC					166.18	
Apr 9, 1990	600000	1300	11000	4600	43000		5.81
Oct 30, 1990	48000	310	51	10	480		6.95
Jan 18, 1991	86000	230	1400	350	8300		6.92
Feb 12, 1991	160000	680	1300	250	7000		6.78
Mar 20, 1991	17000	34	50	ND	1100		5.54
May 22, 1991	14000	57	2100	500	8200		6.07
Jun 19, 1991	NSC						6.37 (Film)
Jul 17, 1991	NSC						6.38 (Film)
Aug 7, 1991	NSC						6.63 (Film)
Sep 24, 1991	NSC						6.42 (Film)
Oct 23, 1991	NSC						7.25 (Film)
Nov 6, 1991	NSC						6.44 (Film)
Dec 4, 1991	NSC						6.65 (Film)
Jan 29, 1992	NSC						6.17 (Film)
Feb 26, 1992	NSC						5.90 (Film)
Mar 19, 1992	NSC						5.80 (Film)
Apr 22, 1992	NSC						5.88 (Film)
May 21, 1992	NSC						6.03 (Film)
Jun 25, 1992	NSC						6.57 (Film)
Jul 30, 1992	NSC						6.20 (Film)
Aug 20, 1992	NSC						6.64 (Film)
Sep 30, 1992	NSC						6.88 (Film)
Dec 23, 1992	NSC						6.08 (Film)
Mar 10, 1993	NSC						5.95 (Film)
Jun 9, 1993	3400	24	2.2	<0.5	240		5.38
Sep 14, 1993	4900	190	15.0	6.8	480		6.26
Dec 14, 1993	1700	4.2	<0.3	<0.3	<0.5		5.22
Mar 2, 1994	NSC						5.75 (Film)
Jun 6, 1994	980	25	1.2	<0.3	42		5.25
Sep 6, 1994	3200	95	3.0	<1.7	76		6.80
Dec 7, 1994	510	1.8	<0.3	<0.5	1.7		5.57
Mar 8, 1995	1900	<0.5	<0.5	1.4	35		4.10
Jun 15, 1995	1700	5.6	<0.5	<0.5	1.6		5.44
Sep 5, 1995	2500	33	1.0	0.86	18		6.13
Nov 21, 1995	2800	130	59	18	190		6.23

TABLE 1 (Continued)

Monitoring Well RE-1							
Date	TPH	Benzene	Toluene	E-Benzene	Xylenes	Elevation	Depth to GW
Apr 11, 1988	37000	1900	8400	1200	15000	166.82	
Apr 9, 1990	45000	6100	7000	2000	8800		4.99
Oct 30, 1990	72000	7700	5300	1800	8900		5.95
Jan 18, 1991	150000	11000	14000	1800	4300		5.17
Feb 12, 1991	140000	11000	12000	1600	13000		4.16
Mar 20, 1991	53000	3100	4200	400	5500		4.75
May 22, 1991	85000	8700	10000	1800	12000		4.42
Jun 19, 1991	110000	8500	9600	2600	16000		4.93
Jul 17, 1991	5500	950	ND	26	ND		5.19
Aug 7, 1991	NA	6700	5000	ND	7100		5.12
Sep 24, 1991	60000	6800	4300	640	6900		5.87
Oct 23, 1991	79000	7900	8300	450	7100		5.81
Nov 6, 1991	130000	14000	15000	1100	8800		5.56
Dec 4, 1991	50000	8000	4700	520	4100		5.35
Jan 29, 1992	21000	10300	11000	780	6000		4.50
Feb 26, 1992	38000	8400	10500	720	7100		5.27
Mar 19, 1992	48000	6200	9700	780	7200		4.47
Apr 22, 1992	NSC						4.62
May 21, 1992	20000	7600	10100	830	6900		4.98
Jun 25, 1992	NSC						5.14 (Film)
Jul 30, 1992	NSC						5.30 (Film)
Aug 20, 1992	NSC						5.28 (Film)
Sep 30, 1992	NSC						5.66 (Film)
Dec 23, 1992	NSC						4.81 (Film)
Mar 10, 1993	NSC						4.13 (Film)
Jun 9, 1993	NSC						4.48 (Film)
Sep 14, 1993	19000	3600	1100	740	4300		5.35
Dec 14, 1993	38000	4300	1300	<6.6	11.0		4.38
Mar 2, 1994	NSC						4.22 (Film)
Jun 6, 1994	NSC						2.16 (Film)
Sep 6, 1994	74000	3300	3900	1200	6100		5.00
Dec 7, 1994	30,000	3200	2900	1200	4600		4.10
Mar 8, 1995	28,000	4200	2300	810	7800		3.92
Jun 15, 1995	NSC						-- (Film)
Sep 5, 1995	NSC						4.78 (Film)
Nov 21, 1995	NA	NA	NA	NA	NA		4.82

TABLE 1 (Continued)

Monitoring Well RE-2							
Date	TPH	Benzene	Toluene	E-Benzene	Xylenes	Elevation	Depth to GW
Apr 11, 1988	NSC					167.19	
Apr 9, 1990	850	5.8	0.5	4.8	1.1		4.90
Oct 30, 1990	440	2.8	0.91	13	3.14		5.34
Jan 18, 1991	1100	8.4	3.1	ND	10		4.90
Feb 12, 1991	1100	5.9	ND	01.77	ND		4.94
Mar 20, 1991	550	4.3	ND	ND	ND		4.32
May 22, 1991	1000	5.3	3.6	4.4	8.9		4.43
Jun 19, 1991	700	2.1	1.4	3.8	3.5		6.43
Jul 17, 1991	880	12.0	8.0	4.3	28.0		4.75
Aug 7, 1991	NA	3.8	1.6	ND	ND		4.87
Sep 24, 1991	670	7.2	7.1	ND	23		5.50
Oct 23, 1991	2700	52	60	22	130		5.63
Nov 6, 1991	1900	18	61	9.1	83		5.14
Dec 4, 1991	1100	26	47	4.3	42		5.26
Jan 29, 1992	900	14	24	5.3	19		5.11
Feb 26, 1992	500	3.4	3.5	2.7	2.7		4.31
Mar 19, 1992	1200	14	20	15	18		4.45
Apr 22, 1992	200	ND	ND	ND	ND		4.78
May 21, 1992	500	7.5	6.8	3.9	7.4		5.02
Jun 25, 1992	ND	ND	0.9	0.7	ND		5.13
Jul 30, 1992	500	7.7	8.6	3.2	1.7		5.19
Aug 20, 1992	1100	6.6	4.5	2.7	2.0		5.27
Sep 30, 1992	500	5.4	2.4	1.8	4.5		5.45
Dec 23, 1992	800	1.9	ND	ND	2.3		4.60
Mar 10, 1993	1200	ND	1.4	ND	2.1		4.18
Jun 9, 1993	200	ND	ND	ND	ND		4.53
Sep 14, 1993	360	1.6	1.1	3.2	8.9		5.26
Dec 14, 1993	260	5.6	3.9	<0.3	21.0		2.75
Mar 2, 1994	410	<0.3	<0.3	<0.3	<0.5		4.27
Jun 6, 1994	760	4.6	<0.3	0.32	1.3		4.88
Sep 6, 1994	1300	43	45	8.9	69		5.16
Dec 7, 1994	NA	NA	NA	NA	NA		4.16
Mar 8, 1995	<100	<0.5	<0.5	<0.5	<1		3.96
Jun 15, 1995	130	<0.5	<0.5	<0.5	<1		4.52
Sep 5, 1995	210	<0.5	<0.5	<0.5	<1		4.76
Nov 21, 1995	160	0.65	<0.3	0.35	0.95		4.83

TABLE 1 (Continued)

Monitoring Well RE-3							
Date	TPH	Benzene	Toluene	E-Benzene	Xylenes	Elevation	Depth to GW
Apr 11, 1988	70000	6600	5300	800	13000	167.39	
Apr 9, 1990	370000	2300	4900	3200	31000		7.15
Oct 30, 1990	13000	860	660	220	2210		7.84
Jan 18, 1991	42000	4700	4500	21	7700		6.90
Feb 12, 1991	72000	3600	4500	ND	7600		6.62
Mar 20, 1991	65000	2400	9400	50	9800		5.87
May 22, 1991	NSC						5.98 (Film)
Jun 19, 1991	NSC						6.84 (Film)
Jul 17, 1991	NSC						7.10 (Film)
Aug 7, 1991	NSC						7.30 (Film)
Sep 24, 1991	NSC						7.84 (Film)
Oct 23, 1991	NSC						8.07 (Film)
Nov 6, 1991	NSC						7.63 (Film)
Dec 4, 1991	NSC						7.83 (Film)
Jan 29, 1992	NSC						7.17 (Film)
Feb 26, 1992	NSC						5.56 (Film)
Mar 19, 1992	NSC						5.44 (Film)
Apr 22, 1992	NSC						6.56 (Film)
May 21, 1992	NSC						6.90 (Film)
Jun 25, 1992	NSC						7.18 (Film)
Jul 30, 1992	NSC						6.80 (Film)
Aug 20, 1992	NSC						7.25 (Film)
Sep 30, 1992	NSC						7.68 (Film)
Dec 23, 1992	NSC						6.07 (Film)
Mar 10, 1993	NSC						5.66 (Film)
Jun 9, 1993	NSC						6.66 (Film)
Sep 14, 1993	40000	2900	1500	180	6900		7.30
Dec 14, 1993	NSC						5.95
Mar 2, 1994	NSC						5.08
Jun 6, 1994	NSC						6.35 (Film)
Sep 6, 1994	11000	260	26	<6.6	1000		7.50
Dec 7, 1994	NSC						5.48 (Film)
Mar 8, 1995	NSC						5.18 (Film)
Jun 15, 1995	NSC						-- (Film)
Sep 5, 1995	NSC						6.84 (Film)
Nov 21, 1995	10,000	210	<3	4.5	330		7.38

* TABLE 1 (Continued)

Monitoring Well RE-4							
Date	TPH	Benzene	Toluene	E-Benzene	Xylenes	Elevation	Depth to GW
Apr 11, 1988	150000	12000	8000	1000	27000	166.94	
Apr 9, 1990	NSC						
Oct 30, 1990	87000	7200	10000	1600	12900		7.04
Jan 18, 1991	70000	5000	5400	790	9900		11.62
Feb 12, 1991	87000	5200	2800	240	11000		11.63
Mar 20, 1991	6500	370	230	17	670		11.61
May 22, 1991	NSC						10.3 (Film)
Jun 19, 1991	NSC						11.1 (Film)
Jul 17, 1991	NSC						6.20 (Film)
Aug 7, 1991	NSC						8.15 (Film)
Sep 24, 1991	NSC						10.4 (Film)
Oct 23, 1991	NSC						11.2 (Film)
Nov 6, 1991	NSC						6.62 (Film)
Dec 4, 1991	NSC						11.2 (Film)
Jan 29, 1992	NSC						7.72 (Film)
Feb 26, 1992	NSC						5.13 (Film)
Mar 19, 1992	NSC						5.00 (Film)
Apr 22, 1992	NSC						5.94 (Film)
May 21, 1992	NSC						5.40 (Film)
Jun 25, 1992	NSC						5.71 (Film)
Jul 30, 1992	NSC						6.33 (Film)
Aug 20, 1992	NSC						5.80 (Film)
Sep 30, 1992	NSC						6.34 (Film)
Dec 23, 1992	NSC						5.50 (Film)
Mar 10, 1993	NSC						4.67 (Film)
Jun 9, 1993	NSC						5.12 (Film)
Sep 14, 1993	NSC						10.44
Dec 14, 1993	NSC						7.52
Mar 2, 1994	NSC						4.85
Jun 6, 1994	NSC						5.20 (Film)
Sep 6, 1994	NSC						9.85 (Film)
Dec 7, 1994	NSC						5.20 (Film)
Mar 8, 1995	NSC						4.98 (Film)
Jun 15, 1995	NSC						-- (Film)
Sep 5, 1995	NSC						13.72 (Film)
Nov 21, 1995	32,000	46	21	66	340		12.53

TABLE 1 (Continued)

Monitoring Well RE-5							
Date	TPH	Benzene	Toluene	E-Benzene	Xylenes	Elevation	Depth to GW
Apr 11, 1988	14000	1300	1100	100	2600	166.51	
Apr 9, 1990	3000	690	190	40	270		4.79
Oct 30, 1990	3400	910	48	87	249		5.86
Jan 18, 1991	1400	180	8.6	0.52	48		4.40
Feb 12, 1991	1000	ND	ND	0.65	ND		4.76
Mar 20, 1991	3000	250	53	ND	110		5.08
May 22, 1991	2500	330	7.8	5.6	200		4.52
Jun 19, 1991	2000	59	1.6	5.1	110		4.39
Jul 17, 1991	NSC						5.05 (Film)
Aug 7, 1991	NSC						5.02 (Film)
Sep 24, 1991	NSC						5.86 (Film)
Oct 23, 1991	NSC						5.84 (Film)
Nov 6, 1991	9900	2300	37	260	160		5.48
Dec 4, 1991	4500	1000	27	ND	180		5.43
Jan 29, 1992	600	6.1	2.3	ND	47		5.12
Feb 26, 1992	500	5.4	2.7	1.2	14		4.93
Mar 19, 1992	ND	1.7	1.1	ND	5.5		4.45
Apr 22, 1992	1600	240	2.2	ND	160		4.63
May 21, 1992	1200	410	37	ND	118		4.90
Jun 25, 1992	ND	1.0	0.8	0.8	0.4		5.15
Jul 30, 1992	ND	2.0	1.8	1.9	6.4		5.30
Aug 20, 1992	300	1.7	3.3	0.7	12		5.44
Sep 30, 1992	1900	140	ND	19	35		5.73
Dec 23, 1992	400	8.0	ND	ND	ND		4.75
Mar 10, 1993	1100	290	9.7	ND	75		4.14
Jun 9, 1993	400	1.5	0.5	ND	12		5.42
Sep 14, 1993	240	6.9	8.8	1.4	67		5.53
Dec 14, 1993	3300	510	5.4	4.1	55		4.78
Mar 2, 1994	2400	270	4.5	<0.3	13		4.20
Jun 6, 1994	730	<0.3	<0.3	0.70	22		5.13
Sep 6, 1994	2400	180	28	2.3	76		5.45
Dec 7, 1994	540	5.6	<0.3	<0.5	6.9		4.13
Mar 8, 1995	1500	220	5.5	<0.5	83		5.2
Jun 15, 1995	3200	820	53	6.2	74		4.93
Sep 5, 1995	4400	440	22	<2.5	57		5.03
Nov 21, 1995	660	3.4	<0.3	<0.3	0.6		5.23

TABLE 1 (Continued)

Monitoring Well RE-6							
Date	TPH	Benzene	Toluene	E-Benzene	Xylenes	Elevation	Depth to GW
Apr 11, 1988	6000	3000	40	80	140	166.51	
Apr 9, 1990	3000	990	ND	70	ND		5.64
Oct 30, 1990	3400	1000	28	ND	ND		6.68
Jan 18, 1991	6300	1200	ND	3	15		6.61
Feb 12, 1991	5200	850	8.4	4.9	41		6.20
Mar 20, 1991	5800	680	12	8	16		5.62
May 22, 1991	8500	1700	14	24	6.7		6.05
Jun 19, 1991	NSC						6.12 (Film)
Jul 17, 1991	120000	9300	13000	2400	16000		6.20
Aug 7, 1991	NA	590	5.3	ND	14		6.27
Sep 24, 1991	7000	310	11	5.3	35		6.63
Oct 23, 1991	NSC						6.36 (Film)
Nov 6, 1991	4000	710	18	29	49		6.15
Dec 4, 1991	4100	1100	14	33	39		6.19
Jan 29, 1992	2600	790	14	ND	49		6.70
Feb 26, 1992	3100	950	21	30	33		5.44
Mar 19, 1992	2200	630	14	12	40		5.30
Apr 22, 1992	NA	730	2.2	ND	40		6.00
May 21, 1992	1500	840	7.8	7.1	34		6.25
Jun 25, 1992	<2000	740	8	27	28		6.38
Jul 30, 1992	NSC						6.42 (Film)
Aug 20, 1992	2800	630	17	23	22		6.50
Sep 30, 1992	7800	540	ND	12	29		6.66
Dec 23, 1992	1800	350	ND	7.7	11		5.83
Mar 10, 1993	3000	830	5.6	19	16		5.63
Jun 9, 1993	4800	920	6.2	3.2	12		6.01
Sep 14, 1993	3600	660	7.5	11	27		6.53
Dec 14, 1993	1500	200	<0.3	<0.3	8.8		3.58
Mar 2, 1994	NSC						5.12
Jun 6, 1994	2400	290	4.6	1.3	24		1.85
Sep 6, 1994	4300	230	21	<6.6	130		6.40
Dec 7, 1994	1500	17	2.5	3.2	22		5.68
Mar 8, 1995	2500	460	5.5	2.1	51		5.12
Jun 15, 1995	2300	91	1.1	0.7	97		5.72
Sep 5, 1995	3300	60	<10	<10	74		5.94
Nov 21, 1995	2000	73	<0.3	0.56	87		6.24

TABLE 1 (Continued)

Monitoring Well RE-7							
Date	TPH	Benzene	Toluene	E-Benzene	Xylenes	Elevation	Depth to GW
Apr 11, 1988	<50000	17000	4400	600	8400	166.04	
Apr 9, 1990	16000	7000	1200	640	1600		5.93
Oct 30, 1990	31000	14000	ND	ND	ND		8.21
Jan 18, 1991	NSC						11.8 (Film)
Feb 12, 1991	NSC						10.8 (Film)
Mar 20, 1991	120000	12000	2800	490	6600		9.96
May 22, 1991	NSC						11.7 (Film)
Jun 19, 1991	NSC						11.5 (Film)
Jul 17, 1991	NSC						7.80 (Film)
Aug 7, 1991	NSC						9.88 (0.03)
Sep 24, 1991	NSC						9.85 (0.03)
Oct 23, 1991	NSC						9.96 (Film)
Nov 6, 1991	NSC						6.77 (Film)
Dec 4, 1991	NSC						10.8 (Film)
Jan 29, 1992	NSC						8.64 (Film)
Feb 26, 1992	NSC						6.00 (Film)
Mar 19, 1992	NSC						5.55 (Film)
Apr 22, 1992	NSC						6.12 (Film)
May 21, 1992	NSC						6.40 (Film)
Jun 25, 1992	NSC						6.73 (0.02)
Jul 30, 1992	NSC						6.73 (Film)
Aug 20, 1992	NSC						6.82 (Film)
Sep 30, 1992	NSC						7.26 (Film)
Dec 23, 1992	NSC						6.22 (Film)
Mar 10, 1993	NSC						5.82 (Film)
Jun 9, 1993	NSC						6.17 (Film)
Sep 14, 1993	NSC						11.33
Dec 14, 1993	NSC						8.40
Mar 2, 1994	NSC						6.82
Jun 6, 1994	NSC						10.95 (Film)
Sep 6, 1994	NSC						11.30 (Film)
Dec 7, 1994	NSC						5.63 (Film)
Mar 8, 1995	NSC						5.06 (Film)
Jun 15, 1995	NSC						-- (Film)
Sep 5, 1995	NSC						7.98 (Film)
Nov 21, 1995	20,000	8800	110	<30	310		7.32

TABLE 1 (Continued)

Monitoring Well RS-8							
Date	TPH	Benzene	Toluene	E-Benzene	Xylenes	Elevation	Depth to GW
Aug 7, 1991	ND	ND	ND	ND	ND	164.32	9.68
Sep 27, 1991	ND	ND	ND	ND	ND		9.89
Oct 23, 1991	ND	ND	ND	ND	ND		10.05
Nov 6, 1991	ND	ND	ND	ND	ND		9.71
Dec 4, 1991	ND	ND	ND	ND	ND		10.00
Jan 29, 1992	ND	2.1	1.0	2.5	3.6		9.28
Feb 26, 1992	ND	ND	0.7	ND	0.7		7.05
Mar 19, 1992	ND	0.5	1.0	1.5	2.7		7.30
Apr 22, 1992	ND	ND	ND	ND	ND		8.60
May 21, 1992	ND	ND	ND	ND	ND		9.22
Jun 25, 1992	ND	ND	ND	ND	ND		9.49
Jul 30, 1992	ND	1.1	4.2	ND	3.0		9.55
Aug 20, 1992	ND	2.0	4.7	ND	5.7		9.63
Sep 30, 1992	ND	ND	ND	ND	ND		9.90
Dec 23, 1992	ND	ND	ND	ND	ND		9.96
Mar 10, 1993	ND	ND	ND	ND	ND		8.95
Jun 9, 1993	ND	ND	ND	ND	ND		9.00
Sep 14, 1993	200	0.3	ND	ND	ND		9.50
Dec 14, 1993	ND	ND	ND	ND	ND		8.75
Mar 2, 1994	<50	<0.3	<0.3	<0.3	<0.5		7.52
Jun 6, 1994	54	<0.3	<0.3	<0.3	2.4		9.00
Sep 6, 1994	<50	<0.3	<0.3	<0.3	<0.5		9.26
Dec 7, 1994	130	2.5	1.9	1.3	3.6		8.67
Mar 8, 1995	<100	<0.5	<0.5	<0.5	<1		8.34
Jun 15, 1995	<100	1.0	<0.5	<0.5	<1		9.12
Sep 5, 1995	<100	<0.5	<0.5	<0.5	<1		9.56
Nov 21, 1995	<50	0.44	<0.3	<0.3	1.5		9.28

TABLE 1 (Continued)

Monitoring Well RS-9							
Date	TPH	Benzene	Toluene	E-Benzene	Xylenes	Elevation	Depth to GW
Aug 7, 1991	NA	0.5	ND	330	1200	167.51	2.28
Sep 27, 1991	13000	3.5	3.0	82	140		2.77
Oct 23, 1991	11000	ND	ND	39	340		3.53
Nov 6, 1991	6800	8.4	0.6	22	230		2.51
Dec 4, 1991	6500	6.5	0.7	87	200		3.20
Jan 29, 1992	8100	22	10	140	260		2.65
Feb 26, 1992	13000	40	16	220	600		3.42
Mar 19, 1992	12000	21	12	100	280		3.12
Apr 22, 1992	8600	ND	ND	20	37		3.24
May 21, 1992	6000	21	10	53	210		3.75
Jun 25, 1992	370	2.3	1.5	0.7	4.3		2.65
Jul 30, 1992	3600	20	ND	39	80		2.70
Aug 20, 1992	3000	0.7	5.2	2.0	5.3		2.83
Sep 30, 1992	9200	4.8	6.5	12	91		2.80
Dec 23, 1992	2000	17	ND	8.2	18		2.45
Mar 10, 1993	1500	ND	2.6	21	12		2.40
Jun 9, 1993	1300	0.6	1.7	ND	7.5		3.55
Sep 14, 1993	1500	1.3	7.6	4.1	14.0		2.81
Dec 14, 1993	560	ND	ND	ND	5.5		2.63
Mar 2, 1994	1100	<0.3	<0.3	<0.3	<0.5		2.60
Jun 6, 1994	290	0.58	0.53	1.1	5.8		2.52
Sep 6, 1994	890	<0.3	<0.3	<0.3	3.1		3.16
Dec 7, 1994	940	22	23	10	32		5.18
Mar 8, 1995	1600	<0.5	<0.5	<0.5	2.3		4.57
Jun 15, 1995	3200	2.2	5.3	4.3	3.1		5.08
Sep 5, 1995	1100	<0.5	<0.5	<0.5	<1		5.72
Nov 21, 1995	1100	1.1	2.9	3.5	3.0		2.46

TABLE 1 (Continued)

Monitoring Well RS-10							
Date	TPH	Benzene	Toluene	E-Benzene	Xylenes	Elevation	Depth to GW
Aug 7, 1991	ND	ND	ND	ND	ND	162.89	6.16
Sep 27, 1991	ND	ND	ND	ND	ND		6.48
Oct 23, 1991	ND	ND	ND	ND	ND		7.37
Nov 6, 1991	ND	ND	ND	ND	ND		6.44
Dec 4, 1991	ND	ND	ND	ND	ND		7.02
Jan 29, 1992	ND	ND	ND	ND	ND		6.78
Feb 26, 1992	ND	ND	ND	ND	ND		8.33
Mar 19, 1992	ND	ND	ND	ND	0.6		8.02
Apr 22, 1992	ND	ND	ND	ND	ND		7.78
May 21, 1992	ND	ND	0.6	ND	1.2		6.21
Jun 25, 1992	ND	ND	ND	ND	ND		7.73
Jul 30, 1992	ND	ND	0.5	ND	1.0		7.84
Aug 20, 1992	ND	ND	ND	ND	ND		7.50
Sep 30, 1992	ND	ND	ND	ND	ND		7.63
Dec 23, 1992	ND	ND	ND	ND	ND		7.24
Mar 10, 1993	ND	ND	ND	ND	ND		6.38
Jun 9, 1993	ND	ND	ND	ND	ND		7.98
Sep 14, 1993	ND	ND	ND	ND	ND		7.35
Mar 2, 1994	<50	<0.3	<0.3	<0.3	<0.3		7.00
Jun 6, 1994	<50	<0.3	<0.3	<0.3	<0.5		6.55
Sep 6, 1994	<50	<0.3	<0.3	<0.3	<0.5		7.63
Dec 7, 1994	56	<0.3	<0.3	<0.5	2.1		5.92
Mar 8, 1995	<100	<0.5	<0.5	<0.5	<1		7.84
Jun 15, 1995	<100	<0.5	<0.5	<0.5	<1		6.97
Sep 5, 1995	<100	<0.5	<0.5	<0.5	<1		8.14
Nov 21, 1995	<50	<0.3	<0.3	<0.3	<0.5		7.68
Monitoring Well RS-11							
Sep 21, 1995	110	<0.5	<0.5	<0.5	<1	163.28	9.37
Nov 21, 1995	NA	NA	NA	NA	NA		--
<p>Benzene, toluene, ethylbenzene, and xylene analyzed by EPA method 8020 and concentrations reported in ug/l.</p> <p>Total petroleum hydrocarbons analyzed by EPA method 8015 and concentrations reported in ug/l.</p> <p>NSC = Not sampled due to product film on groundwater.</p> <p>ND = Not Detected.</p> <p>NA = Not Analyzed.</p>							

why?

**Table 2 - Vapor Concentrations in Wells
Thrifty Oil Co. Station #054
Castro Valley, CA**

Well I.D.	Date	Vapor Conc., ppmv
PW-1	05-16-94	150
	06-06-94	28
	07-11-94	160
	08-15-94	100
	09-06-94	12
PW-2	05-16-94	150
	06-06-94	25
	07-11-94	150
	08-15-94	100
	09-06-94	18
RE-1	05-16-94	>10,000
	06-06-94	>10,000
	07-11-94	>10,000
	08-15-94	>10,000
	09-06-94	50
RE-2	05-16-94	200
	06-06-94	20
	07-11-94	210
	08-15-94	160
	09-06-94	4
RE-3	05-16-94	6,000
	06-06-94	>10,000
	07-11-94	5,000
	08-15-94	>6,000
	09-06-94	150
RE-4	05-16-94	1,000
	06-06-94	40
	07-11-94	1,500
	08-15-94	>1,000
	09-06-94	70
RE-5	05-16-94	400
	06-06-94	220
	07-11-94	300
	08-15-94	300
	09-06-94	2
RE-6	05-16-94	>10,000
	06-06-94	20
	07-11-94	>10,000
	08-15-94	>10,000
	09-06-94	200

(Table 2 Continued)

Well I.D.	Date	Vapor Conc., ppmv
RE-7	05-16-94	200
	06-06-94	500
	07-11-94	>10,000
	08-15-94	>300
	09-06-94	100
RS-8	05-16-94	--
	06-06-94	0
	07-11-94	--
	08-15-94	--
	09-06-94	0
RS-9	05-16-94	--
	06-06-94	5,000
	07-11-94	--
	08-15-94	--
	09-06-94	>10,000
RS-10	05-16-94	--
	06-06-94	0
	07-11-94	--
	08-15-94	--
	09-06-94	0

APPENDIX A



PROJECT STATUS REPORT
 THRIFTY OIL CO. S.S. #054
 2504 CASTRO VALLEY BLVD.
 CASTRO VALLEY, CA 94546
 DATE: 10/24/95

FREQUENCY	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	6.03				X			<	X	-						
M	PW-2	6.17				✓			<	X	-						
M	RE-1	4.85*			X				<	X	-						
M	RE-2	4.82				X			<	X	-						
M	RE-3	6.88*			X				<	X	-						
M	RE-4	13.76*			✓				<	X	-						
M	RE-5	5.08				✓			X	X	-						
M	RE-6	6.02				✓			<	X	-						
M	RE-7	8.03*			X				<	X	-						
M	RS-8	9.63				X			X	-	X						
M	RS-9	5.78				✓			<	-	X						
M	RS-10	8.17				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	
()	()	()	() Q.-SEE C.CUST.

REMARKS: MONITORING WELLS: RE-1, RE-3, RE-4, RE-7 HAS SAH N

FREE PRODUCT REMOVED: APPROX. _____ GALLONS WATER REMOVED: APPROX. _____ GALLONS

DATA RECORDED BY: FLORIN SPETCU INPUT BY: M.M. >|FF\054rsirt



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD														
WELLS		WATER					WELLS		VAPORS					
ON			RE-4			RE-7	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	AMP/PM	15:20	
					HOURS	#	9163	
					ENGINE RPM	RPM	1900	
					ENGINE VACUUM	IN HG	18	
					TK REC TEMP	F	95	
					AIR TEMP	F	58°F	
					AIR FLOW	CFM	20	
					VAPOR FLOW	CFM	16	
					FUEL FLOW	CFM/H	90	
					WELL VACUUM	IN H2O	28	
					GAS METER		5%	

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT				RSI SYSTEM			
PARAMETER	U/M	LIMIT	DATA	PARAMETER	U/M	DATA	OBS
FLOWMETER	GAL	540.3		CATALIST IN	F		
ROTAMETER				CATALIST OUT	F		
VPI FLOW				EXHAUST HC	PPM/%		
VPI VACUUM				EXHAUST CO	%PPM		
AIR COMPRES				EXHAUST CO2	%		
VAPOR				EXHAUST NOX	%PPM		
INLET VAPOR				CATALYST REPLACEMENT			
TEMPERATURE				EXHAUST O2	%		
LEL				INLET	PPM	> 10000	
				OUTLET	PPM	270	

COMMENTS: Water Remediation work to slow the engine burn to wash oil

SERVICE TECHNICIAN FLORIN SPECTU DATE 10/24/95 THRIFTY OIL CO # 054



FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD															
WELLS		WATER						WELLS		VAPORS					
ON				RE 4			RE 7	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	14:40	
					HOURS	#	9186	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	20	
					TK REC TEMP	F	100	
					AIR TEMP	F	57°F	
					AIR FLOW	CFM	18	
					VAPOR FLOW	CFM	16	
					FUEL FLOW	CFM/H	90	
					WELL VACUUM	IN H2O	30	
					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		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	GAL	542.6	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: WATER REMEDIATION SYSTEM WORK TO SLOW THE ENGINE BURN TO MUCH OIL

SERVICE TECHNICAN FLORIN J FETCV DATE 10.31.95 THRIFTY OIL CO # 054



FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD															
WELLS		WATER						WELLS		VAPORS					
ON				RE 4			RE 7	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	10:50	
					HOURS	#	9194	
					ENGINE RPM	RPM	1900	
					ENGINE VACUUM	IN HG	20	
					TK REC TEMP	F	90	
					AIR TEMP	F	54°F	
					AIR FLOW	CFM	18	
					VAPOR FLOW	CFM	16	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	28	
					GAS METER		65%	
					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	GAL	547.6	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: THE ENGINE BURN OIL

SERVICE TECHNICAN FLORIN SFETCU DATE 11-02-95 THRIFTY OIL CO # 054



FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD															
WELLS	WATER							WELLS	VAPORS						
ON				RE-4			RE-7	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	15:05	
					HOURS	#	9226	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	16	
					TK REC TEMP	F	95	
					AIR TEMP	F	64°F	
					AIR FLOW	CFM	18	
					VAPOR FLOW	CFM	16	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	30	
					GAS METER		85%	
HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT					CATALIST IN	F		
PARAMETER	U/M	LIMIT	DATA		CATALIST OUT	F		
FLOWMETER	GAL	554.3			EXHAUST HC	PPM/%		
ROTAMETER					EXHAUST CO	%PPM		
VPI FLOW					EXHAUST CO2	%		
VPI VACUUM					EXHAUST NOX	%PPM		
AIR COMPRES					CATALYST REPLACEMENT			
VAPOR					EXHAUST O2	%		
INLET VAPOR					INLET	PPM		
TEMPERATURE					OUTLET	PPM		
LEL								

COMMENTS:

SERVICE TECHNICAN FLORIAN SEETW DATE 11.09.95 THRIFTY OIL CO # 054



FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD															
WELLS		WATER						WELLS		VAPORS					
ON				RE-4			RE-7	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	14:45	
					HOURS	#	9251	
					ENGINE RPM	RPM	1900	
					ENGINE VACUUM	IN HG	19	
					TK REC TEMP	F	95	
					AIR TEMP	F	63°F	
					AIR FLOW	CFM	18	
					VAPOR FLOW	CFM	16	
					FUEL FLOW	CFM/H	85	
					WELL VACUUM	IN H2O	30	
					GAS METER		60%	

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	GAL	554.7	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: THE ENGINE BURN TO MUCH OIL, ALL THE TIME THE LEVEL IS UNDER THE LINE IS UNSAFE

SERVICE TECHNICAN FLORIN SPETCU DATE 11.16.95 THRIFTY OIL CO # 054



PROJECT STATUS REPORT
 THRIFTY OIL CO. S.S. #054
 2504 CASTRO VALLEY BLVD.
 CASTRO VALLEY, CA 94546
 DATE: Nov 21, 1995

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	6.04				X					X	-					
M	PW-2	6.23				X					X	-					
M	RE-1	4.82			X		X				X	-					
M	RE-2	4.83				X					X	-					
M	RE-3	7.38			X		X				X	-					
M	RE-4	12.53			X		X				X	-					
M	RE-5	5.23				X					X	-					
M	RE-6	6.24				X					X	-					
M	RE-7	7.32			X		X				X	-					
M	RS-8	9.28				X					-	X					
M	RS-9	2.46				X					-	X					
M	RS-10	7.68				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. 249 GALLONS

DATA RECORDED BY: FLORIN SPETCU INPUT BY: M.M. >\FF\054rsirt

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site <u>SS #054</u>	Date <u>Nov 21, 1995</u>
Address _____	
Personnel <u>FLORIN & SERBANI</u>	Weather <u>Sunny</u>
Well No. <u>RS-10</u>	Equip. <u>Bailer</u>

Before Purging			
Total Well Depth	<u>24.45</u>	ft.	Well Diameter <u>2⁴</u>
Depth to Water	<u>7.68</u>	ft.	Est. Purge Vol. <u>11 GAL</u>

Sampling Data					
Initial Turbidity	Final Turbidity				
Time	<u>13:17</u>	<u>13:20</u>	<u>13:23</u>	<u>13:26</u>	<u>13:30</u>
EC	<u>8.70</u>	<u>9.20</u>	<u>9.30</u>	<u>9.30</u>	<u>9.30</u>
pH	<u>15.86</u>	<u>15.88</u>	<u>16.94</u>	<u>16.97</u>	<u>16.96</u>
Temp	<u>71.3</u>	<u>71.4</u>	<u>71.6</u>	<u>71.5</u>	<u>71.3</u>
Gal.	<u>2</u>	<u>4</u>	<u>6</u>	<u>8</u>	<u>11</u>
Time	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____

After Purging/Before Sample Collection	
Depth to Water _____	ft. Total Well Depth _____ ft.

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site <u>SS # 054</u>	Date <u>NOV 21, 1995</u>
Address <u>054</u>	
Personnel <u>FLORIN & JERBAN</u>	Weather <u>SUNNY</u>
Well No. <u>RS-8</u>	Equip. <u>Bailer</u>

Before Purging			
Total Well Depth	<u>25.20</u>	ft.	Well Diameter <u>2^{1/2}</u>
Depth to Water	<u>9.28</u>	ft.	Est. Purge Vol. <u>10 gal</u>

Sampling Data						
Initial Turbidity				Final Turbidity		
Time	<u>12:53</u>	<u>12:55</u>	<u>12:58</u>	<u>13:00</u>	<u>13:03</u>	<u>13:05</u>
EC	<u>2630</u>	<u>2650</u>	<u>2660</u>	<u>2690</u>	<u>2690</u>	<u>2680</u>
pH	<u>16.95</u>	<u>16.97</u>	<u>16.99</u>	<u>16.99</u>	<u>17.01</u>	<u>17.02</u>
Temp	<u>72.9</u>	<u>72.8</u>	<u>72.8</u>	<u>72.7</u>	<u>72.6</u>	<u>72.6</u>
Gal.	<u>2</u>	<u>4</u>	<u>6</u>	<u>7</u>	<u>9</u>	<u>10</u>
Time	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____

After Purging/Before Sample Collection	
Depth to Water _____	ft. Total Well Depth _____ ft.

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site <u>SS # 054</u>	Date <u>Nov 21, 1995</u>
Address _____	
Personnel <u>FLORIN & SERBAN</u>	Weather <u>SUNNY</u>
Well No. <u>RS-9</u>	Equip. <u>BAILER</u>

Before Purging	
Total Well Depth <u>15</u> ft.	Well Diameter <u>2"</u>
Depth to Water <u>2.46</u> ft.	Est. Purge Vol. <u>8 GAL</u>

Sampling Data						
	Initial Turbidity			Final Turbidity		
Time	<u>12:34</u>	<u>12:36</u>	<u>12:38</u>	<u>12:41</u>	<u>12:43</u>	<u>12:45</u>
EC	<u>1820</u>	<u>1840</u>	<u>1850</u>	<u>1810</u>	<u>1780</u>	<u>1790</u>
pH	<u>6.32</u>	<u>6.27</u>	<u>6.30</u>	<u>6.27</u>	<u>7.23</u>	<u>6.24</u>
Temp	<u>70.2</u>	<u>70.1</u>	<u>70.2</u>	<u>70.1</u>	<u>70.1</u>	<u>70.0</u>
Gal.	<u>2</u>	<u>3</u>	<u>4</u>	<u>6</u>	<u>7</u>	<u>8</u>
Time	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____

After Purging/Before Sample Collection	
Depth to Water _____ ft.	Total Well Depth _____ ft.

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site <u>SSA 054</u>	Date <u>Nov 21, 1995</u>
Address _____	
Personnel <u>FLORIN & SERBAN</u>	Weather <u>Sunny</u>
Well No. <u>RE - 3</u>	Equip. <u>Bailer</u>

Before Purging			
Total Well Depth	<u>17.60</u>	ft.	Well Diameter <u>4"</u>
Depth to Water	<u>7.38</u>	ft.	Est. Purge Vol. <u>27 GAL</u>

Sampling Data						
Initial Turbidity	Final Turbidity					
Time	<u>12:08</u>	<u>12:13</u>	<u>12:17</u>	<u>12:22</u>	<u>12:27</u>	<u>12:30</u>
EC	<u>2230</u>	<u>2250</u>	<u>2280</u>	<u>2290</u>	<u>2290</u>	<u>2290</u>
pH	<u>6.34</u>	<u>6.92</u>	<u>6.69</u>	<u>7.11</u>	<u>7.12</u>	<u>7.13</u>
Temp	<u>69.3</u>	<u>70.1</u>	<u>70.3</u>	<u>70.6</u>	<u>70.6</u>	<u>70.5</u>
Gal.	<u>5</u>	<u>10</u>	<u>15</u>	<u>19</u>	<u>24</u>	<u>27</u>
Time	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____

After Purging/Before Sample Collection	
Depth to Water _____	ft. Total Well Depth _____ ft.

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site <u>SS # 054</u>	Date <u>HSV 21, 1995</u>
Address _____	
Personnel <u>FLORIN & SERBAN</u>	Weather <u>Sunny</u>
Well No. <u>RE-4</u>	Equip. <u>Bailer</u>

Before Purging	
Total Well Depth <u>14.60</u> ft.	Well Diameter <u>4"</u>
Depth to Water <u>12.53</u> ft.	Est. Purge Vol. <u>5 GAL</u>

Sampling Data						
Initial Turbidity					Final Turbidity	
Time	<u>11:44</u>	<u>11:46</u>	<u>11:48</u>	<u>11:51</u>	<u>11:53</u>	<u>11:55</u>
EC	<u>2060</u>	<u>2050</u>	<u>2060</u>	<u>1880</u>	<u>2040</u>	<u>2040</u>
pH	<u>6.65</u>	<u>6.53</u>	<u>6.50</u>	<u>6.40</u>	<u>6.39</u>	<u>6.38</u>
Temp	<u>70.1</u>	<u>70.2</u>	<u>70.2</u>	<u>70.1</u>	<u>70.1</u>	<u>70.2</u>
Gal.	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>4 1/2</u>	<u>5</u>
Time	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____

After Purging/Before Sample Collection	
Depth to Water _____ ft.	Total Well Depth _____ ft.

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site <u>#054</u>	Date <u>Nov 21, 1995</u>
Address _____	
Personnel <u>FLORIN & SERBEX</u>	Weather <u>Sunny</u>
Well No. <u>RE-7</u>	Equip. <u>Bailer</u>

Before Purging			
Total Well Depth	<u>13.20</u>	ft.	Well Diameter <u>4"</u>
Depth to Water	<u>7.32</u>	ft.	Est. Purge Vol. <u>15 GAL</u>

Sampling Data						
Initial Turbidity	Final Turbidity					
Time	<u>11:29</u>	<u>11:32</u>	<u>11:35</u>	<u>11:38</u>	<u>11:42</u>	<u>11:45</u>
EC	<u>2160</u>	<u>2200</u>	<u>2130</u>	<u>2150</u>	<u>2140</u>	<u>2140</u>
pH	<u>6.90</u>	<u>6.80</u>	<u>6.85</u>	<u>6.90</u>	<u>6.74</u>	<u>6.72</u>
Temp	<u>71.2</u>	<u>72.2</u>	<u>71.8</u>	<u>71.4</u>	<u>71.4</u>	<u>71.5</u>
Gal.	<u>3</u>	<u>5</u>	<u>8</u>	<u>10</u>	<u>12</u>	<u>15</u>
Time	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____

After Purging/Before Sample Collection	
Depth to Water _____	ft. Total Well Depth _____ ft.

