



Texaco Refining
and Marketing Inc

10 Universal City Plaza
Universal City CA 91608

ENVIRONMENTAL
PROTECTION
97 SEP 19 PM 4:20

September 15, 1997

ENV - STUDIES, SURVEYS, & REPORTS

**500 Grand Avenue
Oakland, California**

Ms. Susan Hugo
Alameda County Environmental
Health Department
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Dear Ms. Hugo:

This letter presents the results of groundwater monitoring and sampling conducted by Blaine Tech Services, Inc. on May 2, 1997 at the site referenced above .

If you have any questions or comments regarding this site, please call the me at (818) 505-3113.

Deborah R. Pryor
Project Manager
Texaco Refining & Marketing Inc. - EH&S

DRP:hs
p:\drp\500\qmrlet.doc

Enclosure

cc: Mr. Richard Hiett
CRWQCB - San Francisco Bay Region
2101 Webster St., Suite 500
Oakland, CA 94612

Mr. Keith Winemiller
Pacific Environmental Group, Inc.
2025 Gateway Place, Suite 440
San Jose, CA 95110

RAOFile-DRPryor

pr: RA

**Groundwater Monitoring and Sampling
Second Quarter, 1997
at the
Former Texaco Service Station
500 Grand Avenue
Oakland, CA**

BLAINE
TECH SERVICES



1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
(408) 573-7771 FAX
(408) 573-0555 PHONE

June 12, 1997

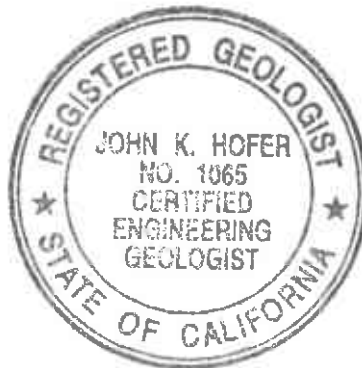
**Groundwater Monitoring and Sampling
Second Quarter, 1997
at the
Former Texaco Service Station
500 Grand Avenue
Oakland, CA**

This letter presents the results of groundwater monitoring and sampling conducted by Blaine Tech Services, Inc. on May 2, 1997, at the site referenced above (see Plate 1, Site Vicinity Map). Based on groundwater level measurements, the areal hydraulic gradient was estimated to be south-southeast (see Plate 2, Groundwater Gradient Map). TPHg and benzene concentrations are shown on Plate 3. Tables 1 and 2 list historical groundwater monitoring data and analytical results, respectively.

The certified analytical report, chain-of-custody, field data sheets, bill of lading, and quarterly summary report are in the Appendix, along with Texaco Environmental Services' Standard Operating Procedures.

Kent Brown
Project Coordinator
Blaine Tech Services, Inc.

John K. Hofer, CEG
Engineering Geologist, EG-1065
Geoconsultants, Inc.



KEB:mc



SOURCE:

1993 THE THOMAS GUIDE
ALAMEDA COUNTY, PAGE 9 (D4)



TEXACO

REFINING AND MARKETING, INC.
TEXACO ENVIRONMENTAL SERVICES

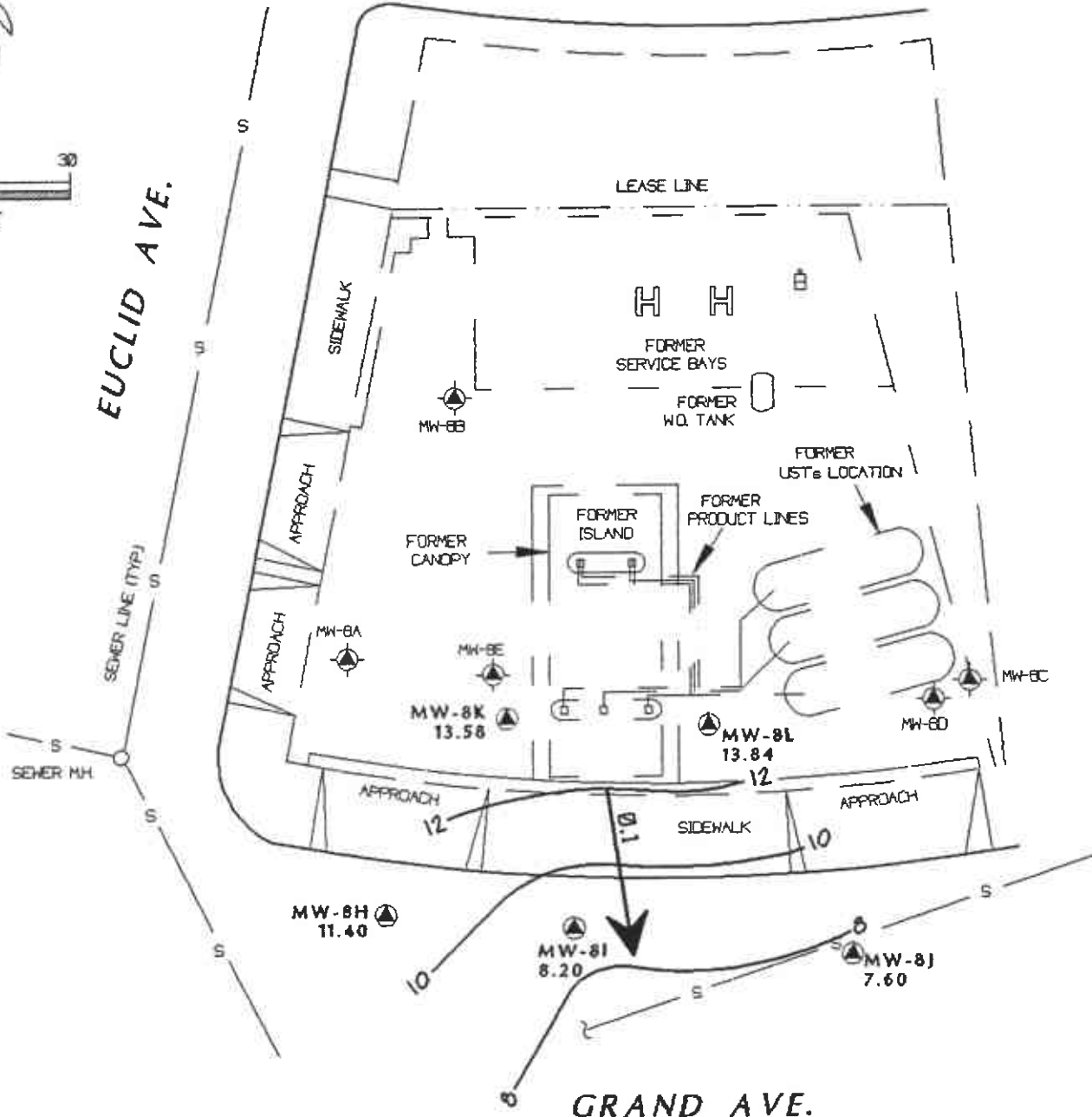
PLATE 1

SITE VICINITY MAP
FORMER TEXACO SERVICE STATION
500 GRAND AVE. / EUCLID AVE.,
OAKLAND, CALIFORNIA

BURK ST.



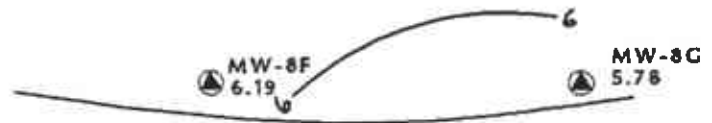
EUCLID AVE.



GRAND AVE.

EXPLANATION

- MW-8F GROUNDWATER MONITORING WELL LOCATION AND WELL NUMBER
- MW-8C ABANDONED GROUNDWATER MONITORING WELL LOCATION AND WELL NUMBER
- 6.19 GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- GROUND-WATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL
- APPROXIMATE DIRECTION OF GROUND-WATER FLOW. GRADIENT INDICATED IN FEET / FEET



LAKE MERRIT
PARK

TITLE : GROUND-WATER ELEVATION CONTOUR MAP -
MAY 2, 1997

LOCATION : FORMER TEXACO SERVICE STATION
500 GRAND AVE / EUCLID AVE., OAKLAND, CALIFORNIA

SOURCE : TEXACO, REFINING AND MARKETING ENVIRONMENTAL SERVICES



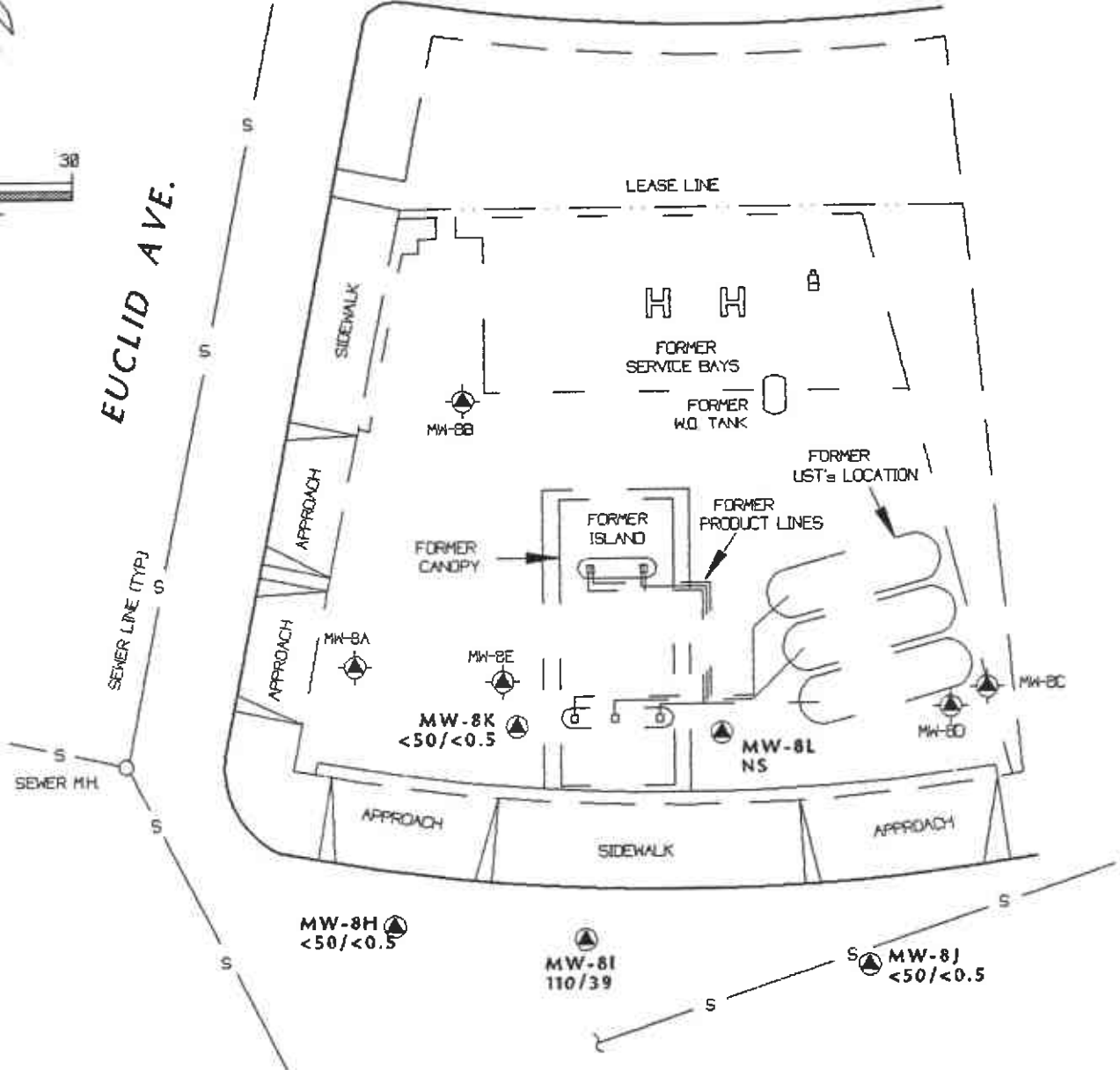
GEOCONSULTANTS, INC
SAN JOSE, CALIFORNIA
Project No. Q758-11

DRAWING NO. TEXACO/DK-GR-EU-WES0297

BURK ST.



