

August 18, 1992

THRIFTY OIL CO.

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
2nd. QUARTER REPORT, 1992

Dear Mr. Seary,

This letter report presents the results of soil/groundwater treatment and site monitoring during the 2nd. quarter of 1992 at the subject site. The approximate location of the on- and off-site monitoring wells are shown on Figure 1. During the 2nd. quarter of 1992, Earth Management Co. (EMC) operated and maintained the soil/groundwater treatment unit (RSI-SAVE system) and as of January 29, 1992 the unit has not been operational. Currently, EMC is in the process of obtaining natural gas for operation of the unit in stead of propane. During the monthly site visits by EMC, a technician inspected the treatment unit, collected groundwater samples and recorded any pertinent data.

Treatment Unit Operation

Based on the data obtained by EMC, the RSI-SAVE unit has operated a total of 5209 hours as of January 29, 1992. A total of about 2672 gallons of water has been processed by the unit and discharged to the local sanitary sewer.

Site Monitoring and Sample Collection

The site was visited once a month 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 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 2.65 to 9.22 feet below grade. As of June 25, 1992, six of the twelve wells exhibited noticeable floating product ranging from a sheen to 0.02 feet. 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 on June 25, 1992 is depicted on Figure 1. In general, the groundwater flow was to the east at a gradient of about 5 feet per 100 feet. No pumping depressions were noted as the unit was not operational.



Prior to collecting groundwater samples from the wells that did not exhibit free floating hydrocarbons, 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. About 7 to 38 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 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. **Down-gradient wells RS-8 and RS-10 generally indicated no detectable hydrocarbons.** Up-gradient well RS-9 revealed significant levels of TPH/BETX based on the three sample events. However, a decreasing trend has been noted since January, 1992. An iso-concentration map of benzene based on the June sampling event is presented as **Figure 2**.

Closing

Thrifty will continue to monitor groundwater at the site on a quarterly basis for the remainder of 1992. In addition, **the RSI-SAVE system will be restarted once natural gas is hooked up and appropriate monitoring will be accomplished.** If you have any questions please contact me at (310) 923-9876.

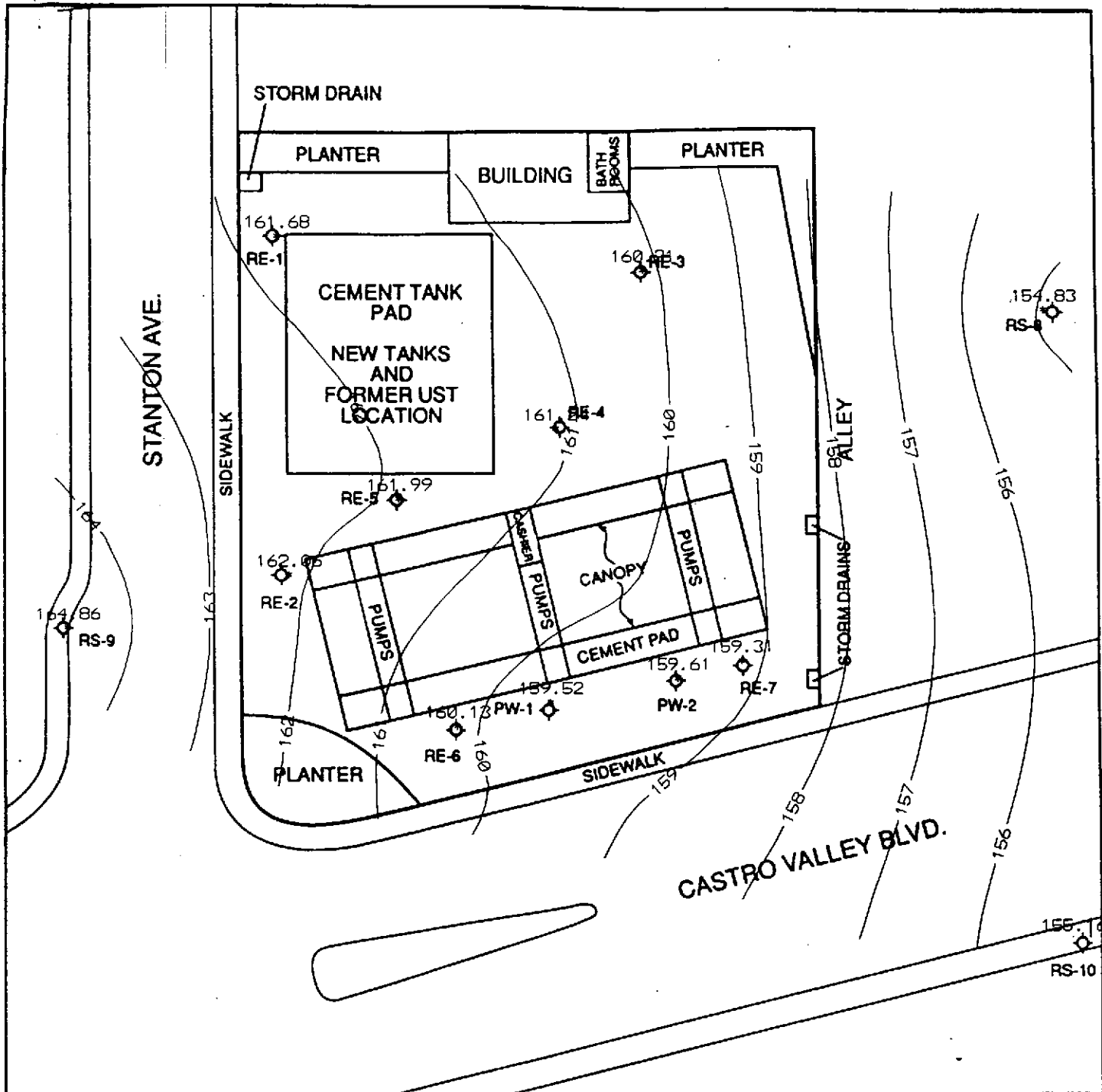
1 - 8 00 - 900 - 4862

Very truly yours,



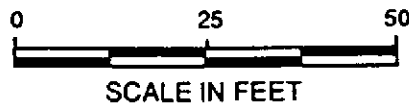
Peter D'Amico
Manager
Environmental Affairs

cc: Mr. Ray Lorge
2522 Castro Valley Blvd.
Castro Valley, CA



GROUNDWATER CONTOUR MAP

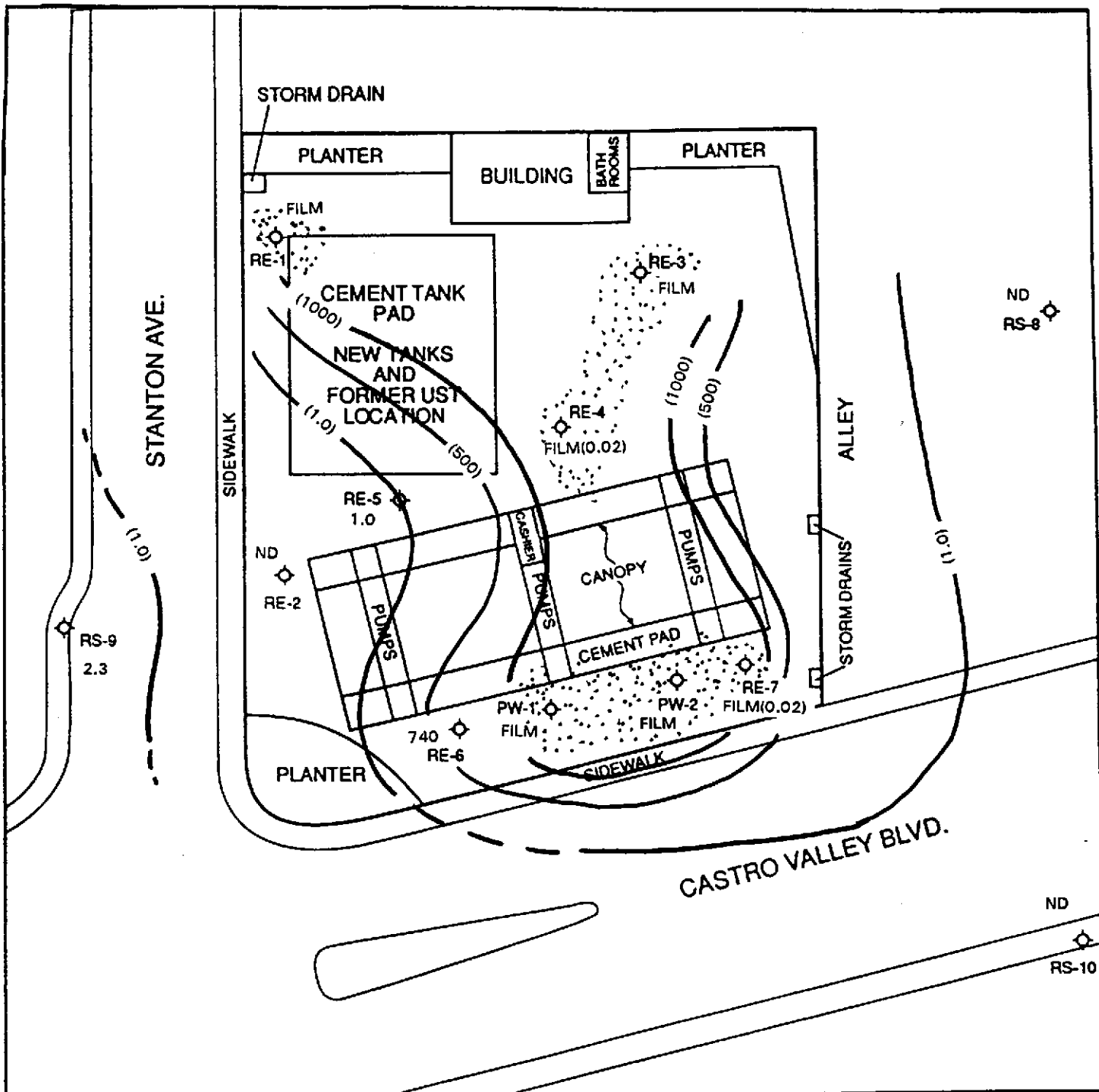
THRIFTY OIL CO. #054
 CASTRO VALLEY, CALIFORNIA
 Prepared for
 THRIFTY OIL CO.
 DOWNEY, CALIFORNIA



