



BP OIL

BP Oil Company
Environmental Remediation Management
295 SW 41st Street
Renton, Washington 98055-4931
(206) 251-0667
Fax No: (206) 251-0736

May 4, 1999

Alameda County Health Care Services Agency
Attention Ms. Susan Hugo
1131 Harbor Bay Parkway, Ste. 250
Alameda, CA 94502-6577

RE: BP Oil Site No. 11132
3201 35th Street (at I-580)
Oakland, CA

LOP 3878

Dear Ms. Hugo:

Enclosed please find a report titled Groundwater Monitoring and Sampling Report, dated 26 April 1999.

The report shows that aromatic petroleum constituents were detected in groundwater samples collected from six of the nine wells sampled this quarter (2 February 1999). The highest benzene concentration (3,500 ug/l) was reported in a sample obtained from well MW-2, located south of the underground storage tanks.

Plans for the coming quarter include product removal and groundwater monitoring.

Please give me a call if you have any questions, comments or concerns regarding this matter. I can be reached at (425) 251-0689.

Sincerely,

Scott Hooton

attachment

cc: Ade Fagorala- CRWQCB-SFBR
D. Camille - Tosco (w/attachment)

ENVIRONMENTAL
PROTECTION
MAY -7 PM 3:05

BLAINE
TECH SERVICES INC



1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE

April 26, 1999

Scott Hooton
BP Oil Company
295 SW 41st Street, Bldg. 13, Suite N
Renton, WA 98055-4931

1st Quarter 1999 Monitoring at 11132

First Quarter 1999 Groundwater Monitoring
BP Service Station Number 11132
3201 35th Street
Oakland, CA

Monitoring Performed on February 2, 1999

Groundwater Sampling Report 990202-X-2

This report covers the routine monitoring of groundwater wells at this BP facility. Blaine Tech Services, Inc.'s work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling in accordance with standard procedures that conform to Regional Water Quality Control Board requirements.

Routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, the appropriate calculated purge volume, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to Seaport Petroleum Corporation for disposal.

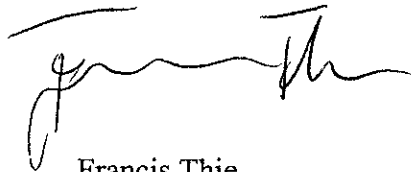
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The **Professional Engineering Appendix** contains a **Groundwater Elevation Map** and a **Dissolved Petroleum Hydrocarbon Concentration Map**.

At a minimum, Blaine Tech Services, Inc. field personnel are certified upon completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

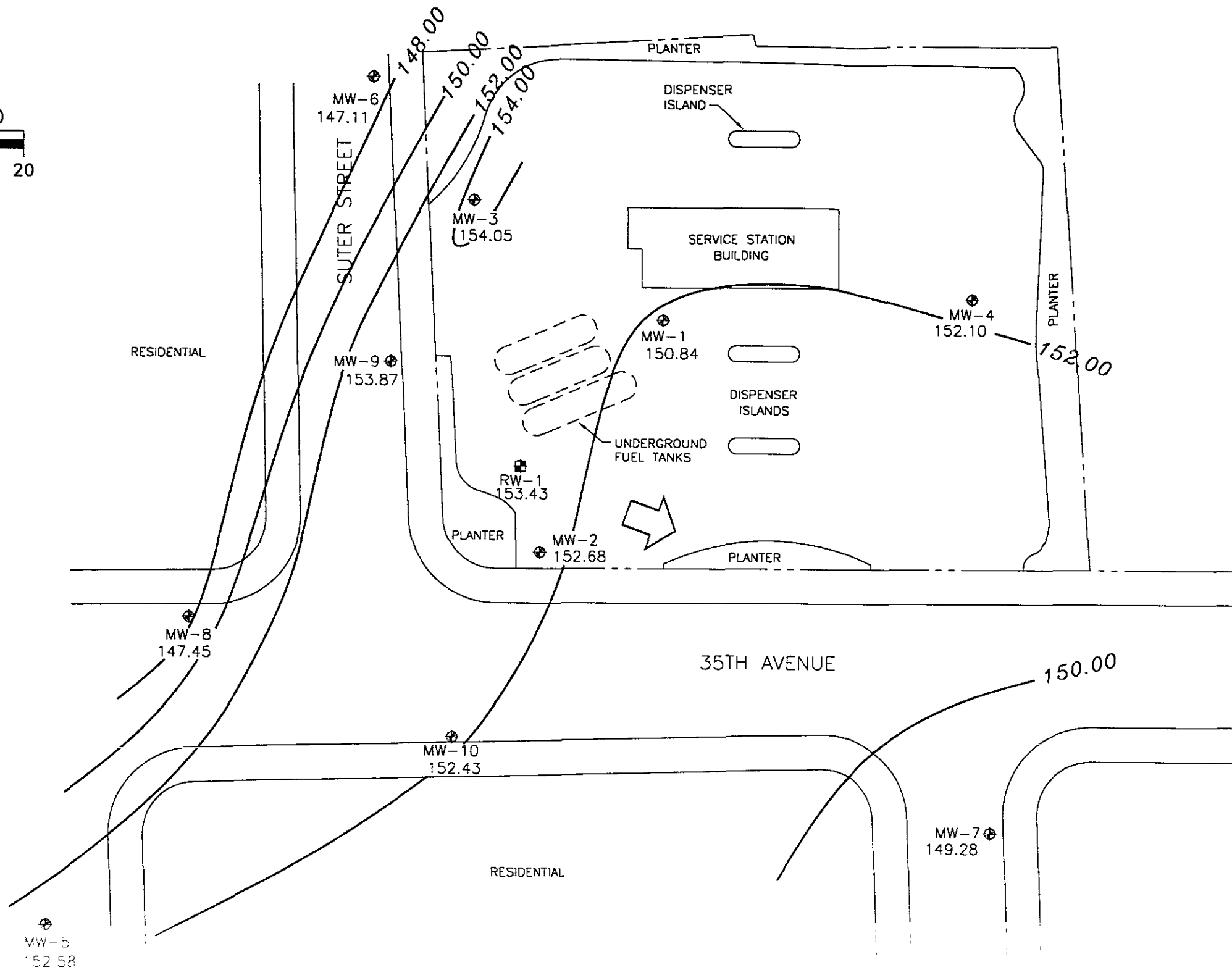
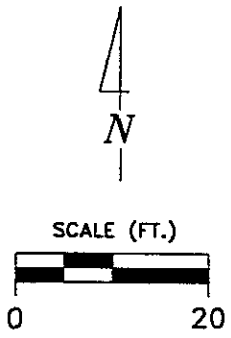
A handwritten signature in black ink, appearing to read 'Francis Thie', written in a cursive style.

Francis Thie
Vice President

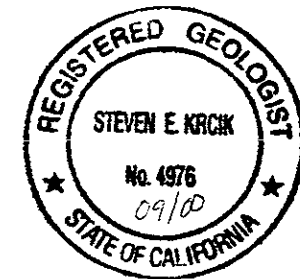
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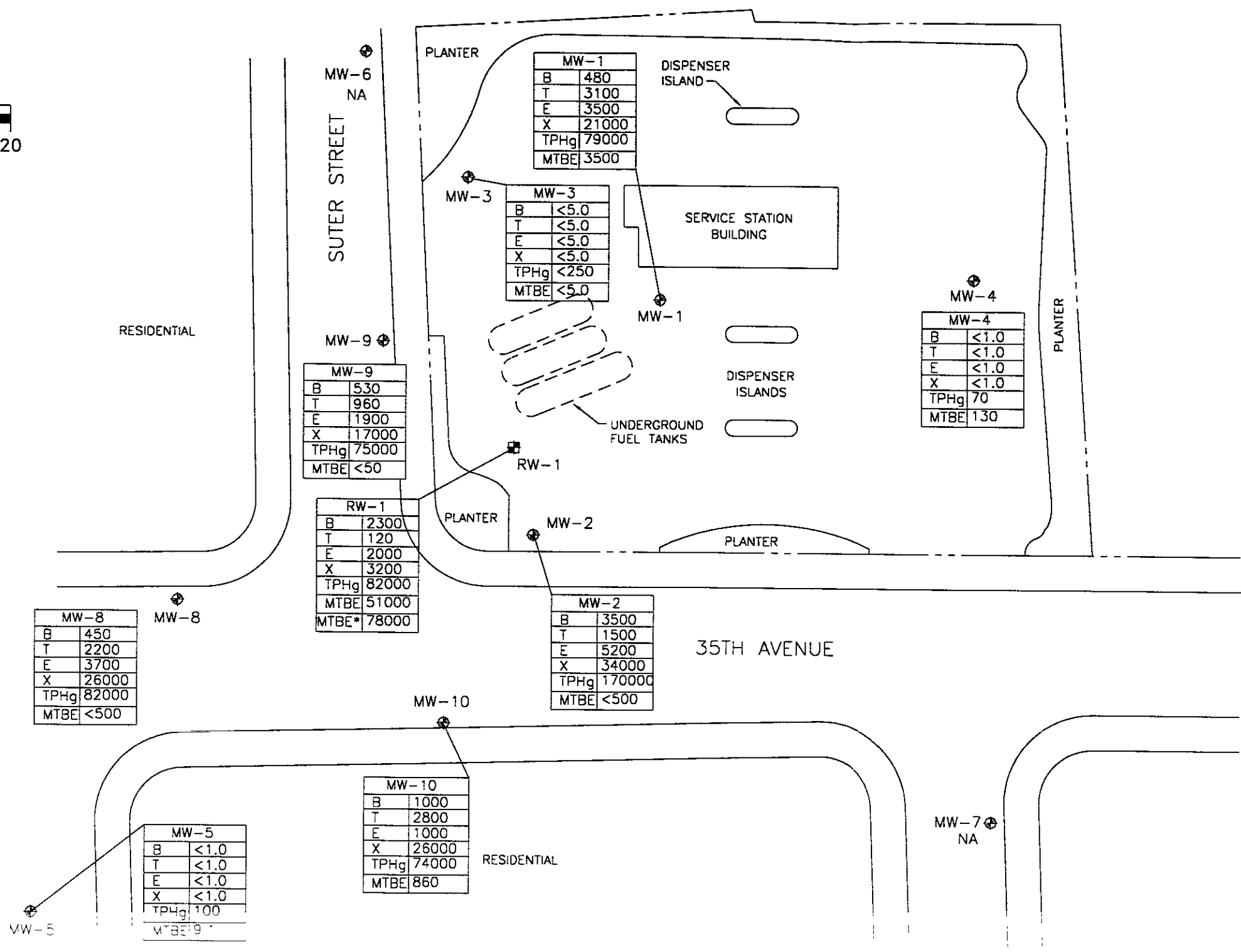
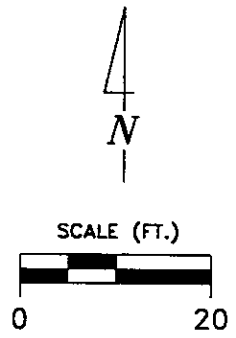
attachments: Professional Engineering Appendix
Cumulative Table of Well Data and Analytical Results
Analytical Appendix
Field Data Sheets

Professional Engineering Appendix



- EXPLANATION**
- ⊕ GROUNDWATER MONITORING WELL
 - ⊞ GROUNDWATER RECOVERY WELL
 - 149.28 GROUNDWATER ELEVATION (FT, MSL)
 - 150.00 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
 - ➔ APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.3





- EXPLANATION**
- ⊕ GROUNDWATER MONITORING WELL
 - ⊞ GROUNDWATER RECOVERY WELL
 - TPHg TOTAL PETROLEUM HYDROCARBON CALCULATED AS GASOLINE IN PARTS PER BILLION (ppb)
 - B BENZENE, ppb
 - T TOLUENE, ppb
 - E ETHYLBENZENE, ppb
 - X XYLENE, ppb
 - MTBE METHYL-TERT-BUTYL-ETHER, ppb
 - MTBE* MTBE BY 8260
 - NA DATA NOT AVAILABLE