EUCLID AVE.



GRAND AVE.

EXPLANATION

- MW-8I GROUNDWATER MONITORING WELL LOCATION AND WELL NUMBER
- ⊕ MW-8C ABANDONED GROUNDWATER MONITORING WELL LOCATION AND WELL NUMBER
- 110/39 TPH AS GASOLINE / BENZENE CONCENTRATIONS (ug / L)
- NS NOT SAMPLED

MW-8F
<50/<0.5

MW-8G
<50/<0.5

LAKE MERRIT
PARK

TITLE : TPH AS GASOLINE AND BENZENE CONCENTRATIONS MAP -
MAY 2, 1997

LOCATION : FORMER TEXACO SERVICE STATION
500 GRAND AVE./ EUCLID AVE., OAKLAND, CALIFORNIA

SOURCE : TEXACO; REFINING AND MARKETING ENVIRONMENTAL SERVICES



GEOCONSULTANTS, INC
SAN JOSE, CALIFORNIA
Project No. G758-11

DRAWING NO. TEXACO/OK-GR-EU/G058297

Table 1
Groundwater Elevation Data
500 Grand Avenue, Oakland, CA

| Well Number | Date Gauged | Top of Casing Elevation (feet, MSL) | Depth to Water (feet, TOC) | Elevation of Groundwater (feet, MSL) |
|-------------|-------------------------|-------------------------------------|----------------------------|--------------------------------------|
| MW-8A | Well Properly Abandoned | | | |
| MW-8B | Well Properly Abandoned | | | |
| MW-8C | Well Properly Abandoned | | | |
| MW-8D | Well Properly Abandoned | | | |
| MW-8E | Well Properly Abandoned | | | |
| MW-8F | 03/29/91 | 97.94 | | |
| | 01/23/92 | | 10.24 | 87.70 |
| | 02/28/92 | | 9.93 | 88.01 |
| | 03/26/92 | | 8.78 | 89.16 |
| | 04/30/92 | | 9.36 | 88.58 |
| | 09/28/92 | | 11.83 | 86.11 |
| | 11/19/92 | | 11.22 | 86.72 |
| | 02/12/93 | | 9.66 | 88.28 |
| | 05/06/93 | | 8.83 | 89.11 |
| | 08/16/93 | 14.04 * | 10.16 | 3.88 |
| | 10/12/93 | | 10.60 | 3.44 |
| | 02/03/94 | | 9.29 | 4.75 |
| | 05/31/94 | | 9.34 | 4.70 |
| | 08/25/94 | | 10.14 | 3.90 |
| | 11/02/94 | | 10.42 | 3.62 |
| | 01/31/95 | | 7.47 | 6.57 |
| | 05/18/95 | | 8.00 | 6.04 |
| | 08/29/95 | | 8.08 | 5.96 |
| | 11/02/95 | | 8.70 | 5.34 |
| | 02/05/96 | | 7.16 | 6.88 |
| | 04/30/96 | | 7.25 | 6.79 |
| | 08/28/96 | | 8.72 | 5.32 |
| | 12/05/96 | | 8.16 | 5.88 |
| | 02/21/97 | | 5.53 | 8.51 |
| | 05/02/97 | | 7.85 | 6.19 |

Table 1
Groundwater Elevation Data
500 Grand Avenue, Oakland, CA

| Well Number | Date Gauged | Top of Casing Elevation (feet, MSL) | Depth to Water (feet, TOC) | Elevation of Groundwater (feet, MSL) |
|-------------|-------------|-------------------------------------|----------------------------|--------------------------------------|
| MW-8G | 04/23/91 | 97.24 | | |
| | 01/23/92 | | 11.30 | 85.94 |
| | 02/28/92 | | 10.83 | 86.41 |
| | 03/26/92 | | 9.20 | 88.04 |
| | 04/30/92 | | 9.00 | 88.24 |
| | 09/28/92 | | 13.32 | 83.92 |
| | 11/19/92 | | Well Inaccessible | |
| | 02/12/93 | | Well Inaccessible | |
| | 05/06/93 | | 11.18 | 86.06 |
| | 08/16/93 | 13.32 * | 9.51 | 3.81 |
| | 10/12/93 | | 10.93 | 2.39 |
| | 02/03/94 | | 9.69 | 3.63 |
| | 05/31/94 | | 9.24 | 4.08 |
| | 08/25/94 | | 9.74 | 3.58 |
| | 11/02/94 | | 10.08 | 3.24 |
| | 01/31/95 | | 5.75 | 7.57 |
| | 05/18/95 | | 6.60 | 6.72 |
| | 08/29/95 | | 8.14 | 5.18 |
| | 11/02/95 | | 9.16 | 4.16 |
| | 02/05/96 | | 7.18 | 6.14 |
| | 04/30/96 | | 7.00 | 6.32 |
| | 08/28/96 | | 8.94 | 4.38 |
| | 12/05/96 | | 9.22 | 4.10 |
| | 02/21/97 | | 6.11 | 7.21 |
| | 05/02/97 | | 7.54 | 5.78 |
| | | | | |

Table 1
Groundwater Elevation Data
500 Grand Avenue, Oakland, CA

| Well Number | Date Gauged | Top of Casing Elevation (feet, MSL) | Depth to Water (feet, TOC) | Elevation of Groundwater (feet, MSL) |
|-------------|-------------|-------------------------------------|----------------------------|--------------------------------------|
| MW-8H | 03/29/91 | 98.90 | | |
| | 01/23/92 | | 3.74 | 95.16 |
| | 02/28/92 | | 4.44 | 94.46 |
| | 03/26/92 | | 4.21 | 94.69 |
| | 04/30/92 | | 3.46 | 95.44 |
| | 09/28/92 | | Well Inaccessible | |
| | 11/19/92 | | 3.75 | 95.15 |
| | 02/12/93 | | 4.12 | 94.78 |
| | 05/06/93 | | 3.85 | 95.05 |
| | 08/16/93 | 15.04 * | 3.88 | 11.16 |
| | 10/12/93 | | 3.80 | 11.24 |
| | 02/03/94 | | 3.71 | 11.33 |
| | 05/31/94 | | 3.80 | 11.24 |
| | 08/25/94 | | 3.89 | 11.15 |
| | 11/02/94 | | 3.64 | 11.40 |
| | 01/31/95 | | 3.58 | 11.46 |
| | 05/18/95 | | 3.53 | 11.51 |
| | 08/29/95 | | 3.55 | 11.49 |
| | 11/02/95 | | 3.49 | 11.55 |
| | 02/05/96 | | 3.54 | 11.50 |
| | 04/30/96 | | 3.50 | 11.54 |
| | 08/28/96 | | 3.62 | 11.42 |
| | 12/05/96 | | 3.38 | 11.66 |
| | 02/21/97 | | 3.77 | 11.27 |
| | 05/02/97 | | 3.64 | 11.40 |

Table 1
Groundwater Elevation Data
500 Grand Avenue, Oakland, CA

| Well Number | Date Gauged | Top of Casing Elevation (feet, MSL) | Depth to Water (feet, TOC) | Elevation of Groundwater (feet, MSL) |
|-------------|-------------|-------------------------------------|----------------------------|--------------------------------------|
| MW-8I | 03/29/91 | 98.27 | | |
| | 01/23/92 | | 6.33 | 91.94 |
| | 02/28/92 | | 6.55 | 91.72 |
| | 03/26/92 | | 6.45 | 91.82 |
| | 04/30/92 | | 6.48 | 91.79 |
| | 09/28/92 | | Well Inaccessible | |
| | 11/19/92 | | 6.37 | 91.90 |
| | 02/12/93 | | 6.44 | 91.83 |
| | 05/06/93 | | 6.36 | 91.91 |
| | 08/16/93 | 14.40 * | 6.35 | 8.05 |
| | 10/12/93 | | 5.99 | 8.41 |
| | 02/03/94 | | 5.84 | 8.56 |
| | 05/31/94 | | 6.25 | 8.15 |
| | 08/25/94 | | 6.31 | 8.09 |
| | 11/02/94 | | 6.10 | 8.30 |
| | 01/31/95 | | 5.83 | 8.57 |
| | 05/18/95 | | 6.09 | 8.31 |
| | 08/29/95 | | 6.09 | 8.31 |
| | 11/02/95 | | 6.26 | 8.14 |
| | 02/05/96 | | 5.97 | 8.43 |
| | 04/30/96 | | 6.04 | 8.36 |
| | 08/28/96 | | 6.20 | 8.20 |
| | 12/05/96 | | 6.01 | 8.39 |
| | 02/21/97 | | 6.15 | 8.25 |
| | 05/02/97 | | 6.20 | 8.20 |

Table 1
Groundwater Elevation Data
500 Grand Avenue, Oakland, CA

| Well Number | Date Gauged | Top of Casing Elevation (feet, MSL) | Depth to Water (feet, TOC) | Elevation of Groundwater (feet, MSL) |
|-------------|-------------|-------------------------------------|----------------------------|--------------------------------------|
| MW-8J | 03/29/91 | 97.69 | | |
| | 01/23/92 | | 6.31 | 91.38 |
| | 02/28/92 | | 6.28 | 91.41 |
| | 03/26/92 | | 6.20 | 91.49 |
| | 04/30/92 | | 6.48 | 91.21 |
| | 09/28/92 | | Well Inaccessible | |
| | 11/19/92 | | 6.55 | 91.14 |
| | 02/12/93 | | 7.46 | 90.23 |
| | 05/06/93 | | 6.21 | 91.48 |
| | 08/16/93 | 13.82 * | 6.29 | 7.53 |
| | 10/12/93 | | 5.87 | 7.95 |
| | 02/03/94 | | 5.98 | 7.84 |
| | 05/31/94 | | 6.10 | 7.72 |
| | 08/25/94 | | 6.01 | 7.81 |
| | 11/02/94 | | 5.90 | 7.92 |
| | 01/31/95 | | 5.07 | 8.75 |
| | 05/18/95 | | 5.33 | 8.49 |
| | 08/29/95 | | 3.50 | 10.32 |
| | 11/02/95 | | 5.94 | 7.88 |
| | 02/05/96 | | 5.34 | 8.48 |
| | 04/30/96 | | 5.96 | 7.86 |
| | 08/28/96 | | 6.38 | 7.44 |
| | 12/05/96 | | 5.94 | 7.88 |
| | 02/21/97 | | 5.60 | 8.22 |
| | 05/02/97 | | 6.22 | 7.60 |
| MW-8K | 08/16/93 | 15.18 * | 2.08 | 13.10 |
| | 10/12/93 | | 1.95 | 13.23 |
| | 02/03/94 | | 1.48 | 13.70 |
| | 05/31/94 | | 1.59 | 13.59 |
| | 08/25/94 | | 2.00 | 13.18 |
| | 11/02/94 | | 2.10 | 13.08 |
| | 01/31/95 | | 1.35 | 13.83 |
| | 05/18/95 | | 1.36 | 13.82 |
| | 08/29/95 | | 1.55 | 13.63 |
| | 11/02/95 | | 1.88 | 13.30 |
| | 02/05/96 | | 1.46 | 13.72 |
| | 04/30/96 | | 1.43 | 13.75 |
| | 08/28/96 | | 1.75 | 13.43 |
| | 12/05/96 | | 1.42 | 13.76 |
| | 02/21/97 | | 1.49 | 13.69 |
| | 05/02/97 | | 1.60 | 13.58 |

Table 1
Groundwater Elevation Data
500 Grand Avenue, Oakland, CA

| Well Number | Date Gauged | Top of Casing Elevation (feet, MSL) | Depth to Water (feet, TOC) | Elevation of Groundwater (feet, MSL) |
|--|-------------|-------------------------------------|----------------------------|--------------------------------------|
| MW-8L | 08/16/93 | 14.44 * | 2.47 | 11.97 |
| | 10/12/93 | | 2.36 | 12.08 |
| | 02/03/94 | | 2.82 | 11.62 |
| | 05/31/94 | | 2.66 | 11.78 |
| | 08/25/94 | | 2.34 | 12.10 |
| | 11/02/94 | | Well Obstructed | |
| | 01/31/95 | | 0.08 | 14.36 |
| | 05/18/95 | | 0.42 | 14.02 |
| | 08/29/95 | | Well Inaccessible | |
| | 11/02/95 | | Well Inaccessible | |
| | 02/05/96 | | Well Inaccessible | |
| | 04/30/96 | | Well Inaccessible | |
| | 08/28/96 | | 0.75 | 13.69 |
| | 12/05/96 | | Well Inaccessible | |
| | 02/21/97 | | Well Inaccessible | |
| | 05/02/97 | | 0.60 | 13.84 |
| * = New well elevation survey performed on August 16, 1993 based on mean sea level (MSL). Prior data based on arbitrary site data. | | | | |
| TOC = Top of Casing | | | | |

Table 2
Groundwater Analytical Data
500 Grand Avenue, Oakland, CA

| Well Number | Date Sampled | TPHg (ppb) | Benzene (ppb) | Toluene (ppb) | Ethyl-benzene (ppb) | Xylenes (ppb) | MTBE (ppb) | TPHd (ppm) | TPH as Other* (ppm) |
|-------------|-------------------------|------------|---------------|---------------|---------------------|---------------|------------|------------|---------------------|
| MW-8A | Well properly abandoned | | | | | | | | |
| MW-8B | Well properly abandoned | | | | | | | | |
| MW-8C | Well properly abandoned | | | | | | | | |
| MW-8D | Well properly abandoned | | | | | | | | |
| MW-8E | Well properly abandoned | | | | | | | | |
| MW-8F | 01/23/92 | <50 | 4.0 | 1.3 | <0.5 | 1.9 | NA | 1.3 | NA |
| | 04/30/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <500 |
| | 09/28/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA |
| | 11/19/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA |
| | 02/12/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | NA |
| | 05/06/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.1 | <50 |
| | 08/16/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <50 |
| | 10/12/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <50 |
| | 02/03/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <50 |
| | 05/31/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | 0.53 |
| | 08/25/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | 1.4 |
| | 11/02/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | 0.52 | <5 |
| | 01/31/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | 0.29 | <5 |
| | 05/18/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | 0.054 | <5 |
| | 08/29/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 0.083 | <5 |
| | 11/02/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 0.051 | <5 |
| | 02/05/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | 0.89 |
| | 04/30/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | 0.062 | <.005 |
| | 08/28/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <5 |
| | 12/05/96 | 210 | 17 | 17 | 11 | 46 | <30 | 0.11 | <5 |
| | 02/21/97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <30 | 0.085 | <5 |
| | 05/02/97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | 0.81 |

Table 2
Groundwater Analytical Data
500 Grand Avenue, Oakland, CA

| Well Number | Date Sampled | TPHg (ppb) | Benzene (ppb) | Toluene (ppb) | Ethyl-benzene (ppb) | Xylenes (ppb) | MTBE (ppb) | TPHd (ppm) | TPH as Other* (ppm) | |
|-------------|--------------|-------------------|---------------|---------------|---------------------|---------------|------------|------------|---------------------|--|
| MW-8G ** | 01/24/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | 0.98 | NA | |
| | 04/30/92 | <50 | 1.7 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <500 | |
| | 09/28/92 | Well Dry | | | | | | | | |
| | 11/19/92 | Well Inaccessible | | | | | | | | |
| | 02/12/93 | Well Inaccessible | | | | | | | | |
| | 04/29/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | 0.06 | <250 | |
| | 08/16/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <50 | |
| | 10/12/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <50 | |
| | 02/03/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <50 | |
| | 05/31/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <0.2 | |
| | 08/25/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | 0.86 | |
| | 11/02/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | 0.53 | <5 | |
| | 01/31/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <5 | |
| | 05/18/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <5 | |
| | 08/29/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 0.12 | <5 | |
| | 11/02/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 0.14 | <5 | |
| | 02/05/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | 0.51 | |
| | 04/30/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <.005 | |
| | 08/28/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <5 | |
| | 12/05/96 | 190 | 16 | 16 | 9.0 | 39 | <30 | 0.057 | <5 | |
| 02/21/97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <30 | 0.054 | <5 | | |
| 05/02/97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <5 | | |
| MW-8H | 01/23/92 | 110 | 7.2 | 1.2 | 4.7 | 3.2 | NA | <0.06 | NA | |
| | 04/30/92 | 190 | 11 | 1.5 | 5.6 | 3.6 | NA | 0.09 | <500 | |
| | 09/28/92 | Well Inaccessible | | | | | | | | |
| | 11/19/92 | 130 | 6.8 | <0.5 | 1.1 | 1.5 | NA | NA | NA | |
| | 02/12/93 | 73 | 5.9 | <0.5 | 0.8 | <0.5 | NA | NA | NA | |
| | 05/06/93 | 57 | 1.7 | <0.5 | <0.5 | <0.5 | NA | <0.1 | <50 | |
| | 08/16/93 | <50 | 0.5 | <0.5 | 0.5 | 1.4 | NA | <0.05 | <50 | |
| | 10/12/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <50 | |
| | 02/03/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <50 | |
| | 05/31/94 | <50 | 0.79 | <0.5 | <0.5 | <0.5 | NA | <0.05 | 1.6 | |
| | 08/25/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | 4.0 | |
| | 11/02/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | 0.76 | <5 | |
| | 01/31/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | 0.19 | <5 | |
| | 05/18/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | 0.37 | 6.6 | |
| | 08/29/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 1.0 | <5 | |
| | 11/02/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <0.05 | 5.8 | |
| 02/05/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | 0.19 | 2.3 | | |
| 04/30/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | 1.80 | 0.0087 | | |
| 08/28/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | 7.7 | | |
| 12/05/96 | 100 | 6.2 | 7.3 | 5.0 | 22 | <30 | 0.35 | <5 | | |
| 02/21/97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <30 | 0.90 | <13 | | |
| 05/02/97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | 0.45 | <5 | | |

Table 2
Groundwater Analytical Data
500 Grand Avenue, Oakland, CA

| Well Number | Date Sampled | TPHg (ppb) | Benzene (ppb) | Toluene (ppb) | Ethyl-benzene (ppb) | Xylenes (ppb) | MTBE (ppb) | TPHd (ppm) | TPH as Other* (ppm) |
|-------------|--------------|-------------------|---------------|---------------|---------------------|---------------|------------|------------|---------------------|
| MW-8I | 01/23/92 | 820 | 420 | 7 | 27 | 20 | NA | 0.21 | NA |
| | 04/30/92 | 2,200 | 1,800 | 19 | 180 | 25 | NA | 0.43 | <500 |
| | 09/28/92 | Well Inaccessible | | | | | | | |
| | 11/19/92 | 720 | 120 | 1.1 | 29 | 13 | NA | NA | NA |
| | 02/12/93 | 4,000 | 970 | 9.2 | 52 | 36 | NA | NA | NA |
| | 05/06/93 | 1,400 | 370 | 2.4 | 40 | 8.4 | NA | <0.01 | <50 |
| | 08/16/93 | <50 | 3.1 | <0.5 | 6 | <0.5 | NA | <0.05 | <50 |
| | 10/12/93 | <50 | 1.4 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <50 |
| | 02/03/94 | 1,000 | 270 | 3.2 | 51 | 14 | NA | <0.05 | <50 |
| | 05/31/94 | 1,400 | 330 | 4.6 | 52 | 16 | NA | <0.05 | 0.33 |
| | 08/25/94 | 540 | 14 | 0.58 | 30 | 4.3 | NA | <0.05 | 0.73 |
| | 11/02/94 | 310 | 5.7 | 0.74 | 20 | <0.5 | NA | 0.37 | <5 |
| | 01/31/95 | 840 | 290 | 4.5 | 45 | 1.6 | NA | 0.91 | <5 |
| | 05/18/95 | 1,700 | 390 | 7.8 | 80 | 10 | NA | 1.1 | <5 |
| | 08/29/95 | 300 | 81 | <0.5 | 13 | 0.63 | <10 | 0.56 | <5 |
| | 11/02/95 | 81 | <0.5 | 4.1 | 1.5 | <0.5 | <10 | 0.16 | <5 |
| | 02/05/96 | 300 | 75 | 0.75 | 8.4 | 1.2 | NA | 0.14 | <0.5 |
| | 04/30/96 | 350 | 150 | 0.77 | 3.2 | 1.3 | NA | <0.05 | <.005 |
| | 08/28/96 | 1100 | 300 | 2.9 | 3.2 | 2.1 | NA | 0.38 | <5 |
| | 12/05/96 | 340 | 23 | 8.7 | 11 | 26 | <30 | 0.053 | <5 |
| 02/21/97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <30 | 0.33 | <5 | |
| 05/02/97 | 110 | 39 | <0.5 | 0.92 | <0.5 | NA | <0.05 | <5 | |
| MW-8J | 01/23/92 | <50 | 1 | <0.5 | <0.5 | <0.5 | NA | <0.05 | NA |
| | 04/30/92 | <50 | 2 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <500 |
| | 09/28/92 | Well Inaccessible | | | | | | | |
| | 11/19/92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA |
| | 02/12/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA |
| | 05/06/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.01 | <50 |
| | 08/16/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <50 |
| | 10/12/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <50 |
| | 02/03/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <50 |
| | 05/31/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <0.2 |
| | 08/25/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | 1.0 |
| | 11/02/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <5 |
| | 01/31/95 | <50 | 3.7 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <5 |
| | 08/29/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 0.25 | <5 |
| | 05/18/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <5 |
| | 08/29/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 0.25 | <5 |
| | 11/02/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 0.52 | <5 |
| | 02/05/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | 0.065 | 1.0 |
| | 04/30/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <.005 |
| | 08/28/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <5 |
| 12/05/96 | 160 | 13 | 14 | 8.9 | 38 | <30 | <0.05 | <5 | |
| 02/21/97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <30 | <0.05 | <5 | |
| 05/02/97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <5 | |

Table 2
Groundwater Analytical Data
500 Grand Avenue, Oakland, CA

| Well Number | Date Sampled | TPHg (ppb) | Benzene (ppb) | Toluene (ppb) | Ethyl-benzene (ppb) | Xylenes (ppb) | MTBE (ppb) | TPHd (ppm) | TPH as Other* (ppm) |
|--|--------------|-------------------|---------------|---------------|---------------------|---------------|------------|------------|---------------------|
| MW-8K | 05/21/93 | 54 | 12 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <50 |
| | 08/16/93 | <50 | <0.5 | <0.5 | 1.0 | <0.5 | NA | <0.05 | <50 |
| | 10/24/93 | <50 | 4.2 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <50 |
| | 02/03/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <50 |
| | 05/31/94 | <50 | 1.0 | 0.57 | <0.5 | <0.5 | NA | <0.05 | <0.2 |
| | 08/25/94 | <50 | 0.78 | <0.5 | <0.5 | <0.5 | NA | <0.05 | 0.98 |
| | 11/02/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <5 |
| | 01/31/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <5 |
| | 05/18/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <5 |
| | 08/29/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 0.16 | <5 |
| | 11/02/95 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <0.05 | <5 |
| | 02/05/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <0.5 |
| | 04/30/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <.005 |
| | 08/28/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <5 |
| | 12/05/96 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <30 | <0.05 | <5 |
| | 02/21/97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <30 | <0.05 | <5 |
| | 05/02/97 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | <0.05 | <5 |
| MW-8L | 05/21/93 | 76 | 1.1 | <0.5 | <0.5 | 6 | NA | <0.05 | <50 |
| | 08/16/93 | <50 | <0.5 | <0.5 | 0.7 | 1.1 | NA | <0.05 | <50 |
| | 10/12/93 | 110 | 13 | <0.5 | 6 | <0.5 | NA | <0.05 | <50 |
| | 02/03/94 | 590 | 61 | 2.4 | <0.5 | 110 | NA | <0.05 | <50 |
| | 05/31/94 | 410 | 77 | <0.5 | 20 | 1.1 | NA | <0.05 | <0.2 |
| | 08/25/94 | 260 | 16 | <0.5 | 2.5 | <0.5 | NA | <0.05 | 1.1 |
| | 11/02/94 | Well Inaccessible | | | | | | | |
| | 01/31/95 | Well Inaccessible | | | | | | | |
| | 05/18/95 | Well Inaccessible | | | | | | | |
| | 08/29/95 | Well Inaccessible | | | | | | | |
| | 11/02/95 | Well Inaccessible | | | | | | | |
| | 02/05/96 | Well Inaccessible | | | | | | | |
| | 04/30/96 | Well Inaccessible | | | | | | | |
| | 08/28/96 | Well Inaccessible | | | | | | | |
| | 12/05/96 | Well Inaccessible | | | | | | | |
| | 02/21/97 | Well Inaccessible | | | | | | | |
| | 05/02/97 | Well Inaccessible | | | | | | | |
| MTBE = Methyl-tert-butylether | | | | | | | | | |
| ppb = parts per billion | | | | | | | | | |
| ppm = parts per million | | | | | | | | | |
| NA = Not Analyzed | | | | | | | | | |
| < = Less than the detection limit for the specified method of analysis. | | | | | | | | | |
| * = Includes "heavy" petroleum hydrocarbons such as waste oil, mineral spirits, jet fuel, or fuel oil. | | | | | | | | | |
| ** = Non-diesel mix >C16. The certified analytical report for sample MW-8G was revised on 10/21/93. | | | | | | | | | |

801 Western Avenue
Glendale, CA 91201
818/247-5737
Fax: 818/247-9797

LOG NO: G97-05-120

Received: 05 MAY 97

Mailed: **MAY 21 1997**

Ms. Caron French
Blaine Tech Services
1680 Rogers Avenue
San Jose, California 95112

Purchase Order: 94-1446346+4370

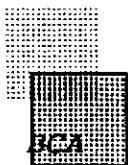
Requisition: 624880235
Project: FKEP9037L

REPORT OF ANALYTICAL RESULTS

AQUEOUS

| SAMPLE DESCRIPTION | DATE SAMPLED | TRPH (CADHS/418.1) | TPH (CADHS/3510) | Date Extracted | Date Analyzed | Dilution Factor | TPH-d (mg/L) | Carbon Range | Date Analyzed | Dilution Factor | TPH-g |
|--------------------|--------------|--------------------|------------------|----------------|---------------|-----------------|--------------|--------------|---------------|-----------------|-------|
| RDL | | 5 | | | | | 0.05 | | | 1 | |
| 1*MW-8F | 05/02/97 | 0.81 | 05/06/97 | 05/06/97 | 05/06/97 | 1 | <0.05 | C10-C25 | 05/12/97 | 1 | <50 |
| 2*MW-8G | 05/02/97 | <5 | 05/06/97 | 05/06/97 | 05/06/97 | 1 | <0.05 | C10-C25 | 05/09/97 | 1 | <50 |
| 3*MW-8H | 05/02/97 | <5 | 05/06/97 | 05/06/97 | 05/06/97 | 1 | 0.45 | C10-C25 | 05/08/97 | 1 | <50 |
| 4*MW-8I | 05/02/97 | <5 | 05/06/97 | 05/06/97 | 05/06/97 | 1 | <0.05 | C10-C25 | 05/08/97 | 1 | 110 |
| 5*MW-8J | 05/02/97 | <5 | 05/06/97 | 05/06/97 | 05/06/97 | 1 | <0.05 | C10-C25 | 05/08/97 | 1 | <50 |
| 6*MW-8K | 05/02/97 | <5 | 05/06/97 | 05/06/97 | 05/06/97 | 1 | <0.05 | C10-C25 | 05/08/97 | 1 | <50 |

Deborah Pryor
500 Grand Ave., Oakland
Alameda County



801 Western Avenue
 Glendale, CA 91201
 818/247-5737
 Fax: 818/247-9797

LOG NO: G97-05-120

Received: 05 MAY 97

Ms. Caron French
 Blaine Tech Services
 1680 Rogers Avenue
 San Jose, California 95112

Purchase Order: 94-1446346+4370

Requisition: 624880235
 Project: FKEP9037L

REPORT OF ANALYTICAL RESULTS

Page 2

AQUEOUS

| SAMPLE DESCRIPTION | DATE SAMPLED | TPH/BTEX (CADHS/8020) | | | | | Carbon Range |
|--------------------|--------------|-----------------------|---------|---------------|-----------------------|------|--------------|
| | | Benzene | Toluene | Ethyl-Benzene | Total Xylenes Isomers | | |
| RDL | | | | | | | |
| 1*MW-8F | 05/02/97 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | C6-C12 |
| 2*MW-8G | 05/02/97 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | C6-C12 |
| 3*MW-8H | 05/02/97 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | C6-C12 |
| 4*MW-8I | 05/02/97 | 39 | <0.5 | 0.92 | <0.5 | <0.5 | C6-C12 |
| 5*MW-8J | 05/02/97 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | C6-C12 |
| 6*MW-8K | 05/02/97 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | C6-C12 |



801 Western Avenue
Glendale, CA 91201
818/247-5737
Fax: 818/247-9797

LOG NO: G97-05-120

Received: 05 MAY 97

Ms. Caron French
Blaine Tech Services
1680 Rogers Avenue
San Jose, California 95112

Purchase Order: 94-1446346+4370

Requisition: 624880235
Project: FKEP9037L

REPORT OF ANALYTICAL RESULTS

AQUEOUS

| SAMPLE DESCRIPTION | DATE SAMPLED | TRPH | TPH | | | | TPH/BTEX | | | |
|--------------------|--------------|---------------|---------------------|--------------------|-----------------------|------------|--------------|--------------------|-----------------------|------------|
| | | (CADHS/418.1) | (CADHS/3510) | | | | (CADHS/8020) | | | |
| | | mg/L | Date Extracted Date | Date Analyzed Date | Dilution Factor Times | TPH-d mg/L | Carbon Range | Date Analyzed Date | Dilution Factor Times | TPH-g ug/L |
| RDL | | 5 | | | | 0.05 | | | 1 | 50 |
| 7*EB | 05/02/97 | <5 | 05/06/97 | 05/06/97 | 1 | <0.05 | C10-C25 | 05/12/97 | 1 | <50 |



801 Western Avenue
 Glendale, CA 91201
 818/247-5737
 Fax: 818/247-9797

LOG NO: G97-05-120

Received: 05 MAY 97

Ms. Caron French
 Blaine Tech Services
 1680 Rogers Avenue
 San Jose, California 95112

Purchase Order: 94-1446346+4370

Requisition: 624880235
 Project: FKEP9037L

REPORT OF ANALYTICAL RESULTS

Page 4

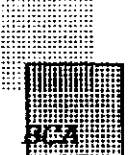
AQUEOUS

| SAMPLE DESCRIPTION | DATE SAMPLED | TPH/BTEX (CADHS/8020) | | | | | Carbon Range |
|--------------------|--------------|-----------------------|--------------|--------------------|----------------------------|--------|--------------|
| | | Benzene ug/L | Toluene ug/L | Ethyl-Benzene ug/L | Total Xylenes Isomers ug/L | | |
| RDL | | 0.5 | 0.5 | 0.5 | 0.5 | | |
| 7*EB | 05/02/97 | <0.5 | 1.0 | <0.5 | 0.68 | C6-C12 | |

Greta Galoustian
 Greta Galoustian, Laboratory Director

The analytical results within this report relate only to the specific compounds and samples investigated and may not necessarily reflect other apparently similar material from the same or a similar location.

This report shall not be reproduced, except in full, without the written approval of VOC. No use of this report for promotional or advertising purposes is permitted without prior written VOC approval.



| SAMPLES... | SAMPLE DESCRIPTION.. | DETERM..... | DATE..... | METHOD..... | EQUIP. | BATCH.. | ID.NO |
|------------|----------------------|-----------------|-----------|-------------|--------|---------|-------|
| | | | ANALYZED | | | | |
| 705120*1 | MW-8F | IR.PET.TESNC | 05.12.97 | 418.1 | 533-17 | 97367 | 8106 |
| | | DIESEL.3520.TES | 05.06.97 | 8015M | 536-25 | 97113 | 1020 |
| | | GAS.BTX.TESNC | 05.12.97 | 8015.TX | 536-21 | 976045 | 8866 |
| 705120*2 | MW-8G | IR.PET.TESNC | 05.12.97 | 418.1 | 533-17 | 97367 | 8106 |
| | | DIESEL.3520.TES | 05.06.97 | 8015M | 536-01 | 97113 | 1020 |
| | | GAS.BTX.TESNC | 05.09.97 | 8015M.TX | 536-21 | 976044 | 8866 |
| 705120*3 | MW-8H | IR.PET.TESNC | 05.12.97 | 418.1 | 533-17 | 97367 | 8106 |
| | | DIESEL.3520.TES | 05.06.97 | 8015M | 536-25 | 97113 | 1020 |
| | | GAS.BTX.TESNC | 05.08.97 | 8015M.TX | 536-34 | 9711005 | 8171 |
| 705120*4 | MW-8I | IR.PET.TESNC | 05.12.97 | 418.1 | 533-17 | 97367 | 8106 |
| | | DIESEL.3520.TES | 05.06.97 | 8015M | 536-25 | 97113 | 1020 |
| | | GAS.BTX.TESNC | 05.08.97 | 8015M.TX | 536-34 | 9711005 | 8171 |
| 705120*5 | MW-8J | IR.PET.TESNC | 05.12.97 | 418.1 | 533-17 | 97368 | 8106 |
| | | DIESEL.3520.TES | 05.06.97 | 8015M | 536-01 | 97113 | 1020 |
| | | GAS.BTX.TESNC | 05.08.97 | 8015M.TX | 536-34 | 9711005 | 8171 |
| 705120*6 | MW-8K | IR.PET.TESNC | 05.12.97 | 418.1 | 533-17 | 97367 | 8106 |
| | | DIESEL.3520.TES | 05.06.97 | 8015M | 536-01 | 97113 | 1020 |
| | | GAS.BTX.TESNC | 05.08.97 | 8015M.TX | 536-34 | 9711005 | 8171 |
| 705120*7 | EB | IR.PET.TESNC | 05.12.97 | 418.1 | 533-17 | 97367 | 8106 |
| | | DIESEL.3520.TES | 05.06.97 | 8015M | 536-01 | 97113 | 1020 |
| | | GAS.BTX.TESNC | 05.12.97 | 8015M.TX | 536-21 | 976045 | 8866 |

**

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

AQUEOUS SAMPLES

| | ----- METHOD BLANK ----- | | | ----- LAB CONTROL ----- | | | | | | ----- MATRIX QC ----- | | | | | |
|---|--------------------------|--------|---------|-------------------------|------------------|------|------|------|-----|-----------------------|-----------------|-----|-----|-----|------|
| | UNITS | RESULT | RDL FLG | LCS %REC FLG | LCSD %REC FLG | LCL | UCL | RPD | RPD | MS %REC FLG | MSD %REC FLG | LCL | UCL | RPD | RPD |
| Batch: IR*97367 Method: 418.1 - Petroleum Hydrocarbons, Total, Spectrophotometric, Infrared | | | | | | | | | | | | | | | |
| Oil&Grease/SM5520F | - | 0.25 | - - | 135 | - 146 | - - | - - | 7 | - - | - - | - - | - - | - - | - - | - - |
| Batch: IR*97368 Method: 418.1 - Petroleum Hydrocarbons, Total, Spectrophotometric, Infrared | | | | | | | | | | | | | | | |
| Oil&Grease/SM5520F | - | 0 | - - | 161 | - 159 | - - | - - | 1 | - - | - - | - - | - - | - - | - - | - - |
| Batch: GAS*976045 Method: 8015.TX - 8015.TX | | | | | | | | | | | | | | | |
| Benzene | - | 0 | - - | 99 | - 110 | - - | - 10 | - - | 91 | - 80 | - - | - - | 11 | - - | - - |
| Toluene | - | 0 | - - | 103 | - 114 | - - | - 10 | - - | 92 | - 93 | - - | - - | 1 | - - | - - |
| Ethylbenzene | - | 0 | - - | 102 | - 113 | - - | - 10 | - - | 91 | - 92 | - - | - - | 2 | - - | - - |
| Total Xylene Isomers | - | 0 | - - | 103 | - 114 | - - | - 10 | - - | 78 | - 79 | - - | - - | 1 | - - | - - |
| TPH (Gasoline Range) | - | 0 | - - | 106 | - 102 | - - | - 4 | - - | - - | - - | - - | - - | - - | - - | - - |
| [a,a,a-Trifluorotoluene] | Percent | 105 | - - | 100 | - 112 | - - | - - | - - | 124 | - 125 | - - | - - | - - | - - | - - |
| Batch: GAS*976044 Method: 8015M.TX - Modified 8015 | | | | | | | | | | | | | | | |
| Benzene | ug/L | 0 | 0.5 - | 103 | - 98 | - 76 | 155 | 5 25 | - - | - - | - - | - - | - - | - - | - - |
| Toluene | ug/L | 0.2 | 0.5 - | 106 | - 101 | - 72 | 121 | 5 25 | - - | - - | - - | - - | - - | - - | - - |
| Ethylbenzene | ug/L | 0 | 0.5 - | 103 | - 99 | - 72 | 115 | 5 25 | - - | - - | - - | - - | - - | - - | - - |
| Total Xylene Isomers | ug/L | 0.4 | 0.5 - | 107 | - 102 | - 68 | 115 | 5 25 | - - | - - | - - | - - | - - | - - | - - |
| TPH (Gasoline Range) | ug/L | 0 | 50 - | 95 | - 98 | - 85 | 120 | 3 25 | - - | - - | - - | - - | - - | - - | - - |
| [a,a,a-Trifluorotoluene] | Percent | 117 | - - | 110 | - 102 | - 85 | 118 | - - | - - | - - | - - | - - | - - | - - | - - |
| Batch: GAS*976045 Method: 8015M.TX - Modified 8015 | | | | | | | | | | | | | | | |
| Benzene | ug/L | 0 | 0.5 - | 99 | - 110 | - 76 | 155 | 10 - | - - | 91 - | 80 - | 70 | 153 | 11 | 25 - |
| Toluene | ug/L | 0 | 0.5 - | 103 | - 114 | - 72 | 121 | 10 - | - - | 92 - | 93 - | 69 | 119 | 1 | 25 - |
| Ethylbenzene | ug/L | 0 | 0.5 - | 102 | - 113 | - 72 | 115 | 10 - | - - | 91 - | 92 - | 68 | 116 | 2 | 25 - |
| Total Xylene Isomers | ug/L | 0 | 0.5 - | 103 | - 114 | - 68 | 115 | 10 - | - - | 78 - | 79 - | 61 | 118 | 1 | 25 - |
| TPH (Gasoline Range) | ug/L | 0 | 50 - | 106 | - 102 | - 85 | 120 | 4 - | - - | - - | - - | - - | - - | - - | - - |
| [a,a,a-Trifluorotoluene] | Percent | 105 | - - | 100 | - 112 | - 85 | 118 | - - | - - | 124 Q | 125 Q | 85 | 118 | - - | - - |
| Batch: GAS*9711005 Method: 8015M.TX - Modified 8015 | | | | | | | | | | | | | | | |
| Benzene | ug/L | 0 | 0.5 - | 101 | - - | - 76 | 155 | - - | - - | 123 - | 137 - | 70 | 153 | 11 | 25 - |
| Toluene | ug/L | 0 | 0.5 - | 103 | - - | - 72 | 121 | - - | - - | 105 - | 118 - | 69 | 119 | 11 | 25 - |
| Ethylbenzene | ug/L | 0 | 0.5 - | 102 | - - | - 72 | 115 | - - | - - | 110 - | 123 Q | 68 | 116 | 11 | 25 - |
| Total Xylene Isomers | ug/L | 0 | 0.5 - | 105 | - - | - 68 | 115 | - - | - - | 92 - | 102 - | 61 | 118 | 10 | 25 - |
| TPH (Gasoline Range) | ug/L | 0 | 50 - | 99 | - - | - 85 | 120 | - - | - - | 97 - | 99 - | 78 | 124 | 2 | 25 - |
| [a,a,a-Trifluorotoluene] | Percent | 104 | - - | 96 | - - | - 85 | 118 | - - | - - | 120 Q | 117 - | 85 | 118 | - - | - - |

AQUEOUS SAMPLES

| | ----- METHOD BLANK ----- | | | ----- LAB CONTROL ----- | | | | | | | | ----- MATRIX QC ----- | | | | | | | |
|---|--------------------------|--------|---------|-------------------------|------------------|-----|-----|-----|-----|-----|-----|-----------------------|-----------------|-----|-----|-----|-----|-----|-----|
| | UNITS | RESULT | RDL FLG | LCS %REC FLG | LCSD %REC FLG | LCL | UCL | RPD | RPD | UCL | FLG | MS %REC FLG | MSD %REC FLG | LCL | UCL | RPD | RPD | UCL | FLG |
| Batch: DIESEL*97113 Method: 8015M - Modified 8015 | | | | | | | | | | | | | | | | | | | |
| TPH (Diesel Range) | mg/L | 0 | 0.5 - | 118 - | 111 - | 53 | 155 | 6 | - | - | | 109 - | 119 - | 88 | 122 | 9 | 20 | - | - |
| [Naphthalene] | Percent | 89 | - - | 127 - | 118 - | 55 | 127 | - | - | - | | 97 - | 106 - | 55 | 127 | - | - | - | - |
| [o-Terphenyl] | Percent | 102 | - - | 103 - | 96 - | 69 | 108 | - | - | - | | 89 - | 100 - | 69 | 108 | - | 20 | - | - |

SURROGATE RECOVERIES :

BC ANALYTICAL : GLEN LAB : 08:06:43 19 MAY 1997 - P. 1 :

=====

| ETHOD | ANALYTE | BATCH | ANALYZED | REPORTED | TRUE | %REC | FLAG |
|----------|------------------------|-----------|----------|----------|--------|------|------|
| 705120*1 | | | | | | | |
| 015M | Naphthalene | 97113 | 05/06/97 | 0.0631 | 0.0500 | 126 | |
| | o-Terphenyl | 97113 | 05/06/97 | 0.0875 | 0.0500 | 175 | |
| 015.TX | a,a,a-Trifluorotoluene | Re976045 | 05/12/97 | 53.0 | 50.0 | 106 | |
| 705120*2 | | | | | | | |
| 015M | Naphthalene | 97113 | 05/06/97 | 0.0416 | 0.0500 | 83 | |
| | o-Terphenyl | 97113 | 05/06/97 | 0.0468 | 0.0500 | 94 | |
| 015M.TX | a,a,a-Trifluorotoluene | Re976044 | 05/09/97 | 44.9 | 50.0 | 90 | |
| 705120*3 | | | | | | | |
| 015M | Naphthalene | 97113 | 05/06/97 | 0.0626 | 0.0500 | 125 | |
| | o-Terphenyl | 97113 | 05/06/97 | 0.0870 | 0.0500 | 174 | |
| 015M.TX | a,a,a-Trifluorotoluene | Re9711005 | 05/08/97 | 46.3 | 50.0 | 93 | |
| 705120*4 | | | | | | | |
| 015M | Naphthalene | 97113 | 05/06/97 | 0.0596 | 0.0500 | 119 | |
| | o-Terphenyl | 97113 | 05/06/97 | 0.0829 | 0.0500 | 166 | |
| 015M.TX | a,a,a-Trifluorotoluene | Re9711005 | 05/08/97 | 42.0 | 50.0 | 84 | |
| 705120*5 | | | | | | | |
| 015M | Naphthalene | 97113 | 05/06/97 | 0.0425 | 0.0500 | 85 | |
| | o-Terphenyl | 97113 | 05/06/97 | 0.0479 | 0.0500 | 96 | |
| 015M.TX | a,a,a-Trifluorotoluene | Re9711005 | 05/08/97 | 39.8 | 50.0 | 80 | |
| 705120*6 | | | | | | | |
| 015M | Naphthalene | 97113 | 05/06/97 | 0.0458 | 0.0500 | 92 | |
| | o-Terphenyl | 97113 | 05/06/97 | 0.0507 | 0.0500 | 101 | |
| 015M.TX | a,a,a-Trifluorotoluene | Re9711005 | 05/08/97 | 41.8 | 50.0 | 84 | |
| 705120*7 | | | | | | | |
| 015M | Naphthalene | 97113 | 05/06/97 | 0.0315 | 0.0500 | 63 | |
| | o-Terphenyl | 97113 | 05/06/97 | 0.0383 | 0.0500 | 77 | |
| 015M.TX | a,a,a-Trifluorotoluene | Re976045 | 05/12/97 | 48.5 | 50.0 | 97 | |

SURROGATE RECOVERIES :

BC ANALYTICAL : GLEN LAB : 08:06:51 19 MAY 1997 - P. 1 :

| METHOD | ANALYTE | BATCH | ANALYZED | REPORTED | TRUE | %REC | FLAG |
|-------------|-------------------------|------------|----------|----------|--------|------|------|
| 704995*1*R1 | | | | | | | |
| 1015M | a,a,a-Trifluorotoluene | Re9711005 | 05/08/97 | 45.7 | 50.0 | 91 | |
| 704995*1*S1 | | | | | | | |
| 1015M | a,a,a-Trifluorotoluene | Re9711005 | 05/08/97 | 60.0 | 50.0 | 120 | |
| 704995*1*S2 | | | | | | | |
| 1015M | a,a,a-Trifluorotoluene | Re9711005 | 05/08/97 | 58.7 | 50.0 | 117 | |
| 704995*1*T | | | | | | | |
| 1015M | a,a,a-Trifluorotoluene | Re9711005 | 05/08/97 | 50.0 | 50.0 | 100 | |
| 705133*1*R1 | | | | | | | |
| 1015M | Naphthalene | 97113 | 05/06/97 | 0.0404 | 0.0500 | 81 | |
| | o-Terphenyl | 97113 | 05/06/97 | 0.0459 | 0.0500 | 92 | |
| 1270 | 2-Fluorophenol | 97102 | 05/07/97 | 49.2 | 75.0 | 66 | |
| | Phenol-d5 | 97102 | 05/07/97 | 40.6 | 75.0 | 54 | |
| | Nitrobenzene-d5 | 97102 | 05/07/97 | 33.6 | 50.0 | 67 | |
| | 2-Fluorobiphenyl | 97102 | 05/07/97 | 39.0 | 50.0 | 78 | |
| | 2,4,6-Tribromophenol | Rep.97102 | 05/07/97 | 63.4 | 75.0 | 85 | |
| | Terphenyl-d14 | 97102 | 05/07/97 | 50.0 | 50.0 | 100 | |
| 1080 | Tetrachloro-meta-xylene | R9784 | 05/08/97 | 0.207 | 0.250 | 83 | |
| | Decachlorobiphenyl | 9784 | 05/08/97 | 0.129 | 0.250 | 52 | |
| 1080 | Tetrachloro-meta-xylene | R9784 | 05/08/97 | 0.207 | 0.250 | 83 | |
| | Decachlorobiphenyl | 9784 | 05/08/97 | 0.129 | 0.250 | 52 | |
| 260 | Toluene-d8 | 973055 | 05/08/97 | 49.3 | 50.0 | 99 | |
| | 4-Bromofluorobenzene | Rep.973055 | 05/08/97 | 50.6 | 50.0 | 101 | |
| | Dibromofluoromethane | Rep.973055 | 05/08/97 | 49.2 | 50.0 | 98 | |
| 705133*1*S1 | | | | | | | |
| 015M | Naphthalene | 97113 | 05/06/97 | 0.0483 | 0.0500 | 97 | |
| | o-Terphenyl | 97113 | 05/06/97 | 0.0443 | 0.0500 | 89 | |
| 270 | 2-Fluorophenol | 97102 | 05/07/97 | 49.8 | 75.0 | 66 | |
| | Phenol-d5 | 97102 | 05/07/97 | 40.4 | 75.0 | 54 | |
| | Nitrobenzene-d5 | 97102 | 05/07/97 | 34.1 | 50.0 | 68 | |
| | 2-Fluorobiphenyl | 97102 | 05/07/97 | 39.6 | 50.0 | 79 | |
| | 2,4,6-Tribromophenol | Rep.97102 | 05/07/97 | 68.9 | 75.0 | 92 | |
| | Terphenyl-d14 | 97102 | 05/07/97 | 51.0 | 50.0 | 102 | |
| 080 | Tetrachloro-meta-xylene | R9784 | 05/08/97 | 0.216 | 0.250 | 86 | |
| | Decachlorobiphenyl | 9784 | 05/08/97 | 0.173 | 0.250 | 69 | |
| 260 | Toluene-d8 | 973055 | 05/09/97 | 49.2 | 50.0 | 98 | |
| | 4-Bromofluorobenzene | Rep.973055 | 05/09/97 | 48.5 | 50.0 | 97 | |
| | Dibromofluoromethane | Rep.973055 | 05/09/97 | 46.3 | 50.0 | 93 | |
| 705133*1*S2 | | | | | | | |
| 115M | Naphthalene | 97113 | 05/06/97 | 0.0528 | 0.0500 | 106 | |
| | o-Terphenyl | 97113 | 05/06/97 | 0.0500 | 0.0500 | 100 | |
| 170 | 2-Fluorophenol | 97102 | 05/07/97 | 48.5 | 75.0 | 65 | |
| | Phenol-d5 | 97102 | 05/07/97 | 38.9 | 75.0 | 52 | |

SURROGATE RECOVERIES :

BC ANALYTICAL : GLEN LAB : 08:06:52 19 MAY 1997 - P. 2 :

```

=====
THOD  ANALYTE                BATCH  ANALYZED  REPORTED  TRUE %REC  FLAG
-----
      Nitrobenzene-d5         97102  05/07/97  34.5     50.0     69
      2-Fluorobiphenyl       97102  05/07/97  40.6     50.0     81
      2,4,6-Tribromophenol Rep.97102  05/07/97  66.2     75.0     88
      Terphenyl-d14          97102  05/07/97  53.1     50.0    106
80    Tetrachloro-meta-xylene R9784   05/08/97  0.196    0.250    78
      Decachlorobiphenyl     9784   05/08/97  0.144    0.250    58
60    Toluene-d8                973055  05/08/97  49.5     50.0     99
      4-Bromofluorobenzene Rep.973055  05/08/97  50.2     50.0    100
      Dibromofluoromethane Rep.973055  05/08/97  50.0     50.0    100

```

05133*1*T

```

15M  Naphthalene                97113  05/06/97  0.0500   0.0500   100
      o-Terphenyl            97113  05/06/97  0.0500   0.0500   100
70    2-Fluorophenol          97102  05/07/97  75.0     75.0    100
      Phenol-d5              97102  05/07/97  75.0     75.0    100
      Nitrobenzene-d5        97102  05/07/97  50.0     50.0    100
      2-Fluorobiphenyl       97102  05/07/97  50.0     50.0    100
      2,4,6-Tribromophenol Rep.97102  05/07/97  75.0     75.0    100
      Terphenyl-d14          97102  05/07/97  50.0     50.0    100
80    Tetrachloro-meta-xylene R9784   05/08/97  0.250    0.250    100
      Decachlorobiphenyl     9784   05/08/97  0.250    0.250    100
60    Toluene-d8                973055  05/08/97  50.0     50.0    100
      4-Bromofluorobenzene Rep.973055  05/08/97  50.0     50.0    100
      Dibromofluoromethane Rep.973055  05/08/97  50.0     50.0    100

```

05169*1*R1

```

20    a,a,a-Trifluorotoluene Re976045  05/13/97  46.8     50.0     94

```

05169*1*S1

```

20    a,a,a-Trifluorotoluene Re976045  05/13/97  62.1     50.0    124

```

05169*1*S2

```

20    a,a,a-Trifluorotoluene Re976045  05/13/97  62.3     50.0    125

```

05169*1*T

```

20    a,a,a-Trifluorotoluene Re976045  05/13/97  50.0     50.0    100

```

05344*1*MB

```

15M  Naphthalene                97113  05/06/97  0.0447   0.0500   89
      o-Terphenyl            97113  05/06/97  0.0508   0.0500  102

```

05580*1*MB

```

15M  a,a,a-Trifluorotoluene Re9711005  05/08/97  51.9     50.0    104

```

05748*1*MB

```

15M  a,a,a-Trifluorotoluene Re976044  05/08/97  58.4     50.0    117

```

05767*1*MB

SURROGATE RECOVERIES :

BC ANALYTICAL : GLEN LAB : 08:06:53 19 MAY 1997 - P. 3 :

| ETHOD | ANALYTE | BATCH | ANALYZED | REPORTED | TRUE | %REC | FLAG |
|-------|------------------------|-----------|----------|----------|--------|------|------|
| 015M | a,a,a-Trifluorotoluene | Re976045 | 05/12/97 | 52.5 | 50.0 | 105 | |
| | 7051124*1*LC | | | | | | |
| 015M | a,a,a-Trifluorotoluene | Re9711005 | 05/08/97 | 48.0 | 50.0 | 96 | |
| | 7051124*1*LT | | | | | | |
| 015M | a,a,a-Trifluorotoluene | Re9711005 | 05/08/97 | 50.0 | 50.0 | 100 | |
| | 7051437*1*LC | | | | | | |
| 015M | a,a,a-Trifluorotoluene | Re976044 | 05/08/97 | 55.2 | 50.0 | 110 | |
| | 7051437*1*LT | | | | | | |
| 015M | a,a,a-Trifluorotoluene | Re976044 | 05/08/97 | 50.0 | 50.0 | 100 | |
| | 7051438*1*LC | | | | | | |
| 015M | a,a,a-Trifluorotoluene | Re976044 | 05/08/97 | 51.1 | 50.0 | 102 | |
| | 7051438*1*LT | | | | | | |
| 015M | a,a,a-Trifluorotoluene | Re976044 | 05/08/97 | 50.0 | 50.0 | 100 | |
| | 7051471*1*LC | | | | | | |
| 015M | a,a,a-Trifluorotoluene | Re976045 | 05/12/97 | 50.1 | 50.0 | 100 | |
| | 7051471*1*LT | | | | | | |
| 015M | a,a,a-Trifluorotoluene | Re976045 | 05/12/97 | 50.0 | 50.0 | 100 | |
| | 7051494*1*LC | | | | | | |
| 015M | a,a,a-Trifluorotoluene | Re976045 | 05/11/97 | 56.0 | 50.0 | 112 | |
| | 7051494*1*LT | | | | | | |
| 015M | a,a,a-Trifluorotoluene | Re976045 | 05/11/97 | 50.0 | 50.0 | 100 | |
| | 705672*1*LC | | | | | | |
| 015M | Naphthalene | 97113 | 05/06/97 | 0.0634 | 0.0500 | 127 | |
| | o-Terphenyl | 97113 | 05/06/97 | 0.0517 | 0.0500 | 103 | |
| | 705672*1*LT | | | | | | |
| 015M | Naphthalene | 97113 | 05/06/97 | 0.0500 | 0.0500 | 100 | |
| | o-Terphenyl | 97113 | 05/06/97 | 0.0500 | 0.0500 | 100 | |
| | 705673*1*LC | | | | | | |
| 015M | Naphthalene | 97113 | 05/06/97 | 0.0588 | 0.0500 | 118 | |

SURROGATE RECOVERIES :

BC ANALYTICAL : GLEN LAB : 08:06:54 19 MAY 1997 - P. 4 :

| ETHOD | ANALYTE | BATCH | ANALYZED | REPORTED | TRUE | %REC | FLAG |
|-------------|-------------|-------|----------|----------|--------|------|------|
| | o-Terphenyl | 97113 | 05/06/97 | 0.0482 | 0.0500 | 96 | |
| 705673*1*LT | | | | | | | |
| 015M | Naphthalene | 97113 | 05/06/97 | 0.0500 | 0.0500 | 100 | |
| | o-Terphenyl | 97113 | 05/06/97 | 0.0500 | 0.0500 | 100 | |

697-05-120

Chain-of-Custody

Toxaco Environmental Services
 100 Cutting Boulevard
 Richmond, California 94804
 Phone: (510) 230-3541
 FAX: (510) 237-7021

Site Name: Texaco Loc. #624880235
 Site Address: 500 Grand Ave. Oakland, CA
 Contractor Project Number: 910502-21
 Contractor Name: Blaine Tech Services, Inc.
 Address: 1680 Rogers Ave., San Jose, CA 95112
 Project Contact: Kent Brown
 Phone/FAX: (408)573-0555 / (408)573-7771

Forward Results to Blaine Tech, ATTN: Caron French
 Texaco Project Coordinator Deborah Pryor

Laboratory: B C Analytical
 Turn Around Time: normal (10 day)
 Samplers (PRINT NAME): BRETT BLEAU
 Sampler Signature: [Signature]
 Date Samples Collected: 5-2-97

ANALYSIS

DRP
 624880235
 FKEP 9037L
 Alameda

| Sample Number | Lab Sample Number | Date/Time Collected | No. of Containers | Type of Container | Sample Matrix | Preservative | TPH gas/STX | TPH Diesel | OLG/TRPH (-1B,1) | TPH Ex. (CB-C36+) | VOCs 8240/324 | P. Halocarbons 8010/50 | P. Aromatics 8020/502 | Organic Lead |
|---------------|-------------------|---------------------|-------------------|-------------------|---------------|--------------|-------------|------------|------------------|-------------------|---------------|------------------------|-----------------------|--------------|
| Mw-BF | / | 5-2-97 / 700 | 1 | | | | X | X | X | | | | | |
| Mw-BG | / | / 720 | 7 | | | | X | X | X | | | | | |
| Mw-BH | / | / 755 | 7 | | | | X | X | X | | | | | |
| Mw-BI | / | / 810 | 7 | | | | X | X | X | | | | | |
| Mw-BJ | / | / 740 | 7 | | | | X | X | X | | | | | |
| Mw-BK | / | / 840 | 7 | | | | X | X | X | | | | | |
| EB | / | / 725 | 7 | | | | X | X | X | | | | | |

Comments

Relinquished by: [Signature] Date: 5/5/97 Time: 12:20
 Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: _____ Date: _____ Time: _____
 Method of Shipment: _____

Received by: [Signature] Date: 5/5/97 Time: 12:20
 Received by: _____ Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____
 Lab Comments: _____

TEXACO WELL MONITORING DATA SHEET

| | |
|---|----------------------------|
| Project #: 910502-21 | Texaco ID#: 624 880 235 |
| Sampler: BB | Date: 5-2 |
| Well I.D.: MW-8H | Well Diameter: 2 3 (4) 6 8 |
| Total Well Depth: 14.77 | Depth to Water: 3.44 |
| Depth to Free Product: | Thickness of Free Product: |
| All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit. | |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 2" | 0.17 | 5" | 1.02 |
| 3" | 0.38 | 6" | 1.50 |
| 4" | 0.66 | 8" | 2.60 |
| 4.5" | 0.83 | Other | radius ² * 0.164 |

Purge Method: S.S. Bailer Sampling Method: S.S. Bailer *
 Teflon Bailer Teflon Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

Other: _____

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| 7.2 | X | 3 | = | 21.6 | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Color/Odor |
|------|-----------|-----|-------|-----------|---------------|------------|
| 746 | 66.4 | 7.3 | 946 | 7200 | 8 | |
| 747 | 66.8 | 7.4 | 820 | 7200 | 16 | |
| 749 | 67.2 | 7.4 | 780 | 7200 | 22 | |
| | | | | | | |
| | | | | | | |

| | |
|---|-------------------------------------|
| Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/> | Gallons actually evacuated: 22 |
| Sampling Time: 755 | Sampling Date: 5-2 |
| Sample I.D.: MW-8H | Laboratory: BC Analytical |
| Analyzed for: Tph-G BTEX Tph-D | Other: MDE 1046 |
| Equipment Blank I.D.: | Analyzed for same as primary sample |

TEXACO WELL MONITORING DATA SHEET

| | |
|---|---------------------------------|
| Project #: 910502-21 | Texaco ID#: 624 880 235 |
| Sampler: 00 | Date: 5-2 |
| Well I.D.: 11W-81 | Well Diameter: 2 3 <u>4</u> 6 8 |
| Total Well Depth: 14.53 | Depth to Water: 4.20 |
| Depth to Free Product: | Thickness of Free Product: |
| All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit. | |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 2" | 0.17 | 5" | 1.02 |
| 3" | 0.38 | 6" | 1.50 |
| 4" | 0.66 | 8" | 2.60 |
| 4.5" | 0.83 | Other | radius ² * 0.164 |

| | |
|---|--|
| Purge Method: S.S. Bailer Teflon Bailer Middleburg Electric Submersible + Extraction Pump Other: _____ | Sampling Method: S.S. Bailer * Teflon Bailer Extraction Port Other: _____ |
|---|--|

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| <u>5.4</u> | X | <u>3</u> | = | <u>16.2</u> | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Color/Odor |
|------|-----------|-----|-------|-----------|---------------|------------|
| 803 | 65.6 | 7.3 | 940 | 47 | 6 | |
| 804 | 66.0 | 7.3 | 1000 | 34 | 12 | |
| 806 | 66.4 | 7.3 | 1000 | 27 | 17 | |
| | | | | | | |
| | | | | | | |

| | |
|---------------------------------------|-------------------------------------|
| Did well dewater? Yes <u>No</u> | Gallons actually evacuated: 17.0 |
| Sampling Time: 810 | Sampling Date: 5-2 |
| Sample I.D.: 11W-81 | Laboratory: BC Analytical |
| Analyzed for: Tph-G <u>BTEX</u> Tph-D | Other: MDE 1046 |
| Equipment Blank I.D.: | Analyzed for same as primary sample |

TEXACO WELL MONITORING DATA SHEET

| | |
|---|----------------------------|
| Project #: 910502-21 | Texaco ID#: 624 880 235 |
| Sampler: 80 | Date: 5-2 |
| Well I.D.: MW-8K | Well Diameter: (2) 3 4 6 8 |
| Total Well Depth: 16.47 | Depth to Water: 1.60 |
| Depth to Free Product: | Thickness of Free Product: |
| All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit. | |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 2" | 0.17 | 5" | 1.02 |
| 3" | 0.38 | 6" | 1.50 |
| 4" | 0.66 | 8" | 2.60 |
| 4.5" | 0.83 | Other | radius ² * 0.164 |

| | |
|---|--|
| Purge Method: S.S. Bailer * Teflon Bailer Middleburg Electric Submersible Extraction Pump Other: _____ | Sampling Method: S.S. Bailer * Teflon Bailer Extraction Port Other: _____ |
|---|--|

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| 2.4 | X | 3 | = | 7.2 | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Color/Odor |
|------|-----------|-----|-------|-----------|---------------|------------|
| 827 | 66.8 | 7.2 | 1100 | 7200 | 2.5 | |
| 830 | 67.8 | 7.2 | 1200 | 7200 | 5.0 | |
| 833 | 68.2 | 7.2 | 1200 | 7200 | 7.25 | |
| | | | | | | |
| | | | | | | |

| | |
|---|-------------------------------------|
| Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/> | Gallons actually evacuated: 7.25 |
| Sampling Time: 840 | Sampling Date: 5-2 |
| Sample I.D.: MW-8K | Laboratory: BC Analytical |
| Analyzed for: Tph-G BTEX Tph-D | Other: MPE 1046 |
| Equipment Blank I.D.: | Analyzed for same as primary sample |

TEXACO WELL MONITORING DATA SHEET

| | |
|---|----------------------------------|
| Project #: 910502-21 | Texaco ID#: 624 800 235 |
| Sampler: BB | Date: 5-2 |
| Well I.D.: MW-8L | Well Diameter: (2) 3 4 6 8 _____ |
| Total Well Depth: — | Depth to Water: .60 |
| Depth to Free Product: | Thickness of Free Product: |
| All Measurements are referenced to TOC. Meter used is Myron LpDS pH/EC Meter. All temperatures taken in degrees Fahrenheit. | |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 2" | 0.17 | 5" | 1.02 |
| 3" | 0.38 | 6" | 1.50 |
| 4" | 0.66 | 8" | 2.60 |
| 4.5" | 0.83 | Other | radius ² * 0.164 |

| | |
|---|--|
| Purge Method: S.S. Bailer Teflon Bailer Middleburg Electric Submersible Extraction Pump Other: _____ | Sampling Method: S.S. Bailer Teflon Bailer Extraction Port Other: _____ |
|---|--|

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|-------|
| _____ | X | 3 | = | _____ | Gals. |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Color/Odor |
|------|-----------|---|-------|-----------|---------------|------------|
| | | | | | | |
| | | WELL UNACCESSIBLE BIT OR COLLAPSED CASING | | | | |
| | | 2 | 1.5 | | | |
| | | | | | | |
| | | | | | | |

| | |
|---------------------------------------|-------------------------------------|
| Did well dewater? Yes No | Gallons actually evacuated: _____ |
| Sampling Time: _____ | Sampling Date: 5-2 |
| Sample I.D.: MW-8 | Laboratory: BC Analytical |
| Analyzed for: Tph-G BTEX Tph-D | Other: MTBE 1046 |
| Equipment Blank I.D.: _____ | Analyzed for same as primary sample |

Texaco Environmental Services
Standard Operating Procedures
for Groundwater Monitoring and Sampling

The following are routine procedures to be followed by personnel obtaining field information concerning petroleum product thickness and samples of groundwater during the monitoring and sampling of Texaco sites. These procedures are designed to assure that:

- Information and samples are properly collected.
- Samples are identified, preserved and transported in a manner such that they are representative of field conditions.
- Monitoring and sampling results are reproducible.

Water Level Measurements

Water level measurements are needed to document groundwater flow directions and calculate gradient. By gauging the level of water in a groundwater monitoring well and comparing the compiled data, calculations can be made that determine the direction the groundwater at the monitored well is flowing and the groundwater gradient between successive monitoring wells.

- An interface probe or electronic probe is generally used to gauge the level of water in a monitoring well. When using either probe, it is slowly lowered into the well until the oscillating alarm indicating water is heard. Raise the interface probe above the water level and lower it back into the water at least three times to verify that the true depth to water is measured. The depth to water should always be measured from the same spot on the top of the well casing. The designated "Top of Casing" mark should be at the North side of the casing. Without moving the probe, read the numbers on the tape to determine the distance to water from the top of the well casing. A chalked, steel add-tape may also be used to gauge the level of water in a monitoring well. When using the steel tape, it is slowly lowered into the well until the chalked portion of the tape encounters water. Read the numbers on the tape to determine the distance from the predetermined top of the well casing. Raise the tape to the surface grade, re-chalk and lower it back into the water at least two times to verify that the true depth to water is measured. Record the depth to water on the Well Gauging Form and Groundwater Sampling Form.

Petroleum Product Thickness Measurements.

If free phase petroleum hydrocarbons (product) are observed floating on the groundwater surface during the water level measurement, the thickness of the product will be measured in each appropriate well. Groundwater samples will not be collected for chemical analysis from wells containing product (even a sheen) unless specifically requested by the Project Coordinator. If the Project Coordinator requests that wells containing product be sampled, only those wells with product thickness of less than 0.01 foot will be sampled. Arrangements to bail, store, and dispose of product must be made separately. When product is stored, according to Texaco policy, it will be double-contained and disposed of within 90 days of generation.

Product thicknesses will be measured using interface probes, and/or acrylic (clear plastic) bailers. The procedures for obtaining level and thickness measurements using each instrument are:

- The level of the top of the product will be measured with an interface probe. When product is suspected but not measurable with the interface probe, a visual evaluation can be made using clear bailers. A bailer will be lowered into the water/product surface so that the top of the bailer is NOT submerged; the bailer is then removed from the well and the thickness of the product visually measured and documented on the Well Gauging Form.
- When the interface probe contacts liquid, the visual/audible alarm on the reel will be activated. An oscillating alarm indicates water, a continuous alarm indicates hydrocarbon*. To determine the exact thickness of a hydrocarbon layer, the probe should be slowly lowered to the air/hydrocarbon interface until the alarm is activated. With the probe at the exact point where the alarm comes on, read the numbers on the tape to determine the distance from the top of casing elevation mark. Next, lower the probe through the hydrocarbon layer and well into the water. An oscillating alarm will be obtained. The probe should then be raised slowly to the hydrocarbon/water interface until the point where the alarm changes from oscillating to continuous. The thickness of the hydrocarbon layer is determined by subtracting the first reading from the second reading. Record the calculated value on the Well Gauging Form and Groundwater Sampling Form.

* The process described here is equipment specific. Follow the procedures applicable for your monitoring equipment.

Groundwater Sampling

Groundwater samples will be collected from selected groundwater monitoring wells to provide data which will be statistically representative of local groundwater conditions at the site. Groundwater samples will be collected as follows:

- All measuring and sampling equipment will be decontaminated prior to sample collection from each well and documented on the Groundwater Sampling Form.
- Prior to sampling activity, the water level in the well will be measured and the minimum purge volume of each well will be calculated using the purge volume calculation portion of the Groundwater Sampling Form. A minimum of three casing volumes will be purged prior to sample collection. The actual total volume purged will be recorded on Groundwater Sampling Form.
- Prior to sampling, a submersible pump, centrifugal pump, peristaltic pump, or a Teflon or stainless steel bailer will be used to purge a minimum of three casing volumes from each well. Purge volumes will be estimated using a flow meter or a stopwatch and a bucket to estimate flow rate, from which a time to purge the required volume will be calculated. The pump will be lowered to a depth of two to three feet from bottom of the well. When bailers are used for purging, the bailer should be gently lowered into the water and allowed to fill, then removed. Purged water may be placed into 5-gallon buckets to determine the volume of groundwater removed. Care should be taken to not agitate the water which could release volatile organics.

- Whenever possible, groundwater parameters pH, temperature (in degrees Celsius [C]), specific conductance (in micromhos per centimeters squared [umhos]), and turbidity (in National Turbidity Units [NTU]) will be monitored and recorded on the Groundwater Sampling Form.
- If a well is purged dry before three casing volumes have been removed, the sample will be taken after the well has recovered to at least 80 percent of the static water level prior to purging or after 4 hours when sufficient water volume is available to meet analytical requirements, whichever comes first. Reasonable efforts will be made to avoid dewatering wells by using low-yield pumps as necessary.
- Water samples will be collected with a stainless steel or Teflon bailer. To reduce potential cross contamination, sampling should take place in order from least to most contaminated wells. Bailer strings should be replaced between each well to avoid cross contamination from a bailer string which has absorbed contamination.
- Sample containers will be filled directly from the bailer.
- Use only sample containers prepared and provided by an analytical laboratory. Preservatives are required for some types of samples. Sample containers containing preservatives should be supplied by an analytical laboratory.
- For volatile organics analysis, each sample vial will be filled with sample water so that water stands above the lip of the vial. The cap should then be quickly placed on the vial and tightened securely. The vial should then be checked to ensure that no air bubbles are present prior to labeling the sample.
- Take site blank samples (trip and rinsate) using distilled water or laboratory supplied water from a known uncontaminated source. One trip blank and one rinsate blank sample for each site will be analyzed for each site sampling event.
- Once collected and labeled, all samples will be stored in a cooler maintained at 4 degrees Celsius using frozen water ice.

Sample Custody Procedures

Sample custody procedures will be followed through sample collection, transfer, analysis and ultimate disposal. The purpose of these procedures is to assure that the integrity of samples is maintained during their collection and transfer. Sample quantities, types and locations will be determined before the actual field work begins. As few people as possible will handle samples. The field sampler is personally responsible for the care and custody of the collected samples until they are properly transferred.

Each sample will be labeled and sealed properly immediately after collection. Sample identification documents will be carefully prepared so that identification and chain-of-custody records can be maintained and sample disposition can be controlled. Forms will be filled out with waterproof ink. The following are sample identification documents that will be utilized during the field operations.

- Sample Identification Label
- Chain-of Custody

Each separate sample will be identified using a label obtained from the laboratory. The sampler will complete all information, using a black waterproof pen, as follows:

The Site ID This is the name assigned to the particular sampling station.

The Sample Source. This will be the name of the well location.

The Analysis Required. This will be indicated for each sample using proper EPA reference number indicating analytical method.

The Date Taken. This will be the date the sample was collected, using the format MM-DD-YY.
Example: 06-15-91

Noting the Time. The time the sample was collected will be given in military time.
Example: 1430

The Method of Preservation. Preservation methods will be provided, specifying the type of preservation. For non-acidified samples, "ice" will be indicated.

The Sampler's Name. This will be printed in the "Sampled By" section. The sampler's signature will be written in the "Signed" section.

There is the potential that samples and analyses could be of an evidentiary nature. Therefore, the possession of samples must be traceable from the time samples are collected in the field until the analysis is completed and the data are entered as evidence. The tracing of the samples through the laboratory is accomplished by "chain-of-custody" procedures. Chain-of-Custody Forms will be completed for each set of samples. The sampler will sign the first "Relinquished By" line at the bottom of the chain of custody record, and will indicate the date and time of the custody transfer. Samples will not leave custody of the field technician until relinquished to another party. Custody is defined by the following criteria.

In the Actual Physical Possession. When field personnel have sample in possession, they have "custody".

In View. The samples are in the field personnel's view, after being in their physical possession.

Special Areas. Sample is kept in a locked area after being in physical possession.

Designated Area. Sample is in a designated, locked-storage area.

Transfer of samples to an analytical laboratory will be done by use of a common carrier or personal delivery. Carrier personnel will personally secure samples and sample containers in such a way that no containers can be opened in transit. The person to whom custody is being transferred will sign on the first "Received By" line of the chain-of-custody record, indicating that custody is being accepted by the carrier for all the samples

listed on the sheet. For subsequent transfers of custody, the succeeding relinquish and receipt lines will be used.

Equipment Decontamination

All equipment that comes in contact with potentially contaminated soil or water will be decontaminated prior to and after each use (for example, after each sampling event). All purging and sampling equipment will be decontaminated with an Alconox wash and rinsed with deionized water. Decontamination water generated will be added to the purge water.

QUARTERLY SUMMARY REPORT
Former Texaco Service Station/Current Parking Lot
500 Grand Avenue, Oakland, California
Alameda County
Second Quarter, 1997

HISTORY OF INVESTIGATIVE AND REMEDIAL ACTIONS

A site preliminary subsurface investigation was conducted in May 1988. During the initial investigation, a soil gas survey was conducted, 15 soil borings were drilled, and 5 on-site groundwater monitoring wells were installed. In 1989 5 off-site wells were installed. The initial 5 on-site wells have been abandoned and replaced by 2 wells located at the southern perimeter of the site. Over 2,400 cubic yards of hydrocarbon-impacted soil have been excavated and removed from within the property boundaries. The waste oil tank, tank backfill material, and impacted soil were excavated and disposed of in September 1990. Clay sewer pipes and contaminated soil from an abandoned utility trench near the former waste oil tank were removed from the site in early 1991. Site structures, 3 underground storage tanks, dispenser islands and associated piping, and stockpiled soils were removed from the site in April 1992. The excavated area was backfilled and compacted using clean imported material.

WORK PERFORMED DURING THIS QUARTER

Quarterly groundwater monitoring and sampling was performed. Submitted request to Alameda County Health Care Services Agency to reduce the frequency of groundwater monitoring and sampling in selected wells.

CHARACTERIZATION STATUS

All petroleum impacted soils underlying the site, with a possible exception of a very narrow band along the Grand Avenue sidewalk, have been removed by the extensive soil excavation activities. Groundwater at the site has been affected by gasoline, diesel, and hydrocarbons above the range of diesel. Since the removal of on-site contaminated soils, significant reductions in TPH-g and TPH-d concentrations in groundwater have been reported for samples taken from on- and off-site wells.

REMEDICATION STATUS

No further investigation or remediation of the vadose-zone soils is planned. It is proposed that down gradient wells continue to be monitored to document the biodegradation of the remaining dissolved-phase hydrocarbons in the groundwater. Oxygen release compounds were installed in December 1996 in selected wells to enhance the natural in-situ biodegradation process.

WORK TO BE PERFORMED NEXT QUARTER

Continue groundwater monitoring and sampling to record fluctuations in hydrocarbon concentrations and monitor the ORC.

COMPANY CONTACT: Deborah Pryor (818) 505-3113.