- ◊ EXISTING MONITORING WELL
- GROUNDWATER CONTOUR, 06-25-92



FIGURE 1



BENZENE ISO-CON MAP
THRIFTY OIL CO. #054
CASTRO VALLEY, CALIFORNIA
 Prepared for
THRIFTY OIL CO.
DOWNEY, CALIFORNIA



- PRODUCT FILM
- EXISTING MONITORING WELL
- BENZENE ISO-CON, PPB, 06-25-92

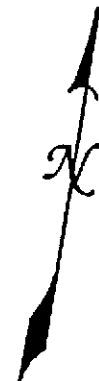


FIGURE 2

Table 1 - Summary of Analytical Results

| I.D | Date | TPH | Benzene | Toluene | Ethyl-Benzene | Xylenes |
|----------|----------|---------|---------|---------|---------------|---------|
| PW-1 | 5/22/91 | 41000 | 600 | 730 | 250 | 3800 |
| | 3/19/92 | ND | ND | ND | ND | ND |
| | 4/22/92 | NS | | | | |
| | 5/21/92 | 1300 | 19 | 2.9 | 0.7 | 58 |
| | 6/25/92 | NS | | | | |
| PW-2 | 5/22/91 | 14000 | 57 | 51 | 10 | 480 |
| | 6/19/91 | NS | | | | |
| | 4/22/92 | NS | | | | |
| | 5/21/92 | NS | | | | |
| | 6/25/92 | NS | | | | |
| RE-1 | 5/22/91 | 85000 | 8700 | 10000 | 1800 | 12000 |
| | 6/19/91 | 110000 | 8500 | 9600 | 2600 | 16000 |
| | 7/17/91 | 5500 | 950 | ND | 26 | ND |
| | 8/07/91 | NA | 6700 | 5000 | ND | 7100 |
| | 9/27/91 | 60000 | 6800 | 4300 | 640 | 6900 |
| | 10/23/91 | 79000 | 7900 | 8300 | 450 | 7100 |
| | 11/06/91 | 130000 | 14000 | 15000 | 1100 | 8800 |
| | 12/04/91 | 50000 | 8000 | 4700 | 520 | 4100 |
| | 1/29/92 | 21000 | 10300 | 11000 | 780 | 6000 |
| | 2/26/92 | 38000 | 8400 | 10500 | 720 | 7100 |
| | 3/19/92 | 48000 | 6200 | 9700 | 780 | 7200 |
| | 4/22/92 | NS | | | | |
| | 5/21/92 | 20000 | 7600 | 10100 | 830 | 6900 |
| | 6/25/92 | NS | | | | |
| | RE-2 | 5/22/91 | 1000 | 5.3 | 3.6 | 4.4 |
| 6/19/91 | | 700 | 2.1 | 1.4 | 3.8 | 3.5 |
| 7/17/91 | | 880 | 12.0 | 8.0 | 4.3 | 28.0 |
| 8/07/91 | | NA | 3.8 | 1.6 | ND | ND |
| 9/27/91 | | 670 | 7.2 | 7.1 | ND | 23 |
| 10/23/91 | | 2700 | 52 | 60 | 22 | 130 |
| 11/06/91 | | 1900 | 18 | 61 | 9.1 | 83 |
| 12/04/91 | | 1100 | 26 | 47 | 4.3 | 42 |
| 1/29/92 | | 900 | 14 | 24 | 5.3 | 19 |
| 2/26/92 | | 500 | 3.4 | 3.5 | 2.7 | 2.7 |
| 3/19/92 | | 1200 | 14 | 20 | 15 | 18 |
| 4/22/92 | | 200 | ND | ND | ND | ND |
| 5/21/92 | | 500 | 7.5 | 6.8 | 3.9 | 7.4 |
| 6/25/92 | | ND | ND | 0.9 | 0.7 | ND |
| RE-5 | | 5/22/91 | 2500 | 330 | 7.8 | 5.6 |
| | 6/19/91 | 2000 | 59 | 1.6 | 5.1 | 110 |
| | 11/06/91 | 9900 | 2300 | 37 | 260 | 160 |
| | 12/04/91 | 4500 | 1000 | 27 | ND | 180 |
| | 1/29/92 | 600 | 6.1 | 2.3 | ND | 47 |
| | 2/26/92 | 500 | 5.4 | 2.7 | 1.2 | 14 |
| | 3/19/92 | ND | 1.7 | 1.1 | ND | 5.5 |
| | 4/22/92 | 1600 | 240 | 2.2 | ND | 160 |
| | 5/21/92 | 1200 | 410 | 37 | ND | 118 |
| | 6/25/92 | ND | 1.0 | 0.8 | 0.8 | 0.4 |

| | | | | | | |
|----------|----------|---------|------|-------|------|-------|
| RE-6 | 5/22/91 | 8500 | 1700 | 14 | 24 | 6.7 |
| | 6/19/91 | NA | NA | NA | NA | NA |
| | 7/17/91 | 12000 | 9300 | 13000 | 2400 | 16000 |
| | 8/07/91 | NA | 590 | 5.3 | ND | 14 |
| | 9/27/91 | 7000 | 310 | 11 | 5.3 | 35 |
| | 11/06/91 | 4000 | 710 | 18 | 29 | 49 |
| | 12/04/91 | 4100 | 1100 | 14 | 33 | 39 |
| | 1/29/92 | 2600 | 790 | 14 | ND | 49 |
| | 2/26/92 | 3100 | 950 | 21 | 30 | 33 |
| | 3/19/92 | 2200 | 630 | 14 | 12 | 40 |
| | 4/22/92 | NA | 730 | 2.2 | ND | 40 |
| | 5/21/92 | 1500 | 840 | 7.8 | 7.1 | 34 |
| | 6/25/92 | < 2000 | 740 | 8 | 27 | 28 |
| | RS-8 | 8/07/91 | ND | ND | ND | ND |
| 9/27/91 | | ND | ND | ND | ND | ND |
| 10/23/91 | | ND | ND | ND | ND | ND |
| 11/06/91 | | ND | ND | ND | ND | ND |
| 12/04/91 | | ND | ND | ND | ND | ND |
| 1/29/92 | | ND | 2.1 | 1.0 | 2.5 | 3.6 |
| 2/26/92 | | ND | ND | 0.7 | ND | 0.7 |
| 3/19/92 | | ND | 0.5 | 1.0 | 1.5 | 2.7 |
| 4/22/92 | | ND | ND | ND | ND | ND |
| 5/21/92 | | ND | ND | ND | ND | ND |
| 6/25/92 | ND | ND | ND | ND | ND | |
| RS9 | 8/07/91 | NA | 0.5 | ND | 330 | 1200 |
| | 9/27/91 | 13000 | 3.5 | 3.0 | 82 | 140 |
| | 10/23/91 | 11000 | ND | ND | 39 | 340 |
| | 11/06/91 | 6800 | 8.4 | 0.6 | 22 | 230 |
| | 12/04/91 | 6500 | 6.5 | 0.7 | 87 | 200 |
| | 1/29/92 | 8100 | 22 | 10 | 140 | 260 |
| | 2/26/92 | 13000 | 40 | 16 | 220 | 600 |
| | 3/19/92 | 12000 | 21 | 12 | 100 | 280 |
| | 4/22/92 | 8600 | ND | ND | 20 | 37 |
| | 5/21/92 | 6000 | 21 | 10 | 53 | 210 |
| 6/25/92 | 370 | 2.3 | 1.5 | 0.7 | 4.3 | |
| RS10 | 8/07/91 | ND | ND | ND | ND | ND |
| | 9/27/91 | ND | ND | ND | ND | ND |
| | 10/23/91 | ND | ND | ND | ND | ND |
| | 11/06/91 | ND | ND | ND | ND | ND |
| | 12/04/91 | ND | ND | ND | ND | ND |
| | 1/29/92 | ND | ND | ND | ND | ND |
| | 2/26/92 | ND | ND | ND | ND | ND |
| | 3/19/92 | ND | ND | ND | ND | 0.6 |
| | 4/22/92 | ND | ND | ND | ND | ND |
| | 5/21/92 | ND | ND | 0.6 | ND | 1.2 |
| 6/25/92 | ND | ND | ND | ND | ND | |

Results reported in micrograms per liter (ug/L)

NA - Not Analyzed.
NS - Not Sampled due film of hydrocarbons.
ND - Not detected in sample collected.
TPH - Total Petroleum Hydrocarbons as gasoline.



PROJECT STATUS REPORT
 THRIFTY OIL CO. S.S. #054
 2504 CASTRO VALLEY BLVD.
 CASTRO VALLEY, CA 94546
 DATE: APRIL 22, 1992

| 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 = S L I G H T) | | | 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 | | | |
| | N O . | D T W | D T P . | P T | Y E S | N O | S | Y E S | N O | Y E S | N O | Y E S | N O | O K | N O | O N | O F F | O N | O F F |
| M | PW-1 | 5.62 | SHEEN | | - | - | X | - | X | X | - | X | - | | | - | - | | |
| M | PW-2 | 5.88 | SHEEN | | - | - | X | - | X | X | - | X | - | | | - | - | | |
| M | RE-1 | 4.62 | | | - | - | X | - | X | X | - | X | - | | | - | - | | |
| M | RE-2 | 4.78 | | | - | X | - | - | X | X | - | X | - | | | - | - | | |
| M | RE-3 | 6.56 | SHEEN | | X | - | - | X | - | X | - | X | - | | | - | - | | |
| M | RE-4 | 5.94 | SHEEN | | X | - | - | X | - | X | - | X | - | | | X | - | | |
| M | RE-5 | 4.63 | | | - | X | - | - | X | X | - | X | - | | | - | - | | |
| M | RE-6 | 6.00 | | | - | X | - | - | X | X | - | X | - | | | X | - | | |
| M | RE-7 | 6.12 | SHEEN | | X | - | - | X | - | X | - | X | - | | | - | - | | |
| M | RS-8 | 8.60 | | | - | X | - | - | X | - | X | - | X | - | - | - | - | | |
| M | RS-9 | 3.24 | | | - | X | - | - | X | - | X | - | X | - | - | - | - | | |
| M | RS-10 | 7.78 | | | - | X | - | - | X | - | X | - | 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 | NO | VAPOR FLOW | C F M | |
| RESTARTED | YES/NO | 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

| E F F L U E N T | | I N F L U E N T | | W E L L S | |
|-----------------|-----|-----------------|-----|-----------|----------------|
| () | () | () | () | () | Q.-SEE C.CUST. |

REMARKS: _____

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

DATA RECORDED BY : EUGENIU GASMAN INPUT BY: R.K. >\FF\054rsirt

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 4/22/1992 STATION NO. 054
 PERSONNEL E. GAMATI, T. ROSE
 WELL NO. RS 10 WEATHER SUNNY
 SAMPLE EQUIPMENT TEFLON BAILER

Before Sampling

Total Well Depth 24.45 Ft. Well Diameter 2"
 Depth to Water 7.78 Ft. Purge Volume 10 gallons

Sampling Data

| Time | <u>10:05</u> | <u>10:10</u> | <u>10:15</u> | <u>10:20</u> | <u>10:25</u> | _____ | _____ |
|------|--------------|--------------|--------------|--------------|--------------|-------|-------|
| EC | <u>4700</u> | <u>4680</u> | <u>4670</u> | <u>4670</u> | <u>4670</u> | _____ | _____ |
| pH | <u>7.50</u> | <u>7.38</u> | <u>7.05</u> | <u>7.05</u> | <u>7.05</u> | _____ | _____ |
| Temp | <u>68.2</u> | <u>67.7</u> | <u>67.2</u> | <u>66.5</u> | <u>66.2</u> | _____ | _____ |
| Gal. | <u>2</u> | <u>4</u> | <u>6</u> | <u>8</u> | <u>10</u> | _____ | _____ |
| Time | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

After Sampling

Depth to Water 8.00 Ft. Total Well Depth 24.45 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 4/22/92 STATION NO. 054
 PERSONNEL F. GALMAN, T. ROSE
 WELL NO. RS 8 WEATHER SUNNY
 SAMPLE EQUIPMENT TEFLON BAILER

Before Sampling

Total Well Depth 25.20 Ft. Well Diameter 2"
 Depth to Water 8.60 Ft. Purge Volume 10 gallons

Sampling Data

| Time | <u>10:45</u> | <u>10:50</u> | <u>10:55</u> | <u>MOD</u> | <u>11:05</u> | | |
|------|--------------|--------------|--------------|-------------|--------------|--|--|
| EC | <u>1210</u> | <u>1240</u> | <u>1230</u> | <u>1230</u> | <u>1230</u> | | |
| pH | <u>7.50</u> | <u>7.40</u> | <u>7.35</u> | <u>7.35</u> | <u>7.35</u> | | |
| Temp | <u>68.3</u> | <u>67.9</u> | <u>67.9</u> | <u>67.9</u> | <u>67.9</u> | | |
| Gal. | <u>2</u> | <u>4</u> | <u>6</u> | <u>8</u> | <u>10</u> | | |
| Time | | | | | | | |
| EC | | | | | | | |
| pH | | | | | | | |
| Temp | | | | | | | |
| Gal. | | | | | | | |

After Sampling

Depth to Water 9.10 Ft. Total Well Depth 25.20 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 4/22/92 STATION NO. 054
PERSONNEL E. GASMAN, T. ROW
WELL NO. R.S.9 WEATHER SUNNY
SAMPLE EQUIPMENT TEFLON BAILER

Before Sampling

Total Well Depth 15 Ft. Well Diameter 2"
Depth to Water 3.24 Ft. Purge Volume 8 gallons

Sampling Data

| Time | <u>11:30</u> | <u>11:35</u> | <u>11:40</u> | <u>11:45</u> | <u>11:50</u> | | |
|------|--------------|--------------|--------------|--------------|--------------|--|--|
| EC | <u>910</u> | <u>870</u> | <u>860</u> | <u>860</u> | <u>860</u> | | |
| pH | <u>72.4</u> | <u>69.5</u> | <u>68.3</u> | <u>67.7</u> | <u>67.7</u> | | |
| Temp | <u>7.90</u> | <u>7.60</u> | <u>7.45</u> | <u>7.40</u> | <u>7.40</u> | | |
| Gal. | <u>1</u> | <u>2</u> | <u>4</u> | <u>6</u> | <u>8</u> | | |
| Time | | | | | | | |
| EC | | | | | | | |
| pH | | | | | | | |
| Temp | | | | | | | |
| Gal. | | | | | | | |

After Sampling

Depth to Water 4.24 Ft. Total Well Depth 15 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 4/22/92 STATION NO. 054
 PERSONNEL E. GASMAN, T. ROJU
 WELL NO. RE2 WEATHER SUNNY
 SAMPLE EQUIPMENT TEFLON BAILER

Before Sampling

Total Well Depth 17.10 Ft. Well Diameter 4"
 Depth to Water 4.78 Ft. Purge Volume 32 gallons

Sampling Data

| Time | <u>12:15</u> | <u>12:25</u> | <u>12:35</u> | <u>12:45</u> | <u>12:55</u> | <u>1:05</u> | |
|------|--------------|--------------|--------------|--------------|--------------|-------------|--|
| EC | <u>1050</u> | <u>1040</u> | <u>1030</u> | <u>1030</u> | <u>1030</u> | <u>1030</u> | |
| pH | <u>7.60</u> | <u>7.40</u> | <u>7.18</u> | <u>7.16</u> | <u>7.16</u> | <u>7.16</u> | |
| Temp | <u>69.2</u> | <u>68.2</u> | <u>67</u> | <u>67</u> | <u>66.9</u> | <u>66.9</u> | |
| Gal. | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>32</u> | |
| Time | | | | | | | |
| EC | | | | | | | |
| pH | | | | | | | |
| Temp | | | | | | | |
| Gal. | | | | | | | |

After Sampling

Depth to Water 5.90 Ft. Total Well Depth 17.10 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 4/22/92 STATION NO. 054
 PERSONNEL E. GASMAN, T. ROHU
 WELL NO. RE 6 WEATHER SUNNY
 SAMPLE EQUIPMENT TEFLON BAILER

Before Sampling

Total Well Depth 13.65 Ft. Well Diameter 4"
 Depth to Water 6.00 Ft. Purge Volume 20 gallons

Sampling Data

| Time | <u>2:45</u> | <u>2:55</u> | <u>3:05</u> | <u>3:15</u> | <u>3:25</u> | | |
|------|-------------|-------------|-------------|-------------|-------------|--|--|
| EC | <u>1950</u> | <u>1780</u> | <u>1770</u> | <u>1770</u> | <u>1770</u> | | |
| pH | <u>6.87</u> | <u>6.84</u> | <u>6.83</u> | <u>6.83</u> | <u>6.83</u> | | |
| Temp | <u>67.9</u> | <u>67.8</u> | <u>67.4</u> | <u>67.2</u> | <u>67.2</u> | | |
| Gal. | <u>4</u> | <u>8</u> | <u>12</u> | <u>16</u> | <u>20</u> | | |
| Time | | | | | | | |
| EC | | | | | | | |
| pH | | | | | | | |
| Temp | | | | | | | |
| Gal. | | | | | | | |

After Sampling

Depth to Water _____ Ft. Total Well Depth _____ Ft.



PROJECT STATUS REPORT
 THRIFTY OIL CO. S.S. #054
 2504 CASTRO VALLEY BLVD.
 CASTRO VALLEY, CA 94546
 DATE: 5/21/1992

| 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 | 6.21 | | | | ✓ | | | ✓ | | X | - | ✓ | | | | |
| M | PW-2 | 6.03 | Filter | | ✓ | | | ✓ | | | X | - | ✓ | | | | |
| M | RE-1 | 4.98 | | | | ✓ | | | ✓ | | X | - | ✓ | | | | |
| M | RE-2 | 5.02 | | | | ✓ | | | ✓ | | X | - | ✓ | | | | |
| M | RE-3 | 6.90 | Filter | | ✓ | | | ✓ | | | X | - | ✓ | | | | |
| M | RE-4 | 5.40 | Filter | | ✓ | | | ✓ | | | X | - | ✓ | | | | |
| M | RE-5 | 4.90 | | | | ✓ | | | ✓ | | X | - | ✓ | | | | |
| M | RE-6 | 6.25 | | | | ✓ | | | ✓ | | X | - | ✓ | | | | |
| M | RE-7 | 6.40 | Filter | | ✓ | | | ✓ | | | X | - | ✓ | | | | |
| M | RS-8 | 9.22 | | | | ✓ | | | ✓ | | - | X | ✓ | | | | |
| M | RS-9 | 3.75 | | | | ✓ | | | ✓ | | - | X | ✓ | | | | |
| M | RS-10 | 6.21 | | | | ✓ | | | ✓ | | - | X | ✓ | | | | |

SAVE SYSTEM WEEKLY

| PARAMETER | U/M | DATA | PARAMETER | U/M | DATA |
|---------------|--------|---------|-------------------|---------|-------|
| TIME | AM/PM | 8:30 AM | AIR FLOW | C F M | |
| WORKING | YES/NO | No | VAPOR FLOW | C F M | |
| RESTARTED | YES/NO | No | FUEL FLOW | C F M/H | |
| HOURS | # | | WELL VACUUM | IN H2O | |
| ENGINE ROT. | RPM | | L P G TANKS | % | #1: 0 |
| 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. 17 GALLONS

DATA RECORDED BY: E. GAMMAY INPUT BY: M.M. >\FF\054rsirt

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | |
|-------------------------------------|-----------------------------|
| Site <u>054</u> | Date <u>5/21/92</u> |
| Address _____ | |
| Personnel <u>E. GARMAN, T. ROJU</u> | Weather <u>SUNNY</u> |
| Well No. <u>RS-10</u> | Equip. <u>TEFLON BAILER</u> |

| Before Purging | | | |
|------------------|--------------|-----|-----------------------------------|
| Total Well Depth | <u>24.45</u> | ft. | Well Diameter <u>2"</u> |
| Depth to Water | <u>6.21</u> | ft. | Est. Purge Vol. <u>12 yellows</u> |

| Sampling Data | | | | | |
|-------------------|---------------|-------------|-----------------|--------------|-------------|
| Initial Turbidity | <u>94.6</u> | | Final Turbidity | <u>124.4</u> | |
| Time | <u>9:10 A</u> | <u>9:15</u> | <u>9:20</u> | <u>9:25</u> | <u>9:30</u> |
| EC | <u>6610</u> | <u>6450</u> | <u>6220</u> | <u>6210</u> | <u>6210</u> |
| pH | <u>7.08</u> | <u>7.08</u> | <u>7.08</u> | <u>7.08</u> | <u>7.08</u> |
| Temp | <u>72.9</u> | <u>70.5</u> | <u>69.3</u> | <u>69.2</u> | <u>69.2</u> |
| Gal. | <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 <u>7.45</u> | ft. Total Well Depth <u>24.45</u> ft. |

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | |
|-------------------------------------|-----------------------------|
| Site <u>054</u> | Date <u>5/21/92</u> |
| Address _____ | |
| Personnel <u>E. GASMAN, T. ROSU</u> | Weather <u>SUNNY</u> |
| Well No. <u>RS-8</u> | Equip. <u>TEFLON BAILEY</u> |

| Before Purging | |
|-----------------------------------|-----------------------------------|
| Total Well Depth <u>25.20</u> ft. | Well Diameter <u>2"</u> |
| Depth to Water <u>9.22</u> ft. | Est. Purge Vol. <u>10 gallons</u> |

| Sampling Data | | | | | |
|-------------------|---------------|-------------|-----------------|--------------|--------------|
| Initial Turbidity | <u>162.6</u> | | Final Turbidity | <u>149.5</u> | |
| Time | <u>9:50 A</u> | <u>9:55</u> | <u>10:00</u> | <u>10:05</u> | <u>10:10</u> |
| EC | <u>1840</u> | <u>1560</u> | <u>1560</u> | <u>1560</u> | <u>1560</u> |
| pH | <u>7.30</u> | <u>7.28</u> | <u>7.26</u> | <u>7.26</u> | <u>7.26</u> |
| Temp | <u>69.9</u> | <u>68.5</u> | <u>68.5</u> | <u>68.4</u> | <u>68.4</u> |
| Gal. | <u>2</u> | <u>4</u> | <u>6</u> | <u>8</u> | <u>10</u> |
| Time | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ |

| After Purging/Before Sample Collection | |
|--|-----------------------------------|
| Depth to Water <u>10.5</u> ft. | Total Well Depth <u>25.20</u> ft. |

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | |
|------------------------------------|-----------------------------|
| Site <u>054</u> | Date <u>5/21/92</u> |
| Address _____ | |
| Personnel <u>E. GARMAN, T. ROW</u> | Weather <u>SUNNY</u> |
| Well No. <u>RS - 9</u> | Equip. <u>TEFLON BAILER</u> |

| Before Purging | | | |
|------------------|-------------|-----|----------------------------------|
| Total Well Depth | <u>15.</u> | ft. | Well Diameter <u>2"</u> |
| Depth to Water | <u>3.75</u> | ft. | Est. Purge Vol. <u>7 gallons</u> |

| Sampling Data | | | | | |
|-------------------|---------------|--------------|--------------|-----------------|--------------|
| Initial Turbidity | <u>31.4</u> | | | Final Turbidity | <u>24.3</u> |
| Time | <u>10:30A</u> | <u>10:35</u> | <u>10:40</u> | <u>10:45</u> | <u>10:50</u> |
| EC | <u>1200</u> | <u>1180</u> | <u>1180</u> | <u>1180</u> | <u>1180</u> |
| pH | <u>7.40</u> | <u>7.33</u> | <u>7.30</u> | <u>7.30</u> | <u>7.30</u> |
| Temp | <u>70.1</u> | <u>69.9</u> | <u>69.9</u> | <u>69.9</u> | <u>69.9</u> |
| Gal. | <u>2</u> | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u> |
| Time | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ |

| After Purging/Before Sample Collection | |
|--|--------------------------------|
| Depth to Water <u>4.5</u> | ft. Total Well Depth <u>65</u> |
| ft. | |

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | |
|-------------------------------------|-----------------------------|
| Site <u>054</u> | Date <u>5/21/1992</u> |
| Address _____ | |
| Personnel <u>E. GARMAN, T. ROSU</u> | Weather <u>SUNNY</u> |
| Well No. <u>RE 1</u> | Equip. <u>TETLON BAILER</u> |

| | | | |
|-----------------------|--------------|-----|-----------------------------------|
| Before Purging | | | |
| Total Well Depth | <u>19.85</u> | ft. | Well Diameter <u>4"</u> |
| Depth to Water | <u>4.98</u> | ft. | Est. Purge Vol. <u>38 gallons</u> |

| Sampling Data | | | | | | |
|----------------------|--------------|--------------|--------------|-----------------|--------------|--------------|
| Initial Turbidity | | | | Final Turbidity | | |
| | <u>41.40</u> | | | <u>43.50</u> | | |
| Time | <u>11:25</u> | <u>11:35</u> | <u>11:45</u> | <u>11:55</u> | <u>12:05</u> | <u>12:17</u> |
| EC | <u>1270</u> | <u>1200</u> | <u>1180</u> | <u>1170</u> | <u>1160</u> | <u>1160</u> |
| pH | <u>7.16</u> | <u>7.12</u> | <u>7.11</u> | <u>7.11</u> | <u>7.11</u> | <u>7.11</u> |
| Temp | <u>71.7</u> | <u>70.2</u> | <u>68.8</u> | <u>68.4</u> | <u>68.4</u> | <u>68.4</u> |
| Gal. | <u>5</u> | <u>10</u> | <u>15</u> | <u>23</u> | <u>30</u> | <u>38</u> |
| Time | _____ | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ | _____ |

| | | | |
|---|-------------|-----|-----------------------------------|
| After Purging/Before Sample Collection | | | |
| Depth to Water | <u>6.20</u> | ft. | Total Well Depth <u>19.85</u> ft. |

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | |
|------------------------------------|----------------------------|
| Site <u>054</u> | Date <u>5/21/1992</u> |
| Address _____ | |
| Personnel <u>E. GILMAN, T. ROX</u> | Weather <u>SUNNY</u> |
| Well No. <u>RE-6</u> | Equip. <u>TEFLON BAWER</u> |

| Before Purging | |
|-----------------------------------|-----------------------------------|
| Total Well Depth <u>13.65</u> ft. | Well Diameter <u>4"</u> |
| Depth to Water <u>6.25</u> ft. | Est. Purge Vol. <u>19 gallons</u> |

| Sampling Data | | | | | |
|-------------------|--------------|--------------|-----------------|-------------|---------------|
| Initial Turbidity | <u>3.54</u> | | Final Turbidity | <u>2.14</u> | |
| Time | <u>12:35</u> | <u>12:45</u> | <u>12:55</u> | <u>1:05</u> | <u>1:15 P</u> |
| EC | <u>1640</u> | <u>1620</u> | <u>1610</u> | <u>1610</u> | <u>1610</u> |
| pH | <u>7.08</u> | <u>7.00</u> | <u>7.00</u> | <u>7.00</u> | <u>7.00</u> |
| Temp | <u>72.9</u> | <u>70.8</u> | <u>70.4</u> | <u>70.4</u> | <u>70.4</u> |
| Gal. | <u>4</u> | <u>8</u> | <u>12</u> | <u>16</u> | <u>19</u> |
| Time | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ |

| After Purging/Before Sample Collection | |
|--|-----------------------------------|
| Depth to Water <u>7.00</u> ft. | Total Well Depth <u>13.65</u> ft. |

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | |
|-------------------------------------|-----------------------------|
| Site <u>054</u> | Date <u>5/21/92</u> |
| Address _____ | |
| Personnel <u>E. GASMAN, T. ROSU</u> | Weather <u>SUNNY</u> |
| Well No. XXXX <u>PW1</u> | Equip. <u>TEFLON BAILER</u> |

| Before Purging | |
|-----------------------------------|-----------------------------------|
| Total Well Depth <u>14.10</u> ft. | Well Diameter <u>4"</u> |
| Depth to Water <u>6.21</u> ft. | Est. Purge Vol. <u>20 gallons</u> |

| Sampling Data | | | | | |
|-------------------|-------------|-------------|-------------|-----------------|-------------|
| Initial Turbidity | <u>23.6</u> | | | Final Turbidity | <u>19.4</u> |
| Time | <u>1:35</u> | <u>1:45</u> | <u>1:55</u> | <u>2:05</u> | <u>2:10</u> |
| EC | <u>670</u> | <u>610</u> | <u>610</u> | <u>610</u> | <u>610</u> |
| pH | <u>7.28</u> | <u>7.11</u> | <u>7.05</u> | <u>7.05</u> | <u>7.05</u> |
| Temp | <u>71.9</u> | <u>71.4</u> | <u>70.9</u> | <u>70.8</u> | <u>70.8</u> |
| Gal. | <u>4</u> | <u>8</u> | <u>12</u> | <u>16</u> | <u>20</u> |
| Time | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ |

| After Purging/Before Sample Collection | |
|--|-----------------------------------|
| Depth to Water <u>7.5</u> ft. | Total Well Depth <u>14.10</u> ft. |

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | |
|------------------------------------|-----------------------------|
| Site <u>054</u> | Date <u>5/21/1992</u> |
| Address _____ | |
| Personnel <u>E. GASMAN, T. ROW</u> | Weather <u>SUNNY</u> |
| Well No. <u>RE 2</u> | Equip. <u>TEFLON BAILER</u> |

| Before Purging | |
|-----------------------------------|-----------------------------------|
| Total Well Depth <u>17.10</u> ft. | Well Diameter <u>4"</u> |
| Depth to Water <u>5.02</u> ft. | Est. Purge Vol. <u>30 gallons</u> |

| Sampling Data | | | | | | |
|-------------------|-------------|-------------|-------------|-----------------|-------------|-------------|
| Initial Turbidity | <u>9.16</u> | | | Final Turbidity | <u>6.88</u> | |
| Time | <u>2:15</u> | <u>2:20</u> | <u>2:25</u> | <u>2:30</u> | <u>2:35</u> | <u>2:40</u> |
| EC | <u>1360</u> | <u>1350</u> | <u>1340</u> | <u>1340</u> | <u>1340</u> | <u>1340</u> |
| pH | <u>7.14</u> | <u>7.14</u> | <u>7.14</u> | <u>7.14</u> | <u>7.14</u> | <u>7.14</u> |
| Temp | <u>70.5</u> | <u>70</u> | <u>70</u> | <u>69.9</u> | <u>69.9</u> | <u>69.9</u> |
| Gal. | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> |
| Time | _____ | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ | _____ |

| After Purging/Before Sample Collection | |
|--|-----------------------------------|
| Depth to Water <u>6.00</u> ft. | Total Well Depth <u>17.10</u> ft. |

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

| | |
|-------------------------------------|-----------------------------|
| Site <u>054</u> | Date <u>5/21/1992</u> |
| Address _____ | |
| Personnel <u>E. GARMAN, T. ROSU</u> | Weather <u>SUNNY</u> |
| Well No. <u>RE 5</u> | Equip. <u>TEFLON BAILER</u> |

| Before Purging | | | |
|------------------|--------------|-----|-----------------------------------|
| Total Well Depth | <u>18.25</u> | ft. | Well Diameter <u>4"</u> |
| Depth to Water | <u>4.90</u> | ft. | Est. Purge Vol. <u>35 gallons</u> |

| Sampling Data | | | | | |
|-------------------|-------------|-------------|-------------|-----------------|-------------|
| Initial Turbidity | <u>7.50</u> | | | Final Turbidity | <u>4.84</u> |
| Time | <u>2:50</u> | <u>3:00</u> | <u>3:05</u> | <u>3:10</u> | <u>3:15</u> |
| EC | <u>1410</u> | <u>1400</u> | <u>1400</u> | <u>1400</u> | <u>1400</u> |
| pH | <u>7.16</u> | <u>7.14</u> | <u>7.13</u> | <u>7.14</u> | <u>7.14</u> |
| Temp | <u>70.9</u> | <u>70.4</u> | <u>70.4</u> | <u>70.1</u> | <u>70</u> |
| Gal. | <u>10</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>35</u> |
| Time | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ |

| After Purging/Before Sample Collection | |
|--|---------------------------------------|
| Depth to Water <u>5.84</u> | ft. Total Well Depth <u>18.25</u> ft. |



PROJECT STATUS REPORT
 THRIFTY OIL CO. S.S. #054
 2504 CASTRO VALLEY BLVD.
 CASTRO VALLEY, CA 94546
 DATE: 6.25.1992

| 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 = S L I G H T) | | | 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 | 6.94 | SHEEN | | | | Y | Y | X | - | | | | | | | |
| M | PW-2 | 6.57 | Film | | Y | | | X | X | - | | | | | | | |
| M | RE-1 | 5.14 | SHEEN | | | | Y | Y | X | - | | | | | | | |
| M | RE-2 | 5.13 | | | | Y | | Y | X | - | | | | | | | |
| M | RE-3 | 7.18 | HEEGY | | | | Y | Y | X | - | | | | | | | |
| M | RE-4 | 5.71 | 5.69 | | Y | | | Y | X | - | | | | | | | |
| M | RE-5 | 5.15 | | | | Y | | Y | X | - | | | | | | | |
| M | RE-6 | 6.38 | | | | Y | | Y | X | - | | | | | | | |
| M | RE-7 | 6.73 | 6.71 | | Y | | | Y | X | - | | | | | | | |
| M | RS-8 | 9.49 | | | | | Y | Y | - | X | | | | | | | |
| M | RS-9 | 2.65 | | | | | Y | Y | - | X | | | | | | | |
| M | RS-10 | 7.73 | | | | | Y | Y | - | 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 | No | VAPOR FLOW | C F M | |
| RESTARTED | YES/NO | No | FUEL FLOW | C F M/H | |
| HOURS | # | | WELL VACUUM | I N H ₂ O | |
| ENGINE ROT. | RPM | | L P G TANKS | % | #1: <u>β</u> |
| ENGINE VACUUM | I N H G | | GAS METER READING | - | N/A |
| TANK VACUUM | I N H G | | 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

| EPFLUENT | INFLUENT | WELLS |
|-----------------------------|-----------------------------|--------------------------------|
| (<u> </u>) <u> </u> | (<u> </u>) <u> </u> | (<u> </u>) Q.-SEE C.CUST. |

REMARKS: _____

FREE PRODUCT REMOVED: APPROX. GALLONS WATER REMOVED: APPROX. 113 GALLONS

DATA RECORDED BY: E. GASMAN INPUT BY: M.M. >\FF\054rsirt

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 6/25 / 1992 STATION NO. 057
 PERSONNEL E. GARMAN, T. ROSU
 WELL NO. RS-10 WEATHER SUNNY
 SAMPLE EQUIPMENT TEFLON BAILEY

Before Sampling

Total Well Depth 24.45 Ft. Well Diameter 2"
 Depth to Water 7.73 Ft. Purge Volume 11 gallons

INITIAL TURBIDITY = 35.3 FINAL TURBIDITY = 167.3

Sampling Data

| | | | | | | | |
|------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Time | <u>9:45</u> | <u>9:47</u> | <u>9:50</u> | <u>9:52</u> | <u>9:54</u> | <u>9:56</u> | <u>10:00</u> |
| EC | <u>6420</u> | <u>6200</u> | <u>6080</u> | <u>5970</u> | <u>5900</u> | <u>5900</u> | <u>5900</u> |
| pH | <u>7.28</u> | <u>7.19</u> | <u>7.16</u> | <u>7.16</u> | <u>7.16</u> | <u>7.16</u> | <u>7.16</u> |
| Temp | <u>73</u> | <u>72</u> | <u>71</u> | <u>71</u> | <u>71</u> | <u>71</u> | <u>71</u> |
| Gal. | <u>2</u> | <u>4</u> | <u>6</u> | <u>8</u> | <u>9</u> | <u>10</u> | <u>11</u> |
| Time | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

After Sampling

Depth to Water 9.10 Ft. Total Well Depth 24.45 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 6/25/92 STATION NO. 054
 PERSONNEL E. GARMAN, T. ROSU
 WELL NO. RS-8 WEATHER SUNNY
 SAMPLE EQUIPMENT TEFLON BAILER

Before Sampling

Total Well Depth 25.20 Ft. Well Diameter 2"
 Depth to Water 9.49 Ft. Purge Volume 10 gallons

INITIAL TURBIDITY = 33.6 FINAL TURBIDITY = 40.1

Sampling Data

| Time | <u>10:25</u> | <u>10:27</u> | <u>10:29</u> | <u>10:32</u> | <u>10:34</u> | <u>10:36</u> | |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| EC | <u>1650</u> | <u>1610</u> | <u>1510</u> | <u>1500</u> | <u>1500</u> | <u>1500</u> | |
| pH | <u>7.52</u> | <u>7.50</u> | <u>7.50</u> | <u>7.50</u> | <u>7.50</u> | <u>7.50</u> | |
| Temp | <u>72.6</u> | <u>72</u> | <u>72</u> | <u>71.9</u> | <u>71.9</u> | <u>71.9</u> | |
| Gal. | <u>2</u> | <u>4</u> | <u>6</u> | <u>8</u> | <u>9</u> | <u>10</u> | |
| Time | | | | | | | |
| EC | | | | | | | |
| pH | | | | | | | |
| Temp | | | | | | | |
| Gal. | | | | | | | |

After Sampling

Depth to Water 12.05 Ft. Total Well Depth 25.20 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 6/25/1992 STATION NO. 054
PERSONNEL E. GAZMAN, T. ROSU
WELL NO. RS-9 WEATHER SUNNY
SAMPLE EQUIPMENT TEFLON BAILER

Before Sampling

Total Well Depth 15 Ft. Well Diameter 2"
Depth to Water 2.65 Ft. Purge Volume 8 gallons

INITIAL TURBIDITY = 17.7 FINAL TURBIDITY = 26.3

Sampling Data

| Time | 11:05 | 11:07 | 11:10 | 11:12 | 11:15 | | |
|------|-------|-------|-------|-------|-------|--|--|
| EC | 1200 | 1200 | 1200 | 1200 | 1200 | | |
| pH | 7.70 | 7.60 | 7.58 | 7.55 | 7.55 | | |
| Temp | 73 | 72 | 72 | 71.8 | 71.8 | | |
| Gal. | 2 | 4 | 6 | 7 | 8 | | |
| Time | | | | | | | |
| EC | | | | | | | |
| pH | | | | | | | |
| Temp | | | | | | | |
| Gal. | | | | | | | |

After Sampling

Depth to Water 4.07 Ft. Total Well Depth 15 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 6/25/1992 STATION NO. 054
 PERSONNEL E. GASMAN, T ROW
 WELL NO. RE5 WEATHER SUNNY
 SAMPLE EQUIPMENT TEFLON BAILER

Before Sampling

Total Well Depth 18.25 Ft. Well Diameter 4"
 Depth to Water 5.15 Ft. Purge Volume 34 gallons

INITIAL TURBIDITY = 3.54 FINAL TURBIDITY 5.69

Sampling Data

| | | | | | | | |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Time | <u>12:05</u> | <u>12:10</u> | <u>12:15</u> | <u>12:20</u> | <u>12:25</u> | <u>12:30</u> | <u>12:35</u> |
| EC | <u>1400</u> | <u>1400</u> | <u>1380</u> | <u>1350</u> | <u>1350</u> | <u>1350</u> | <u>1350</u> |
| pH | <u>7.40</u> | <u>7.30</u> | <u>7.30</u> | <u>7.30</u> | <u>7.30</u> | <u>7.30</u> | <u>7.30</u> |
| Temp | <u>74</u> | <u>74</u> | <u>72.7</u> | <u>71.2</u> | <u>70.4</u> | <u>70.4</u> | <u>70.4</u> |
| Gal. | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>34</u> |
| Time | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

After Sampling

Depth to Water 6.30 Ft. Total Well Depth 18.25 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 8/25/1992 STATION NO. 054
 PERSONNEL E. GARMAN, T. ROBU
 WELL NO. RE-2 WEATHER _____
 SAMPLE EQUIPMENT TEFLON BAILER

Before Sampling

Total Well Depth 17.10 Ft. Well Diameter 4"
 Depth to Water 5.13 Ft. Purge Volume 31 gallons

Sampling Data

| | | | | | | | |
|------|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| Time | <u>1:10</u> | <u>1:15</u> | <u>1:20</u> | <u>1:25</u> | <u>1:30</u> | <u>1:35</u> | _____ |
| EC | <u>1430</u> | <u>1435</u> | <u>1440</u> | <u>1440</u> | <u>1440</u> | <u>1440</u> | _____ |
| pH | <u>7.51</u> | <u>7.35</u> | <u>7.33</u> | <u>7.33</u> | <u>7.33</u> | <u>7.33</u> | _____ |
| Temp | <u>71.6</u> | <u>71</u> | <u>70.8</u> | <u>70.8</u> | <u>70.8</u> | <u>70.8</u> | _____ |
| Gal. | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>31</u> | _____ |
| Time | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| EC | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| pH | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Temp | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Gal. | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

After Sampling

Depth to Water 7.12 Ft. Total Well Depth 17.10 Ft.

FIELD DATA - GROUNDWATER WELL SAMPLING PROGRAM

DATE 6/25/1992 STATION NO. 054
 PERSONNEL E. GARMAN, T. ROY
 WELL NO. RE-6 WEATHER SUNNY
 SAMPLE EQUIPMENT TEFLON BAILER

Before Sampling

Total Well Depth 13.65 Ft. Well Diameter 4"
 Depth to Water 6.38 Ft. Purge Volume 19 gallons

INITIAL TURBIDITY = 6.67 FINAL TURBIDITY = 2.29

Sampling Data

| Time | <u>2:00</u> | <u>2:05</u> | <u>2:10</u> | <u>2:15</u> | <u>2:20</u> | <u>2:25</u> |
|------|-------------|-------------|-------------|-------------|-------------|-------------|
| EC | <u>1510</u> | <u>1540</u> | <u>1540</u> | <u>1540</u> | <u>1540</u> | <u>1540</u> |
| pH | <u>7.30</u> | <u>7.18</u> | <u>7.18</u> | <u>7.16</u> | <u>7.16</u> | <u>7.16</u> |
| Temp | <u>70.4</u> | <u>70</u> | <u>70</u> | <u>69.8</u> | <u>69.8</u> | <u>69.8</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 Sampling

Depth to Water 8.41 Ft. Total Well Depth 13.65 Ft.



LABORATORY ANALYSIS RESULTS

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

AA Project No.: A135054-2
Date Sampled: 4/22/92
Date Received: 4/29/92
Date Analyzed: 4/30/92
Units: mg/L
Date Reported: 6/10/92

| AA ID No. | Client ID | Total Petroleum Hydrocarbon Results (ppm) | Detection Limits (ppm) |
|-----------|------------|---|------------------------|
| 8672 | RS-10 | ND | 0.2 |
| 8673 | RS-8 | ND | 0.2 |
| 8674 | RS-9 | 8.6 | 0.2 |
| 8675 | RE-2 | 0.2 | 0.2 |
| 8676 | RE-5 | 1.6 | 0.2 |
| 8678 | Trip Blank | ND | 0.2 |

ND: Not detected at or above the concentration of detection limits


Larry L. Schaleger, Ph.D.
Laboratory Director

tjm



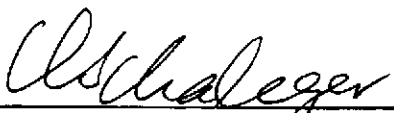
LABORATORY ANALYSIS RESULTS

Client: Thrifty Oil Company
Project No.: N/A
Project Name: TOC #054
Sample Matrix: Water
Method: EPA 602 (BTEX)

AA Project No.: A135054-2
Date Sampled: 4/22/92
Date Received: 4/29/92
Date Analyzed: 4/30/92
Units: µg/L
Date Reported: 6/10/92

| AA I.D.# | Client I.D. | Results (ppb) | | | |
|-------------------|--------------------------------|---------------|--------------|---------|---------|
| | | Benzene | Ethylbenzene | Toluene | Xylenes |
| 8672 | RS- 8 ¹⁰ | ND | ND | ND | ND |
| 8673 | RS-8 | ND | ND | ND | ND |
| 8674 | RS-9 | ND | 20 | ND | 37 |
| 8675 | RE-2 | ND | ND | ND | ND |
| 8676 | RE-5 | 240 | ND | 2.2 | 160 |
| 8677 | RE-6 | 730 | ND | 2.2 | 40 |
| 8678 | Trip Blank | ND | ND | ND | ND |
| Detection Limits: | | 0.5 | 0.5 | 0.5 | 0.5 |

ND: Not detected at or above the concentration of detection limits


Larry L. Schaleger, Ph.D.
Laboratory Director

tjm



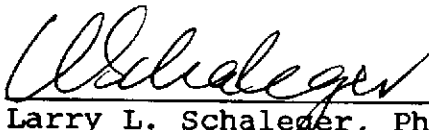
LABORATORY QA/QC REPORT

Client: Thrifty Oil Company
Method: EPA 602 (BTEX), QC, Spike
AA Project No.: A135054-2

Sample Matrix: Water
Date Analyzed: 4/30/92
Date Reported: 5/5/92

| Compound | Spike Recovery (%) | Spike/Duplicate Recovery (%) | RPD (%) |
|---------------|--------------------|------------------------------|---------|
| Benzene | 106 | 98 | 7.8 |
| Toluene | 99 | 97 | 2.0 |
| Ethyl Benzene | 92 | 92 | 0 |
| Total Xylenes | 92 | 95 | 3.2 |

RPD = Relative Percent Difference, $100[(x_1 - x_2)/((x_1 + x_2)/2)]$


Larry L. Schaefer, Ph.D.
Laboratory Director

tjm



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

(818) 998-5547

(818) 998-5548

1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

DATE: _____

PAGE _____ OF _____

| | | |
|-------------------------------------|-----------------------------|--|
| AA Client TRIFY OIL CO | Phone (209) 546-0791 | Sampler's Name EUGENIU GARMAN |
| Project Manager NICK CIORTAN | P.O. No. | Sampler's Signature <i>Eugeniu Garmann</i> |
| Project Name TOC # 054 | Project No. | Project Manager's Signature |

| | | | |
|---|--------------------------|-----------|-------------------|
| Job Name and Address TOC # 054 2504 CASTRO VALLEY CASTRO VALLEY CA 94546 | ANALYSIS REQUIRED | | Test Requirements |
| | Detection Limits | Test Name | |

| AA ID.# | Client's ID. | Date | Time | Sample Type | Number of Containers | # | P | T | B | | | | | | | | | | |
|---------|--------------|---------|--------|-------------|----------------------|---|---|---|---|--|--|--|--|--|--|--|--|--|--|
| 8672 | RS 10 | 4/22/92 | 12:49P | GRAB | 2 | X | X | | | | | | | | | | | | |
| 8673 | RS 8 | 4/22/92 | 1:20P | GRAB | 2 | X | X | | | | | | | | | | | | |
| 8674 | RS 9 | 4/22/92 | 1:50P | GRAB | 2 | X | X | | | | | | | | | | | | |
| 8675 | RG 2 | 4/22/92 | 2:10P | GRAB | 2 | X | X | | | | | | | | | | | | |
| 8676 | RE 5 | 4/24/92 | 3:00P | GRAB | 2 | X | X | | | | | | | | | | | | |
| 8677 | RE 6 | 4/22/92 | 3:20P | GRAB | 2 | X | X | | | | | | | | | | | | |
| 8678 | TRIP BLANK | 4/22/92 | 7:20P | | 2 | X | X | | | | | | | | | | | | |

| | | | | | |
|--|---|------------------------------------|---------|-------|--------------------------|
| SAMPLE INTEGRITY TO BE FILLED IN BY RECEIVING LAB | | Relinquished by: <i>E. Garmann</i> | Date | Time | Received by: |
| Sample Intact | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Relinquished by: | 4/29/92 | 12:00 | <i>George L. Garmann</i> |
| Sample Property Cooled | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Relinquished by: | | | |
| Sample Accepted | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Relinquished by: | | | |
| If Not Why: _____ | | Relinquished by: | | | |
| AA Project No. A135054-2 | | Relinquished by: | | | |



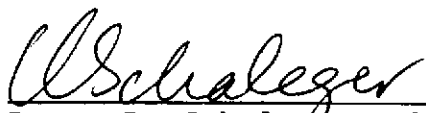
LABORATORY ANALYSIS RESULTS

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

AA Project No.: A135054-1
Date Sampled: 5/21/92
Date Received: 5/23/92
Date Analyzed: 5/27,28/92
Units: mg/L
Date Reported: 6/10/92

| AA ID No. | Client ID | Total Petroleum Hydrocarbon Results (ppm) | Detection Limits (ppm) |
|-----------|------------|---|------------------------|
| 9188 | RS-10 | ND | 0.2 |
| 9189 | RS-8 | ND | 0.2 |
| 9190 | RS-9 | 6 | 2 |
| 9191 | RE-1 | 20 | 4 |
| 9192 | RE-5 | 1.2 | 0.2 |
| 9193 | RE-2 | 0.5 | 0.2 |
| 9194 | PW-1 | 1.3 | 0.2 |
| 9195 | RE-6 | 1.5 | 0.2 |
| 9196 | Trip Blank | ND | 0.2 |

ND: Not detected at or above the concentration of detection limits


Larry L. Schaefer, Ph.D.
Laboratory Director

tjm




LABORATORY ANALYSIS RESULTS

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

AA Project No.: A135054-1
Date Sampled: 5/21/92
Date Received: 5/23/92
Date Analyzed: 5/27,28/92
Units: $\mu\text{g/L}$
Date Reported: 6/10/92

| AA I.D.# | Client I.D. | Results (ppb) | | | |
|-------------------|-------------|---------------|--------------|---------|---------|
| | | Benzene | Ethylbenzene | Toluene | Xylenes |
| 9188 | RS-10 | ND | ND | 0.6 | 1.2 |
| 9189 | RS-8 | ND | ND | ND | ND |
| Detection Limits: | | 0.5 | 0.5 | 0.5 | 0.5 |
| 9190 | RS-9 | 21 | 53 | 10 | 210 |
| Detection Limits: | | 5 | 5 | 5 | 5 |
| 9191 | RE-1 | 7,600 | 830 | 10,100 | 6,900 |
| Detection Limits: | | 250 | 250 | 250 | 250 |
| 9192 | RE-5 | 410 | ND | 37 | 118 |
| Detection Limits: | | 5 | 5 | 5 | 5 |
| 9193 | RE-2 | 7.5 | 3.9 | 6.8 | 7.4 |
| 9194 | PW-1 | 19 | 0.7 | 2.9 | 58 |
| Detection Limits: | | 0.5 | 0.5 | 0.5 | 2.5 |
| 9195 | RE-6 | 840 | 7.1 | 7.8 | 34 |
| Detection Limits: | | 25 | 0.5 | 0.5 | 0.5 |
| 9196 | Trip Blank | 0.6 | ND | 3.1 | 0.7 |
| Detection Limits: | | 0.5 | 0.5 | 0.5 | 0.5 |

ND: Not detected at or above the concentration of detection limits


Larry L. Schaleger, Ph.D.
Laboratory Director

tjm




LABORATORY QA/QC REPORT

Client: Thrifty Oil Company
Method: EPA 8015M (Gasoline), QC, Spike
AA Project No.: A135054-1

Sample Matrix: Water
Date Analyzed: 5/27/92
Date Reported: 6/10/92

| Spike Recovery (%) | Spike/Duplicate Recovery (%) | RPD (%) |
|--------------------------|------------------------------------|------------|
| 98 | 94 | 4.2 |

RPD = Relative Percent Difference, $100[(x_1 - x_2)/((x_1 + x_2)/2)]$


Larry L. Schaleger, Ph.D.
Laboratory Director

tjm




LABORATORY QA/QC REPORT

Client: Thrifty Oil Company
Method: EPA 8015M (Gasoline), QC, Spike
AA Project No.: A135054-1

Sample Matrix: Water
Date Analyzed: 5/28/92
Date Reported: 6/10/92

| Spike Recovery (%) | Spike/Duplicate Recovery (%) | RPD (%) |
|--------------------------|------------------------------------|------------|
| 105 | 105 | 0 |

RPD = Relative Percent Difference, $100[(x_1 - x_2)/((x_1 + x_2)/2)]$


Larry L. Schaleger, Ph.D.
Laboratory Director

tjm



LABORATORY QA/QC REPORT

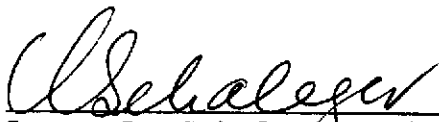
Client: Thrifty Oil Company
Method: EPA 602 (BTEX), QC, Spike
AA Project No.: A135054-1

Sample Matrix: Water
Date Analyzed: 5/27/92
Date Reported: 6/10/92

| Compound | Spike Recovery (%) | Spike/Duplicate Recovery (%) | RPD (%) |
|---------------|--------------------|------------------------------|---------|
| Benzene | 78 | 69 | 12.2 |
| Toluene | 81 | 73 | 10.4 |
| Ethyl Benzene | 105 | 102 | 2.9 |
| Total Xylenes | 97 | 92 | 5.3 |

Note: Laboratory Control Standard Recoveries were within control limits.

RPD = Relative Percent Difference, $100[(x_1 - x_2)/\{(x_1 + x_2)/2\}]$


Larry L. Schaleger, Ph.D.
Laboratory Director

tjm



LABORATORY QA/QC REPORT

Client: Thrifty Oil Company
Method: EPA 602 (BTEX), QC, Spike
AA Project No.: A135054-1

Sample Matrix: Water
Date Analyzed: 5/28/92
Date Reported: 6/10/92

| Compound | Spike Recovery (%) | Spike/Duplicate Recovery (%) | RPD (%) |
|---------------|--------------------|------------------------------|---------|
| Benzene | 100 | 102 | 2.0 |
| Toluene | 100 | 103 | 3.0 |
| Ethyl Benzene | 102 | 103 | 1.0 |
| Total Xylenes | 100 | 105 | 4.9 |

RPD = Relative Percent Difference, $100[(x_1 - x_2)/((x_1 + x_2)/2)]$


Larry L. Schaleger, Ph.D.
Laboratory Director

tjm



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

DATE: 5/21/92
PAGE ____ OF ____

(818) 998-5547 (818) 998-5548 1-800-633-TEST 1-800-533-8378 FAX (818) 998-7258

| | | |
|--|------------------------------|--|
| AA Client THRIFTY OIL CO | Phone 209 546-0791 | Sampler's Name EUGENIU GALMAN |
| Project Manager NICK CIORDAN | P.O. No. | Sampler's Signature <i>Eugeniu Galman</i> |
| Project Name TOC SS # 054 | Project No. | Project Manager's Signature |

| | | | |
|--|--------------------------|--|-------------------|
| Job Name and Address TOC # 054 2504 Castro Valley Bl. CASTRO VALLEY CA 94546 | ANALYSIS REQUIRED | | Test Requirements |
| | Detection Limits | | |

| AA ID.# | Client's ID. | Date | Time | Sample Type | Number of Containers | Test Name | ANALYSIS REQUIRED | | | | | | | | | | | | | |
|---------|--------------|---------|--------|-------------|----------------------|-----------|-------------------|---|---|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | T | P | B | | | | | | | | | | | |
| 9188 | RS-10 | 5-21-92 | 11:20A | GRAB | 2 | | X | X | | | | | | | | | | | | |
| 9189 | RS-8 | 5-21-92 | 12:01P | GRAB | 2 | | X | X | | | | | | | | | | | | |
| 9190 | RS-7 | 5-21-92 | 12:40P | GRAB | 2 | | X | X | | | | | | | | | | | | |
| 9191 | RE-1 | 5-21-92 | 1:10P | GRAB | 2 | | X | X | | | | | | | | | | | | |
| 9192 | RE-5 | 5-21-92 | 3:25P | GRAB | 2 | | X | X | | | | | | | | | | | | |
| 9193 | RE-2 | 5-21-92 | 2:45P | GRAB | 2 | | X | X | | | | | | | | | | | | |
| 9194 | PW-1 | 5-21-92 | 2:20P | GRAB | 2 | | X | X | | | | | | | | | | | | |
| 9195 | RE-6 | 5-21-92 | 1:45P | GRAB | 2 | | X | X | | | | | | | | | | | | |
| 9196 | TRIP Blank | 5-21-92 | 7:30A | | 2 | | X | X | | | | | | | | | | | | |

| | | | | | |
|--|---|-----------------------|---------|-------|-----------------------|
| SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB | | Relinquished by: | Date | Time | Received by: |
| Sample intact | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | <i>Eugeniu Galman</i> | | | |
| 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"/> | | 5/23/92 | 12:15 | <i>George L. G...</i> |
| If Not Why: | | Relinquished by: | Date | Time | Received by: |
| AA Project No. | A155054-1 | Relinquished by: | Date | Time | Received by: |




LABORATORY ANALYSIS RESULTS

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

AA Project No.: A135054-3
Date Sampled: 6/25/92
Date Received: 6/29/92
Date Analyzed: 7/6/92
Units: mg/L
Date Reported: 7/13/92

| AA ID No. | Client ID | Total Petroleum Hydrocarbon Results (ppm) | Detection Limits (ppm) |
|-----------|------------|---|------------------------------|
| 9752 | RE2 | ND | 0.2 |
| 9753 | RE5 | ND | 0.2 |
| 9754 | RE6 | ND | 2 |
| 9755 | RS-8 | ND | 0.2 |
| 9756 | RS-9 | 0.37 | 0.2 |
| 9757 | RS-10 | ND | 0.2 |
| 9758 | Trip Blank | ND | 0.2 |

ND: Not detected at or above the concentration of detection limits


Larry L. Schaefer, Ph.D.
Laboratory Director

ff



LABORATORY ANALYSIS RESULTS

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

AA Project No.: A135054-3
Date Sampled: 6/25/92
Date Received: 6/29/92
Date Analyzed: 7/6-9/92
Units: µg/L
Date Reported: 7/13/92

| AA I.D.# | Client I.D. | Results (ppb) | | | |
|-------------------|-------------|---------------|--------------|---------|---------|
| | | Benzene | Ethylbenzene | Toluene | Xylenes |
| 9752 | RE2 | ND | 0.7 | 0.9 | ND |
| 9753 | RE5 | 1 | 0.8 | 0.8 | 0.4 |
| 9754 | RE6 | 740 | 27 | 8 | 28 |
| 9755 | RS-8 | ND | ND | ND | ND |
| 9756 | RS-9 | 2.3 | 0.7 | 1.5 | 4.3 |
| 9757 | RS-10 | ND | ND | ND | ND |
| 9758 | Trip Blank | ND | ND | ND | ND |
| Detection Limits: | | 0.5 | 0.5 | 0.5 | 0.5 |

ND: Not detected at or above the concentration of detection limits


Larry L. Schaleger, Ph.D.
Laboratory Director

ff



LABORATORY QA/QC REPORT

Client: Thrifty Oil Company
Method: EPA 8015M(Gasoline), QC, Spike
AA Project No.: A135054-3

Sample Matrix: Soil
Date Analyzed: 7/6/92
Date Reported: 7/13/92

| Spike Recovery (%) | Spike/Duplicate Recovery (%) | RPD (%) |
|--------------------------|------------------------------------|------------|
| 80 | 88 | 9.5 |

RPD = Relative Percent Difference, $100[(x_1 - x_2)/((x_1 + x_2)/2)]$


Larry L. Schaleger, Ph.D.
Laboratory Director

ff



LABORATORY QA/QC REPORT


Client: Thrifty Oil Company
Method: EPA 8015M(Gasoline), QC, Spike
AA Project No.: A135054-3

Sample Matrix: Water
Date Analyzed: 7/7/92
Date Reported: 7/13/92

Spike Recovery (%) Spike/Duplicate Recovery (%) RPD (%)

90 96 6.4

RPD = Relative Percent Difference, $100[(x_1 - x_2)/((x_1 + x_2)/2)]$


Larry L. Schaleger, Ph.D.
Laboratory Director

ff



LABORATORY QA/QC REPORT

Client: Thrifty Oil Company
Method: EPA 8015M(Gasoline), QC, Spike
AA Project No.: A135054-3

Sample Matrix: Soil
Date Analyzed: 7/8/92
Date Reported: 7/13/92

| Spike Recovery (%) | Spike/Duplicate Recovery (%) | RPD (%) |
|--------------------|------------------------------|---------|
| 86 | 89 | 3.4 |

RPD = Relative Percent Difference, $100[(x_1 - x_2)/\{(x_1 + x_2)/2\}]$


Larry L. Schaleger, Ph.D.
Laboratory Director

ff



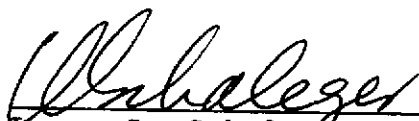
LABORATORY QA/OC REPORT

Client: Thrifty Oil Company
Method: EPA 8020(BTEX), QC, Spike
AA Project No.: A135054-3

Sample Matrix: Soil
Date Analyzed: 7/6/92
Date Reported: 7/13/92

| Compound | Spike Recovery (%) | Spike/Duplicate Recovery (%) | RPD (%) |
|---------------|--------------------|------------------------------|---------|
| Benzene | 115 | 116 | 0.9 |
| Toluene | 119 | 120 | 0.8 |
| Ethyl Benzene | 102 | 104 | 1.9 |
| Total Xylenes | 117 | 119 | 1.7 |

RPD = Relative Percent Difference, $100[(x_1 - x_2)/\{(x_1 + x_2)/2\}]$


Larry L. Schaefer, Ph.D.
Laboratory Director

ff



LABORATORY QA/QC REPORT

Client: Thrifty Oil Company
Method: EPA 8020(BTEX), QC, Spike
AA Project No.: A135054-3

Sample Matrix: Water
Date Analyzed: 7/7/92
Date Reported: 7/13/92

| Compound | Spike Recovery (%) | Spike/Duplicate Recovery (%) | RPD (%) |
|---------------|--------------------|------------------------------|---------|
| Benzene | 116 | 109 | 6.2 |
| Toluene | 117 | 112 | 4.4 |
| Ethyl Benzene | 95 | 92 | 3.2 |
| Total Xylenes | 117 | 108 | 8 |

RPD = Relative Percent Difference, $100[(x_1 - x_2)/((x_1 + x_2)/2)]$


Larry L. Schaefer, Ph.D.
Laboratory Director

ff



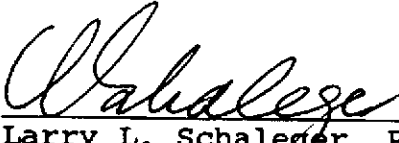
LABORATORY QA/QC REPORT

Client: Thrifty Oil Company
Method: EPA 8020 (BTEX), QC, Spike
AA Project No.: A135054-3

Sample Matrix: Soil
Date Analyzed: 7/8/92
Date Reported: 7/13/92

| Compound | Spike Recovery (%) | Spike/Duplicate Recovery (%) | RPD (%) |
|---------------|--------------------|------------------------------|---------|
| Benzene | 107 | 109 | 1.8 |
| Toluene | 106 | 109 | 2.8 |
| Ethyl Benzene | 92 | 93 | 1.1 |
| Total Xylenes | 104 | 107 | 2.8 |

RPD = Relative Percent Difference, $100[(x_1 - x_2)/((x_1 + x_2)/2)]$


Larry L. Schaleger, Ph.D.
Laboratory Director

ff



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

DATE: 6/27/92
PAGE ___ OF ___

(818) 998-5547

(818) 998-5548

1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

| | | | | | | | | | | | | | | | | | | | | | |
|--|--------------|---------|-------|-------------|----------------------|--|-------------|---|------|-------------------------------|--|-------------------|--|--|--|--|--|--|--|--|--|
| AA Client THIFTY OIL CO | | | | | | Phone 209 546-0791 | | Sampler's Name EUGENIU GALMAN | | | | | | | | | | | | | |
| Project Manager MICHAEL COSBY | | | | | | P.O. No. | | Sampler's Signature <i>Eugeniu Galman</i> | | | | | | | | | | | | | |
| Project Name TOC # 054 | | | | | | Project No. | | Project Manager's Signature | | | | | | | | | | | | | |
| Job Name and Address | | | | | | ANALYSIS REQUIRED | | | | | | | | | | | | | | | |
| | | | | | | Detection Limits | | | | | | Test Requirements | | | | | | | | | |
| | | | | | | Test Name | | | | | | | | | | | | | | | |
| AA ID.# | Client's ID. | Date | Time | Sample Type | Number of Containers | T P H | B X E | | | | | | | | | | | | | | |
| 9752 | RE2 | 6.26.92 | 4:35 | GRAB | 2 | X | Y | | | | | | | | | | | | | | |
| 9753 | RE5 | 6.26.92 | 4:15P | GRAB | 2 | X | Y | | | | | | | | | | | | | | |
| 9754 | RE6 | 6.26.92 | 4:55P | GRAB | 2 | Y | Y | | | | | | | | | | | | | | |
| 9755 | RS-8 | 6.26.92 | 3:20P | GRAB | 2 | X | Y | | | | | | | | | | | | | | |
| 9756 | RS-9 | 6.26.92 | 3:50P | GRAB | 2 | X | Y | | | | | | | | | | | | | | |
| 9757 | RS-10 | 6.26.92 | 3:00P | GRAB | 2 | X | Y | | | | | | | | | | | | | | |
| 9758 | TRIP BLANK | 6.26.92 | 7:30A | | 2 | X | Y | | | | | | | | | | | | | | |
| SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB | | | | | | Relinquished by: <i>Eugeniu Galman</i> | | Date | Time | Received by: <i>Ronen Had</i> | | | | | | | | | | | |
| 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. AB5054-3 | | | | | | Relinquished by: | | Date | Time | Received by: | | | | | | | | | | | |