Ref: 1:32b.ex.dwg
 Rosemead from Aliso Engineering Group

PREPARED BY
RRM
 engineering contracting firm

HYDROCARBON CONCENTRATION MAP,
 FEBRUARY 2, 1999

BP Oil Service Station No 11132
 3201 35th Street
 Oakland, California

FIGURE:
 2
 PROJECT:
 DAC04

Table of Well Data and Analytical Results

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (a) (Feet) | DEPTH TO WATER (Feet) | PRODUCT THICKNESS (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ug/l) | B (ug/l) | T (ug/l) | E (ug/l) | X (ug/l) | MTBE (ug/l) | DO (ppm) | LAB |
|----------|------------------------------|-----------------------------|-----------------------|--------------------------|----------------------------------|--------------|----------|----------|----------|----------|-------------|----------|-----|
| MW-1 | 07/09/90 | 169.75 | --- | 0.22 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 12/21/90 | 169.75 | --- | 0.58 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 03/07/91 | 169.75 | 20.59 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 06/27/91 | 169.75 | --- | 0.18 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 09/27/91 | 169.75 | --- | 0.27 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 12/18/91 | 169.75 | --- | 0.28 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 04/01/91 | 169.75 | 16.51 | 0.15 | 153.35 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 07/03/92 | 169.75 | 22.30 | 0.27 | 147.65 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 10/05/92 | 169.75 | 23.98 | 0.24 | 145.95 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 01/13/93 | 169.75 | 17.03 | 0.24 | 152.90 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 04/23/93 | 169.75 | 18.10 | 0.42 | 151.97 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 07/12/93 | 169.75 | 22.02 | 0.49 | 148.10 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 10/21/93 | 169.75 | 25.12 | 1.09 | 145.45 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 01/21/94 | 169.75 | 23.02 | 0.76 | 147.30 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 04/20/94 | 169.75 | 24.54 | 1.8 | 146.56 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 08/01/94 | 169.75 | 24.11 | 0.35 | 145.90 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 12/23/94 | 169.75 | 18.19 | 0.29 | 151.78 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 01/26/95 | 169.75 | 16.25 | 1.1 | 154.33 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 06/08/95 | 169.75 | 22.92 | 1.2 | 147.73 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 08/22/95 | 169.75 | 24.45 | 0.85 | 145.94 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 10/27/95 | 169.75 | 25.41 | 0.69 | 144.86 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 01/25/96 | 169.75 | 18.20 | 1.4 | 152.60 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 04/19/96 | 169.75 | 19.06 | 1.22 | 151.61 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 07/23/96 | 169.75 | 22.98 | 0.89 | 147.44 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 11/11/96 | 169.75 | 23.99 | 0.98 | 146.50 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 01/21/97 | 169.75 | 16.80 | 0.9 | 153.63 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 04/29/97 | 169.75 | 21.90 | 0.85 | 148.49 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 04/30/97 | 169.75 | --- | --- | --- | 100000 | 3600 | 8000 | 4000 | 21300 | 7700 | 5.2 | SPL |
| QC-1 (c) | 04/30/97 | --- | --- | --- | --- | 92000 | 3500 | 8100 | 4400 | 23800 | 6900 | --- | SPL |
| MW-1 | 08/21/97 | 169.75 | 23.40 | 0.87 | 147.00 | 140000 | 3000 | 8500 | 3900 | 22100 | 5700 | 5.3 | SPL |
| QC-1 (c) | 08/21/97 | --- | --- | --- | --- | 120000 | 3200 | 8100 | 3800 | 19600 | 5200 | --- | SPL |
| MW-1 | 11/05/97 | 169.75 | 23.70 | 0.54 | 146.46 | 68000 | 6200 | 4400 | 3300 | 14300 | 8000 | 4.7 | SPL |
| QC-1 (c) | 11/05/97 | --- | --- | --- | --- | 88000 | 7300 | 4800 | 3600 | 16900 | 8200 | --- | SPL |
| MW-1 | 02/03/98 | 169.75 | 13.63 | 0.32 | 156.36 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 02/04/98 | --- | --- | --- | --- | 190000 | 2200 | 10000 | 5600 | 32000 | ND<10000 | 5.3 | SPL |
| QC-1 (c) | 02/04/98 | --- | --- | --- | --- | 160000 | 2300 | 8400 | 5000 | 29400 | ND<10000 | --- | SPL |
| MW-1 | 05/28/98 | 169.75 | 18.03 | 0.17 | 151.85 | 87000 | 980 | 3900 | 3600 | 19000 | 2900 | 3.8 | SPL |
| MW-1 | 12/30/98 | 169.75 | 19.50 | 0.08 | 150.31 | 70000 | 530 | 3200 | 2900 | 16000 | 3600 | --- | SPL |
| MW-1 | 02/02/99 | 169.75 | 18.93 | 0.03 | 150.84 | 79000 | 480 | 3100 | 3500 | 21000 | 3500 | --- | SPL |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (a) (Feet) | DEPTH TO WATER (Feet) | PRODUCT THICKNESS (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ug/l) | B (ug/l) | T (ug/l) | E (ug/l) | X (ug/l) | MTBE (ug/l) | DO (ppm) | LAB |
|---------|------------------------------|-----------------------------|-----------------------|--------------------------|----------------------------------|--------------|----------|----------|----------|----------|-------------|----------|------|
| MW-2 | 07/09/90 | 168.14 | --- | 0.1 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 12/21/90 | 168.14 | --- | 0.48 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 03/07/91 | 168.14 | 19.18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 06/27/91 | 168.14 | --- | 0.19 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 09/27/91 | 168.14 | --- | 0.15 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 12/18/91 | 168.14 | --- | 0.36 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 04/01/91 | 168.14 | 15.21 | 0.1 | 153.01 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 07/03/92 | 168.14 | 20.93 | 0.03 | 147.23 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 10/05/92 | 168.14 | 22.74 | 0.21 | 145.56 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 01/13/93 | 168.14 | 15.55 | 0.02 | 152.61 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 04/23/93 | 168.14 | 16.54 | 0.21 | 151.76 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 07/12/93 | 168.14 | 20.46 | 0.06 | 147.73 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 10/21/93 | 168.14 | 24.91 | 0.31 | 143.46 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 01/21/94 | 168.14 | 21.20 | --- | 146.94 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 04/20/94 | 168.14 | 22.44 | --- | 145.70 | 1800 | 140 | 370 | 54 | 290 | 1.7 | 1.7 | PAGE |
| MW-2 | 08/01/94 | 168.14 | 22.24 | 0.04 | 145.93 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 12/23/94 | 168.14 | 16.25 | 0.03 | 151.91 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 01/26/95 | 168.14 | 14.55 | 0.39 | 153.88 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 06/08/95 | 168.14 | 21.18 | 0.43 | 147.28 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 08/22/95 | 168.14 | 22.76 | 0.36 | 145.65 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 10/27/95 | 168.14 | 23.61 | 0.3 | 144.76 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 01/25/96 | 168.14 | 15.95 | 0.15 | 152.30 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 04/19/96 | 168.14 | 17.33 | 0.07 | 150.86 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 07/23/96 | 168.14 | 21.25 | 0.05 | 146.93 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 11/11/96 | 168.14 | 22.27 | 0.01 | 145.88 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 01/21/97 | 168.14 | 15.19 | 0.01 | 152.96 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 04/29/97 | 168.14 | 20.22 | 0.01 | 147.93 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 04/30/97 | 168.14 | --- | --- | --- | 130000 | 4600 | 15000 | 6000 | 37000 | ND<5000 | 5.0 | SPL |
| MW-2 | 08/21/97 | 168.14 | 21.74 | 0.01 | 146.41 | 110000 | 6000 | 16000 | 4700 | 28000 | ND<500 | 4.6 | SPL |
| MW-2 | 11/05/97 | 168.14 | 21.61 | 0.01 | 146.54 | 120000 | 7800 | 18000 | 4900 | 28100 | ND<2500 | 4.6 | SPL |
| MW-2 | 02/03/98 | 168.14 | 11.51 | --- | 156.63 | 75000 | 590 | 1500 | 1800 | 12800 | ND<2500 | 4.5 | SPL |
| MW-2 | 05/28/98 | 168.14 | 16.51 | --- | 151.63 | 79000 | 3900 | 3100 | 3100 | 18000 | 900 | 4.3 | SPL |
| MW-2 | 12/30/98 | 168.14 | 17.70 | --- | 150.44 | 95000 | 4700 | 3500 | 3700 | 21000 | ND<250 | --- | SPL |
| MW-2 | 02/02/99 | 168.14 | 15.46 | --- | 152.68 | 170000 | 3500 | 1500 | 5200 | 34000 | ND<500 | --- | SPL |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (a) (Feet) | DEPTH TO WATER (Feet) | PRODUCT THICKNESS (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ug/l) | B (ug/l) | T (ug/l) | E (ug/l) | X (ug/l) | MTBE (ug/l) | DO (ppm) | LAB |
|----------|------------------------------|-----------------------------|-----------------------|--------------------------|----------------------------------|--------------|----------|----------|----------|----------|-------------|----------|------|
| MW-3 | 07/09/90 | 167.17 | --- | --- | --- | 140 | 5.3 | 4.6 | 2.0 | 3.8 | --- | --- | --- |
| MW-3 | 12/21/90 | 167.17 | --- | --- | --- | 0.19 | 100 | 6.0 | 0.9 | 27 | --- | --- | --- |
| MW-3 | 03/07/91 | 167.17 | 17.40 | --- | 149.77 | 0.4 | 69 | 22 | 6.1 | 57 | --- | --- | --- |
| MW-3 | 06/27/91 | 167.17 | --- | --- | --- | 380 | 28 | 26 | 13 | 46 | --- | --- | --- |
| MW-3 | 09/27/91 | 167.17 | --- | --- | --- | 0.07 | 7.9 | ND | 0.4 | 1.1 | --- | --- | --- |
| MW-3 | 12/18/91 | 167.17 | --- | --- | --- | 0.26 | 34 | 24 | 0.8 | 28 | --- | --- | --- |
| MW-3 | 04/01/91 | 167.17 | 13.69 | --- | 153.48 | ND | ND | ND | ND | ND | --- | --- | --- |
| MW-3 | 07/03/92 | 167.17 | 19.59 | --- | 147.58 | 71 | 9.4 | 0.9 | 5.0 | 13 | --- | --- | ANA |
| MW-3 | 10/05/92 | 167.17 | 21.22 | --- | 145.95 | 67 | 5.1 | 1.1 | 6.1 | 8.1 | --- | --- | ANA |
| QC-1 (c) | 10/05/92 | --- | --- | --- | --- | ND<50 | 2.2 | ND<0.5 | 1.5 | 2.8 | --- | --- | ANA |
| MW-3 | 01/13/93 | 167.17 | 13.63 | --- | 153.54 | 830 | 50 | 34 | 42 | 89 | --- | --- | PACE |
| MW-3 | 04/23/93 | 167.17 | 15.02 | --- | 152.15 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-1 (c) | 04/23/93 | --- | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-3 | 07/12/93 | 167.17 | 19.16 | --- | 148.01 | 250 | 12 | 4.2 | 12 | 16 | --- | --- | PACE |
| MW-3 | 10/21/93 | 167.17 | 21.81 | --- | 145.36 | 52 | 4.4 | 1.4 | 4.7 | 3.3 | --- | --- | PACE |
| QC-1 (c) | 10/21/93 | --- | --- | --- | --- | 65 | 7.4 | 1.0 | 6.9 | 4.2 | --- | --- | PACE |
| MW-3 | 01/21/94 | 167.17 | 19.94 | --- | 147.23 | 57 | 3.0 | 3.4 | 3.6 | 9.0 | --- | --- | PACE |
| MW-3 | 04/20/94 | 167.17 | 20.24 | --- | 146.93 | 600 | 26 | 23 | 33 | 88 | --- | 1.8 | PACE |
| MW-3 | 08/01/94 | 167.17 | 20.74 | --- | 146.43 | 99 | 6.2 | 1.1 | 4.5 | 5.2 | --- | 1.4 | PACE |
| QC-1 (c) | 08/01/94 | --- | --- | --- | --- | 120 | 7.7 | 1.6 | 5.9 | 6.7 | --- | --- | PACE |
| MW-3 | 12/23/94 | 167.17 | 14.70 | --- | 152.47 | ND<50 | ND<0.5 | 0.78 | ND<0.5 | ND<0.5 | --- | 1.7 | PACE |
| QC-1 (c) | 12/23/94 | --- | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-3 | 01/26/95 | 167.17 | 12.89 | --- | 154.28 | 190 | 16 | 0.5 | 35 | 24 | --- | 6.6 | ATI |
| MW-3 | 06/08/95 | 167.17 | 19.95 | --- | 147.22 | 330 | 21 | 4.0 | 34 | 32 | --- | 7.0 | ATI |
| MW-3 | 08/22/95 | 167.17 | 21.41 | --- | 145.76 | 150 | 14 | ND<0.50 | ND<0.50 | 1.6 | ND<5.0 | (d) 6.6 | ATI |
| MW-3 | 10/27/95 | 167.17 | 22.43 | --- | 144.74 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-3 | 10/30/95 | 167.17 | --- | --- | --- | 51 | 2.4 | ND<0.50 | ND<0.50 | ND<1.0 | ND<5.0 | 6.9 | ATI |
| MW-3 | 01/25/96 | 167.17 | 14.03 | --- | 153.14 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 5.1 | --- | CEI |
| MW-3 | 04/19/96 | 167.17 | 15.26 | --- | 151.91 | 460 | 55 | 4 | 33 | 63 | ND<10 | 9.4 | SPL |
| MW-3 | 07/23/96 | 167.17 | 19.19 | --- | 147.98 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<10 | 9.2 | SPL |
| MW-3 | 11/11/96 | 167.17 | 20.24 | --- | 146.93 | ND<250 | ND<2.5 | ND<5.0 | ND<5.0 | ND<5.0 | ND<50 | 8.4 | SPL |
| MW-3 | 01/21/97 | 167.17 | 13.09 | --- | 154.08 | ND<50 | ND<0.5 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 5.4 | SPL |
| MW-3 | 04/29/97 | 167.17 | 18.14 | --- | 149.03 | ND<50 | ND<0.5 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 4.3 | SPL |
| MW-3 | 08/21/97 | 167.17 | 19.64 | --- | 147.53 | ND<50 | ND<0.5 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 4.9 | SPL |
| MW-3 | 11/05/97 | 167.17 | 19.95 | --- | 147.22 | ND<250 | ND<2.5 | ND<5.0 | ND<5.0 | ND<5.0 | ND<50 | 4.5 | SPL |
| MW-3 | 02/03/98 | 167.17 | 10.57 | --- | 156.60 | ND<50 | ND<0.50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 4.7 | SPL |
| MW-3 | 05/28/98 | 167.17 | 14.65 | --- | 152.52 | 330 | ND<2.5 | ND<5.0 | ND<5.0 | ND<5.0 | ND<50 | 4.2 | SPL |
| MW-3 | 12/30/98 | 167.17 | 16.63 | --- | 150.54 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-3 | 02/02/99 | 167.17 | 13.12 | --- | 154.05 | <250 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | --- | SPL |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (Feet) | DEPTH TO WATER (Feet) | PRODUCT THICKNESS (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ug/l) | B (ug/l) | T (ug/l) | E (ug/l) | X (ug/l) | MTBE (ug/l) | DO (ppm) | LAB |
|---------|------------------------------|-------------------------|-----------------------|--------------------------|----------------------------------|--------------|----------|----------|----------|----------|-------------|----------|------|
| MW-4 | 07/09/90 | 170.36 | --- | --- | --- | ND | ND | ND | ND | ND | --- | --- | --- |
| MW-4 | 12/21/90 | 170.36 | --- | --- | --- | ND | ND | ND | ND | 0.8 | --- | --- | --- |
| MW-4 | 03/07/91 | 170.36 | 20.72 | --- | 149.64 | ND | 2.2 | 3.8 | 1.5 | 2.8 | --- | --- | --- |
| MW-4 | 06/27/91 | 170.36 | --- | --- | --- | ND | 6.3 | 1.8 | 0.4 | 1.0 | --- | --- | --- |
| MW-4 | 09/27/91 | 170.36 | --- | --- | --- | ND | ND | ND | ND | ND | --- | --- | --- |
| MW-4 | 12/18/91 | 170.36 | --- | --- | --- | ND | ND | ND | ND | ND | --- | --- | --- |
| MW-4 | 04/01/91 | 170.36 | 17.49 | --- | 152.87 | ND | ND | ND | ND | ND | --- | --- | --- |
| MW-4 | 07/03/92 | 170.36 | 22.16 | --- | 148.20 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | ANA |
| MW-4 | 10/05/92 | 170.36 | 23.38 | --- | 146.98 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | ANA |
| MW-4 | 01/13/93 | 170.36 | 17.58 | --- | 152.78 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-4 | 04/23/93 | 170.36 | 15.72 | --- | 154.64 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-4 | 07/12/93 | 170.36 | 21.74 | --- | 148.62 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-4 | 10/21/93 | 170.36 | 23.84 | --- | 146.52 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-4 | 01/21/94 | 170.36 | 22.42 | --- | 147.94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-4 | 04/20/94 | 170.36 | 22.66 | --- | 147.70 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | 2.2 | PACE |
| MW-4 | 08/01/94 | 170.36 | 23.01 | --- | 147.35 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | 1.9 | PACE |
| MW-4 | 12/23/94 | 170.36 | 17.03 | --- | 153.33 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-4 | 01/26/95 | 170.36 | 17.42 | --- | 152.94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<1 | --- | 7.5 | ATI |
| MW-4 | 06/08/95 | 170.36 | 21.55 | --- | 148.81 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-4 | 08/22/95 | 170.36 | 23.47 | --- | 146.89 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<5.0 | (d) 6.4 | ATI |
| MW-4 | 10/27/95 | 170.36 | 24.50 | --- | 145.86 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-4 | 01/25/96 | 170.36 | 18.74 | --- | 151.62 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 58 | --- | CEI |
| MW-4 | 04/19/96 | 170.36 | 18.63 | --- | 151.73 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-4 | 07/23/96 | 170.36 | 22.56 | --- | 147.80 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-4 | 11/11/96 | 170.36 | 23.63 | --- | 146.73 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | 34 | 8.2 | SPL |