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site <u>SS # 054</u>	Date <u>Nov 21, 1995</u>
Address _____	
Personnel <u>FLORIN & SERBAN</u>	Weather <u>Sunny</u>
Well No. <u>PW-2</u>	Equip. <u>BAILER</u>

Before Purging			
Total Well Depth	<u>14.40</u>	ft.	Well Diameter <u>4"</u>
Depth to Water	<u>6.23</u>	ft.	Est. Purge Vol. <u>21 GAL</u>

Sampling Data						
Initial Turbidity						Final Turbidity
Time	<u>11:00</u>	<u>11:03</u>	<u>11:08</u>	<u>11:12</u>	<u>11:16</u>	<u>11:20</u>
EC	<u>1740</u>	<u>1820</u>	<u>1820</u>	<u>1820</u>	<u>1810</u>	<u>1810</u>
pH	<u>6.16</u>	<u>6.18</u>	<u>6.14</u>	<u>6.14</u>	<u>6.18</u>	<u>6.19</u>
Temp	<u>69.4</u>	<u>71.5</u>	<u>71.9</u>	<u>71.9</u>	<u>71.8</u>	<u>71.6</u>
Gal.	<u>3</u>	<u>6</u>	<u>10</u>	<u>14</u>	<u>18</u>	<u>21</u>
Time	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____

After Purging/Before Sample Collection	
Depth to Water _____	ft. Total Well Depth _____ ft.

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site <u>SS # 054</u>	Date <u>Nov 21, 1995</u>
Address _____	
Personnel <u>FLORIN & SERBAN</u>	Weather <u>Sunny</u>
Well No. <u>PW-1</u>	Equip. <u>Bziler</u>

Before Purging			
Total Well Depth	<u>14.10</u>	ft.	Well Diameter <u>4"</u>
Depth to Water	<u>6.04</u>	ft.	Est. Purge Vol. <u>21 GAL</u>

Sampling Data						
Initial Turbidity	Final Turbidity					
Time	<u>10:39</u>	<u>10:37</u>	<u>10:40</u>	<u>10:41</u>	<u>10:47</u>	<u>10:50</u>
EC	<u>820</u>	<u>450</u>	<u>740</u>	<u>760</u>	<u>760</u>	<u>740</u>
pH	<u>6.16</u>	<u>5.56</u>	<u>6.12</u>	<u>6.13</u>	<u>6.12</u>	<u>5.96</u>
Temp	<u>70.8</u>	<u>72.1</u>	<u>72.3</u>	<u>72.4</u>	<u>73.1</u>	<u>72.9</u>
Gal.	<u>6</u>	<u>11</u>	<u>14</u>	<u>17</u>	<u>19</u>	<u>21</u>
Time	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____

After Purging/Before Sample Collection	
Depth to Water _____	ft. Total Well Depth _____ ft.

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site <u>SS # 54</u>	Date <u>Nov 21, 1995</u>
Address _____	
Personnel <u>FLORIN & SERBAN</u>	Weather <u>SUNNY</u>
Well No. <u>RE-6</u>	Equip. <u>BAILER</u>

Before Purging			
Total Well Depth	<u>13:65</u>	ft.	Well Diameter <u>4"</u>
Depth to Water	<u>RE-6 6.24</u>	ft.	Est. Purge Vol. <u>19</u>

Sampling Data						
Initial Turbidity	Final Turbidity					
Time	<u>10:07</u>	<u>10:10</u>	<u>10:14</u>	<u>10:18</u>	<u>10:21</u>	<u>10:25</u>
EC	<u>1810</u>	<u>1830</u>	<u>1840</u>	<u>1850</u>	<u>1870</u>	<u>1860</u>
pH	<u>6.26</u>	<u>6.16</u>	<u>6.14</u>	<u>6.18</u>	<u>6.20</u>	<u>6.22</u>
Temp	<u>69.4</u>	<u>69.6</u>	<u>70.3</u>	<u>70.2</u>	<u>70.1</u>	<u>70.1</u>
Gal.	<u>3</u>	<u>6</u>	<u>9</u>	<u>12</u>	<u>15</u>	<u>19</u>
Time	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____

After Purging/Before Sample Collection	
Depth to Water _____	ft. Total Well Depth _____ ft.

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site <u>SS # 54</u>	Date <u>Nov 21, 1995</u>
Address _____	
Personnel <u>FLORIN & SERBAN</u>	Weather <u>SUNNY</u>
Well No. <u>RE-2</u>	Equip. <u>BAILER</u>

Before Purging			
Total Well Depth	<u>17.10</u>	ft.	Well Diameter <u>4"</u>
Depth to Water	<u>4.83</u>	ft.	Est. Purge Vol. <u>32 GAL</u>

Sampling Data						
Initial Turbidity	Final Turbidity					
Time	<u>9:32</u>	<u>9:37</u>	<u>9:42</u>	<u>9:48</u>	<u>9:53</u>	<u>10:00</u>
EC	<u>1500</u>	<u>1480</u>	<u>1510</u>	<u>1520</u>	<u>1520</u>	<u>1510</u>
pH	<u>6.27</u>	<u>6.30</u>	<u>6.32</u>	<u>6.32</u>	<u>6.32</u>	<u>6.32</u>
Temp	<u>69.4</u>	<u>70.5</u>	<u>71.2</u>	<u>71.4</u>	<u>71.4</u>	<u>71.1</u>
Gal.	<u>5</u>	<u>11</u>	<u>16</u>	<u>22</u>	<u>27</u>	<u>32</u>
Time	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____

After Purging/Before Sample Collection	
Depth to Water _____	ft. Total Well Depth _____ ft.

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site	<u>SS # 054</u>	Date	<u>Nov 21, 1995</u>
Address	_____		
Personnel	<u>FLORIN & SERBAN</u>	Weather	<u>SUNNY</u>
Well No.	<u>RE-5</u>	Equip.	<u>BAILER</u>

Before Purging			
Total Well Depth	<u>18.25</u>	ft.	Well Diameter <u>4"</u>
Depth to Water	<u>5.23</u>	ft.	Est. Purge Vol. <u>34 GAL</u>

Sampling Data						
Initial Turbidity	Final Turbidity					
Time	<u>8:54</u>	<u>8:57</u>	<u>9:02</u>	<u>9:07</u>	<u>9:14</u>	<u>9:20</u>
EC	<u>1560</u>	<u>1610</u>	<u>1640</u>	<u>1640</u>	<u>1630</u>	<u>1630</u>
pH	<u>6.10</u>	<u>6.67</u>	<u>6.30</u>	<u>6.23</u>	<u>6.24</u>	<u>6.25</u>
Temp	<u>69.5</u>	<u>69.8</u>	<u>70.1</u>	<u>70.2</u>	<u>70.3</u>	<u>70.3</u>
Gal.	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>27</u>	<u>34</u>
Time	_____	_____	_____	_____	_____	_____
EC	_____	_____	_____	_____	_____	_____
pH	_____	_____	_____	_____	_____	_____
Temp	_____	_____	_____	_____	_____	_____
Gal.	_____	_____	_____	_____	_____	_____

After Purging/Before Sample Collection	
Depth to Water _____	ft. Total Well Depth _____ ft.



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD														
WELLS	WATER						WELLS	VAPORS						
ON			RE 4			RE 7	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	14:20	
					HOURS	#	9273	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	19	
					TK REC TEMP	F	95	
					AIR TEMP	F	56°F	
					AIR FLOW	CFM	18	
					VAPOR FLOW	CFM	16	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	20	
					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		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	GAL	1558.6	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: CHECK THE COOLER CHANGE THE OIL. THE BATTERY THE ~~ENGINE~~ ENGINE BURN TO MUCH OIL. WATER SYSTEM WORK SLOW

SERVICE TECHNICAN ELORIN SPETCU DATE 11.26.95 THRIFTY OIL CO # 054



FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD														
WELLS	WATER						WELLS	VAPORS						
ON			DE4			RE7	ON	RE1		RE3			REG	RE7
OFF							OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	14:50	
					HOURS	#	9294	
					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	GAL	564.7	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

GAS METER		83%	
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: TRY RESTART. NO RESULT

SERVICE TECHNICAN FLORIN SPECTU DATE 11.30.95 THRIFTY OIL CO # 054

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.: A135054-21
Date Received: 11/25/95
Date Reported: 12/08/95
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
40109	Trip Blank	11/21/95	11/30/95	<50	50
40110	RE-5	11/21/95	11/30/95	660	50
40111	RE-2	11/21/95	11/27/95	160	50
40112	RE-6	11/21/95	11/30/95	2000	50
40113	PW-1	11/21/95	11/27/95	660	50
40114	PW-2	11/21/95	11/27/95	2800	50
40115	RE-7	11/21/95	11/27/95	20000	50
40116	RE-4	11/21/95	11/30/95	32000	50
40117	RE-3	11/21/95	11/30/95	10000	50
40118	RS-9	11/21/95	11/27/95	1100	50
40119	RS-8	11/21/95	11/27/95	<50	50
40120	RS-10	11/21/95	11/27/95	<50	50

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 8015M (Gasoline)
Sample ID: Matrix Spike
Concentration: 500 ug/L

AA ID No.: 40104
Project No.: N/A
AA Project No.: A135054-21
Date Analyzed: 11/27/95
Date Reported: 12/08/95

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Gasoline Range Organics	430	86	470	94	9	59 - 149

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.: 40132
Project No.: N/A
AA Project No.: A135054-21
Date Analyzed: 11/30/95
Date Reported: 12/08/95

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Gasoline Range Organics	450	90	450	90	0	59 - 149

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.: A135054-21
Date Received: 11/25/95
Date Reported: 12/08/95
Units: ug/L

Date Sampled:	11/21/95	11/21/95	11/21/95	11/21/95	
Date Analyzed:	11/30/95	11/30/95	11/27/95	11/30/95	
AA ID No.:	40109	40110	40111	40112	
Client ID No.:	Trip Blank	RE-5	RE-2	RE-6	MRL
Compounds:					
Benzene	<0.3	3.4	0.65	7.3	0.3
Ethylbenzene	<0.3	<0.3	0.35	0.56	0.3
Toluene	0.61	<0.3	<0.3	<0.3	0.3
Xylenes	<0.5	0.6	0.95	8.7	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.: A135054-21
Date Received: 11/25/95
Date Reported: 12/08/95
Units: ug/L

Date Sampled:	11/21/95	11/21/95	11/21/95	11/21/95	
Date Analyzed:	11/27/95	11/27/95	11/27/95	11/30/95	
AA ID No.:	40113	40114	40115	40116	
Client ID No.:	PW-1	PW-2	RE-7	RE-4	MRL

Compounds:

Benzene	13	130	8800	46	0.3
Ethylbenzene	<0.3	18	<30	66	0.3
Toluene	1.3	59	110	21	0.3
Xylenes	4.0	190	310	340	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.: A135054-21
Date Received: 11/25/95
Date Reported: 12/08/95
Units: ug/L

Date Sampled:	11/21/95	11/21/95	11/21/95	11/21/95	
Date Analyzed:	11/30/95	11/27/95	11/27/95	11/27/95	
AA ID No.:	40117	40118	40119	40120	
Client ID No.:	RE-3	RS-9	RS-8	RS-10	MRL
Compounds:					
Benzene	210	1.1	0.44	<0.3	0.3
Ethylbenzene	4.5	3.5	<0.3	<0.3	0.3
Toluene	<3	2.9	<0.3	<0.3	0.3
Xylenes	330	3.0	1.5	<0.5	0.5

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

George Havalias
Laboratory Director



LABORATORY 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.: 40104
Project No.: N/A
AA Project No.: A135054-21
Date Analyzed: 11/27/95
Date Reported: 12/08/95

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Benzene	20.388	102	20.330	102	0	65 - 135
Ethylbenzene	20.430	102	19.133	96	6	77 - 123
Toluene	19.535	98	19.374	97	1	66 - 134
Xylenes	19.329	97	19.147	96	1	73 - 127

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.: 40132
Project No.: N/A
AA Project No.: A135054-21
Date Analyzed: 11/30/95
Date Reported: 12/08/95

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept. Rec. Range (%)
Benzene	19.500	98	19.798	99	1	65 - 135
Ethylbenzene	19.517	98	19.490	97	1	77 - 123
Toluene	19.569	98	19.536	98	0	66 - 134
Xylenes	19.614	98	19.577	98	0	73 - 127


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: 11.21.95

PAGE 1 OF 1

AA Client THE FIFTY OIL CO	Phone (310) 923-9876	Sampler's Name FLORIN & SERBAN
Project Manager CHRIS PANAITESCU	P.O. No.	Sampler's Signature <i>[Signature]</i>
Project Name SS # 054	Project No.	Project Manager's Signature <i>[Signature]</i>

Job Name and Address QUARTERLY WATER SAMP	ANALYSIS REQUIRED
	Detection Limits
	Test Name

AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	TPH	BTEX	Test Requirements												
40109	TRIP BLANK	11.21.95	6:30	WATER	2	x	x													
40110	RE-5	11.21.95	13:38	-u-	2	x	x													
40111	RE-2	11.21.95	13:45	-u-	2	x	x													
40112	RE-6	11.21.95	13:53	-u-	2	x	x													
40113	PW-1	11.21.95	14:00	-u-	2	x	x													
40114	PW-2	11.21.95	14:09	-u-	2	x	x													
40115	RE-7	11.21.95	14:18	-u-	2	x	x													
40116	RE-4	11.21.95	14:26	-u-	2	x	x													
40117	RE-3	11.21.95	14:34	-u-	2	x	x													
40118	RS-9	11.21.95	14:42	-u-	2	x	x													
40119	RS-8	11.21.95	14:50	-u-	2	x	x													
40120	RS-10	11.21.95	14:57	-u-	2	x	x													
24																				

SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB	Relinquished by: <i>[Signature]</i>	Date	Time	Received by:
Samples Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Relinquished by: <i>[Signature]</i>	Date	Time	Received by:
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. A135054-21	Relinquished by:	Date	Time	Received by: