

THRIFTY OIL CO.

2/24/97

ENVIRONMENTAL
PROTECTION
96 SEP 13 PM 4:35

September 11, 1996

Mr. Scott O. Seary
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
1st Quarter 1996

Dear Mr. Seary:

Enclosed, please find the 1st Quarterly Monitoring Report for Thrifty Service Station #054, dated August 10, 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.

August 10, 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
1st QUARTER REPORT, 1996

Dear Mr. Seary,

This letter report presents the results of soil/groundwater treatment and site monitoring during the 1st quarter of 1996 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 March 11, 1996, 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 3.32 to 7.52 feet below grade which is consistent with previous data collected. **As of March 11, 1996, six 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. *Westerly?*

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 8 to 43 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 8020, 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 March 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 61 hours during the reporting period and 12,439 hours total (current meter reading 8991). As of March 11, 1996, a total of about 15,812.4 gallons of water (current meter reading 605) had been processed by the unit and discharged to the local sanitary sewer. During the 1st quarter reporting period, 40.3 gallons of water had been processed by the treatment unit and were discharged to the sanitary sewer.

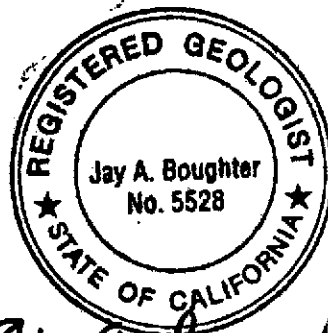
In order to monitor the effects of soil vapor removal, field vapor measurements are collected and recorded from each recovery well on a monthly basis. No well head vapor data was collected during this reporting period. However, a treatment unit effluent sample was collected on January 18, 1996. The effluent sample concentration was less than detectable. The historical well vapor data is included in **Table 2** and the effluent vapor data is included in **Appendix B**.

Closing

Thrifty will continue to conduct quarterly groundwater monitoring at the site. The next quarterly report should be available in August of 1996. 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

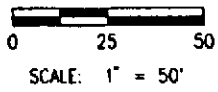
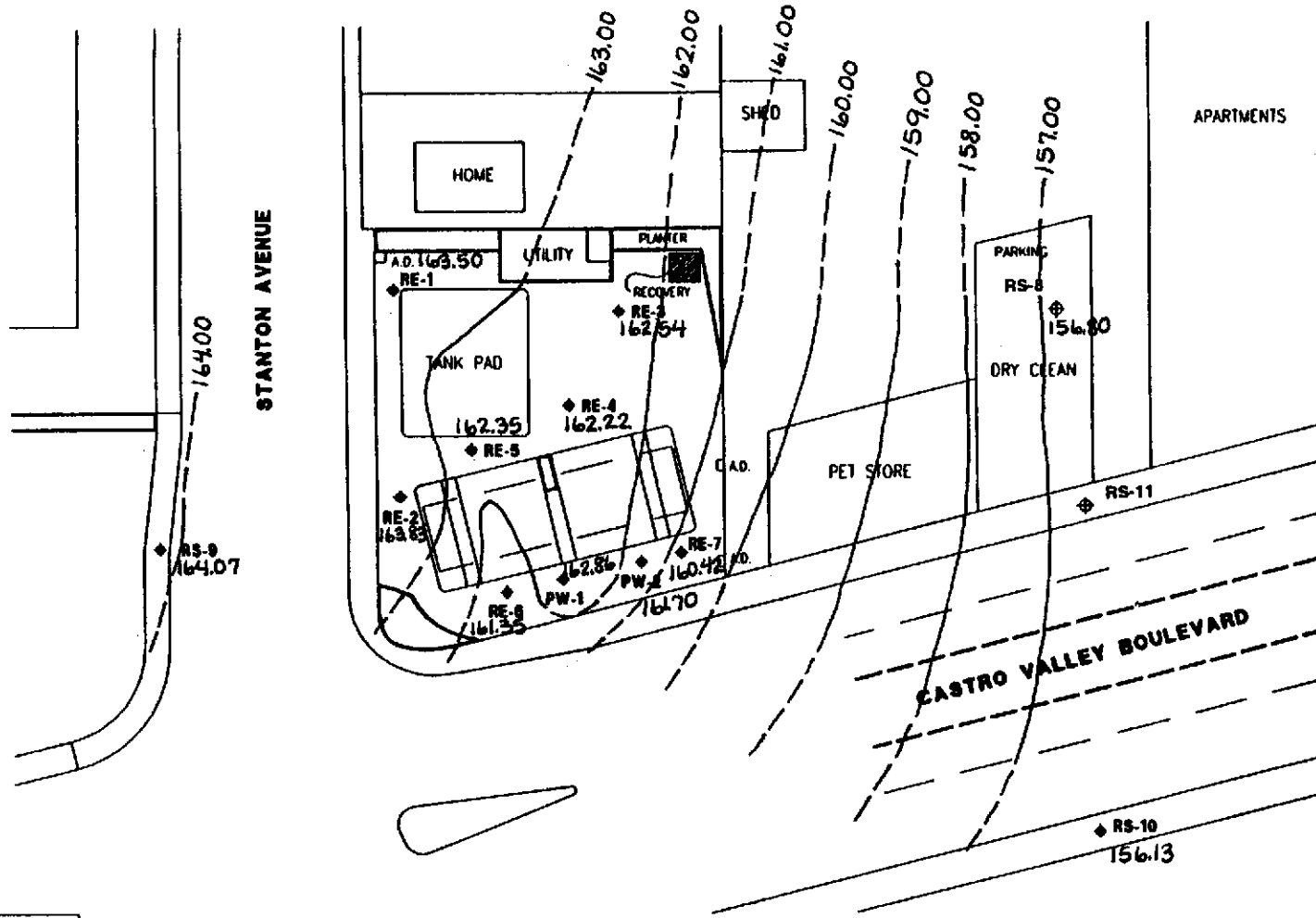


Jay A. Boughter

FIGURES

LEGEND

- ◆ RE-1 / MONITORING WELL
- A.D. AREA DRAIN
- ~ GROUNDWATER CONTOUR (03/11/96)



GROUNDWATER CONTOUR MAP

| REVISIONS | BY |
|-----------|----|
| | |
| | |
| | |
| | |
| | |

TRINITY AL COMPANY
19000 LAKEWOOD BLVD.
DOWNEY, CA 90246
(714) 633-0070

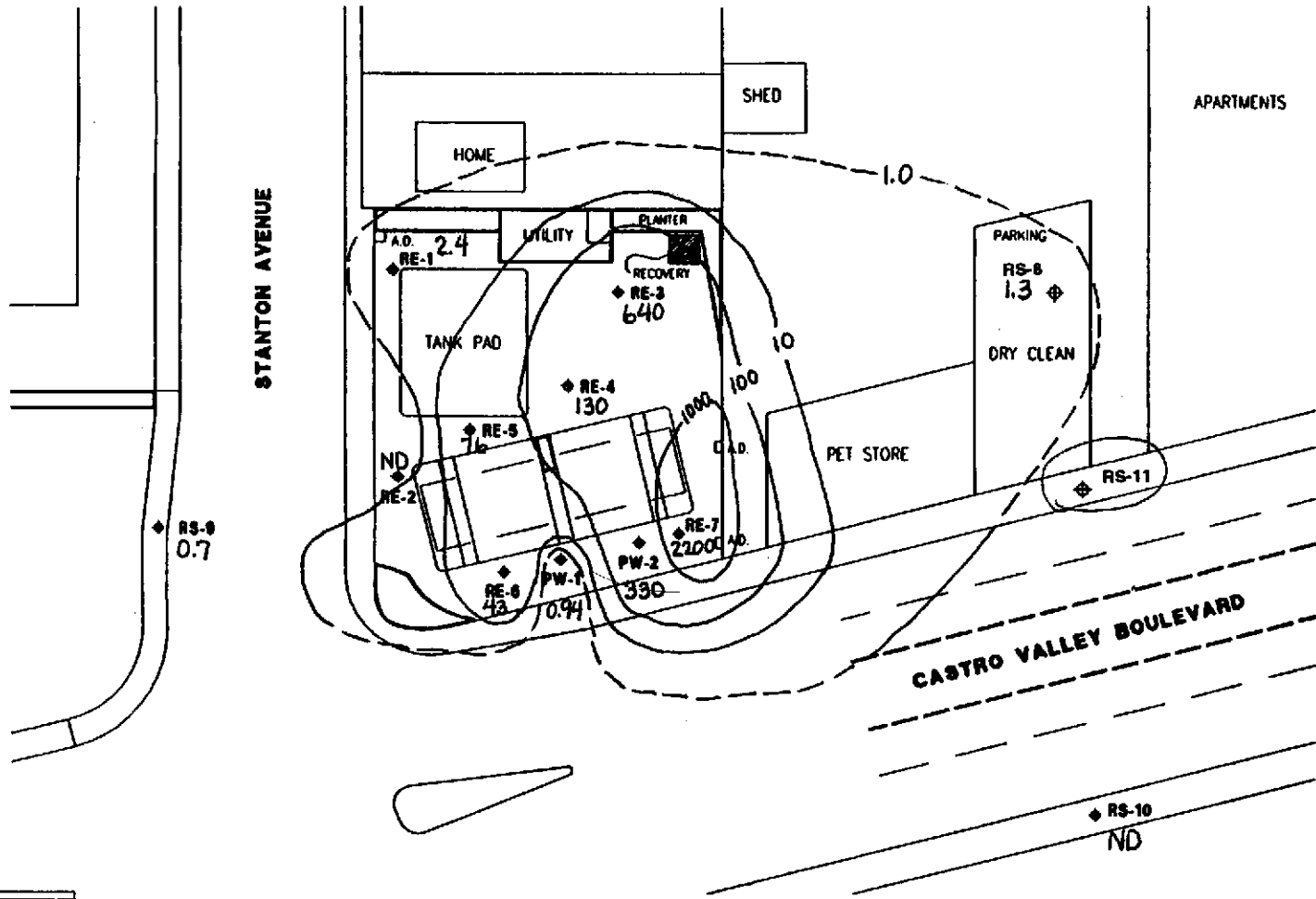
R

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

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

LEGEND

- ◆ RE-1 / MONITORING WELL
- A.D. AREA DRAIN
- ~ BENZENE CONTOUR (03/11/96, mg/l)



BENZENE ISOCONCENTRATION MAP

| REVISIONS | BY |
|-----------|----|
| | |
| | |
| | |
| | |
| | |
| | |
| | |


TRINITY OIL COMPANY
 19000 LAKEWOOD BLVD.
 DUBLIN, CA 94568
 (916) 933-9878

STATION No. 054
 CASTRO VALLEY BLVD./STANTON AVE.
 CASTRO VALLEY, CA.

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

TABLES

TABLE 1

GROUNDWATER DATA
THRIFTY OIL STATION #54

| DATE SAMPLED | TPH | BENZENE | TOLUENE | ETHYL BENZENE | XYLENE | TOP OF CASING | DEPTH TO GROUNDWTR |
|-----------------------------|--------|---------|---------|------------------|--------|------------------|-----------------------|
| <u>Monitoring Well FW-1</u> | | | | | | | |
| 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 |
| Mar 11, 1996 | 660 | 0.94 | 0.77 | <0.3 | 8.1 | | 3.60 |

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 |
| Mar 11, 1996 | 13000 | 330 | 460 | <15 | 3800 | | 4.48 |

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 |
| Mar 11, 1996 | 270 | 2.4 | 6.0 | 4.5 | 19 | | 3.32 |

↓

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 |
| Mar 11, 1996 | <50 | <0.3 | <0.3 | <0.3 | <0.5 | | 3.36 |

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 |
| Mar 11, 1996 | 1600 | 640 | 15 | 10 | 46 | | 4.85 |

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 |
| Mar 11, 1996 | 1700 | 130 | 15 | 2.0 | 120 | | 4.72 |

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 |
| Mar 11, 1996 | 1000 | 76 | 2.2 | <0.3 | 130 | | 4.16 |

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 | 7.3 | <0.3 | 0.56 | 8.7 | | 6.24 |
| Mar 11, 1996 | 840 | 43 | 0.96 | 5.7 | 14 | | 5.16 |

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 |
| Mar 11, 1996 | 4800 | 2200 | 38 | 26 | 120 | | 5.62 |

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 |
| Mar 11, 1996 | <50 | 1.3 | <0.3 | <0.3 | 0.6 | | 7.52 |

TABLE I (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 |
| Mar 11, 1996 | 440 | 0.7 | 0.34 | <0.3 | 3.7 | | 3.44 |

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 |
| Mar 11, 1996 | <50 | <0.3 | <0.3 | <0.3 | <0.5 | | 6.76 |
| 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 | | -- |
| Mar 11, 1996 | NA | NA | NA | NA | NA | | -- |
| Benzene, toluene, ethylbenzene, and xylene analyzed by EPA method 8020 and concentrations reported in ug/l. | | | | | | | |
| Total petroleum hydrocarbons analyzed by EPA method 8015 and concentrations reported in ug/l. | | | | | | | |
| NSC = Not sampled due to product film on groundwater. | | | | | | | |
| ND = Not Detected. | | | | | | | |
| NA = Not Analyzed. | | | | | | | |

**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 ID. | 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: 03.29.1996

| F R E Q . | M O N I T O R I N G | | | | O D O R S | | | F R E E | | W E L L S C O N N E C T E D T O S Y S T E M (W) | | | | | | | |
|-----------------------|---------------------------------|-----|-----|----|------------|----|---|---------------|----|-------------------------------------------------|----|-------------------|----|-----------|-----|-----------|-----|
| | O B S E R V A T I O N W E L L S | | | | (S=SLIGHT) | | | P R O D U C T | | C O N N E C T | | I N T E G R I T Y | | V A P O R | | W A T E R | |
| | NO. | DTW | DTP | PT | YES | NO | S | YES | NO | YES | NO | OK | NO | ON | OFF | ON | OFF |
| M | PW-1 | | | | | | | | | | X | - | | | | | |
| M | PW-2 | | | | | | | | | | X | - | | | | | |
| M | RE-1 | | | | | | | | | | X | - | | | | | |
| M | RE-2 | | | | | | | | | | X | - | | | | | |
| M | RE-3 | | | | | | | | | | X | - | | | | | |
| M | RE-4 | | | | | | | | | | X | - | | | | | |
| M | RE-5 | | | | | | | | | | X | - | | | | | |
| M | RE-6 | | | | | | | | | | X | - | | | | | |
| M | RE-7 | | | | | | | | | | X | - | | | | | |
| M | RS-8 | | | | | | | | | | - | X | | | | | |
| M | RS-9 | | | | | | | | | | - | X | | | | | |
| M | RS-10 | | | | | | | | | | - | X | | | | | |

S A V E S Y S T E M W E E K L Y

| 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

W A T E R S A M P L I N G - C H E C K () W H E N D O N E

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

REMARKS: Mechanic still working at this engine -

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

DATA RECORDED BY: [Signature] INPUT BY: M.M. >\FF\054rsirt



MAINTENANCE & REPAIR REPORT

- A) SS #: 054 SYSTEM TYPE: RSI (VE+GMT)
B) DEFICIENCY DESCRIPTION :
OVERHAUL
C) NAME OF REPORTING PARTY AND DATE:
D) DATE SCHEDULED : 03.20.1996.

- 1) NAME: SERBAN, VIO and VALENTIN DATE/TIME
2) FINDINGS:

- 3) HAS THE JOB BEEN COMPLETED? YES/NO
IF "NO", PLEASE DESCRIBE WHY AND WHAT YOU NEED
TO FINISH:

Needs one mechanic with few years experience

- 4) POST REPAIR TEST RESULTS:

- 5) THE CAUSE OF THE DEFICIENCY:

BRIEF INSTRUCTIONS FOR PREVENTIVE MAINTENANCE
TO THE TECHNICIAN:

- 6) OTHER:



EARTH MANAGEMENT CO.

Environmental Remediation

MAINTENANCE & REPAIR REPORT

A) SS #: 54 SYSTEM TYPE: R.S. A System

B) DEFICIENCY DESCRIPTION: The engine had been replaced with engine from #165 and not put together completely. The air supply line, air tank, pumps - to be checked.

C) NAME OF REPORTING PARTY AND DATE: Balfour's P.

D) DATE SCHEDULED: 03/20/94

1) NAME: JIMMIE C. WALY / HERBAN P. DATE/TIME

2) FINDINGS: 03/20/94
8:10 - 12:30.
- SAME AS "B"

3) HAS THE JOB BEEN COMPLETED? YES/NO NO
IF "NO", PLEASE DESCRIBE WHY AND WHAT YOU NEED TO FINISH:
- WE could not start the engine - probably firing problem.

4) POST REPAIR TEST RESULTS:

5) THE CAUSE OF THE DEFICIENCY:

BRIEF INSTRUCTIONS FOR PREVENTIVE MAINTENANCE TO THE TECHNICIAN:

6) OTHER:



PROJECT STATUS REPORT
 THRIFTY OIL CO. S.S. #054
 2504 CASTRO VALLEY BLVD.
 CASTRO VALLEY, CA 94546
 DATE: 03.11.1996

| 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 | 3.60 | | | | X | | | X | | X | - | | | | | |
| M | PW-2 | 4.48 | | | | X | | | X | | X | - | | | | | |
| M | RE-1 | 3.32 | | | | X | | | X | | X | - | | | | | |
| M | RE-2 | 3.36 | | | | X | | | X | | X | - | | | | | |
| M | RE-3 | 4.85 | | | | X | | | X | | X | - | | | | | |
| M | RE-4 | 4.72 | | | | X | | | X | | X | - | | | | | |
| M | RE-5 | 4.86 | | | | X | | | X | | X | - | | | | | |
| M | RE-6 | 5.16 | | | | X | | | X | | X | - | | | | | |
| M | RE-7 | 5.62 | | | | X | | | X | | X | - | | | | | |
| M | RS-8 | 7.52 | | | | X | | | X | | - | X | | | | | |
| M | RS-9 | 3.44 | | | | X | | | X | | - | X | | | | | |
| M | RS-10 | 6.76 | | | | 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. 240 GALLONS

DATA RECORDED BY: [Signature] INPUT BY: M.M. >|FF\054rsirt

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | |
|-------------------------|----------------------|
| Site <u>03-11-1996</u> | Date <u>SSH 054</u> |
| Address _____ | |
| Personnel <u>SERBAH</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>4.85</u> | ft. | Est. Purge Vol. <u>33</u> |

| Sampling Data | | | | | | |
|----------------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| Initial Turbidity | | | | | | Final Turbidity |
| Time | <u>8:09</u> | <u>8:14</u> | <u>8:20</u> | <u>8:27</u> | <u>8:33</u> | <u>8:40</u> |
| EC | <u>1250</u> | <u>1240</u> | <u>1230</u> | <u>1220</u> | <u>1210</u> | <u>1200</u> |
| pH | <u>6.16</u> | <u>6.14</u> | <u>6.12</u> | <u>6.12</u> | <u>6.10</u> | <u>6.08</u> |
| Temp | <u>70.3</u> | <u>70.1</u> | <u>69.9</u> | <u>69.8</u> | <u>69.7</u> | <u>69.6</u> |
| Gal. | <u>5</u> | <u>11</u> | <u>16</u> | <u>22</u> | <u>27</u> | <u>33</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>03.11.1996</u> |
| Address _____ | |
| Personnel <u>JERDAN</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>4.72</u> | ft. | Est. Purge Vol. <u>26</u> |

| Sampling Data | | | | | | |
|-------------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| Initial Turbidity | | | | | | Final Turbidity |
| Time | <u>8:49</u> | <u>9:52</u> | <u>8:56</u> | <u>9:00</u> | <u>9:04</u> | <u>9:10</u> |
| EC | <u>1130</u> | <u>1120</u> | <u>1110</u> | <u>1100</u> | <u>1100</u> | <u>1100</u> |
| pH | <u>6.08</u> | <u>6.06</u> | <u>6.04</u> | <u>6.04</u> | <u>6.02</u> | <u>6.02</u> |
| Temp | <u>70.3</u> | <u>70.1</u> | <u>69.9</u> | <u>69.8</u> | <u>69.7</u> | <u>69.6</u> |
| Gal. | <u>4</u> | <u>8</u> | <u>12</u> | <u>17</u> | <u>21</u> | <u>26</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>03.11.1996</u> |
| Address _____ | |
| Personnel <u>SERBAN</u> | Weather <u>SUNNY DAY</u> |
| Well No. <u>RE-7</u> | Equip. <u>BAILER</u> |

| | | | |
|-----------------------|--------------|-----|---------------------------|
| Before Purging | | | |
| Total Well Depth | <u>5.62</u> | ft. | Well Diameter <u>4"</u> |
| Depth to Water | <u>13.20</u> | ft. | Est. Purge Vol. <u>20</u> |

| Sampling Data | | | | | | |
|----------------------|-----------------|-------------|-------------|-------------|-------------|-------------|
| Initial Turbidity | Final Turbidity | | | | | |
| Time | <u>9:29</u> | <u>9:32</u> | <u>9:37</u> | <u>9:41</u> | <u>9:46</u> | <u>9:50</u> |
| EC | <u>1550</u> | <u>1540</u> | <u>1530</u> | <u>1520</u> | <u>1510</u> | <u>1510</u> |
| pH | <u>6.18</u> | <u>6.16</u> | <u>6.14</u> | <u>6.12</u> | <u>6.11</u> | <u>6.09</u> |
| Temp | <u>69.9</u> | <u>69.8</u> | <u>69.7</u> | <u>69.6</u> | <u>69.5</u> | <u>69.4</u> |
| Gal. | <u>3</u> | <u>6</u> | <u>9</u> | <u>13</u> | <u>16</u> | <u>20</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>03. 11. 1996</u> |
| Address _____ | |
| Personnel <u>SERBWA</u> | Weather <u>SUNNY DAY</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>4.50</u> | ft. | Est. Purge Vol. <u>26</u> |

| Sampling Data | | | | | | |
|----------------------|-----------------|--------------|--------------|--------------|--------------|--------------|
| Initial Turbidity | Final Turbidity | | | | | |
| Time | <u>10:07</u> | <u>10:10</u> | <u>10:14</u> | <u>10:19</u> | <u>10:24</u> | <u>10:30</u> |
| EC | <u>1570</u> | <u>1560</u> | <u>1540</u> | <u>1550</u> | <u>1530</u> | <u>1540</u> |
| pH | <u>6.12</u> | <u>6.10</u> | <u>6.09</u> | <u>6.07</u> | <u>6.05</u> | <u>6.03</u> |
| Temp | <u>70.5</u> | <u>70.4</u> | <u>70.3</u> | <u>70.1</u> | <u>69.9</u> | <u>69.8</u> |
| Gal. | <u>4</u> | <u>8</u> | <u>12</u> | <u>17</u> | <u>21</u> | <u>26</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 #1054</u> | Date <u>03.11.1996</u> |
| Address _____ | |
| Personnel <u>SERBAH</u> | Weather <u>SUNNY DAY</u> |
| Well No. <u>PW-1</u> | Equip. <u>BAILED</u> |

| | | | |
|-----------------------|--------------|-----|---------------------------|
| Before Purging | | | |
| Total Well Depth | <u>14.10</u> | ft. | Well Diameter <u>4"</u> |
| Depth to Water | <u>3.58</u> | ft. | Est. Purge Vol. <u>27</u> |

| | | | | | | |
|----------------------|--------------|--------------|--------------|-----------------|--------------|--------------|
| Sampling Data | | | | | | |
| Initial Turbidity | _____ | | | Final Turbidity | _____ | |
| Time | <u>10:48</u> | <u>10:52</u> | <u>10:58</u> | <u>11:03</u> | <u>11:09</u> | <u>11:15</u> |
| EC | <u>1260</u> | <u>1240</u> | <u>1240</u> | <u>1220</u> | <u>1210</u> | <u>1200</u> |
| pH | <u>6.13</u> | <u>6.11</u> | <u>6.09</u> | <u>6.07</u> | <u>6.05</u> | <u>6.03</u> |
| Temp | <u>70.5</u> | <u>70.3</u> | <u>70.1</u> | <u>69.9</u> | <u>69.8</u> | <u>69.7</u> |
| Gal. | <u>4</u> | <u>9</u> | <u>13</u> | <u>18</u> | <u>22</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>03.11.1996</u> |
| Address _____ | |
| Personnel <u>SERBOTH</u> | Weather <u>SUNNY DAY</u> |
| Well No. <u>RE-6</u> | Equip. <u>BAILER</u> |

| | | | | |
|-----------------------|--------------|-----|-----------------|-----------|
| Before Purging | | | | |
| Total Well Depth | <u>13.65</u> | ft. | Well Diameter | <u>44</u> |
| Depth to Water | <u>5.16</u> | ft. | Est. Purge Vol. | <u>22</u> |

| Sampling Data | | | | | | |
|----------------------|-----------------|--------------|--------------|--------------|--------------|--------------|
| Initial Turbidity | Final Turbidity | | | | | |
| Time | <u>11:28</u> | <u>11:32</u> | <u>11:37</u> | <u>11:40</u> | <u>11:46</u> | <u>11:50</u> |
| EC | <u>1380</u> | <u>1360</u> | <u>1340</u> | <u>1340</u> | <u>1320</u> | <u>1320</u> |
| pH | <u>6.13</u> | <u>6.11</u> | <u>6.09</u> | <u>6.07</u> | <u>6.06</u> | <u>6.04</u> |
| Temp | <u>71.3</u> | <u>71.1</u> | <u>70.9</u> | <u>70.8</u> | <u>70.7</u> | <u>70.5</u> |
| Gal. | <u>3</u> | <u>7</u> | <u>10</u> | <u>14</u> | <u>18</u> | <u>22</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>SD # 054</u> | Date <u>03.11.1996</u> |
| Address _____ | |
| Personnel <u>SERBOTH</u> | Weather <u>SUNNY DAY</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>3.36</u> | ft. | Est. Purge Vol. <u>36</u> |

| Sampling Data | | | | | | |
|----------------------|--------------|--------------|--------------|--------------|--------------|-----------------|
| Initial Turbidity | | | | | | Final Turbidity |
| Time | <u>12:27</u> | <u>12:33</u> | <u>12:40</u> | <u>12:46</u> | <u>12:53</u> | <u>13:00</u> |
| EC | <u>1130</u> | <u>1110</u> | <u>1100</u> | <u>1100</u> | <u>990</u> | <u>1100</u> |
| pH | <u>6.14</u> | <u>6.12</u> | <u>6.11</u> | <u>6.09</u> | <u>6.07</u> | <u>6.05</u> |
| Temp | <u>70.5</u> | <u>70.3</u> | <u>70.1</u> | <u>69.9</u> | <u>69.8</u> | <u>69.7</u> |
| Gal. | <u>6</u> | <u>12</u> | <u>18</u> | <u>24</u> | <u>30</u> | <u>36</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>03.11.1996</u> |
| Address _____ | |
| Personnel <u>SERBAH</u> | Weather <u>SUNNY DAY</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>4.56</u> | ft. | Est. Purge Vol. <u>36</u> |

| | | | | | | |
|----------------------|--------------|--------------|--------------|-----------------|--------------|--------------|
| Sampling Data | | | | | | |
| Initial Turbidity | _____ | | | Final Turbidity | _____ | |
| Time | <u>13:34</u> | <u>13:42</u> | <u>13:49</u> | <u>13:54</u> | <u>14:00</u> | <u>14:10</u> |
| EC | <u>1250</u> | <u>1240</u> | <u>1230</u> | <u>1220</u> | <u>1210</u> | <u>1200</u> |
| pH | <u>6.11</u> | <u>6.09</u> | <u>6.07</u> | <u>6.05</u> | <u>6.03</u> | <u>6.03</u> |
| Temp | <u>70.3</u> | <u>70.1</u> | <u>69.9</u> | <u>69.8</u> | <u>69.7</u> | <u>69.6</u> |
| Gal. | <u>6</u> | <u>12</u> | <u>18</u> | <u>24</u> | <u>30</u> | <u>36</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>03.11.1996</u> |
| Address _____ | |
| Personnel <u>SERBAH</u> | Weather <u>SUNNY DAY</u> |
| Well No. <u>RE-1</u> | Equip. <u>BAILER</u> |

| | | | |
|-----------------------|--------------|-----|---------------------------|
| Before Purging | | | |
| Total Well Depth | <u>19.85</u> | ft. | Well Diameter <u>4"</u> |
| Depth to Water | <u>4.32</u> | ft. | Est. Purge Vol. <u>43</u> |

| | | | | | | |
|----------------------|--------------|--------------|--------------|-----------------|--------------|--------------|
| Sampling Data | | | | | | |
| Initial Turbidity | _____ | | | Final Turbidity | _____ | |
| Time | <u>14:20</u> | <u>14:29</u> | <u>14:38</u> | <u>14:46</u> | <u>14:52</u> | <u>15:00</u> |
| EC | <u>1410</u> | <u>1390</u> | <u>1380</u> | <u>1370</u> | <u>1350</u> | <u>1330</u> |
| pH | <u>6.16</u> | <u>6.14</u> | <u>6.12</u> | <u>6.10</u> | <u>6.08</u> | <u>6.08</u> |
| Temp | <u>70.5</u> | <u>70.3</u> | <u>70.1</u> | <u>70.1</u> | <u>69.9</u> | <u>69.8</u> |
| Gal. | <u>7</u> | <u>14</u> | <u>21</u> | <u>28</u> | <u>35</u> | <u>43</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>03.11.1996</u> |
| Address _____ | |
| Personnel <u>SERBAH</u> | Weather <u>SUNNY</u> |
| Well No. <u>RS-9</u> | Equip. <u>BAILER</u> |

| | | | |
|-----------------------|--------------|-----|--------------------------|
| Before Purging | | | |
| Total Well Depth | <u>15.00</u> | ft. | Well Diameter <u>2"</u> |
| Depth to Water | <u>3.44</u> | ft. | Est. Purge Vol. <u>8</u> |

| Sampling Data | | | | | | |
|----------------------|-----------------|--------------|--------------|--------------|--------------|--------------|
| Initial Turbidity | Final Turbidity | | | | | |
| Time | <u>15:05</u> | <u>15:07</u> | <u>15:10</u> | <u>15:13</u> | <u>15:17</u> | <u>15:20</u> |
| EC | <u>1220</u> | <u>1210</u> | <u>1220</u> | <u>1210</u> | <u>1200</u> | <u>1190</u> |
| pH | <u>6.09</u> | <u>6.07</u> | <u>6.05</u> | <u>6.03</u> | <u>6.03</u> | <u>6.01</u> |
| Temp | <u>71.3</u> | <u>71.1</u> | <u>70.9</u> | <u>70.8</u> | <u>70.7</u> | <u>70.6</u> |
| Gal. | <u>1</u> | <u>2</u> | <u>3</u> | <u>5</u> | <u>6</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>SS # 054</u> | Date <u>03. 11. 1996</u> |
| Address _____ | |
| Personnel <u>SERBAH</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"</u> |
| Depth to Water | <u>7.52</u> | ft. | Est. Purge Vol. <u>12</u> |

| Sampling Data | | | | | | |
|----------------------|-----------------|--------------|--------------|--------------|--------------|--------------|
| Initial Turbidity | Final Turbidity | | | | | |
| Time | <u>15:44</u> | <u>15:47</u> | <u>15:50</u> | <u>15:53</u> | <u>15:57</u> | <u>16:00</u> |
| EC | <u>1180</u> | <u>1170</u> | <u>1160</u> | <u>1140</u> | <u>1130</u> | <u>1130</u> |
| pH | <u>6.11</u> | <u>6.09</u> | <u>6.08</u> | <u>6.06</u> | <u>6.04</u> | <u>6.02</u> |
| Temp | <u>71.3</u> | <u>71.1</u> | <u>70.9</u> | <u>70.8</u> | <u>70.7</u> | <u>70.6</u> |
| Gal. | <u>2</u> | <u>4</u> | <u>6</u> | <u>8</u> | <u>10</u> | <u>12</u> |
| Time | _____ | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ | _____ |

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

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | |
|-------------------------|------------------------|
| Site <u>SS # 054</u> | Date <u>03.11.1996</u> |
| Address _____ | |
| Personnel <u>SERBWA</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>2"</u> |
| Depth to Water | <u>6.76</u> | ft. | Est. Purge Vol. <u>12</u> |

| Sampling Data | | | | | | |
|----------------------|-----------------|--------------|--------------|--------------|--------------|--------------|
| Initial Turbidity | Final Turbidity | | | | | |
| Time | <u>16:17</u> | <u>16:21</u> | <u>16:26</u> | <u>16:31</u> | <u>16:35</u> | <u>16:40</u> |
| EC | <u>1420</u> | <u>1440</u> | <u>1460</u> | <u>1470</u> | <u>1470</u> | <u>1480</u> |
| pH | <u>6.11</u> | <u>6.09</u> | <u>6.08</u> | <u>6.06</u> | <u>6.06</u> | <u>6.04</u> |
| Temp | <u>70.5</u> | <u>70.3</u> | <u>70.1</u> | <u>69.9</u> | <u>69.9</u> | <u>69.7</u> |
| Gal. | <u>2</u> | <u>4</u> | <u>6</u> | <u>8</u> | <u>10</u> | <u>12</u> |
| Time | _____ | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ | _____ |

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

| MAINFOLD | | | | | | | | | | | | | | | |
|----------|--|-------|--|-----|--|--|-----|-------|-----|--------|--|-----|--|-----|-----|
| WELLS | | WATER | | | | | | WELLS | | VAPORS | | | | | |
| | | | | | | | | | | | | | | | |
| ON | | | | RE4 | | | RE7 | | ON | RE1 | | RE3 | | RE6 | RE2 |
| OFF | | | | | | | | | OFF | | | | | | |

| WELL MONITORING | | | | | RSI SYSTEM | | | |
|-----------------|-----|-----|----|-----|----------------------|--------|------|-----|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS |
| | | | | | TIME | AM/PM | | |
| | | | | | HOURS | # | 8991 | |
| | | | | | ENGINE RPM | RPM | | |
| | | | | | ENGINE VACUUM | IN HG | | |
| | | | | | TK REC TEMP | F | | |
| | | | | | AIR TEMP | F | | |
| | | | | | AIR FLOW | CFM | | |
| | | | | | VAPOR FLOW | CFM | | |
| | | | | | FUEL FLOW | CFM/H | | |
| | | | | | WELL VACUUM | IN H2O | | |
| | | | | | GAS METER | | | |
| | | | | | CATALIST IN | F | | |
| | | | | | CATALIST OUT | F | | |
| | | | | | EXHAUST HC | PPM/% | | |
| | | | | | EXHAUST CO | %PPM | | |
| | | | | | EXHAUST CO2 | % | | |
| | | | | | EXHAUST NOX | %PPM | | |
| | | | | | CATALYST REPLACEMENT | | | |
| | | | | | EXHAUST O2 | % | | |
| | | | | | INLET | PPM | | |
| | | | | | OUTLET | PPM | | |

| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | |
|-------------------------------------------------------------|-----|-------|------|
| PARAMETER | U/M | LIMIT | DATA |
| FLOWMETER | | 605 | |
| ROTAMETER | | | |
| VPI FLOW | | | |
| VPI VACUUM | | | |
| AIR COMPRES | | | |
| VAPOR | | | |
| INLET VAPOR | | | |
| TEMPERATURE | | | |
| LEL | | | |

COMMENTS: *Engine don't start.*

SERVICE TECHNICAN *Jan DeLam* DATE *03.07.1996* THRIFTY OIL CO # *054*

| MAINFOLD | | | | | | | | | | | | | | | |
|----------|--|-------|--|-----|--|--|-----|-------|-----|--------|--|-----|--|-----|-----|
| WELLS | | WATER | | | | | | WELLS | | VAPORS | | | | | |
| | | | | | | | | | | | | | | | |
| ON | | | | RE4 | | | RE7 | | ON | RE1 | | RE3 | | RE6 | RE7 |
| OFF | | | | | | | | | OFF | | | | | | |

| WELL MONITORING | | | | | RSI SYSTEM | | | |
|-----------------|-----|-----|----|-----|----------------------|--------|------|-----|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS |
| | | | | | TIME | AM/PM | | |
| | | | | | HOURS | # | 8991 | |
| | | | | | ENGINE RPM | RPM | | |
| | | | | | ENGINE VACUUM | IN HG | | |
| | | | | | TK REC TEMP | F | | |
| | | | | | AIR TEMP | F | | |
| | | | | | AIR FLOW | CFM | | |
| | | | | | VAPOR FLOW | CFM | | |
| | | | | | FUEL FLOW | CFM/H | | |
| | | | | | WELL VACUUM | IN H2O | | |
| | | | | | GAS METER | | | |
| | | | | | CATALIST IN | F | | |
| | | | | | CATALIST OUT | F | | |
| | | | | | EXHAUST HC | PPM/% | | |
| | | | | | EXHAUST CO | %PPM | | |
| | | | | | EXHAUST CO2 | % | | |
| | | | | | EXHAUST NOX | %PPM | | |
| | | | | | CATALYST REPLACEMENT | | | |
| | | | | | EXHAUST O2 | % | | |
| | | | | | INLET | PPM | | |
| | | | | | OUTLET | PPM | | |

| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | |
|-------------------------------------------------------------|-----|-------|------|
| PARAMETER | U/M | LIMIT | DATA |
| FLOWMETER | | 605 | |
| ROTAMETER | | | |
| VPI FLOW | | | |
| VPI VACUUM | | | |
| AIR COMPRES | | | |
| VAPOR | | | |
| INLET VAPOR | | | |
| TEMPERATURE | | | |
| LEL | | | |

COMMENTS: *Engine don't start.*

SERVICE TECHNICAN *Jan DeLam* DATE 03.07.1996 THRIFTY OIL CO # 054

| MAINFOLD | | | | | | | | | | | | | | | |
|----------|--|-------|--|-----|--|--|-----|-------|-----|--------|--|-----|--|-----|-----|
| WELLS | | WATER | | | | | | WELLS | | VAPORS | | | | | |
| | | | | | | | | | | | | | | | |
| ON | | | | RE4 | | | RE7 | | ON | RE1 | | RE3 | | RE6 | RE2 |
| OFF | | | | | | | | | OFF | | | | | | |

| WELL MONITORING | | | | | RSI SYSTEM | | | |
|-----------------|-----|-----|----|-----|----------------------|--------|------|-----|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS |
| | | | | | TIME | AM/PM | | |
| | | | | | HOURS | # | 899! | |
| | | | | | 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 | | 4 |
| | | | | | GAS METER | | | |
| | | | | | CATALIST IN | F | | |
| | | | | | CATALIST OUT | F | | |
| | | | | | EXHAUST HC | PPM/% | | |
| | | | | | EXHAUST CO | %PPM | | |
| | | | | | EXHAUST CO2 | % | | |
| | | | | | EXHAUST NOX | %PPM | | |
| | | | | | CATALYST REPLACEMENT | | | |
| | | | | | EXHAUST O2 | % | | |
| | | | | | INLET | PPM | | |
| | | | | | OUTLET | PPM | | |

| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | |
|-------------------------------------------------------------|-----|-------|------|
| PARAMETER | U/M | LIMIT | DATA |
| FLOWMETER | | 605 | |
| ROTAMETER | | | |
| VPI FLOW | | | |
| VPI VACUUM | | | |
| AIR COMPRES | | | |
| VAPOR | | | |
| INLET VAPOR | | | |
| TEMPERATURE | | | |
| LEL | | | |

COMMENTS: *Engine don't start.*

SERVICE TECHNICAN *Jim DeLam* DATE 03.07.1996 THRIFTY OIL CO # 054

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | | | | | | | | |
|----------|-------|--|--|-----|--|-----|-------|--------|--|-----|--|-----|-----|
| WELLS | WATER | | | | | | WELLS | VAPORS | | | | | |
| | | | | | | | | | | | | | |
| ON | | | | RE4 | | RE7 | ON | RE1 | | RE3 | | RE6 | RE7 |
| OFF | | | | | | | OFF | | | | | | |

| WELL MONITORING | | | | | RSI SYSTEM | | | |
|-----------------|-----|-----|----|-----|-------------------------|--------------------|------|-----|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS |
| | | | | | TIME | AM/PM | | |
| | | | | | HOURS | # | 8991 | |
| | | | | | 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 | INH ₂ O | | |
| | | | | | GAS METER | | | |
| | | | | | CATALIST IN | F | | |
| | | | | | CATALIST OUT | F | | |
| | | | | | EXHAUST HC | PPM/% | | |
| | | | | | EXHAUST CO | %PPM | | |
| | | | | | EXHAUST CO ₂ | % | | |
| | | | | | EXHAUST NOX | %PPM | | |
| | | | | | CATALYST REPLACEMENT | | | |
| | | | | | EXHAUST O ₂ | % | | |
| | | | | | INLET | PPM | | |
| | | | | | OUTLET | PPM | | |

COMMENTS: *No propane -*

SERVICE TECHNICIAN *[Signature]* DATE *03.01.96* THRIFTY OIL CO # *054*



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | | | | | | | | | | |
|----------|--|-------|--|-----|--|--|-----|-------|-----|--------|-----|--|--|-----|-----|
| WELLS | | WATER | | | | | | WELLS | | VAPORS | | | | | |
| | | | | | | | | | | | | | | | |
| ON | | | | RE4 | | | RE2 | 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 | 9:00 | |
| | | | | | HOURS | # | 2991 | |
| | | | | | ENGINE RPM | RPM | | |
| | | | | | ENGINE VACUUM | IN HG | | |
| | | | | | TK REC TEMP | F | | |
| | | | | | AIR TEMP | F | | |
| | | | | | AIR FLOW | CFM | | |
| | | | | | VAPOR FLOW | CFM | | |
| | | | | | FUEL FLOW | CFM/H | | |
| | | | | | WELL VACUUM | IN H2O | | |
| | | | | | GAS METER | | | |
| | | | | | CATALIST IN | F | | |
| | | | | | CATALIST OUT | F | | |
| | | | | | EXHAUST HC | PPM/% | | |
| | | | | | EXHAUST CO | %PPM | | |
| | | | | | EXHAUST CO2 | % | | |
| | | | | | EXHAUST NOX | %PPM | | |
| | | | | | CATALYST REPLACEMENT | | | |
| | | | | | EXHAUST O2 | % | | |
| | | | | | INLET | PPM | | |
| | | | | | OUTLET | PPM | | |

| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | |
|-------------------------------------------------------------|-----|-------|------|
| PARAMETER | U/M | LIMIT | DATA |
| FLOWMETER | | 605 | |
| ROTAMETER | | | |
| VPI FLOW | | | |
| VPI VACUUM | | | |
| AIR COMPRES | | | |
| VAPOR | | | |
| INLET VAPOR | | | |
| TEMPERATURE | | | |
| LEL | | | |

COMMENTS: ENGINE DON'T START.

SERVICE TECHNICAN Re. P. [Signature] DATE 22.01.96 THRIFTY OIL CO # 054



| MAINFOLD | | | | | | | | | | | | | | | |
|----------|--|-------|--|-----|--|--|-----|-------|-----|--------|-----|--|-----|-----|--|
| WELLS | | WATER | | | | | | WELLS | | VAPORS | | | | | |
| | | | | | | | | | | | | | | | |
| ON | | | | RE4 | | | RE7 | 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 | 9:00 | |
| | | | | | HOURS | # | 8977 | |
| | | | | | ENGINE RPM | RPM | 1900 | |
| | | | | | ENGINE VACUUM | IN HG | 11 | |
| | | | | | TK REC TEMP | F | 95 | |
| | | | | | AIR TEMP | F | 62 | |
| | | | | | AIR FLOW | CFM | 9 | |
| | | | | | VAPOR FLOW | CFM | 7 | |
| | | | | | FUEL FLOW | CFM/H | 80 | |
| | | | | | WELL VACUUM | IN H2O | 11 | |
| | | | | | GAS METER | % | 78% | |
| | | | | | 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 | | 589 | |
| ROTAMETER | | | |
| VPI FLOW | | | |
| VPI VACUUM | | | |
| AIR COMPRES | | | |
| VAPOR | | | |
| INLET VAPOR | | | |
| TEMPERATURE | | | |
| LEL | | | |

COMMENTS: WATER system too slow

SERVICE TECHNICAN Jim Polyan DATE 01.25.91 THRIFTY OIL CO # 054



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | | | | | | | | | | |
|----------|-------|--|--|-----|--|--|-----|-------|--------|--|-----|--|--|-----|-----|
| WELLS | WATER | | | | | | | WELLS | VAPORS | | | | | | |
| | | | | | | | | | | | | | | | |
| ON | | | | RE4 | | | RE7 | ON | RE1 | | RE1 | | | RE6 | RE7 |
| OFF | | | | | | | | OFF | | | | | | | |

| WELL MONITORING | | | | | RSI SYSTEM | | | |
|-----------------|-----|-----|----|-----|----------------------|--------|------|-----|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS |
| | | | | | TIME | AM/PM | 8:00 | |
| | | | | | HOURS | # | 8954 | |
| | | | | | ENGINE RPM | RPM | 1800 | |
| | | | | | ENGINE VACUUM | IN HG | | |
| | | | | | TK REC TEMP | F | 95 | |
| | | | | | AIR TEMP | F | 66° | |
| | | | | | AIR FLOW | CFM | 10 | |
| | | | | | VAPOR FLOW | CFM | 9 | |
| | | | | | FUEL FLOW | CFMH | 90 | |
| | | | | | WELL VACUUM | IN H2O | 13 | |
| | | | | | GAS METER | % | 78% | |
| | | | | | 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 | | 573 | |
| ROTAMETER | | | |
| VPI FLOW | | | |
| VPI VACUUM | | | |
| AIR COMPRES | | | |
| VAPOR | | | |
| INLET VAPOR | | | |
| TEMPERATURE | | | |
| LEL | | | |

COMMENTS: *BW sampling water system it is not working because line from RE-4 is blocked -*

SERVICE TECHNICAN *Phil Stager* DATE *01-18-96* THRIFTY OIL CO # *054*



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | | | | | | | | | | | | | |
|----------|--|-------|--|--|--|-----|--|-------|-----|--------|--|--|-----|--|--|--|-----|-----|
| WELLS | | WATER | | | | | | WELLS | | VAPORS | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| ON | | | | | | RE4 | | RE7 | 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 | 9:00 | |
| | | | | | HOURS | # | 8932 | |
| | | | | | ENGINE RPM | RPM | 1900 | |
| | | | | | ENGINE VACUUM | IN HG | 12 | |
| | | | | | TK REC TEMP | F | 95 | |
| | | | | | AIR TEMP | F | 68° | |
| | | | | | AIR FLOW | CFM | 12 | |
| | | | | | VAPOR FLOW | CFM | 8 | |
| | | | | | FUEL FLOW | CFM/H | 90 | |
| | | | | | WELL VACUUM | IN H2O | 13 | |
| | | | | | GAS METER | | 75% | |
| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | | | CATALIST IN | F | | |
| PARAMETER | U/M | LIMIT | DATA | | CATALIST OUT | F | | |
| FLOWMETER | | 542 | | | 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: *The water remediation system is work too slow*

SERVICE TECHNICAN *Perla P. Lopez* DATE *01.11.96* THRIFTY OIL CO # *054*



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

| MAINFOLD | | | | | | | | | | | | | | | | |
|----------|--|-------|--|-----|--|--|-----|-------|-----|--------|--|-----|--|--|-----|-----|
| WELLS | | WATER | | | | | | WELLS | | VAPORS | | | | | | |
| | | | | | | | | | | | | | | | | |
| ON | | | | RE4 | | | RE7 | ON | RE1 | | | RE3 | | | RE6 | RE7 |
| OFF | | | | | | | | OFF | | | | | | | | |

| WELL MONITORING | | | | | RSI SYSTEM | | | |
|-----------------|-----|-----|----|-----|---------------|--------|-------|-----|
| WELL NO | DTW | DTP | PT | DTB | PARAMETER | U/M | DATA | OBS |
| | | | | | TIME | AM/PM | 11:20 | |
| | | | | | HOURS | # | 8930 | |
| | | | | | ENGINE RPM | RPM | 1800 | |
| | | | | | ENGINE VACUUM | IN HG | 13 | |
| | | | | | TK REC TEMP | F | 95 | |
| | | | | | AIR TEMP | F | 64 | |
| | | | | | AIR FLOW | CFM | 11 | |
| | | | | | VAPOR FLOW | CFM | 9 | |
| | | | | | FUEL FLOW | CFM/H | 85 | |
| | | | | | WELL VACUUM | IN H2O | 13 | |
| | | | | | GAS METER | % | 80% | |

| HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT | | | |
|-------------------------------------------------------------|-----|-------|------|
| PARAMETER | U/M | LIMIT | DATA |
| FLOWMETER | | 526 | |
| 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: *Restart engine, air sampling -*

SERVICE TECHNICIAN *John P. Lopez*

DATE *01.04.96* THRIFTY OIL CO # *054*

APPENDIX B



LABORATORY ANALYSIS RESULTS

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

AA Project No.: A135054-22
Date Received: 01/19/96
Date Reported: 02/13/96
Units: ug

| AA I.D. No. | Client I.D. No. | Date Sampled | Date Extracted | Date Analyzed | Results | MRL |
|-------------|-----------------|--------------|----------------|---------------|---------|-----|
| 42398 | Effluent | 01/18/96 | 02/09/96 | 02/09/96 | <0.1 | 0.1 |
| 42399 | Trip Blank | 01/18/96 | 02/09/96 | 02/09/96 | <0.1 | 0.1 |

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



George Havalias
Laboratory Director



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(818) 998-5548

1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

DATE 01.18.96

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| | | |
|-----------------------------------------|-----------------------------|----------------------------------------|
| AA Client <u>THRIFTY OIL CO.</u> | Phone <u>(510) 923-9876</u> | Sampler's Name <u>SERBATA P.</u> |
| Project Manager <u>CHRIS PAHAITESCU</u> | P.O. No. | Sampler's Signature <i>[Signature]</i> |
| Project Name <u>BW/air sampling</u> | Project No. | Project Manager's Signature |

| | | |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------|
| Job Name <u>35 # 054</u> | ANALYSIS REQUIRED Detection Limits Test Name <i>BENZENE</i> | Test Requirements |
| Address <u>2504 CASTRO VALLEY Blvd. CASTRO VALLEY CA. 94546</u> | | |

| AA ID.# | Client's ID. | Date | Time | Sample Type | Number of Containers | ANALYSIS REQUIRED | | | | | | | | | | | | | | |
|--------------|-------------------|-----------------|--------------|-------------|----------------------|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <u>42398</u> | <u>EFFLUENT</u> | <u>01.18.96</u> | <u>11:00</u> | <u>AIR</u> | <u>1</u> | X | | | | | | | | | | | | | | |
| <u>42399</u> | <u>TRIP BLANK</u> | <u>01.18.96</u> | <u>11:00</u> | <u>AIR</u> | <u>1</u> | X | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
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|----------------------------------------------------------|--------------------|--|--|--|--|--------------------|------------------|--------------|-----------------------------|
| SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB | | | | | | Relinquished by: | Date | Time | Received by: |
| Sample Intact | Yes _____ No _____ | | | | | <i>[Signature]</i> | <u>01.18.96</u> | <u>12:00</u> | <u>CALIFORNIA OVERNIGHT</u> |
| Sample Properly Cooled | Yes _____ No _____ | | | | | | Relinquished by: | Date | Time |
| Sample Accepted | Yes _____ No _____ | | | | | Relinquished by: | Date | Time | Received by: |
| If Not Why: | _____ | | | | | Relinquished by: | Date | Time | Received by: |
| AA Project No. | <u>A135054-22</u> | | | | | Relinquished by: | Date | Time | Received by: |



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS# 54
Sample Matrix: Water
Method: EPA 8015M (Gasoline)

AA Project No.: A135054-23
Date Received: 03/13/96
Date Reported: 03/20/96
Units: ug/L

| AA I.D. No. | Client I.D. No. | Date Sampled | Date Analyzed | Results | MRL |
|-------------|-----------------|--------------|---------------|---------|-----|
| 43919 | RE-3 | 03/11/96 | 03/14/96 | 1600 | 50 |
| 43920 | RE-4 | 03/11/96 | 03/14/96 | 1700 | 50 |
| 43921 | RE-7 | 03/11/96 | 03/14/96 | 4800 | 50 |
| 43922 | PW-2 | 03/11/96 | 03/14/96 | 13000 | 50 |
| 43923 | PW-1 | 03/11/96 | 03/14/96 | 660 | 50 |
| 43924 | RE-6 | 03/11/96 | 03/14/96 | 840 | 50 |
| 43925 | RE-2 | 03/11/96 | 03/14/96 | <50 | 50 |
| 43926 | RE-5 | 03/11/96 | 03/14/96 | 1000 | 50 |
| 43927 | RE-1 | 03/11/96 | 03/14/96 | 270 | 50 |
| 43928 | RS-9 | 03/11/96 | 03/14/96 | 440 | 50 |
| 43929 | RS-8 | 03/11/96 | 03/14/96 | <50 | 50 |
| 43930 | RS-10 | 03/11/96 | 03/14/96 | <50 | 50 |
| 43931 | Trip Blank | 03/11/96 | 03/14/96 | <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# 54
Method: EPA 8015M (Gasoline)
Sample ID: Matrix Spike
Concentration: 500 ug/L

AA ID No.: 43926
Project No.: N/A
AA Project No.: A135054-23
Date Analyzed: 03/14/96
Date Reported: 03/20/96

| Compounds | Result (ug/L) | Spike Recovery (%) | Dup. Result (ug/L) | Spike/Dup. Recovery (%) | RPD (%) | Accept.Rec. Range (%) |
|-------------------------|---------------|--------------------|--------------------|-------------------------|---------|-----------------------|
| Gasoline Range Organics | 487.487 | 97 | 509 | 102 | 5 | 59 - 149 |



George Havallas
Laboratory Director

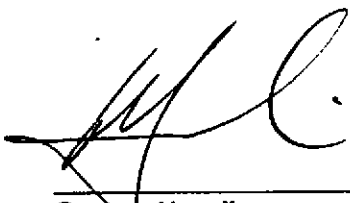


LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS# 54
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-23
Date Received: 03/13/96
Date Reported: 03/20/96
Units: ug/L

| Date Sampled: | 03/11/96 | 03/11/96 | 03/11/96 | 03/11/96 | |
|-------------------|----------|----------|----------|----------|-----|
| Date Analyzed: | 03/14/96 | 03/14/96 | 03/14/96 | 03/14/96 | |
| AA ID No.: | 43919 | 43920 | 43921 | 43922 | |
| Client ID No.: | RE-3 | RE-4 | RE-7 | PW-2 | MRL |
| Compounds: | | | | | |
| Benzene | 640 | 130 | 2200 | 330 | 0.3 |
| Ethylbenzene | 10 | 2.0 | 26 | <15 | 0.3 |
| Toluene | 15 | 15 | 38 | 460 | 0.3 |
| Xylenes | 46 | 120 | 120 | 3800 | 0.5 |



George Havalias
Laboratory Director

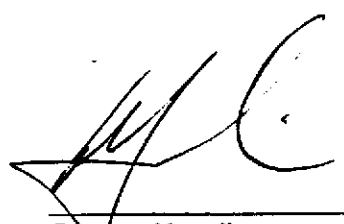


LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS# 54
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-23
Date Received: 03/13/96
Date Reported: 03/20/96
Units: ug/L

| Date Sampled: | 03/11/96 | 03/11/96 | 03/11/96 | 03/11/96 | |
|-------------------|----------|----------|----------|----------|-----|
| Date Analyzed: | 03/14/96 | 03/14/96 | 03/14/96 | 03/14/96 | |
| AA ID No.: | 43923 | 43924 | 43925 | 43926 | |
| Client ID No.: | PW-1 | RE-6 | RE-2 | RE-5 | MRL |
| <u>Compounds:</u> | | | | | |
| Benzene | 0.94 | 43 | <0.3 | 76 | 0.3 |
| Ethylbenzene | <0.3 | 5.7 | <0.3 | <0.3 | 0.3 |
| Toluene | 0.77 | 0.96 | <0.3 | 2.2 | 0.3 |
| Xylenes | 8.1 | 14 | <0.5 | 130 | 0.5 |



George Havalias
Laboratory Director




LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS# 54
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-23
Date Received: 03/13/96
Date Reported: 03/20/96
Units: ug/L

| Date Sampled: | 03/11/96 | 03/11/96 | 03/11/96 | 03/11/96 | |
|-------------------|----------|----------|----------|----------|-----|
| Date Analyzed: | 03/14/96 | 03/14/96 | 03/14/96 | 03/14/96 | |
| AA ID No.: | 43927 | 43928 | 43929 | 43930 | |
| Client ID No.: | RE-1 | RS-9 | RS-8 | RS-10 | MRL |
| Compounds: | | | | | |
| Benzene | 2.4 | 0.7 | 1.3 | <0.3 | 0.3 |
| Ethylbenzene | 4.5 | <0.3 | <0.3 | <0.3 | 0.3 |
| Toluene | 6.0 | 0.34 | <0.3 | <0.3 | 0.3 |
| Xylenes | 19 | 3.7 | 0.6 | <0.5 | 0.5 |



George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS# 54
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-23
Date Received: 03/13/96
Date Reported: 03/20/96
Units: ug/L

| | | |
|-------------------|------------|-----|
| Date Sampled: | 03/11/96 | |
| Date Analyzed: | 03/14/96 | |
| AA ID No.: | 43931 | |
| Client ID No.: | Trip Blank | MRL |
| Compounds: | | |
| Benzene | <0.3 | 0.3 |
| Ethylbenzene | <0.3 | 0.3 |
| Toluene | <0.3 | 0.3 |
| Xylenes | <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

Page 1

Client: Thrifty Oil Company
Project Name: SS# 54
Method: EPA 8020 (BTEX)
Sample ID: Matrix Spike
Concentration: 20 ug/L

AA ID No.: 43926
Project No.: N/A
AA Project No.: A135054-23
Date Analyzed: 03/14/96
Date Reported: 03/20/96

| Compounds | Result (ug/L) | Spike Recovery (%) | Dup. Result (ug/L) | Spike/Dup. Recovery (%) | RPD (%) | Accept.Rec. Range (%) |
|--------------|---------------|--------------------|--------------------|-------------------------|---------|-----------------------|
| Benzene | 17.33 | 87 | 18.8 | 94 | 8 | 65 - 135 |
| Ethylbenzene | 17.56 | 88 | 19.5 | 98 | 11 | 77 - 123 |
| Toluene | 17.50 | 88 | 19.0 | 95 | 8 | 66 - 134 |
| Xylenes | 14.59 | 73 | 17.6 | 88 | 19 | 73 - 127 |

George Havalias
Laboratory Director



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DATE: 03.11.96

PAGE 1 OF 4

| | | | | | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------------------------------|--------------|----------|-------|-------------|----------------------|-------------------------------------|---|------------------------------------------------|------|-----------------------------------|--|--|--|--|--|--|--|--|--|--|
| AA Client THRIFTY OIL COMPANY | | | | | | Phone (210) 923-9876/311 | | Sampler's Name SERBAN P. | | | | | | | | | | | | |
| Project Manager CHRIS PAHAITESCU | | | | | | P.O. No. | | Sampler's Signature <i>[Signature]</i> | | | | | | | | | | | | |
| Project Name QUARTERLY WATER SAMPLING | | | | | | Project No. | | Project Manager's Signature <i>[Signature]</i> | | | | | | | | | | | | |
| Job Name and Address 35 054 2504 CASTRO VALLEY Blvd. CASTRO VALLEY, 94546 | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | | | | |
| | | | | | | Detection Limits | | Test Requirements | | | | | | | | | | | | |
| | | | | | | Test Name | | | | | | | | | | | | | | |
| AA ID.# | Client's ID. | Date | Time | Sample Type | Number of Containers | TPH BTEX | | | | | | | | | | | | | | |
| 43919 | RE-3 | 03.11.96 | 16:55 | WATER | 2 | X | X | | | | | | | | | | | | | |
| 43920 | RE-4 | 03.11.96 | 17:05 | ↑ | 2 | X | X | | | | | | | | | | | | | |
| 43921 | RE-7 | 03.11.96 | 17:12 | | 2 | X | X | | | | | | | | | | | | | |
| 43922 | PW-2 | 03.11.96 | 17:17 | | 2 | X | X | | | | | | | | | | | | | |
| 43923 | PW-1 | 03.11.96 | 17:20 | | 2 | X | X | | | | | | | | | | | | | |
| 43924 | RE-6 | 03.11.96 | 17:26 | | 2 | X | X | | | | | | | | | | | | | |
| 43925 | RE-2 | 03.11.96 | 17:30 | | 2 | X | X | | | | | | | | | | | | | |
| 43926 | RE-5 | 03.11.96 | 17:36 | | 2 | X | X | | | | | | | | | | | | | |
| 43927 | RE-1 | 03.11.96 | 17:42 | | 2 | X | X | | | | | | | | | | | | | |
| 43928 | RS-9 | 03.11.96 | 17:50 | | 2 | X | X | | | | | | | | | | | | | |
| 43929 | RS-8 | 03.11.96 | 18:00 | | 2 | X | X | | | | | | | | | | | | | |
| 43930 | RS-10 | 03.11.96 | 18:15 | | 2 | X | X | | | | | | | | | | | | | |
| 43931 | TRIP BLANK | 03.11.96 | 6:20 | ↓ | 2 | X | X | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 26 | | | | | | | | | | | | |
| SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB | | | | | | Relinquished by: <i>[Signature]</i> | | Date | Time | Received by: CA. OVERNIGHT | | | | | | | | | | |
| Samples Intact Yes _____ No _____ | | | | | | Relinquished by: | | Date | Time | Received by: | | | | | | | | | | |
| Samples Properly Cooled Yes _____ No _____ | | | | | | Relinquished by: | | Date | Time | Received by: | | | | | | | | | | |
| Samples Accepted Yes _____ No _____ | | | | | | Relinquished by: | | Date | Time | Received by: | | | | | | | | | | |
| If Not Why: _____ | | | | | | Relinquished by: | | Date | Time | Received by: | | | | | | | | | | |
| AA Project No. A135054-23 | | | | | | Relinquished by: | | Date | Time | Received by: | | | | | | | | | | |