| MW-4 | 01/21/97 | 170.36 | 16.59 | --- | 153.77 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-4 | 04/29/97 | 170.36 | 21.43 | --- | 148.93 | ND<50 | ND<0.5 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 4.7 | SPL |
| MW-4 | 08/21/97 | 170.36 | 22.91 | --- | 147.45 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-4 | 11/05/97 | 170.36 | 22.34 | --- | 148.02 | 60 | ND<0.5 | ND<1.0 | ND<1.0 | ND<1.0 | 76 | 4.9 | SPL |
| MW-4 | 02/03/98 | 170.36 | 12.26 | --- | 158.10 | --- | --- | --- | --- | --- | --- | --- | SPL |
| MW-4 | 05/28/98 | 170.36 | 18.50 | --- | 151.86 | 70 | ND<0.5 | ND<1.0 | ND<1.0 | ND<1.0 | 160 | 4.2 | SPL |
| MW-4 | 12/30/98 | 170.36 | 19.69 | --- | 150.67 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-4 | 02/02/99 | 170.36 | 18.26 | --- | 152.10 | 70 | <1.0 | <1.0 | <1.0 | <1.0 | 130 | --- | SPL |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (Feet) | DEPTH TO WATER (Feet) | PRODUCT THICKNESS (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ug/l) | B (ug/l) | T (ug/l) | E (ug/l) | X (ug/l) | MTBE (ug/l) | DO (ppm) | LAB |
|----------|------------------------------|-------------------------|-----------------------|--------------------------|----------------------------------|--------------|----------|----------|----------|----------|-------------|----------|------|
| MW-5 | 07/09/90 | 165.14 | --- | --- | --- | 280 | 200 | 210 | 46 | 290 | --- | --- | --- |
| MW-5 | 12/21/90 | 165.14 | --- | --- | --- | 0.69 | 300 | 34 | 8.4 | 39 | --- | --- | --- |
| MW-5 | 03/07/91 | 165.14 | 16.60 | --- | 148.54 | ND | 17 | 0.9 | 0.7 | 1.6 | --- | --- | --- |
| MW-5 | 06/27/91 | 165.14 | --- | --- | --- | 330 | 120 | 10 | 12 | 8 | --- | --- | --- |
| MW-5 | 09/27/91 | 165.14 | --- | --- | --- | 0.73 | 230 | 16 | 20 | 22 | --- | --- | --- |
| MW-5 | 12/18/91 | 165.14 | --- | --- | --- | ND | ND | ND | ND | ND | --- | --- | --- |
| MW-5 | 04/01/91 | 165.14 | 11.99 | --- | 153.15 | 800 | 250 | 54 | 11 | 60 | --- | --- | --- |
| MW-5 | 07/03/92 | 165.14 | 18.65 | --- | 146.49 | 150 | 36 | ND<0.5 | ND<0.5 | 1.1 | --- | --- | ANA |
| MW-5 | 10/05/92 | 165.14 | 20.32 | --- | 144.82 | 270 | 79 | 4 | 1.7 | 2.9 | --- | --- | ANA |
| MW-5 | 01/13/93 | 165.14 | 13.03 | --- | 152.11 | 180 | 59 | 6.0 | 1.8 | 7.6 | --- | --- | PACE |
| MW-5 | 04/23/93 | 165.14 | 13.51 | --- | 151.63 | 8700 | 440 | 96 | 35 | 136 | --- | --- | PACE |
| MW-5 | 07/12/93 | 165.14 | 18.06 | --- | 147.08 | 250 | 57 | 2.9 | 2.1 | 6.0 | --- | --- | PACE |
| MW-5 | 10/21/93 | 165.14 | 20.41 | --- | 144.73 | 210 | 82 | 1.5 | ND<0.5 | 1.4 | --- | --- | PACE |
| MW-5 | 01/21/94 | 165.14 | 18.86 | --- | 146.28 | 110 | 36 | 1.2 | ND<0.5 | 0.7 | --- | --- | PACE |
| MW-5 | 04/20/94 | 165.14 | 17.30 | --- | 147.84 | 690 | 230 | 4.5 | 1.6 | 11 | --- | 1.3 | PACE |
| MW-5 | 08/01/94 | 165.14 | 17.53 | --- | 147.61 | 170 | 44 | 1.6 | 0.9 | 2.7 | --- | 0.9 | PACE |
| MW-5 | 12/23/94 | 165.14 | 11.63 | --- | 153.51 | 630 | 180 | 1.9 | 0.66 | 1.9 | --- | 1.4 | PACE |
| MW-5 | 01/26/95 | 165.14 | 11.25 | --- | 153.89 | 160 | 68 | ND<0.5 | ND<0.5 | 22 | --- | 5.9 | ATI |
| MW-5 | 06/08/95 | 165.14 | 16.80 | --- | 148.34 | 2000 | 630 | 58 | 61 | 180 | --- | 6.5 | ATI |
| QC-1 (c) | 06/08/95 | --- | --- | --- | --- | 1700 | 560 | 51 | 55 | 170 | --- | --- | ATI |
| MW-5 | 08/22/95 | 165.14 | 19.02 | --- | 146.12 | 3700 | 1100 | 18 | 27 | 59 | ND<130 | (d) 7.3 | ATI |
| MW-5 | 10/27/95 | 165.14 | 20.94 | --- | 144.20 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-5 | 10/30/95 | 165.14 | --- | --- | --- | 6500 | 2200 | 55 | 180 | 270 | ND<250 | 7.5 | ATI |
| MW-5 | 01/25/96 | 165.14 | 13.30 | --- | 151.84 | 590 | 37 | 0.70 | ND<0.50 | ND<1.0 | ND<5.0 | --- | CEI |
| QC-1 (c) | 01/25/96 | --- | --- | --- | --- | 540 | 37 | 0.66 | ND<0.50 | ND<1.0 | ND<5.0 | --- | CEI |
| MW-5 | 04/19/96 | 165.14 | 13.63 | --- | 151.51 | 1500 | 470 | 38 | 49 | 210 | ND<50 | 8.1 | SPL |
| MW-5 | 07/23/96 | 165.14 | 17.61 | --- | 147.53 | 140 | 4.6 | ND<0.5 | ND<0.5 | ND<0.5 | ND<10 | 8.0 | SPL |
| MW-5 | 11/11/96 | 165.14 | 18.70 | --- | 146.44 | 140 | 40 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 7.9 | SPL |
| MW-5 | 01/21/97 | 165.14 | 11.63 | --- | 153.51 | 730 | 300 | ND<5.0 | 7.8 | 26 | ND<50 | 5.0 | SPL |
| MW-5 | 04/29/97 | 165.14 | 16.74 | --- | 148.40 | 340 | 530 | ND<5.0 | ND<5.0 | ND<5.0 | ND<50 | 4.8 | SPL |
| MW-5 | 08/21/97 | 165.14 | 18.26 | --- | 146.88 | ND<50 | ND<0.5 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 4.9 | SPL |
| MW-5 | 11/05/97 | 165.14 | 18.84 | --- | 146.30 | 120 | 13 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 4.4 | SPL |
| MW-5 | 02/03/98 | 165.14 | 9.49 | --- | 155.65 | ND<50 | ND<0.50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 4.3 | SPL |
| MW-5 | 05/28/98 | 165.14 | 13.57 | --- | 151.57 | 4900 | 1500 | 34 | 180 | 311 | ND<10 | 4.1 | SPL |
| MW-5 | 12/30/98 | 165.14 | 14.65 | --- | 150.49 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-5 | 02/02/99 | 165.14 | 12.56 | --- | 152.58 | 100 | <1.0 | <1.0 | <1.0 | <1.0 | 9.1 | --- | SPL |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (a) (Feet) | DEPTH TO WATER (Feet) | PRODUCT THICKNESS (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ug/l) | B (ug/l) | T (ug/l) | E (ug/l) | X (ug/l) | MTBE (ug/l) | DO (ppm) | LAB |
|----------|------------------------------|-----------------------------|-----------------------|--------------------------|----------------------------------|--------------|----------|----------|----------|----------|-------------|----------|------|
| MW-6 | 07/09/90 | 165.4 | --- | --- | --- | ND | ND | ND | ND | ND | --- | --- | --- |
| MW-6 | 12/21/90 | 165.4 | --- | --- | --- | 0.17 | 2.6 | 7.0 | 4.9 | 26 | --- | --- | --- |
| MW-6 (e) | 03/07/91 | 165.4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-6 (e) | 06/27/91 | 165.4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-6 (e) | 09/27/91 | 165.4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-6 | 12/18/91 | 165.4 | --- | --- | --- | ND | 1.3 | 22 | ND | 2.7 | --- | --- | --- |
| MW-6 | 04/01/91 | 165.4 | 11.79 | --- | 153.61 | ND | ND | ND | ND | ND | --- | --- | --- |
| MW-6 | 07/03/92 | 165.4 | 17.77 | --- | 147.63 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | ANA |
| MW-6 | 10/05/92 | 165.4 | 19.46 | --- | 145.94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | ANA |
| MW-6 | 01/13/93 | 165.4 | 11.34 | --- | 154.06 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-6 | 04/23/93 | 165.4 | 12.92 | --- | 152.48 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-6 | 07/12/93 | 165.4 | 17.36 | --- | 148.04 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | 0.7 | --- | --- | PACE |
| MW-6 | 10/21/93 | 165.4 | 19.98 | --- | 145.42 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-6 | 01/21/94 | 165.4 | 18.10 | --- | 147.30 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-6 | 04/20/94 | 165.4 | 18.68 | --- | 146.72 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | 2.0 | PACE |
| MW-6 | 08/01/94 | 165.4 | 18.90 | --- | 146.50 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | 1.5 | PACE |
| MW-6 | 12/23/94 | 165.4 | 12.94 | --- | 152.46 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-6 | 01/26/95 | 165.4 | 10.46 | --- | 154.94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<1 | --- | 7.3 | ATI |
| MW-6 | 06/08/95 | 165.4 | 16.84 | --- | 148.56 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-6 | 08/22/95 | 165.4 | 19.48 | --- | 145.92 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<5.0 | (d) 6.7 | ATI |
| MW-6 | 10/27/95 | 165.4 | 20.39 | --- | 145.01 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-6 | 01/25/96 | 165.4 | 12.24 | --- | 153.16 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 9.9 | --- | CEI |
| MW-6 | 04/19/96 | 165.4 | 13.90 | --- | 151.50 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-6 | 07/23/96 | 165.4 | 17.83 | --- | 147.57 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-6 | 11/11/96 | 165.4 | 18.90 | --- | 146.50 | ND<50 | ND<0.5 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 7.7 | SPL |
| MW-6 | 01/21/97 | 165.4 | 11.97 | --- | 153.43 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-6 | 04/29/97 | 165.4 | 17.04 | --- | 148.36 | ND<50 | ND<0.5 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 4.5 | SPL |
| MW-6 | 08/21/97 | 165.4 | 18.58 | --- | 146.82 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-6 | 11/05/97 | 165.4 | 19.17 | --- | 146.23 | 70 | ND<0.5 | ND<1.0 | ND<1.0 | ND<1.0 | 85 | 4.3 | SPL |
| MW-6 | 02/03/98 | 165.4 | 9.87 | --- | 155.53 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-6 | 05/28/98 | 165.4 | 13.38 | --- | 152.02 | ND<50 | ND<0.5 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 3.7 | SPL |
| MW-6 | 12/30/98 | 165.4 | 14.45 | --- | 150.95 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-6 | 02/02/99 | 165.4 | 18.29 | --- | 147.11 | --- | --- | --- | --- | --- | --- | --- | --- |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (a) (Feet) | DEPTH TO WATER (Feet) | PRODUCT THICKNESS (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ug/l) | B (ug/l) | T (ug/l) | E (ug/l) | X (ug/l) | MTBE (ug/l) | DO (ppm) | LAB |
|----------|------------------------------|-----------------------------|-----------------------|--------------------------|----------------------------------|--------------|----------|----------|----------|----------|-------------|----------|------|
| MW-7 | 07/09/90 | 167.61 | --- | --- | --- | ND | ND | ND | ND | ND | --- | --- | --- |
| MW-7 | 12/21/90 | 167.61 | --- | --- | --- | ND | ND | ND | ND | ND | --- | --- | --- |
| MW-7 | 03/07/91 | 167.61 | 19.04 | --- | 148.57 | ND | ND | 0.4 | 0.3 | 2.4 | --- | --- | --- |
| MW-7 | 06/27/91 | 167.61 | --- | --- | --- | 70 | 17 | 4 | 0.8 | 2.2 | --- | --- | --- |
| MW-7 | 09/27/91 | 167.61 | --- | --- | --- | ND | 0.4 | ND | ND | 0.4 | --- | --- | --- |
| MW-7 | 12/18/91 | 167.61 | --- | --- | --- | ND | 0.7 | 2.9 | 0.8 | 3.3 | --- | --- | --- |
| MW-7 | 04/01/91 | 167.61 | 15.18 | --- | 152.43 | ND | ND | ND | ND | ND | --- | --- | --- |
| MW-7 | 07/03/92 | 167.61 | 20.28 | --- | 147.33 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | ANA |
| MW-7 | 10/05/92 | 167.61 | 21.56 | --- | 146.05 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | 1.5 | --- | --- | ANA |
| MW-7 | 01/13/93 | 167.61 | 15.41 | --- | 152.20 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-7 | 04/23/93 | 167.61 | 15.84 | --- | 151.77 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-7 | 07/12/93 | 167.61 | 19.84 | --- | 147.77 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-7 | 10/21/93 | 167.61 | 21.61 | --- | 146.00 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-7 | 01/21/94 | 167.61 | 20.49 | --- | 147.12 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-1 (c) | 01/21/94 | --- | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-7 | 04/20/94 | 167.61 | 20.54 | --- | 147.07 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | 1.5 | PACE |
| MW-7 | 08/01/94 | 167.61 | 20.99 | --- | 146.62 | ND<50 | 0.7 | ND<0.5 | ND<0.5 | ND<0.5 | --- | 1.9 | PACE |
| MW-7 | 12/23/94 | 167.61 | 15.00 | --- | 152.61 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-7 | 01/26/95 | 167.61 | 14.69 | --- | 152.92 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<1 | --- | 7.0 | ATI |
| MW-7 | 06/08/95 | 167.61 | 19.87 | --- | 147.74 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-7 | 08/22/95 | 167.61 | 21.49 | --- | 146.12 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<5.0 (d) | 6.4 | ATI |
| MW-7 | 10/27/95 | 167.61 | 22.53 | --- | 145.08 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-7 | 01/25/96 | 167.61 | 17.21 | --- | 150.40 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<5.0 | --- | CEI |
| MW-7 | 04/19/96 | 167.61 | 17.09 | --- | 150.52 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-7 | 07/23/96 | 167.61 | 21.02 | --- | 146.59 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-7 | 11/11/96 | 167.61 | 22.03 | --- | 145.58 | ND<50 | ND<0.5 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 7.8 | SPL |
| MW-7 | 01/21/97 | 167.61 | 15.06 | --- | 152.55 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-7 | 04/29/97 | 167.61 | 20.11 | --- | 147.50 | ND<50 | ND<0.5 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 4.4 | SPL |
| MW-7 | 08/21/97 | 167.61 | 21.59 | --- | 146.02 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-7 | 11/05/97 | 167.61 | 20.05 | --- | 147.56 | ND<50 | ND<0.5 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 4.4 | SPL |
| MW-7 | 02/03/98 | 167.61 | 9.97 | --- | 157.64 | --- | --- | --- | --- | --- | --- | --- | SPL |
| MW-7 | 05/28/98 | 167.61 | 13.52 | --- | 154.09 | ND<50 | ND<0.5 | ND<1.0 | ND<1.0 | ND<1.0 | ND<10 | 4.3 | SPL |
| MW-7 | 12/30/98 | 167.61 | 18.33 | --- | 149.28 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-7 | 02/02/99 | 167.61 | 12.33 | --- | 149.28 | --- | --- | --- | --- | --- | --- | --- | --- |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (a) (Feet) | DEPTH TO WATER (Feet) | PRODUCT THICKNESS (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ug/l) | B (ug/l) | T (ug/l) | E (ug/l) | X (ug/l) | MTBE (ug/l) | DO (ppm) | LAB |
|----------|------------------------------|-----------------------------|-----------------------|--------------------------|----------------------------------|--------------|----------|----------|----------|----------|-------------|----------|------|
| MW-8 | 03/07/91 | 165.74 | 16.72 | --- | 149.02 | 2.7 | 780 | 450 | 64 | 310 | --- | --- | --- |
| MW-8 | 06/27/91 | 165.74 | --- | --- | --- | 12000 | 3400 | 1100 | 240 | 750 | --- | --- | --- |
| MW-8 | 09/27/91 | 165.74 | --- | --- | --- | 41 | 5700 | 5200 | 1100 | 4300 | --- | --- | --- |
| MW-8 | 12/18/91 | 165.74 | --- | --- | --- | 3.2 | 990 | 150 | 120 | 250 | --- | --- | --- |
| MW-8 | 04/01/91 | 165.74 | 12.54 | --- | 153.20 | 15000 | 3600 | 2600 | 410 | 1900 | --- | --- | --- |
| MW-8 | 07/03/92 | 165.74 | 18.78 | --- | 146.96 | 72000 | 19000 | 32000 | 3000 | 15000 | --- | --- | ANA |
| MW-8 | 10/05/92 | 165.74 | 20.48 | 0.01 | 145.27 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 01/13/93 | 165.74 | 12.87 | 0.01 | 152.88 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 04/23/93 | 165.74 | 13.90 | SHEEN | 151.84 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 07/12/93 | 165.74 | 18.30 | SHEEN | 147.44 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 10/21/93 | 165.74 | 21.91 | 0.95 | 144.54 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 01/21/94 | 165.74 | 19.12 | 0.03 | 146.64 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 04/20/94 | 165.74 | 19.28 | 0.03 | 146.48 | 26000 | 1700 | 4100 | 960 | 4000 | --- | 1.1 | PACE |
| MW-8 | 08/01/94 | 165.74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 12/23/94 | 165.74 | 13.81 | 0.03 | 151.95 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 01/26/95 | 165.74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 06/08/95 | 165.74 | 17.82 | 0.29 | 148.14 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 08/22/95 | 165.74 | 19.41 | 0.2 | 146.48 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 10/27/95 | 165.74 | 20.47 | 0.14 | 145.38 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 01/25/96 | 165.74 | 13.35 | 0.22 | 152.56 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 04/19/96 | 165.74 | 14.40 | 0.2 | 151.49 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 07/23/96 | 165.74 | 18.35 | 0.14 | 147.50 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 11/11/96 | 165.74 | 19.41 | 0.02 | 146.35 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 01/21/97 | 165.74 | 12.29 | 0.01 | 153.46 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 (e) | 04/29/97 | 165.74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 08/21/97 | 165.74 | 19.61 | --- | 146.13 | 240000 | 1100 | 9300 | 4100 | 31100 | ND<1000 | 5.2 | SPL |
| MW-8 | 11/05/97 | 165.74 | 19.45 | 0.1 | 146.37 | 57000 | 790 | 2700 | 2300 | 15200 | ND<1000 | 5.0 | SPL |
| MW-8 | 02/03/98 | 165.74 | 9.33 | 0.03 | 156.43 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 02/04/98 | --- | --- | --- | --- | 94000 | 570 | 1500 | 2100 | 15200 | ND<2500 | 5.5 | SPL |
| MW-8 (e) | 05/28/98 | 165.74 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-8 | 12/30/98 | 165.74 | 15.48 | 0.05 | 150.30 | 120000 | 460 | 2300 | 2200 | 15000 | 150 | --- | SPL |
| MW-8 | 02/02/99 | 165.74 | 18.29 | -- | 147.45 | 82000 | 450 | 2200 | 3700 | 26000 | ND<500 | --- | SPL |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (a) (Feet) | DEPTH TO WATER (Feet) | PRODUCT THICKNESS (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ug/l) | B (ug/l) | T (ug/l) | E (ug/l) | X (ug/l) | MTBE (ug/l) | DO (ppm) | LAB |
|----------|------------------------------|-----------------------------|-----------------------|--------------------------|----------------------------------|--------------|----------|----------|----------|----------|-------------|----------|------|
| MW-9 | 03/07/91 | 166.20 | 16.79 | --- | 149.41 | 7.1 | 220 | 4 | 2.4 | 2400 | --- | --- | --- |
| MW-9 | 06/27/91 | 166.20 | --- | --- | --- | 3600 | 520 | 400 | 85 | 310 | --- | --- | --- |
| MW-9 | 09/27/91 | 166.20 | --- | --- | --- | 3.2 | 720 | 150 | 50 | 180 | --- | --- | --- |
| MW-9 | 12/18/91 | 166.20 | --- | --- | --- | ND | 2.5 | 1.1 | 0.3 | 5.8 | --- | --- | --- |
| MW-9 | 04/01/91 | 166.20 | 12.89 | --- | 153.31 | 12000 | 2000 | 2600 | 360 | 1600 | --- | --- | --- |
| MW-9 | 07/03/92 | 166.20 | 18.89 | --- | 147.31 | 5700 | 17000 | 840 | 230 | 800 | --- | --- | ANA |
| MW-9 | 10/05/92 | 166.20 | 20.52 | --- | 145.68 | 1400 | 440 | 17 | 14 | 100 | --- | --- | ANA |
| MW-9 | 01/13/93 | 166.20 | 12.92 | --- | 153.28 | 11000 | 1200 | 1700 | 340 | 1400 | --- | --- | PACE |
| QC-1 (c) | 01/13/93 | --- | --- | --- | --- | 11000 | 1200 | 1600 | 330 | 1300 | --- | --- | PACE |
| MW-9 | 04/23/93 | 166.20 | 14.08 | --- | 152.12 | 24000 | 2800 | 4500 | 730 | 3400 | --- | --- | PACE |
| MW-9 | 07/12/93 | 166.20 | 18.44 | --- | 147.76 | 13000 | 1400 | 1100 | 360 | 1400 | --- | --- | PACE |
| QC-1 (c) | 07/12/93 | --- | --- | --- | --- | 10000 | 1200 | 900 | 310 | 1200 | --- | --- | PACE |
| MW-9 | 10/21/93 | 166.20 | 21.81 | 0.89 | 145.06 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 | 01/21/94 | 166.20 | 19.28 | --- | 146.92 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 | 04/20/94 | 166.20 | 19.72 | --- | 146.48 | 43000 | 2800 | 6800 | 1300 | 7900 | --- | 1.7 | PACE |
| QC-1 (c) | 04/20/94 | --- | --- | --- | --- | 45000 | 2700 | 6800 | 1200 | 8200 | 740 (d) | --- | PACE |
| MW-9 | 08/01/94 | 166.20 | 20.18 | 0.05 | 146.06 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 | 12/23/94 | 166.20 | 14.22 | 0.02 | 152.00 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 | 01/26/95 | 166.20 | 11.85 | 0.13 | 154.45 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 | 06/08/95 | 166.20 | 18.33 | 0.8 | 148.47 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 | 08/22/95 | 166.20 | 19.95 | 0.01 | 146.26 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 | 10/27/95 | 166.20 | 20.88 | 0.01 | 145.33 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 | 01/25/96 | 166.20 | 13.84 | 0.07 | 152.41 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 (e) | 04/19/96 | 166.20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 | 07/23/96 | 166.20 | 18.84 | 0.03 | 147.38 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 | 11/11/96 | 166.20 | 19.91 | 0.01 | 146.30 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 | 01/21/97 | 166.20 | 12.93 | 0.01 | 153.28 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 | 04/29/97 | 166.20 | 18.03 | SHEEN | 148.17 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-9 | 04/30/97 | 166.20 | --- | --- | --- | 78000 | 1900 | 3600 | 3100 | 20600 | ND<5000 | 5.5 | SPL |
| MW-9 | 08/21/97 | 166.20 | 19.56 | 0.01 | 146.65 | 110000 | 2100 | 3400 | 2300 | 18800 | ND<500 | 5.1 | SPL |
| MW-9 | 11/05/97 | 166.20 | 20.59 | 0.01 | 145.62 | 59000 | 1400 | 1700 | 2200 | 17000 | ND<500 | 4.5 | SPL |
| MW-9 | 02/03/98 | 166.20 | 10.56 | --- | 155.64 | 55000 | 490 | 1200 | 1400 | 10200 | ND<1000 | 4.9 | SPL |
| MW-9 | 05/28/98 | 166.20 | 14.21 | 0.01 | 152.00 | 41000 | 250 | 1200 | 1500 | 11400 | ND<250 | 3.8 | SPL |
| QC-1 (c) | 05/28/98 | --- | --- | --- | --- | 53000 | 290 | 830 | 1400 | 10500 | ND<500 | --- | SPL |
| MW-9 | 12/30/98 | 166.20 | 15.61 | --- | 150.59 | 83000 | 860 | 1300 | 2400 | 21000 | 180 | --- | SPL |
| MW-9 | 02/02/99 | 166.20 | 12.33 | --- | 153.87 | 75000 | 530 | 960 | 1900 | 17000 | ND<50 | --- | SPL |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (a) (Feet) | DEPTH TO WATER (Feet) | PRODUCT THICKNESS (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ug/l) | B (ug/l) | T (ug/l) | E (ug/l) | X (ug/l) | MTBE (ug/l) | DO (ppm) | LAB | |
|---------|------------------------------|-----------------------------|-----------------------|--------------------------|----------------------------------|--------------|----------|----------|----------|----------|-------------|----------|-----|------|
| MW-10 | 03/07/91 | 167.01 | 18.09 | --- | 148.92 | 1.6 | 120 | 190 | 32 | 230 | --- | --- | --- | |
| MW-10 | 06/27/91 | 167.01 | --- | --- | --- | 12000 | 7300 | 500 | 150 | 300 | --- | --- | --- | |
| MW-10 | 09/27/91 | 167.01 | --- | --- | --- | 57 | 12000 | 7200 | 1400 | 4600 | --- | --- | --- | |
| MW-10 | 12/18/91 | 167.01 | --- | --- | --- | 5.3 | 2500 | 120 | 36 | 79 | --- | --- | --- | |
| MW-10 | 04/01/91 | 167.01 | 13.92 | --- | 153.09 | ND | ND | ND | ND | ND | --- | --- | --- | |
| MW-10 | 07/03/92 | 167.01 | 19.92 | --- | 147.09 | 8600 | 5100 | 1300 | 180 | 690 | --- | --- | ANA | |
| MW-10 | 10/05/92 | 167.01 | 21.92 | 0.19 | 145.23 | --- | --- | --- | --- | --- | --- | --- | --- | |
| MW-10 | 01/13/93 | 167.01 | 14.43 | 0.03 | 152.60 | --- | --- | --- | --- | --- | --- | --- | --- | |
| MW-10 | 04/23/93 | 167.01 | 15.26 | 0.06 | 151.80 | --- | --- | --- | --- | --- | --- | --- | --- | |
| MW-10 | 07/12/93 | 167.01 | 19.78 | 0.45 | 147.57 | --- | --- | --- | --- | --- | --- | --- | --- | |
| MW-10 | 10/21/93 | 167.01 | 22.90 | 0.69 | 144.63 | --- | --- | --- | --- | --- | --- | --- | --- | |
| MW-10 | 01/21/94 | 167.01 | 20.25 | 0.06 | 146.81 | --- | --- | --- | --- | --- | --- | --- | --- | |
| MW-10 | 04/20/94 | 167.01 | 20.74 | --- | 146.27 | 100000 | 12000 | 24000 | 2400 | 14000 | 1600 | (d) | 1.0 | PACE |
| MW-10 | 08/01/94 | 167.01 | 22.00 | 0.28 | 145.22 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-10 | 12/23/94 | 167.01 | 16.08 | 0.25 | 151.12 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-10 | 01/26/95 | 167.01 | 13.68 | 0.8 | 153.93 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-10 | 06/08/95 | 167.01 | 19.08 | 0.75 | 148.49 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-10 | 08/22/95 | 167.01 | 20.73 | 0.7 | 146.81 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-10 | 10/27/95 | 167.01 | 21.69 | 0.63 | 145.79 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-10 | 01/25/96 | 167.01 | 15.05 | 0.81 | 152.57 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-10 | 04/19/96 | 167.01 | 16.26 | 0.58 | 151.19 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-10 | 07/23/96 | 167.01 | 20.18 | 0.62 | 147.30 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-10 | 11/11/96 | 167.01 | 21.20 | 0.2 | 145.96 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-10 | 01/21/97 | 167.01 | 13.66 | 0.14 | 153.46 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-10 | 04/29/97 | 167.01 | 18.71 | 0.21 | 148.46 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-10 | 04/30/97 | 167.01 | --- | --- | --- | 170000 | 9700 | 38000 | 4700 | 30500 | ND<5000 | 5.6 | SPL | |
| MW-10 | 08/21/97 | 167.01 | 20.19 | 0.14 | 146.93 | 170000 | 9500 | 35000 | 4300 | 27100 | ND<5000 | 5.3 | SPL | |
| MW-10 | 11/05/97 | 167.01 | 20.52 | 0.02 | 146.51 | 80000 | 3800 | 12000 | 2700 | 15700 | ND<500 | 4.4 | SPL | |
| MW-10 | 02/03/98 | 167.01 | 10.62 | 0.01 | 156.40 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-10 | 02/04/98 | --- | --- | --- | --- | 72000 | 500 | 1300 | 1700 | 12000 | ND<1000 | 5.1 | SPL | |
| MW-10 | 05/28/98 | 167.01 | 15.46 | --- | 151.55 | 220000 | 3200 | 24000 | 5200 | 43000 | ND<1000 | 4.8 | SPL | |
| MW-10 | 12/30/98 | 167.01 | 16.65 | --- | 150.36 | 110000 | 3500 | 14000 | 5800 | 50000 | ND<50 | --- | SPL | |
| MW-10 | 02/02/99 | 167.01 | 14.58 | --- | 152.43 | 74000 | 1000 | 2800 | 1000 | 26000 | 860 | --- | SPL | |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (a) (Feet) | DEPTH TO WATER (Feet) | PRODUCT THICKNESS (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ug/l) | B (ug/l) | T (ug/l) | E (ug/l) | X (ug/l) | MTBE (ug/l) | DO (ppm) | LAB | |
|----------|------------------------------|-----------------------------|-----------------------|--------------------------|----------------------------------|--------------|----------|----------|----------|----------|-------------|----------|-----|------|
| RW-1 | 07/09/90 | 168.01 | --- | 1.21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| RW-1 | 12/21/90 | 168.01 | --- | 0.01 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| RW-1 | 03/07/91 | 168.01 | 17.62 | SHEEN | 150.39 | --- | --- | --- | --- | --- | --- | --- | --- | |
| RW-1 | 06/27/91 | 168.01 | --- | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| RW-1 | 09/27/91 | 168.01 | --- | 0.02 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| RW-1 | 12/18/91 | 168.01 | --- | 0.02 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| RW-1 | 04/01/91 | 168.01 | 14.40 | 0.11 | 153.69 | --- | --- | --- | --- | --- | --- | --- | --- | |
| RW-1 | 07/03/92 | 168.01 | 20.66 | SHEEN | 147.35 | --- | --- | --- | --- | --- | --- | --- | --- | |
| RW-1 | 10/05/92 | 168.01 | 23.34 | 0.08 | 144.73 | --- | --- | --- | --- | --- | --- | --- | --- | |
| RW-1 | 01/13/93 | 168.01 | 16.59 | 0.05 | 151.46 | --- | --- | --- | --- | --- | --- | --- | --- | |
| RW-1 | 04/23/93 | 168.01 | 16.17 | 0.18 | 151.98 | --- | --- | --- | --- | --- | --- | --- | --- | |
| RW-1 | 07/12/93 | 168.01 | 20.18 | 0.06 | 147.88 | --- | --- | --- | --- | --- | --- | --- | --- | |
| RW-1 | 10/21/93 | 168.01 | 25.70 | 0.56 | 142.73 | --- | --- | --- | --- | --- | --- | --- | --- | |
| RW-1 | 01/21/94 | 168.01 | 21.24 | 0.4 | 147.07 | --- | --- | --- | --- | --- | --- | --- | --- | |
| RW-1 | 04/20/94 | 168.01 | 32.20 | --- | 135.81 | --- | --- | --- | --- | --- | --- | --- | --- | |
| RW-1 | 08/01/94 | 168.01 | 21.70 | --- | 146.31 | 29000 | 580 | 950 | 300 | 7800 | 1200 | (d) | 1.1 | PACE |
| RW-1 | 12/23/94 | 168.01 | 16.02 | --- | 151.99 | 1300 | 25 | 8.6 | 1.4 | 69 | --- | --- | 1.8 | PACE |
| RW-1 | 01/26/95 | 168.01 | 13.78 | --- | 154.23 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<1 | --- | --- | --- | ATI |
| QC-1 (c) | 01/26/95 | --- | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<1 | --- | --- | --- | ATI |
| RW-1 | 06/08/95 | 168.01 | 20.05 | --- | 147.96 | 1300 | 130 | ND<1.0 | ND<1.0 | 36 | --- | --- | --- | ATI |
| RW-1 | 08/22/95 | 168.01 | 21.74 | --- | 146.27 | 3300 | 230 | 13 | 4.9 | 280 | ND<25 | (d) | 6.6 | ATI |
| QC-1 (c) | 08/22/95 | --- | --- | --- | --- | 2800 | 210 | 9.3 | 4.3 | 250 | ND<25 | (d) | --- | ATI |
| RW-1 | 10/27/95 | 168.01 | 32.00 | --- | 136.01 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| RW-1 | 10/30/95 | 168.01 | --- | --- | --- | 230 | 1.4 | ND<1.0 | ND<1.0 | ND<2.0 | 650 | --- | 6.9 | ATI |
| QC-1 (c) | 10/30/95 | --- | --- | --- | --- | 240 | 1.6 | ND<1.0 | ND<1.0 | ND<2.0 | 630 | --- | --- | ATI |
| RW-1 | 01/25/96 | 168.01 | 15.41 | --- | 152.60 | 15000 | 3400 | 930 | 330 | 2500 | 5300 | --- | --- | CEI |
| RW-1 | 04/19/96 | 168.01 | 16.83 | --- | 151.18 | 35000 | 5500 | 3300 | 1700 | 9400 | 14000 | --- | 7.6 | SPL |
| QC-1 (c) | 04/19/96 | --- | --- | --- | --- | 33000 | 5600 | 3200 | 1700 | 8800 | 15000 | --- | --- | SPL |
| RW-1 | 07/23/96 | 168.01 | 20.76 | --- | 147.25 | 46000 | 3600 | 2300 | 900 | 5100 | 36000 | --- | 7.4 | SPL |
| QC-1 (c) | 07/23/96 | --- | --- | --- | --- | 47000 | 3700 | 2500 | 930 | 5300 | 35000 | --- | --- | SPL |
| RW-1 | 11/11/96 | 168.01 | 21.73 | --- | 146.28 | 34000 | 3000 | 1200 | 880 | 4600 | 22000 | --- | 8.3 | SPL |
| QC-1 (c) | 11/11/96 | --- | --- | --- | --- | 31000 | 2900 | 1000 | 860 | 4600 | 22000 | --- | --- | SPL |
| RW-1 | 01/21/97 | 168.01 | 14.20 | --- | 153.81 | 260 | 40 | 16 | 2.7 | 34 | 1500 | --- | 6.1 | SPL |
| QC-1 (c) | 01/21/97 | --- | --- | --- | --- | 270 | 42 | 17 | 2.7 | 36 | 1500 | --- | --- | SPL |
| RW-1 | 04/29/97 | 168.01 | 19.15 | --- | 148.86 | 32000 | 3100 | 590 | 1300 | 6000 | 46000 | --- | 5.3 | SPL |
| RW-1 | 08/21/97 | 168.01 | 20.67 | --- | 147.34 | 7600 | 730 | 58 | 370 | 1780 | 9500 | --- | 4.7 | SPL |
| RW-1 | 11/05/97 | 168.01 | 21.01 | --- | 147.00 | 39000 | 2300 | 86 | 1300 | 3840 | 56000 | --- | 4.5 | SPL |
| RW-1 | 02/03/98 | 168.01 | 10.68 | --- | 157.33 | 3400 | 31 | 11 | 29 | 161 | 3200 | --- | 5.1 | SPL |
| RW-1 | 05/28/98 | 168.01 | 15.55 | --- | 152.46 | 2000 | 90 | 15 | 60 | 305 | 2700 | --- | 4.3 | SPL |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (a) (Feet) | DEPTH TO WATER (Feet) | PRODUCT THICKNESS (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ug/l) | B (ug/l) | T (ug/l) | E (ug/l) | X (ug/l) | MTBE (ug/l) | DO (ppm) | LAB |
|----------|------------------------------|-----------------------------|-----------------------|--------------------------|----------------------------------|--------------|----------|----------|----------|----------|-----------------|----------|------|
| RW-1 | 12/30/98 | 168.01 | 17.35 | --- | 150.66 | --- | --- | --- | --- | --- | --- | --- | --- |
| RW-1 | 02/02/99 | 168.01 | 14.58 | --- | 153.43 | 82000 | 2300 | 120 | 2000 | 3200 | 51000/78000 (g) | --- | SPL |
| QC-2 (f) | 10/05/92 | --- | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | ANA |
| QC-2 (f) | 01/13/93 | --- | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-2 (f) | 04/23/93 | --- | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-2 (f) | 07/12/93 | --- | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-2 (f) | 10/21/93 | --- | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-2 (f) | 01/21/94 | --- | --- | --- | --- | ND<50 | ND<0.5 | 2.1 | ND<0.5 | 2.1 | --- | --- | PACE |
| QC-2 (f) | 04/20/94 | --- | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-2 (f) | 04/20/94 | --- | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-2 (f) | 12/23/94 | --- | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | ATI |
| QC-2 (f) | 01/26/95 | --- | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<1 | --- | --- | ATI |
| QC-2 (f) | 06/08/95 | --- | --- | --- | --- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | --- | ATI |
| QC-2 (f) | 08/22/95 | --- | --- | --- | --- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<5.0 (d) | --- | ATI |
| QC-2 (f) | 10/30/95 | --- | --- | --- | --- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<5.0 | --- | ATI |
| QC-2 (f) | 01/25/96 | --- | --- | --- | --- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<5.0 | --- | CEI |
| QC-2 (f) | 04/19/96 | --- | --- | --- | --- | ND<50 | ND<0.5 | ND<1 | ND<1 | ND<1 | ND<10 | --- | SPL |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline
 B Benzene
 T Toluene
 E Ethylbenzene
 X Total xylenes
 MTBE Methyl tert butyl ether
 DO Dissolved oxygen
 ug/l Micrograms per liter
 ppm Parts per million
 --- Not analyzed/available/applicable/measurable
 ND Not detected above reported detection limit
 PACE Pace, Inc.
 ANA Anametrix, Inc.
 ATI Analytical Technologies, Inc.
 CEI Ceimic Corporation
 SPL Southern Petroleum Laboratories

NOTES:

- (a) Casing elevations surveyed to the nearest 0.01 foot relative to mean sea level.
- (b) Groundwater elevations adjusted assuming a specific gravity of 0.75 for free product.
- (c) Blind duplicate.
- (d) A copy of the documentation for this data is included in Alisto report 10-024-10-001.
- (e) Well inaccessible.
- (f) Travel blank
- (g) EPA Methods 8020/8260 used.

TABLE 2 - PRODUCT REMOVAL STATUS

| WELL ID | DATE | PRODUCT THICKNESS (Feet) | PRODUCT REMOVED (Gallons) | PRODUCT REMOVED CUMULATIVE (Gallons) |
|----------|----------|--------------------------|---------------------------|--------------------------------------|
| MW-1 | 01/26/95 | 1.1 | 3.00 | 3.00 |
| | 06/08/95 | 1.2 | 0.60 | 3.60 |
| | 06/28/95 | --- | 0.10 | 3.70 |
| | 08/22/95 | 0.85 | 0.15 | 3.85 |
| | 10/30/95 | 0.69 | 0.11 | 3.96 |
| | 01/25/96 | 1.4 | 1.00 | 4.96 |
| | 02/16/96 | --- | 0.08 | 5.04 |
| | 04/19/96 | 1.22 | 0.75 | 5.79 |
| | 07/23/96 | 0.89 | 0.00 | 5.79 |
| | 11/11/96 | 0.98 | 0.98 | 6.77 |
| | 01/21/97 | 0.9 | 0.20 | 6.97 |
| | 04/29/97 | 0.85 | 0.25 | 7.22 |
| | 08/21/97 | 0.87 | 0.15 | 7.37 |
| | 11/05/97 | 0.54 | 0.25 | 7.62 |
| | 02/03/98 | 0.32 | 0.25 | 7.87 |
| | 05/06/98 | 0.47 | 0.25 | 8.12 |
| | 05/13/98 | 0.1 | <0.1 | 8.12 |
| | 05/24/98 | 0.19 | <0.1 | 8.12 |
| | 05/27/98 | 0.15 | <0.1 | 8.12 |
| | 05/28/98 | 0.17 | 0.20 | 8.32 |
| | 06/09/98 | 0.2 | 0.25 | 8.57 |
| | 06/17/98 | 0.21 | 0.10 | 8.67 |
| | 06/22/98 | 0.15 | 0.25 | 8.92 |
| | 07/02/98 | 0.15 | 0.10 | 8.42 |
| | 07/09/98 | 0.2 | 0.10 | 8.67 |
| | 07/14/98 | 0.11 | <0.1 | 8.67 |
| | 07/30/98 | 0.1 | <0.1 | 8.67 |
| 12/30/98 | 0.08 | 0.02 | 8.69 | |
| 02/02/99 | 0.03 | 0.01 | 8.70 | |

TABLE 2 - PRODUCT REMOVAL STATUS

| WELL ID | DATE | PRODUCT THICKNESS (Feet) | PRODUCT REMOVED (Gallons) | PRODUCT REMOVED CUMULATIVE (Gallons) |
|---------|----------|--------------------------|---------------------------|--------------------------------------|
| MW-2 | 09/29/93 | --- | 0.10 | 0.10 |
| | 10/05/93 | --- | 0.10 | 0.20 |
| | 10/14/93 | --- | 0.10 | 0.30 |
| | 10/20/93 | 0.31 | 0.25 | 0.55 |
| | 11/02/93 | --- | 0.10 | 0.65 |
| | 12/07/93 | --- | 0.05 | 0.70 |
| | 12/17/93 | --- | <0.01 | 0.70 |
| | 12/23/93 | --- | 0.30 | 1.00 |
| | 01/12/94 | --- | 0.05 | 1.05 |
| | 02/02/94 | --- | 0.01 | 1.06 |
| | 02/11/94 | --- | 0.01 | 1.07 |
| | 03/18/94 | --- | <0.01 | 1.07 |
| | 08/01/94 | 0.04 | --- | 1.07 |
| | 10/26/94 | --- | 0.10 | 1.17 |
| | 11/12/94 | --- | 0.10 | 1.27 |
| | 12/12/94 | --- | 0.03 | 1.30 |
| | 12/23/94 | 0.03 | --- | 1.30 |
| | 01/26/95 | 0.39 | 0.20 | 1.50 |
| | 06/08/95 | 0.43 | <0.10 | 1.50 |
| | 06/28/95 | --- | 0.05 | 1.55 |
| | 08/22/95 | 0.36 | 0.10 | 1.65 |
| | 10/30/95 | 0.3 | 0.05 | 1.70 |
| | 01/25/96 | 0.15 | <0.10 | 1.70 |
| | 02/16/96 | --- | <0.10 | 1.70 |
| | 04/19/96 | 0.07 | <0.10 | 1.70 |
| | 07/23/96 | 0.05 | <0.10 | 1.70 |
| | 11/11/96 | 0.01 | <0.10 | 1.70 |
| | 01/21/97 | 0.01 | <0.10 | 1.70 |
| | 04/29/97 | 0.01 | <0.10 | 1.70 |
| | 08/21/98 | 0.01 | <0.10 | 1.70 |
| | 11/05/97 | 0.01 | <0.10 | 1.70 |
| | 02/03/98 | 0.00 | <0.10 | 1.70 |
| | 05/28/98 | Globules | <0.10 | 1.70 |
| | 12/30/98 | --- | --- | 1.70 |
| | 02/02/99 | --- | --- | 1.70 |

TABLE 2 - PRODUCT REMOVAL STATUS

| WELL ID | DATE | PRODUCT THICKNESS (Feet) | PRODUCT REMOVED (Gallons) | PRODUCT REMOVED CUMULATIVE (Gallons) |
|----------|----------|--------------------------|---------------------------|--------------------------------------|
| MW-8 | 07/12/93 | Iridescence | --- | --- |
| | 10/21/93 | 0.95 | --- | --- |
| | 11/02/93 | --- | 0.25 | 0.25 |
| | 11/10/93 | --- | 0.10 | 0.35 |
| | 11/16/93 | --- | 0.10 | 0.45 |
| | 11/23/93 | --- | 0.10 | 0.55 |
| | 11/30/93 | --- | 0.10 | 0.65 |
| | 12/17/93 | --- | <0.10 | 0.65 |
| | 12/23/93 | --- | <0.10 | 0.65 |
| | 01/12/94 | --- | <0.10 | 0.65 |
| | 01/21/94 | 0.03 | --- | 0.65 |
| | 02/02/94 | --- | 0.05 | 0.70 |
| | 02/11/94 | --- | 0.08 | 0.78 |
| | 02/18/94 | --- | 0.10 | 0.88 |
| | 03/18/94 | --- | <0.10 | 0.88 |
| | 04/20/94 | 0.03 | --- | 0.88 |
| | 04/27/94 | --- | 0.10 | 0.98 |
| | 05/27/94 | --- | 0.10 | 1.08 |
| | 10/26/94 | --- | 0.10 | 1.18 |
| | 11/12/94 | --- | <0.10 | 1.18 |
| | 12/12/94 | --- | <0.10 | 1.18 |
| | 12/23/94 | 0.03 | <0.10 | 1.18 |
| | 06/08/95 | 0.29 | 0.10 | 1.28 |
| | 08/22/95 | 0.2 | 0.05 | 1.33 |
| | 10/27/95 | 0.14 | <0.10 | 1.33 |
| | 10/30/95 | --- | 0.02 | 1.35 |
| | 01/25/96 | 0.22 | 0.05 | 1.4 |
| | 02/16/95 | --- | 0.1 | 1.5 |
| | 04/19/96 | 0.2 | 0.25 | 1.75 |
| | 07/23/96 | 0.14 | <0.10 | 1.75 |
| | 11/11/96 | 0.02 | <0.10 | 1.75 |
| | 01/21/97 | 0.01 | <0.10 | 1.75 |
| | 08/21/97 | Iridescence | --- | 1.75 |
| 11/05/97 | 0.1 | 0.10 | 1.85 | |
| 02/03/98 | 0.03 | <0.10 | 1.85 | |
| 05/06/98 | 0.05 | <0.10 | 1.85 | |
| 05/28/98 | (a) | --- | 1.85 | |
| 12/30/98 | 0.05 | 0.01 | 1.86 | |
| 02/02/99 | --- | --- | 1.86 | |

TABLE 2 - PRODUCT REMOVAL STATUS

| WELL ID | DATE | PRODUCT THICKNESS (Feet) | PRODUCT REMOVED (Gallons) | PRODUCT REMOVED CUMULATIVE (Gallons) |
|---------|----------|--------------------------|---------------------------|--------------------------------------|
| MW-9 | 10/21/93 | 0.89 | --- | --- |
| | 11/02/93 | --- | 0.10 | 0.10 |
| | 11/10/93 | --- | 0.10 | 0.20 |
| | 11/16/93 | --- | 0.10 | 0.30 |
| | 12/23/93 | --- | 0.10 | 0.40 |
| | 01/12/94 | --- | <0.10 | 0.40 |
| | 01/20/93 | --- | 0.05 | 0.45 |
| | 02/02/94 | --- | 0.05 | 0.50 |
| | 02/11/94 | --- | <0.10 | 0.50 |
| | 02/18/94 | --- | 0.10 | 0.60 |
| | 03/18/94 | --- | 0.10 | 0.70 |
| | 08/01/94 | 0.05 | --- | 0.70 |
| | 10/26/94 | --- | 0.15 | 0.85 |
| | 11/12/94 | --- | 0.10 | 0.95 |
| | 12/12/94 | --- | 0.10 | 1.05 |
| | 12/23/94 | 0.02 | --- | 1.05 |
| | 01/26/95 | --- | 0.10 | 1.05 |
| | 06/28/95 | --- | 0.10 | 1.15 |
| | 08/22/95 | --- | 0.10 | 1.25 |
| | 10/30/95 | --- | 0.10 | 1.35 |
| | 01/25/96 | 0.13 | 0.10 | 1.45 |
| | 02/16/95 | --- | 0.10 | 1.55 |
| | 06/08/95 | 0.8 | --- | 1.55 |
| | 08/22/95 | 0.01 | --- | 1.55 |
| | 10/27/95 | 0.01 | --- | 1.55 |
| | 01/25/96 | 0.07 | --- | 1.55 |
| | 04/19/96 | (a) | --- | 1.55 |
| | 07/23/96 | 0.03 | <0.10 | 1.55 |
| | 11/11/96 | 0.01 | <0.10 | 1.55 |
| | 01/21/97 | 0.01 | <0.10 | 1.55 |
| | 04/29/97 | Iridescence | <0.10 | 1.55 |
| | 08/27/97 | 0.01 | --- | 1.55 |
| | 11/05/97 | 0.01 | 0.10 | 1.65 |
| | 02/03/98 | --- | <0.10 | 1.65 |
| | 05/13/98 | 0.02 | <0.10 | 1.65 |
| | 05/24/98 | 0.01 | <0.10 | 1.65 |
| | 05/27/98 | 0.01 | <0.10 | 1.65 |
| | 05/28/98 | 0.01 | <0.10 | 1.65 |
| | 06/09/98 | 0.01 | <0.10 | 1.65 |
| | 06/17/98 | 0.01 | <0.10 | 1.65 |
| | 06/22/98 | 0.01 | <0.10 | 1.65 |
| | 07/02/98 | 0.01 | <0.10 | 1.65 |
| | 07/09/98 | 0.01 | <0.10 | 1.65 |
| | 07/14/98 | 0.01 | <0.10 | 1.65 |
| | 12/30/98 | --- | --- | 1.65 |
| | 02/02/99 | --- | --- | 1.65 |

TABLE 2 - PRODUCT REMOVAL STATUS

| WELL ID | DATE | PRODUCT THICKNESS (Feet) | PRODUCT REMOVED (Gallons) | PRODUCT REMOVED CUMULATIVE (Gallons) |
|---------|----------|--------------------------|---------------------------|--------------------------------------|
| MW-10 | 09/07/93 | --- | 0.10 | 0.10 |
| | 09/14/93 | --- | 0.10 | 0.20 |
| | 09/29/93 | --- | 0.10 | 0.30 |
| | 10/05/93 | --- | 1.60 | 1.90 |
| | 10/14/93 | --- | 2.10 | 4.00 |
| | 10/20/93 | --- | 1.00 | 5.00 |
| | 10/21/93 | 0.69 | --- | 5.00 |
| | 10/27/93 | --- | 1.00 | 6.00 |
| | 11/02/93 | --- | 0.30 | 6.30 |
| | 11/10/93 | --- | 0.20 | 6.50 |
| | 11/16/93 | --- | 0.10 | 6.60 |
| | 11/23/93 | --- | 0.10 | 6.70 |
| | 11/30/93 | --- | 0.30 | 7.00 |
| | 12/07/93 | --- | 0.20 | 7.20 |
| | 12/17/93 | --- | 0.30 | 7.50 |
| | 12/23/93 | --- | <0.10 | 7.50 |
| | 01/04/94 | --- | <0.10 | 7.50 |
| | 01/12/94 | --- | 0.10 | 7.60 |
| | 01/20/94 | --- | 0.20 | 7.80 |
| | 01/21/94 | 0.06 | --- | 7.80 |
| | 02/02/94 | --- | 0.10 | 7.90 |
| | 02/11/94 | --- | 0.10 | 8.00 |
| | 02/18/94 | --- | 0.20 | 8.20 |
| | 05/27/94 | --- | <0.10 | 8.20 |
| | 08/01/94 | 0.28 | --- | 8.20 |
| | 10/26/94 | --- | 0.60 | 8.80 |
| | 11/12/94 | --- | 0.40 | 9.20 |
| | 12/12/94 | --- | 0.20 | 9.40 |
| | 12/23/94 | 0.25 | --- | 9.40 |
| | 01/26/95 | 0.8 | 0.10 | 9.50 |
| | 06/08/95 | 0.75 | --- | 9.50 |
| | 06/28/95 | --- | 0.10 | 9.60 |
| | 08/22/95 | 0.7 | 0.15 | 9.75 |
| | 10/27/95 | 0.63 | --- | 9.75 |
| | 10/30/95 | --- | 0.10 | 9.85 |
| | 01/25/96 | 0.81 | 0.25 | 10.10 |
| | 02/16/96 | --- | 0.10 | 10.20 |
| | 04/19/96 | --- | 0.50 | 10.70 |
| | 07/23/96 | 0.62 | <0.10 | 10.70 |
| | 11/11/96 | 0.2 | 0.20 | 10.90 |
| | 01/21/97 | 0.14 | <0.03 | 10.90 |
| | 04/29/97 | 0.21 | 0.04 | 10.94 |
| | 08/21/97 | 0.14 | --- | 10.94 |
| | 11/05/97 | 0.02 | <0.10 | 10.94 |
| | 02/03/98 | 0.1 | <0.10 | 10.94 |
| | 05/06/98 | 0.02 | <0.10 | 10.94 |
| | 05/13/98 | Sheen | <0.10 | 10.94 |
| | 05/28/98 | Globules | <0.10 | 10.94 |
| | 12/30/98 | --- | <0.10 | 10.94 |
| | 02/02/99 | --- | --- | 10.94 |

TABLE 2 - PRODUCT REMOVAL STATUS

NOTE:

(a) Well inaccessible.

Analytical Appendix



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

February 18, 1999

Mr. Scott Hooton
BP OIL COMPANY
295 SW 41 Street Bldg. 13, Ste N
Renton, WA 98055

The following report contains analytical results for the sample(s) received at Southern Petroleum Laboratories (SPL) on February 9, 1999. The sample(s) was assigned to Certificate of Analysis No. (s) 9902394 and analyzed for all parameters as listed on the chain of custody.

Any data flags or quality control exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

If you have any questions or comments pertaining to this data report, please do not hesitate to contact me. Please reference the above Certificate of Analysis No. during any inquiries.

Again, SPL is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Southern Petroleum Laboratories

A handwritten signature in cursive script that reads 'Sonia West'. The signature is written in dark ink and is positioned above a horizontal line.

Sonia West
Senior Project Manager



HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054

PHONE (713) 660-0901

Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 99-02-394

Approved for Release by:

Sonia West
Sonia West, Senior Project Manager

2-18-99
Date

Greg Grandits
Laboratory Director

Cynthia Schreiner
Quality Assurance Officer

The attached analytical data package may not be reproduced except in full without the express written approval of this laboratory.
The results relate only to the samples tested.
Results reported on a Wet Weight Basis unless otherwise noted.



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9902394-01

BP Oil Company
 295 SW 41 Street Bldg.13,SteN
 Renton, WA 98055
 ATTN: Scott Hooton

P.O.#
 N/A, COC#100594
 DATE: 02/17/99

PROJECT: #11132, 3201 35th St
 SITE: Oakland, CA
 SAMPLED BY: Blaine Tech Services
 SAMPLE ID: A

PROJECT NO: 990202-X2
 MATRIX: WATER
 DATE SAMPLED: 02/02/99 13:13:00
 DATE RECEIVED: 02/09/99

ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|--------------------------------------|---------|-----------------|-------|
| MTBE | ND | 5.0 P | ug/L |
| BENZENE | ND | 5.0 P | ug/L |
| TOLUENE | ND | 5.0 P | ug/L |
| ETHYLBENZENE | ND | 5.0 P | ug/L |
| TOTAL XYLENE | ND | 5.0 P | ug/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | ND | | ug/L |

Surrogate

% Recovery

1,4-Difluorobenzene

107

4-Bromofluorobenzene

100

Method 8020A ***

Analyzed by: WR

Date: 02/11/99

Gasoline Range Organics

ND 0.250 P

mg/L

Surrogate

% Recovery

1,4-Difluorobenzene

113

4-Bromofluorobenzene

87

California LUFT Manual for Gasoline

Analyzed by: WR

Date: 02/11/99 23:38:00

ND - Not detected.

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
 SPL California License # 1903



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9902394-02

BP Oil Company
 295 SW 41 Street Bldg.13,SteN
 Renton, WA 98055
 ATTN: Scott Hooton

P.O.#
 N/A, COC#100594
 DATE: 02/17/99

PROJECT: #11132, 3201 35th St
 SITE: Oakland, CA
 SAMPLED BY: Blaine Tech Services
 SAMPLE ID: B

PROJECT NO: 990202-X2
 MATRIX: WATER
 DATE SAMPLED: 02/02/99 13:37:00
 DATE RECEIVED: 02/09/99

ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|--------------------------------------|---------|-----------------|-------|
| MTBE | 130 | 1.0 P | ug/L |
| BENZENE | ND | 1.0 P | ug/L |
| TOLUENE | ND | 1.0 P | ug/L |
| ETHYLBENZENE | ND | 1.0 P | ug/L |
| TOTAL XYLENE | ND | 1.0 P | ug/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | ND | | ug/L |

Surrogate

% Recovery

1,4-Difluorobenzene

107

4-Bromofluorobenzene

90

Method 8020A ***

Analyzed by: WR

Date: 02/11/99

Gasoline Range Organics

0.070 0.050 P

mg/L

Surrogate

% Recovery

1,4-Difluorobenzene

100

4-Bromofluorobenzene

97

California LUFT Manual for Gasoline

Analyzed by: WR

Date: 02/11/99 22:25:00

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
 SPL California License # 1903



Certificate of Analysis No. H9-9902394-03

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

BP Oil Company
295 SW 41 Street Bldg.13, Ste N
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
N/A, COC#100594
DATE: 02/17/99

PROJECT: #11132, 3201 35th St
SITE: Oakland, CA
SAMPLED BY: Blaine Tech Services
SAMPLE ID: C

PROJECT NO: 990202-X2
MATRIX: WATER
DATE SAMPLED: 02/02/99 14:17:00
DATE RECEIVED: 02/09/99

ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|--------------------------------------|---------|-----------------|-------|
| MTBE | 51000 | 250 P | ug/L |
| BENZENE | 2300 | 50 P | ug/L |
| TOLUENE | 120 | 50 P | ug/L |
| ETHYLBENZENE | 2000 | 50 P | ug/L |
| TOTAL XYLENE | 3200 | 50 P | ug/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | 7620 | | ug/L |

Surrogate

% Recovery

1,4-Difluorobenzene
4-Bromofluorobenzene

101
97

Method 8020A ***

Analyzed by: WR

Date: 02/12/99

Gasoline Range Organics

82

2.50 P

mg/L

Surrogate

% Recovery

1,4-Difluorobenzene
4-Bromofluorobenzene

160MI
113

California LUFT Manual for Gasoline

Analyzed by: WR

Date: 02/12/99 00:16:00

MTBE

78000

4000 P

ug/L

Surrogate

% Recovery

1,2-Dichloroethane-d4
Toluene-d8

92
108

(P) - Practical Quantitation Limit MI - Matrix interference.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL California License # 1903



Certificate of Analysis No. H9-9902394-03

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

BP Oil Company
295 SW 41 Street Bldg.13, SteN
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
N/A, COC#100594
DATE: 02/17/99

PROJECT: #11132, 3201 35th St
SITE: Oakland, CA
SAMPLED BY: Blaine Tech Services
SAMPLE ID: C

PROJECT NO: 990202-X2
MATRIX: WATER
DATE SAMPLED: 02/02/99 14:17:00
DATE RECEIVED: 02/09/99

| PARAMETER | ANALYTICAL DATA | | DETECTION LIMIT | UNITS |
|----------------------|-----------------|--|-----------------|-------|
| | RESULTS | | | |
| 4-Bromofluorobenzene | 100 | | | |
| Method 8260B *** | | | | |
| Analyzed by: GT | | | | |
| Date: 02/12/99 | | | | |

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL California License # 1903



Certificate of Analysis No. H9-9902394-04

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

BP Oil Company
295 SW 41 Street Bldg.13,SteN
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
N/A, COC#100594
DATE: 02/17/99

PROJECT: #11132, 3201 35th St
SITE: Oakland, CA
SAMPLED BY: Blaine Tech Services
SAMPLE ID: D

PROJECT NO: 990202-X2
MATRIX: WATER
DATE SAMPLED: 02/02/99 14:40:00
DATE RECEIVED: 02/09/99

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include MTBE, BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, TOTAL VOLATILE AROMATIC HYDROCARBONS.

Surrogate % Recovery
1,4-Difluorobenzene 103
4-Bromofluorobenzene 97
Method 8020A ***
Analyzed by: WR
Date: 02/11/99

Gasoline Range Organics 0.10 0.050 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 100
4-Bromofluorobenzene 103
California LUFT Manual for Gasoline
Analyzed by: WR
Date: 02/11/99 23:02:00

(P) - Practical Quantitation Limit ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance
with EPA guidelines for quality assurance.
SPL California License # 1903



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9902394-05

BP Oil Company
 295 SW 41 Street Bldg.13,SteN
 Renton, WA 98055
 ATTN: Scott Hooton

P.O.#
 N/A, COC#100594
 DATE: 02/17/99

PROJECT: #11132, 3201 35th St
 SITE: Oakland, CA
 SAMPLED BY: Blaine Tech Services
 SAMPLE ID: E

PROJECT NO: 990202-X2
 MATRIX: WATER
 DATE SAMPLED: 02/02/99 15:04:00
 DATE RECEIVED: 02/09/99

ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|--------------------------------------|---------|-----------------|-------|
| MTBE | ND | 50 P | ug/L |
| BENZENE | 530 | 50 P | ug/L |
| TOLUENE | 960 | 50 P | ug/L |
| ETHYLBENZENE | 1900 | 50 P | ug/L |
| TOTAL XYLENE | 17000 | 50 P | ug/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | 20390 | | ug/L |

| Surrogate | % Recovery |
|----------------------|------------|
| 1,4-Difluorobenzene | 120 |
| 4-Bromofluorobenzene | 113 |

Method 8020A ***
 Analyzed by: WR
 Date: 02/12/99

| | | | |
|-------------------------|----|--------|------|
| Gasoline Range Organics | 75 | 2.50 P | mg/L |
|-------------------------|----|--------|------|

| Surrogate | % Recovery |
|----------------------|------------|
| 1,4-Difluorobenzene | 93 |
| 4-Bromofluorobenzene | 133 |

California LUFT Manual for Gasoline
 Analyzed by: WR
 Date: 02/12/99 00:53:00

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
 SPL California License # 1903



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9902394-06

BP Oil Company
 295 SW 41 Street Bldg.13,SteN
 Renton, WA 98055
 ATTN: Scott Hooton

P.O.#
 N/A, COC#100594
 DATE: 02/17/99

PROJECT: #11132, 3201 35th St
 SITE: Oakland, CA
 SAMPLED BY: Blaine Tech Services
 SAMPLE ID: F

PROJECT NO: 990202-X2
 MATRIX: WATER
 DATE SAMPLED: 02/02/99 15:30:00
 DATE RECEIVED: 02/09/99

ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|--------------------------------------|---------|-----------------|-------|
| MTBE | ND | 500 P | ug/L |
| BENZENE | 3500 | 500 P | ug/L |
| TOLUENE | 1500 | 500 P | ug/L |
| ETHYLBENZENE | 5200 | 500 P | ug/L |
| TOTAL XYLENE | 34000 | 500 P | ug/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | 44200 | | ug/L |

Surrogate

% Recovery

1,4-Difluorobenzene
 4-Bromofluorobenzene

107
 107

Method 8020A ***

Analyzed by: WR

Date: 02/12/99

Gasoline Range Organics

170 25.0 P

mg/L

Surrogate

% Recovery

1,4-Difluorobenzene
 4-Bromofluorobenzene

93
 100

California LUFT Manual for Gasoline

Analyzed by: WR

Date: 02/12/99 01:29:00

ND - Not detected.

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
 SPL California License # 1903



Certificate of Analysis No. H9-9902394-07

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

BP Oil Company
295 SW 41 Street Bldg.13, SteN
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
N/A, COC#100594
DATE: 02/17/99

PROJECT: #11132, 3201 35th St
SITE: Oakland, CA
SAMPLED BY: Blaine Tech Services
SAMPLE ID: G

PROJECT NO: 990202-X2
MATRIX: WATER
DATE SAMPLED: 02/02/99 15:58:00
DATE RECEIVED: 02/09/99

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include MTBE, BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, and TOTAL VOLATILE AROMATIC HYDROCARBONS.

Table with 2 columns: Surrogate, % Recovery. Rows include 1,4-Difluorobenzene and 4-Bromofluorobenzene.

Method 8020A ***
Analyzed by: WR
Date: 02/12/99

Gasoline Range Organics 79 25.0 P mg/L

Table with 2 columns: Surrogate, % Recovery. Rows include 1,4-Difluorobenzene and 4-Bromofluorobenzene.

California LUFT Manual for Gasoline
Analyzed by: WR
Date: 02/12/99 02:05:00

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance
with EPA guidelines for quality assurance.
SPL California License # 1903



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

Certificate of Analysis No. H9-9902394-08

BP Oil Company
 295 SW 41 Street Bldg.13, SteN
 Renton, WA 98055
 ATTN: Scott Hooton

P.O.#
 N/A, COC#100594
 DATE: 02/17/99

PROJECT: #11132, 3201 35th St
 SITE: Oakland, CA
 SAMPLED BY: Blaine Tech Services
 SAMPLE ID: H

PROJECT NO: 990202-X2
 MATRIX: WATER
 DATE SAMPLED: 02/02/99 16:26:00
 DATE RECEIVED: 02/09/99

ANALYTICAL DATA

| PARAMETER | RESULTS | DETECTION LIMIT | UNITS |
|--------------------------------------|---------|-----------------|-------|
| MTBE | ND | 500 P | ug/L |
| BENZENE | 450 | 250 P | ug/L |
| TOLUENE | 2200 | 500 P | ug/L |
| ETHYLBENZENE | 3700 | 500 P | ug/L |
| TOTAL XYLENE | 26000 | 500 P | ug/L |
| TOTAL VOLATILE AROMATIC HYDROCARBONS | 32350 | | ug/L |

| Surrogate | % Recovery |
|----------------------|------------|
| 1,4-Difluorobenzene | 113 |
| 4-Bromofluorobenzene | 100 |

Method 8020A ***
 Analyzed by: WR
 Date: 02/12/99

| | | | |
|-------------------------|----|--------|------|
| Gasoline Range Organics | 82 | 25.0 P | mg/L |
|-------------------------|----|--------|------|

| Surrogate | % Recovery |
|----------------------|------------|
| 1,4-Difluorobenzene | 93 |
| 4-Bromofluorobenzene | 93 |

California LUFT Manual for Gasoline
 Analyzed by: WR
 Date: 02/12/99 02:43:00

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
 **Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
 ***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
 SPL California License # 1903



Certificate of Analysis No. H9-9902394-09

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

BP Oil Company
295 SW 41 Street Bldg.13, SteN
Renton, WA 98055
ATTN: Scott Hooton

P.O.#
N/A, COC#100594
DATE: 02/17/99

PROJECT: #11132, 3201 35th St
SITE: Oakland, CA
SAMPLED BY: Blaine Tech Services
SAMPLE ID: I

PROJECT NO: 990202-X2
MATRIX: WATER
DATE SAMPLED: 02/02/99 16:55:00
DATE RECEIVED: 02/09/99

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include MTBE, BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE, and TOTAL VOLATILE AROMATIC HYDROCARBONS.

Surrogate % Recovery
1,4-Difluorobenzene 113
4-Bromofluorobenzene 107
Method 8020A ***
Analyzed by: WR
Date: 02/12/99

Gasoline Range Organics 74 2.50 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 93
4-Bromofluorobenzene 120
California LUFT Manual for Gasoline
Analyzed by: WR
Date: 02/12/99 03:22:00

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance
with EPA guidelines for quality assurance.
SPL California License # 1903

QUALITY CONTROL

DOCUMENTATION

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPL

Contract:

Lab Code: Case No: 9902277

SAS No: SDG No:

Matrix Spike - EPA Sample No: GWTS-AC2-115W Level (low/med): Low

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC LIMITS REC |
|--------------------|--------------------------|-----------------------------------|-------------------------------|------------------|---------------------|
| 1,1-Dichloroethene | 50 | 0 | 58 | 116 | 61-145 |
| Trichloroethene | 50 | 0 | 51 | 102 | 71-120 |
| Benzene | 50 | 0 | 54 | 108 | 76-127 |
| Toluene | 50 | 0 | 54 | 108 | 76-125 |
| Chlorobenzene | 50 | 0 | 54 | 108 | 75-130 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD | % | QC LIMITS | |
|--------------------|--------------------------|--------------------------------|-------|-------|-----------|--------|
| | | | REC # | RPD # | RPD | REC |
| 1,1-Dichloroethene | 50 | 49 | 98 | 17 * | 14 | 61-145 |
| Trichloroethene | 50 | 51 | 102 | 0 | 14 | 71-120 |
| Benzene | 50 | 54 | 108 | 0 | 11 | 76-127 |
| Toluene | 50 | 55 | 110 | 2 | 13 | 76-125 |
| Chlorobenzene | 50 | 51 | 102 | 6 | 13 | 75-130 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits due to matrix interference

RPD: 1 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

FORM III VOA-1

3/90

SPL Houston Labs

RECOVERY REPORT

Client Name: Client SDG: m990212
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: LCS Operator: GT
 Level: LOW SampleType: METHSPIKE
 Data Type: MS DATA Quant Type: ISTD
 SpikeList File: 8240water.spk
 Sublist File: LCS.sub
 Method File: /var/chem/m.i/m990212.b/m8260aw.m
 Misc Info: M043W1//M043CW1

| SPIKE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|----------------------|-----------------------|---------------------------|----------------|--------|
| 7 1,1-Dichloroethene | 50 | 61 | 122.00 | 61-145 |
| 26 Trichloroethene | 50 | 60 | 120.00 | 71-120 |
| 22 Benzene | 50 | 61 | 122.00 | 76-127 |
| 33 Toluene | 50 | 57 | 114.00 | 76-125 |
| 39 Chlorobenzene | 50 | 55 | 110.00 | 75-130 |

| SURROGATE COMPOUND | CONC ADDED ug/L | CONC RECOVERED ug/L | % RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 19 1,2-Dichloroethane | 50 | 50 | 100.00 | 80-120 |
| \$ 32 Toluene-d8 | 50 | 53 | 106.00 | 88-110 |
| \$ 47 Bromofluorobenzene | 50 | 51 | 102.00 | 86-115 |



SPL Blank QC Report

Matrix: Aqueous
Sample ID: VBLK
Batch: M990212113701

Reported on: 02/16/99 11:44
Analyzed on: 02/12/99 15:48
Analyst: GT

METHOD 8260 M043B01

| Compound | Result | Detection Limit | Units |
|----------------------|--------|-----------------|-------|
| Methyl t-butyl ether | ND | 10 | ug/L |

| Surrogate | Result | QC Criteria | Units |
|-----------------------|--------|-------------|------------|
| 1,2-Dichloroethane-d4 | 106 | 80-120 | % Recovery |
| Toluene-d8 | 106 | 88-110 | % Recovery |
| Bromofluorobenzene | 92 | 86-115 | % Recovery |

Samples in Batch 9902394-03

Notes

ND - Not detected.



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

**** SPL BATCH QUALITY CONTROL REPORT ****
 METHOD 8020

Matrix: Aqueous
 Units: ug/L

Batch Id: VARD990211115600

LABORATORY CONTROL SAMPLE

| SPIKE COMPOUNDS | Method Blank Result <2> | Spike Added <3> | Blank Spike | | QC Limits(**) (Mandatory) % Recovery Range |
|-----------------|----------------------------|--------------------|---------------|---------------|--|
| | | | Result <1> | Recovery % | |
| MTBE | ND | 50 | 45 | 90.0 | 72 - 128 |
| Benzene | ND | 50 | 43 | 86.0 | 61 - 119 |
| Toluene | ND | 50 | 43 | 86.0 | 65 - 125 |
| EthylBenzene | ND | 50 | 45 | 90.0 | 70 - 118 |
| O Xylene | ND | 50 | 45 | 90.0 | 72 - 117 |
| M & P Xylene | ND | 100 | 92 | 92.0 | 72 - 116 |

MATRIX SPIKES

| SPIKE COMPOUNDS | Sample Results <2> | Spike Added <3> | Matrix Spike | | Matrix Spike Duplicate | | MS/MSD Relative % Difference | QC Limits(***) (Advisory) | |
|-----------------|-----------------------|--------------------|---------------|-----------------|------------------------|-----------------|------------------------------------|------------------------------|----------------|
| | | | Result <1> | Recovery <4> | Result <1> | Recovery <5> | | RPD Max. | Recovery Range |
| MTBE | 130 | 20 | 150 | NC | 140 | NC | NC | 20 | 39 - 150 |
| BENZENE | ND | 20 | 19 | 95.0 | 18 | 90.0 | 5.41 | 21 | 32 - 164 |
| TOLUENE | ND | 20 | 19 | 95.0 | 18 | 90.0 | 5.41 | 20 | 38 - 159 |
| ETHYLBENZENE | ND | 20 | 19 | 95.0 | 19 | 95.0 | 0 | 19 | 52 - 142 |
| O XYLENE | ND | 20 | 19 | 95.0 | 19 | 95.0 | 0 | 18 | 53 - 143 |
| M & P XYLENE | ND | 40 | 38 | 95.0 | 37 | 92.5 | 2.67 | 17 | 53 - 144 |

* = Values outside QC Range due to Matrix Interference (except RPD)

<< = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = $[(<1> - <2>) / <3>] \times 100$

LCS % Recovery = $(<1> / <3>) \times 100$

Relative Percent Difference = $| (<4> - <5>) | / [(<4> + <5>) \times 0.5] \times 100$

(**) = Source: SPL-Houston Historical Data (1st Q '97)

(***) = Source: SPL-Houston Historical Data (1st Q '97)

Analyst: WR

Sequence Date: 02/11/99

SPL ID of sample spiked: 9902394-02A

Sample File ID: D_B2049.TX0

Method Blank File ID:

Blank Spike File ID: D_B2038.TX0

Matrix Spike File ID: D_B2044.TX0

Matrix Spike Duplicate File ID: D_B2045.TX0

SAMPLES IN BATCH(SPL ID):

9902394-05A 9902394-06A 9902394-07A 9902394-08A
 9902394-09A 9902357-01A 9902357-05A 9902357-06A
 9902357-07A 9902357-08A 9902416-08A 9902416-21A
 9902416-28A 9902394-03A 9902357-09A 9902357-10A
 9902394-02A 9902394-04A 9902394-01A 9902394-03A



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TEXAS 77054
 PHONE (713) 660-0901

**** SPL BATCH QUALITY CONTROL REPORT ****

California LUFT Manual for Gasoline

Matrix: Aqueous
 Units: mg/L

Batch Id: VARD990211160700

LABORATORY CONTROL SAMPLE

| S P I K E C O M P O U N D S | Method Blank Result <2> | Spike Added <3> | Blank Spike | | QC Limits(**) (Mandatory) % Recovery Range |
|--------------------------------|-------------------------------|-----------------------|---------------|---------------|--|
| | | | Result <1> | Recovery % | |
| Gasoline Range Organics | ND | 1.0 | 0.92 | 92.0 | 64 - 131 |

MATRIX SPIKES

| S P I K E C O M P O U N D S | Sample Results <2> | Spike Added <3> | Matrix Spike | | Matrix Spike Duplicate | | MS/MSD Relative % Difference | QC Limits(***) (Advisory) | |
|--------------------------------|--------------------------|-----------------------|---------------|-----------------|---------------------------|-----------------|------------------------------------|------------------------------|----------------|
| | | | Result <1> | Recovery <4> | Result <1> | Recovery <5> | | RPD Max. | Recovery Range |
| GASOLINE RANGE ORGANICS | 0.10 | 0.90 | 0.89 | 87.8 | 0.84 | 82.2 | 6.59 | 36 | 36 - 160 |

* = Values outside QC Range due to Matrix Interference (except RPD)

« = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = $[(<1> - <2>) / <3>] \times 100$

LCS % Recovery = $(<1> / <3>) \times 100$

Relative Percent Difference = $[(<4> - <5>) / [(<4> + <5>) \times 0.5]] \times 100$

(**) = Source: SPL-Houston Historical data (1st Q '97)

(***) = Source: SPL-Houston Historical Data (1st Q '97)

Analyst: WR

Sequence Date: 02/11/99

SPL ID of sample spiked: 9902394-04A

Sample File ID: DDB2050.TX0

Method Blank File ID:

Blank Spike File ID: DDB2043.TX0

Matrix Spike File ID: DDB2046.TX0

Matrix Spike Duplicate File ID: DDB2047.TX0

SAMPLES IN BATCH(SPL ID):

9902394-05A 9902394-06A 9902394-07A 9902394-08A
 9902394-09A 9902394-02A 9902394-04A 9902394-01A
 9902394-03A

CHAIN OF CUSTODY
AND
SAMPLE RECEIPT CHECKLIST



9902394

CHAIN OF CUSTODY

No. 100594

Page 1 of 1

| | | | | | |
|--|---|---|------------|---|----------------------------|
| CONSULTANT'S NAME <i>Blaine Tech Services</i> | | CONSULTANT'S ADDRESS <i>1680 Rodgers Ave, San Jose, CA 95112</i> | | | |
| BP SITE NUMBER <i>11132</i> | BP SITE / FACILITY ADDRESS <i>3201 35th St Oakland, CA</i> | | | CONSULTANT PROJECT NUMBER <i>990202-X2</i> | |
| CONSULTANT PROJECT MANGER | | PHONE NUMBER | FAX NUMBER | | CONSULTANT CONTRACT NUMBER |
| BP CONTACT | | BP ADDRESS | | PHONE NUMBER | FAX NO. |
| LAB CONTACT | | LABORATORY ADDRESS | | PHONE NUMBER | FAX NO. |
| BP CONTACT REQUESTING RUSH TAT (Print BP Contact Name) | | RUSH REQUESTED OF (Print Consultant Contact Name) | | DATE/TIME | SHIPMENT DATE |
| | | | | | SHIPMENT METHOD |

TAT 24 Hours 48 Hours 72 Hours Standard 7 or 14 Days

ANALYSIS REQUIRED

AIRBILL NUMBER *804039488588*

| SAMPLE DESCRIPTION | COLLECTION DATE | COLLECTION TIME | MATRIX SOIL/WATER | CONTAINERS | | PRESERVATIVE | TPH-G | BTEX | MTBE | MTBE (B260) | | | | | | | COMMENTS | |
|--------------------|-----------------|-----------------|-------------------|------------|------------|--------------|----------|----------|----------|-------------|--|--|--|--|--|--|----------|--|
| | | | | NO. | TYPE (VOL) | LAB SAMPLE # | | | | | | | | | | | | |
| <i>A</i> | <i>2-2-99</i> | <i>13:13</i> | <i>W</i> | <i>3</i> | | | <i>X</i> | <i>X</i> | <i>X</i> | | | | | | | | | |
| <i>B</i> | <i>2-2-99</i> | <i>13:37</i> | <i>W</i> | <i>3</i> | | | <i>X</i> | <i>X</i> | <i>X</i> | | | | | | | | | |
| <i>C</i> | <i>2-2-99</i> | <i>14:17</i> | <i>W</i> | <i>5</i> | | | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | | | | | | | | |
| <i>D</i> | <i>2-2-99</i> | <i>14:40</i> | <i>W</i> | <i>3</i> | | | <i>X</i> | <i>X</i> | <i>X</i> | | | | | | | | | |
| <i>E</i> | <i>2-2-99</i> | <i>15:04</i> | <i>W</i> | <i>3</i> | | | <i>X</i> | <i>X</i> | <i>X</i> | | | | | | | | | |
| <i>F</i> | <i>2-2-99</i> | <i>15:30</i> | <i>W</i> | <i>3</i> | | | <i>X</i> | <i>X</i> | <i>X</i> | | | | | | | | | |
| <i>G</i> | <i>2-2-99</i> | <i>15:55</i> | <i>W</i> | <i>3</i> | | | <i>X</i> | <i>X</i> | <i>X</i> | | | | | | | | | |
| <i>H</i> | <i>2-2-99</i> | <i>16:26</i> | <i>W</i> | <i>3</i> | | | <i>X</i> | <i>X</i> | <i>X</i> | | | | | | | | | |
| <i>I</i> | <i>2-2-99</i> | <i>16:55</i> | <i>W</i> | <i>3</i> | | | <i>X</i> | <i>X</i> | <i>X</i> | | | | | | | | | |

| | | | | | | | | |
|--|---------------|-------------|--|---------------|-------------|---|--|--|
| SAMPLED BY (Please Print Name) <i>Kevin Carlin</i> | | | SAMPLED BY (Signature) <i>[Signature]</i> | | | ADDITIONAL COMMENTS <i>C= Conf. MTBE by 8260</i> | | |
| RELINQUISHED BY / AFFILIATION (Print Name / Signature) | DATE | TIME | ACCEPTED BY / AFFILIATION (Print Name / Signature) | DATE | TIME | | | |
| <i>[Signature]</i> | <i>2/8/99</i> | <i>1605</i> | | | | | | |
| | | | <i>Danna Sully</i> | <i>2/9/99</i> | <i>1000</i> | | | |

SPL Houston Environmental Laboratory

Sample Login Checklist

| | |
|---|---|
| Date: 2/9/99 | Time: 1000 |
|---|---|

| |
|--|
| SPL Sample ID: 9902394 |
|--|

| | | <u>Yes</u> | <u>No</u> |
|----|--|--|-----------|
| 1 | Chain-of-Custody (COC) form is present. | ✓ | |
| 2 | COC is properly completed. | ✓ | |
| 3 | If no, Non-Conformance Worksheet has been completed. | | |
| 4 | Custody seals are present on the shipping container. | ✓ | |
| 5 | If yes, custody seals are intact. | ✓ | |
| 6 | All samples are tagged or labeled. | ✓ | |
| 7 | If no, Non-Conformance Worksheet has been completed. | | |
| 8 | Sample containers arrived intact | ✓ | |
| 9 | Temperature of samples upon arrival: | 6^o | C |
| 10 | Method of sample delivery to SPL: | SPL Delivery | |
| | | Client Delivery | |
| | | FedEx Delivery (airbill #) 304039488588 | |
| | | Other: | |
| 11 | Method of sample disposal: | SPL Disposal | |
| | | HOLD | |
| | | Return to Client | |

| | |
|--|---|
| Name: Lockrum | Date: 2/9/99 |
|--|---|

Field Data Sheets

BP WELL MONITORING DATA SHEET

| | |
|-------------------------------------|--|
| Project #: <u>990202-X</u> | Job #: <u>11132</u> |
| Sampler: <u>K.C.</u> | Date: <u>2-2-99</u> |
| Well I.D.: <u>MW-1</u> | Well Diameter: <u>2</u> 3 4 6 8 |
| Total Well Depth: <u>44.29</u> | Depth to Water: <u>18.93</u> |
| Depth to Free Product: <u>18.90</u> | Thickness of Free Product (feet): <u>.03</u> |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): YSI HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 2" | 0.16 | 5" | 1.02 |
| 3" | 0.37 | 6" | 1.47 |
| 4" | 0.65 | Other | radius ² * 0.163 |

| | |
|---|---|
| Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible Extraction Pump Other: _____ | Sampling Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Extraction Port <input type="checkbox"/> Other: _____ |
|---|---|

| | | | | | |
|-----------------------|----------|-------------------|----------|-------------------|------|
| <u>4.0</u> | <u>X</u> | <u>3</u> | <u>=</u> | <u>3</u> | Gals |
| I Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|----------------------------|-----------|-----|-------|-----------|---------------|--------------|
| 15:40 | 68.4 | 7.2 | 1200 | 115 | 4.0 | |
| 15:46 | 68.8 | 7.0 | 1000 | 120 | 8.0 | |
| 15:51 | 68.8 | 7.1 | 1000 | 129 | 12.0 | |
| | | | | | | |
| * Bailed 15 ml of product. | | | | | | |

| | |
|---|---|
| Did well dewater? Yes <input checked="" type="checkbox"/> NO <input type="checkbox"/> | Gallons actually evacuated: <u>12.0</u> |
| Sampling Time: <u>15:58</u> | Sampling Date: <u>2-2-99</u> |
| Sample I.D.: <u>WDA-6</u> | Laboratory: <u>SPD</u> Other: _____ |
| Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input type="checkbox"/> TPH-D Other: | |
| D.O. (if req'd): | Pre-purge: <input type="checkbox"/> mg/L <input type="checkbox"/> Post-purge: <input type="checkbox"/> mg/L |
| O.R.P (if req'd): | Pre-purge: <input type="checkbox"/> mV <input type="checkbox"/> Post-purge: <input type="checkbox"/> mV |

BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|---------------------------------------|
| Project #: <u>990202-X</u> | Job #: <u>11132</u> |
| Sampler: <u>K.C</u> | Date: <u>2-2-99</u> |
| Well I.D.: <u>MW-2</u> | Well Diameter: <u>Ø 3 4 6 8</u> _____ |
| Total Well Depth: <u>34.38</u> | Depth to Water: <u>15.46</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): YSI HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 2" | 0.16 | 5" | 1.02 |
| 3" | 0.37 | 6" | 1.47 |
| 4" | 0.65 | Other | radius ² * 0.163 |

| | |
|---|--|
| Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> <input type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____ | Sampling Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> <input type="checkbox"/> Extraction Port Other: _____ |
|---|--|

| | | | | |
|-----------------------|---|-------------------|---|---------------------------------|
| <u>3.0</u> | x | <u>3</u> | = | <u>12.0 9.0</u> Gals |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals Removed | Observations |
|--------------|-------------|------------|-------------|-------------|--------------|--------------|
| <u>15:15</u> | <u>68.2</u> | <u>7.5</u> | <u>1500</u> | <u>7200</u> | <u>3</u> | |
| <u>15:19</u> | <u>69.4</u> | <u>7.3</u> | <u>1200</u> | <u>7200</u> | <u>6</u> | |
| <u>15:23</u> | <u>69.6</u> | <u>7.4</u> | <u>1200</u> | <u>7200</u> | <u>9</u> | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: ~~12.0~~ 9.0

Sampling Time: 15:30 Sampling Date: 2-2-99

Sample I.D.: MW-2 F Laboratory: SPB Other: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

| | | | | |
|--------------------|------------|------|-------------|------|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

BP WELL MONITORING DATA SHEET

| | |
|---------------------------------------|---|
| Project #: <u>990202-X</u> | Job #: <u>11132</u> |
| Sampler: <u>K.C</u> | Date: <u>2-2-99</u> |
| Well I.D.: <u>MW-3</u> | Well Diameter: <u>2</u> 3 4 6 8 _____ |
| Total Well Depth: <u>34.42</u> | Depth to Water: <u>3.12</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade _____ | D.O. Meter (if req'd): YSI _____ HACH _____ |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 2" | 0.16 | 5" | 1.02 |
| 3" | 0.37 | 6" | 1.47 |
| 4" | 0.65 | Other | radius ² * 0.163 |

Purge Method: Bailor Sampling Method: Bailor
 Disposable Bailor Middleburg Disposable Bailor Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

Other: _____

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|------|
| <u>3.4</u> | x | <u>3</u> | = | <u>10.2</u> | Gals |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond | Turbidity | Gals Removed | Observations |
|--------------|-------------|------------|------------|-------------|--------------|--------------|
| <u>13:00</u> | <u>67.4</u> | <u>6.9</u> | <u>740</u> | <u>7200</u> | <u>3.5</u> | |
| <u>13:04</u> | <u>68.0</u> | <u>7.1</u> | <u>720</u> | <u>7200</u> | <u>6.5</u> | |
| <u>13:08</u> | <u>68.8</u> | <u>7.0</u> | <u>720</u> | <u>7200</u> | <u>10.5</u> | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: 10.5

Sampling Time: 1313 Sampling Date: 2-2-99

Sample I.D.: 1002-A Laboratory: SPB Other: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

| | | | | |
|--------------------|------------|------|-------------|------|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|--|
| Project #: <u>990202-X</u> | Job #: <u>11132</u> |
| Sampler: <u>K.C</u> | Date: <u>2-2-99</u> |
| Well I.D.: <u>MW-4</u> | Well Diameter: (2) 3 4 6 8 <u> </u> |
| Total Well Depth: <u>39.45</u> | Depth to Water: <u>18.26</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): YSI HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 2" | 0.16 | 5" | 1.02 |
| 3" | 0.37 | 6" | 1.47 |
| 4" | 0.65 | Other | radius ² * 0.163 |

| | |
|---|---|
| Purge Method: | Sampling Method: |
| Bailer | Bailer |
| Disposable Bailer <input checked="" type="checkbox"/> | Disposable Bailer <input checked="" type="checkbox"/> |
| Middleburg | Extraction Port |
| Electric Submersible | Other <u> </u> |
| Extraction Pump | |

Other:

$$\frac{3.3}{1 \text{ Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{9.9}{\text{Calculated Volume}} \text{ Gals}$$

| Time | Temp (°F) | pH | Cond | Turbidity | Gals Removed | Observations |
|-------|-----------|-----|------|-----------|--------------|--------------|
| 13:20 | 67.8 | 7.8 | 960 | 7200 | 3 | |
| 13:24 | 68.4 | 7.4 | 890 | 7200 | 6 | |
| 13:29 | 68.8 | 7.2 | 810 | 7200 | 10 | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: 10

Sampling Time: 13:37 Sampling Date: 2-2-99

Sample I.D.: MW-4 Laboratory: SPB Other:

Analyzed for: TPH-G BTEX MTBE TPH-D Other

| | | | | |
|--------------------|------------|------|-------------|------|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|---|
| Project #: <u>990202-X</u> | Job #: <u>11132</u> |
| Sampler: <u>K.C</u> | Date: <u>2-2-99</u> |
| Well I.D.: <u>MW-5</u> | Well Diameter: <u>2</u> 3 4 6 8 <u> </u> |
| Total Well Depth: <u>29.90</u> | Depth to Water: <u>12.56</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): YSI HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 2" | 0.16 | 5" | 1.02 |
| 3" | 0.37 | 6" | 1.47 |
| 4" | 0.65 | Other | radius ² * 0.163 |

| | |
|--|---|
| Purge Method: <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Disposable Bailor <input type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____ | Sampling Method: <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Disposable Bailor <input type="checkbox"/> Extraction Port Other: _____ |
|--|---|

| | | | | | |
|----------------------|---|-------------------|---|-------------------|------|
| <u>2.7</u> | X | <u>3</u> | = | <u>8.1</u> | Gals |
| 1 Case Volume (Gals) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|-------|-----------|-----|-------|-----------|---------------|--------------|
| 14:26 | 64.0 | 7.6 | 860 | 82 | 2.5 | |
| 14:29 | 64.8 | 7.4 | 830 | 52 | 5.0 | |
| 14:33 | 65.6 | 7.4 | 810 | 37 | 8.5 | |
| | | | | | | |
| | | | | | | |

| | | |
|---|---------------------------------------|------------------------|
| Did well dewater? Yes <input checked="" type="checkbox"/> <u>NO</u> | Gallons actually evacuated: <u>85</u> | |
| Sampling Time: <u>14:40</u> | Sampling Date: <u>2-2-99</u> | |
| Sample I.D.: <u>OTHER D</u> | Laboratory: <u>SPD</u> Other: _____ | |
| Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> TPH-D Other: _____ | | |
| D.O. (if req'd): | Pre-purge: _____ mg/L | Post-purge: _____ mg/L |
| O.R.P. (if req'd): | Pre-purge: _____ mV | Post-purge: _____ mV |

BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|---|
| Project #: <u>990202-X</u> | Job #: <u>11132</u> |
| Sampler: <u>K.C</u> | Date: <u>2-2-99</u> |
| Well I.D.: <u>MW-8</u> | Well Diameter: <u>Ø</u> 3 4 6 8 <u> </u> |
| Total Well Depth: <u>39.27</u> | Depth to Water: <u>18.29</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): YSI HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 2" | 0.16 | 5" | 1.02 |
| 3" | 0.37 | 6" | 1.47 |
| 4" | 0.65 | Other | radius ² * 0.163 |

Purge Method: Baile
 Disposable Baile
 Middleburg
 Electric Submersible
 Extraction Pump
 Other: _____

Sampling Method: Baile
 Disposable Baile
 Extraction Port
 Other: _____

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|------|
| <u>33</u> | x | <u>3</u> | = | <u>9.9</u> | Gals |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals Removed | Observations |
|--------------|-------------|------------|-------------|------------|--------------|--------------|
| <u>16:10</u> | <u>68.2</u> | <u>7.6</u> | <u>1200</u> | <u>118</u> | <u>3</u> | |
| <u>16:14</u> | <u>69.0</u> | <u>7.4</u> | <u>1100</u> | <u>74</u> | <u>6</u> | |
| <u>16:18</u> | <u>69.8</u> | <u>7.4</u> | <u>1000</u> | <u>56</u> | <u>10</u> | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: 9.10

Sampling Time: 16:26 Sampling Date: 2-2-99

Sample I.D.: AAAA-H Laboratory: SPb Other: _____

Analyzed for: TPH-G BTEX MTEL TPH-D Other: _____

| | | | | |
|--------------------|------------|------|-------------|------|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|-----------------------------------|
| Project #: <u>990202-X</u> | Job #: <u>11132</u> |
| Sampler: <u>K.C</u> | Date: <u>2-2-99</u> |
| Well I.D.: <u>MW-9</u> | Well Diameter: <u>(2)</u> 3 4 6 8 |
| Total Well Depth: <u>29.28</u> | Depth to Water: <u>12.33</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): YSI HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 2" | 0.16 | 5" | 1.02 |
| 3" | 0.37 | 6" | 1.47 |
| 4" | 0.65 | Other | radius ² * 0.163 |

| | |
|---|--|
| Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible Extraction Pump Other: _____ | Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port <input type="checkbox"/> Other _____ |
|---|--|

| | | | | | |
|-----------------------|---|-------------------|---|-------------------|------|
| <u>2.7</u> | x | <u>3</u> | = | <u>8.1</u> | Gals |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|--------------|-------------|------------|-------------|-------------|---------------|--------------|
| <u>14:49</u> | <u>65.8</u> | <u>7.4</u> | <u>1100</u> | <u>7200</u> | <u>2.5</u> | |
| <u>14:53</u> | <u>66.4</u> | <u>7.2</u> | <u>1000</u> | <u>7200</u> | <u>5.0</u> | |
| <u>14:57</u> | <u>67.0</u> | <u>7.0</u> | <u>1000</u> | <u>7200</u> | <u>8.0</u> | |
| | | | | | | |
| | | | | | | |

| | |
|---|--|
| Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Gallons actually evacuated: <u>8.5</u> |
| Sampling Time: <u>15:04</u> | Sampling Date: <u>2-2-99</u> |
| Sample I.D.: <u>MW-9 E</u> | Laboratory: <u>SPB</u> Other: _____ |

| | | | |
|---|------------|------|------------------|
| Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTEB</u> TPH-D Other: _____ | | | |
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: mV |

BP WELL MONITORING DATA SHEET

| | |
|---------------------------------|---------------------------------------|
| Project #: <u>990202-X</u> | Job #: <u>11132</u> |
| Sampler: <u>K.C</u> | Date: <u>2-2-99</u> |
| Well I.D.: <u>MW-10</u> | Well Diameter: <u>2</u> 3 4 6 8 _____ |
| Total Well Depth: <u>34.00</u> | Depth to Water: <u>14.55</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): YSI HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 2" | 0.16 | 5" | 1.02 |
| 3" | 0.37 | 6" | 1.47 |
| 4" | 0.65 | Other | radius ² * 0.163 |

| | |
|---|--|
| Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> <input type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____ | Sampling Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> <input type="checkbox"/> Extraction Port Other: _____ |
|---|--|

| | | | | | |
|----------------------|---|-------------------|---|-------------------|------|
| <u>3.1</u> | X | <u>3</u> | = | <u>9.3</u> | Gals |
| 1 Case Volume (Gals) | | Specified Volumes | | Calculated Volume | |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|-------|-----------|-----|-------|-----------|---------------|--------------|
| 16:39 | 65.4 | 7.0 | 1000 | 72 | 3.0 | |
| 16:43 | 66.8 | 6.9 | 900 | 57 | 6.0 | |
| 16:47 | 67.2 | 6.9 | 9.00 | 38 | 9.5 | |
| | | | | | | |
| | | | | | | |

| | |
|---|--|
| Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Gallons actually evacuated: <u>9.5</u> |
| Sampling Time: <u>16.55</u> | Sampling Date: <u>2-2-99</u> |
| Sample I.D.: <u>MW-10-I</u> | Laboratory: <u>SPB</u> Other _____ |

| | | |
|---|-----------------------|------------------------|
| Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> TPH-D Other: _____ | | |
| D.O. (if req'd): | Pre-purge: _____ mg/L | Post-purge: _____ mg/L |
| O.R.P. (if req'd): | Pre-purge: _____ mV | Post-purge: _____ mV |

BP WELL MONITORING DATA SHEET

| | |
|--------------------------------------|-----------------------------------|
| Project #: <u>990202-X</u> | Job #: <u>11132</u> |
| Sampler: <u>K.C</u> | Date: <u>2-2-99</u> |
| Well I.D.: #6 <u>RW-1</u> | Well Diameter: 2 3 4 <u>6</u> 8 |
| Total Well Depth: <u>38.37</u> | Depth to Water: <u>14.58</u> |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: <u>PVC</u> Grade | D.O. Meter (if req'd): YSI HACH |

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---------------|------------|---------------|-----------------------------|
| 2" | 0.16 | 5" | 1.02 |
| 3" | 0.37 | 6" | 1.47 |
| 4" | 0.65 | Other | radius ² * 0.163 |

Purge Method: Bailer Sampling Method: Bailer
 Disposable Bailer Disposable Bailer
 Middleburg Extraction Port
 Electric Submersible Other: _____
 Extraction Pump

| | | | | |
|-----------------------|---|-------------------|---|-------------------|
| <u>34.9</u> | x | <u>3</u> | = | <u>104.7</u> Gals |
| 1 Case Volume (Gals.) | | Specified Volumes | | Calculated Volume |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|-------|-----------|-----|-------|-----------|---------------|--------------|
| 13:58 | 68.2 | 7.3 | 860 | 179 | 35 | |
| 14:02 | 68.8 | 7.0 | 800 | >200 | 70 | |
| 14:06 | 69.4 | 6.9 | 790 | >200 | 105 | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes No Gallons actually evacuated: 105.0

Sampling Time: 14:17 Sampling Date: 2-2-99

Sample I.D.: ~~RW-1~~ C Laboratory: SPB Other: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

| | | | | |
|--------------------|------------|------|-------------|------|
| D.O. (if req'd): | Pre-purge: | mg/L | Post-purge: | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |