



October 31, 1995

Scott Seery
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: Third Quarter 1995
Shell Service Station
WIC #204-5508-3301
6039 College Avenue
Oakland, California
WA Job #81-0618-205

Dear Mr. Seery:

This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Division 3, Chapter 16, Article 5, Section 2652.d.

Third Quarter 1995 Activities:

- Blaine Tech Services, Inc. (BTS) of San Jose, California measured depths to ground water and collected ground water samples from the site wells. Well MW-4 contained separate-phase hydrocarbons (SPH) and was not sampled. The BTS report describing these activities and analytic results for ground water is included as Attachment A.
- Weiss Associates (WA) compiled the ground water elevation and analytic data (Tables 1 and 2) and prepared a map showing ground water elevations and benzene concentrations (Figure 2). SPH removal data is included in Table 3. To date, over 10 pounds of SPHs have been removed from the subsurface.

Anticipated Fourth Quarter 1995 Activities:

- WA will submit a report presenting the results of fourth quarter 1995 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results and a ground water elevation contour map.

ENVIRONMENTAL
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Conclusions and Recommendations:

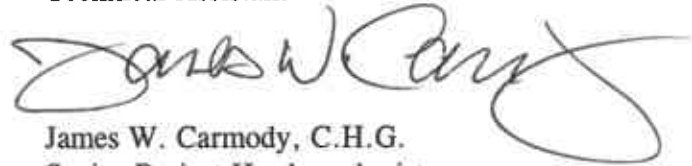
WA recommends continued monitoring of dissolved hydrocarbon concentrations in ground water. Despite the fact that hydrocarbons were detected in soil borings between wells MW-4 and MW-5, no total petroleum hydrocarbons as gasoline (TPH-G) or benzene, ethylbenzene, toluene and xylenes (BETX) have been detected in ground water samples collected from well MW-5 since it was installed in 1991. No BETX compounds or more than 120 ppb TPH-G have consistently been detected in ground water samples collected from downgradient well MW-6. Therefore, it appears the downgradient extent of hydrocarbons in ground water has been fully assessed.

Please call if you have any questions.

Sincerely,
Weiss Associates




Grady S. Glasser
Technical Assistant


James W. Carmody, C.H.G.
Senior Project Hyrdogeologist

Attachments: A - BTS Ground Water Monitoring Report

cc: R. Jeff Granberry, Shell Oil Products Company, P.O. Box 4023, Concord, CA 94524
Tom Callaghan, San Francisco Bay Regional Water Quality Control Board, 2101 Webster Street, Oakland, CA 94612

GSG/JWC:all
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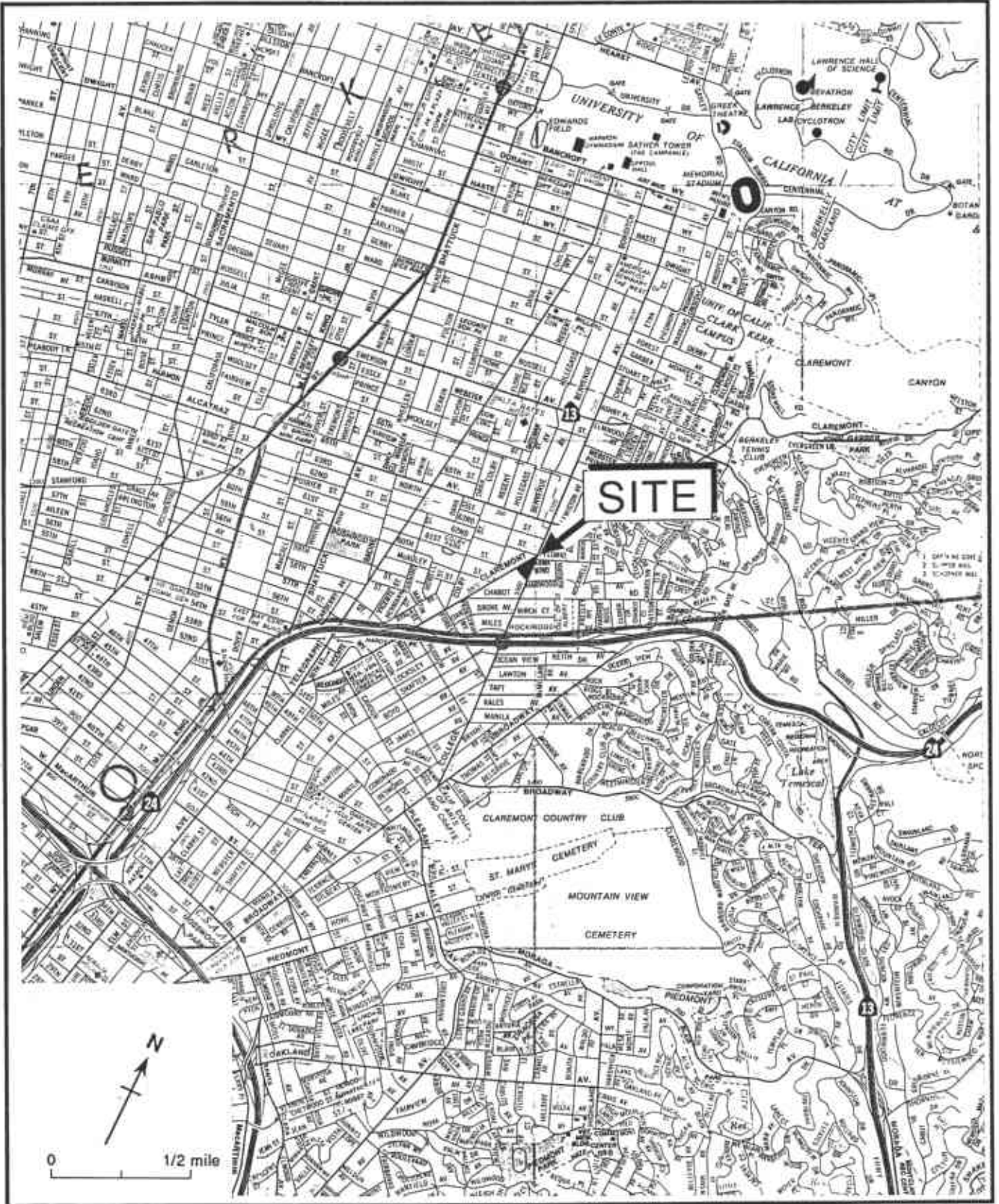


Figure 1. Site Location Map - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California

| EXPLANATION | |
|-------------|---|
| ⊙ MW-1 | Monitoring well |
| 180.29 | Ground water elevation, ft above mean sea level |
| 178.42* | Adjusted ground water elevation due to presence of separate phase hydrocarbons |
| [<0.5] | Benzene concentrations in parts per billion (ppb) |
| NS | Not Sampled |
| -179.0 | Ground water elevation contour, ft above mean sea level, approximately located, dashed where inferred |
| → | Inferred ground water flow direction |

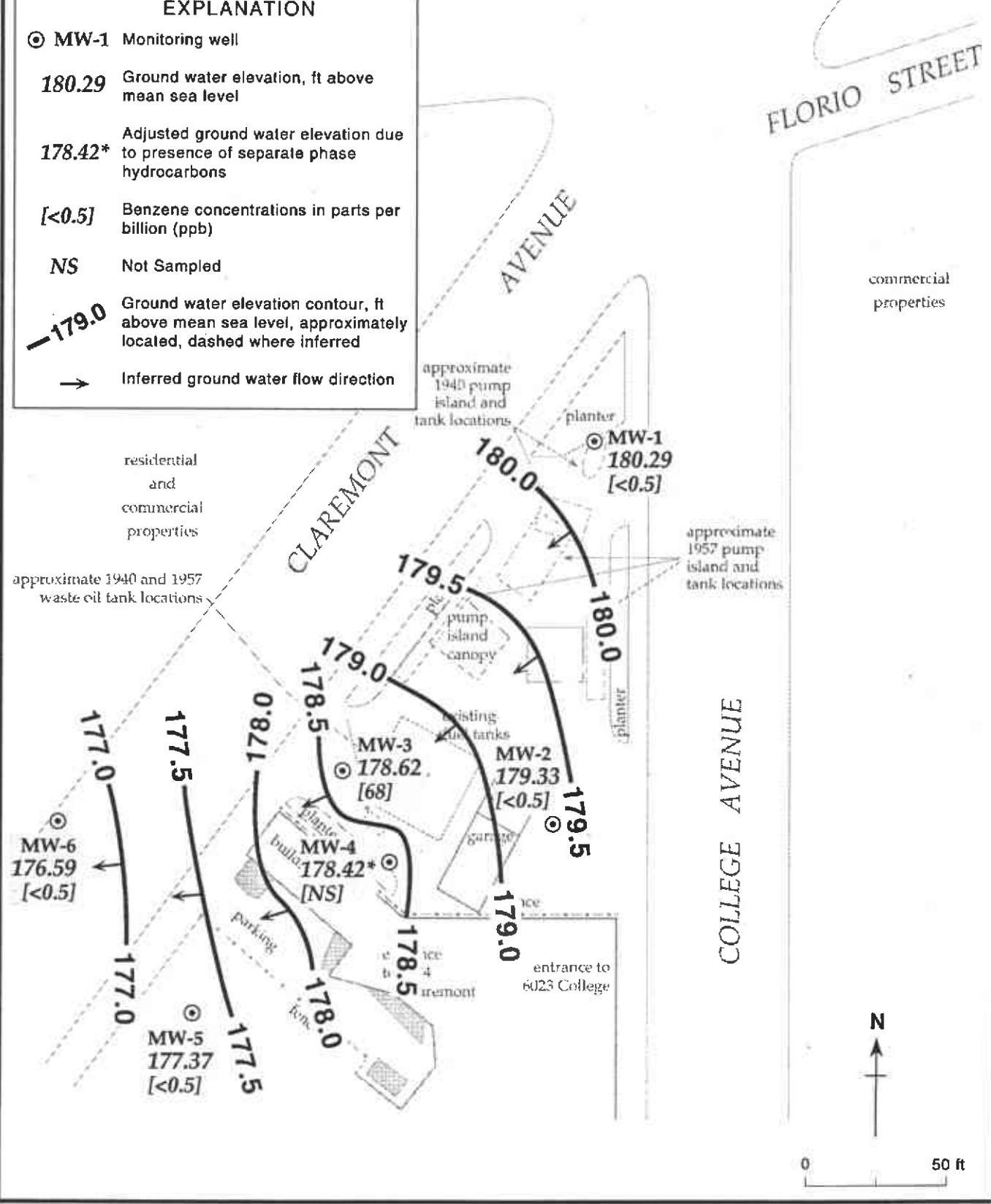


Figure 2. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentrations in Ground Water - August 24, 1995 - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California

| Well ID | Date | Top-of-Casing Elevation (ft above msl) | Depth to Water (ft) | Separate-Phase Hydrocarbon Thickness (ft) | Ground Water Elevation (ft above msl) ^a |
|----------|----------|--|---------------------|---|--|
| MW-1 | 02/15/90 | 195.89 | 17.73 | | 178.16 |
| | 04/19/90 | | 18.51 | | 177.38 |
| | 05/14/90 | | 18.92 | | 176.97 |
| | 06/21/90 | | 18.21 | | 177.68 |
| | 09/12/90 | | 19.81 | | 176.08 |
| | 11/27/90 | | 20.39 | | 175.50 |
| | 03/08/91 | | 16.85 | | 179.04 |
| | 06/03/91 | | 17.82 | | 178.07 |
| | 08/30/91 | | 19.87 | | 176.02 |
| | 11/22/91 | | 20.58 | | 175.31 |
| | 03/18/92 | | 13.55 | | 182.34 |
| | 05/28/92 | | 17.08 | | 178.81 |
| | 08/19/92 | | 19.07 | | 176.82 |
| | 11/17/92 | | 20.11 | | 175.78 |
| | 02/12/93 | | 12.10 | | 183.79 |
| | 06/10/93 | | 14.87 | | 181.02 |
| | 08/18/93 | | 16.90 | | 178.99 |
| | 11/19/93 | | 19.72 | | 176.17 |
| | 02/28/94 | | 15.08 | | 180.81 |
| | 05/04/94 | | 17.20 | | 178.69 |
| | 08/10/94 | | 18.76 | | 177.13 |
| 11/08/94 | 16.00 | | 179.89 | | |
| 02/01/95 | 10.18 | | 185.71 | | |
| 05/10/95 | 11.88 | | 184.01 | | |
| 08/24/95 | 15.60 | | 180.29 | | |
| MW-2 | 02/15/90 | 194.27 | 16.90 | | 177.37 |
| | 04/19/90 | | 17.69 | | 176.58 |
| | 05/14/90 | | 18.01 | | 176.26 |
| | 06/21/90 | | 17.39 | | 176.88 |
| | 09/12/90 | | 19.00 | | 175.27 |
| | 11/27/90 | | 19.44 | | 174.83 |
| | 03/08/91 | | 15.96 | | 178.31 |
| | 06/03/91 | | 17.00 | | 177.27 |
| | 08/30/91 | | 18.95 | | 175.32 |
| | 11/22/91 | | 19.55 | | 174.72 |
| | 03/18/92 | | 12.91 | | 181.36 |
| | 05/28/92 | | 16.25 | | 178.02 |
| | 08/19/92 | | 18.21 | | 176.06 |
| | 11/17/92 | | 19.15 | | 175.12 |
| | 02/12/93 | | 11.60 | | 182.67 |
| | 06/10/93 | | 14.14 | | 180.13 |
| 08/18/93 | 16.10 | | 178.17 | | |

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California (continued)

| Well ID | Date | Top-of-Casing Elevation (ft above msl) | Depth to Water (ft) | Separate-Phase Hydrocarbon Thickness (ft) | Ground Water Elevation (ft above msl) ^a |
|---------|-----------------|--|---------------------|---|--|
| | 11/19/93 | | 18.77 | | 175.50 |
| | 02/28/94 | | 14.35 | | 179.92 |
| | 05/04/94 | | 16.34 | | 177.93 |
| | 08/10/94 | | 15.79 | | 178.48 |
| | 11/08/94 | | 15.04 | | 179.23 |
| | 02/01/95 | | 10.08 | | 184.19 |
| | 05/10/95 | | 11.68 | | 182.59 |
| | 08/24/95 | | 14.94 | | 179.33 |
| MW-3 | 02/15/90 | 192.52 | 15.81 | | 176.71 |
| | 04/19/90 | | 16.57 | | 175.95 |
| | 05/14/90 | | 16.97 | | 175.55 |
| | 06/21/90 | | 16.27 | | 176.25 |
| | 09/12/90 | | 18.78 | | 173.74 |
| | 11/27/90 | | 18.27 | | 174.25 |
| | 03/08/91 | | 14.86 | | 177.66 |
| | 06/03/91 | | 15.84 | | 176.68 |
| | 08/30/91 | | 17.79 | | 174.73 |
| | 11/22/91 | | 18.40 | | 174.12 |
| | 03/18/92 | | 12.03 | | 180.49 |
| | 05/28/92 | | 15.16 | | 177.36 |
| | 08/19/92 | | 17.03 | | 175.49 |
| | 11/17/92 | | 17.94 | | 174.58 |
| | 02/12/93 | | 9.16 | | 183.36 |
| | 06/10/93 | | 13.20 | | 179.32 |
| | 08/18/93 | | 14.93 | | 177.59 |
| | 11/19/93 | | 17.58 | | 174.94 |
| | 02/28/94 | | 13.30 | | 179.22 |
| | 05/04/94 | | 15.25 | | 177.27 |
| | 08/10/94 | | 16.63 | | 175.89 |
| | 11/08/94 | | 13.88 | | 178.64 |
| | 02/01/95 | | 9.25 | | 183.27 |
| | 05/10/95 | | 10.76 | | 181.74 |
| | 08/24/95 | | 13.90 | | 178.62 |
| MW-4 | 02/15/90 | 193.37 | 16.73 | | 176.65 |
| | 04/19/90 | | 17.48 | | 175.89 |
| | 05/14/90 | | 17.88 | | 175.49 |
| | 06/21/90 | | 17.18 | | 176.19 |
| | 09/12/90 | | 17.85 | | 175.52 |
| | 11/27/90 | | 19.16 | | 174.21 |
| | 03/08/91 | | 15.77 | | 177.60 |
| | 06/03/91 | | 16.77 | | 176.60 |

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California (continued)

| Well ID | Date | Top-of-Casing Elevation (ft above msl) | Depth to Water (ft) | Separate-Phase Hydrocarbon Thickness (ft) | Ground Water Elevation (ft above msl) ^a |
|---------|-----------------------|--|---------------------|---|--|
| | 08/30/91 | | 18.71 | | 174.66 |
| | 11/22/91 | | --- | | --- |
| | 03/18/92 ^a | | 13.15 | 0.24 | 180.41 |
| | 05/28/92 ^a | | 16.22 | 0.12 | 177.25 |
| | 08/19/92 ^a | | 18.05 | 0.09 | 175.39 |
| | 11/17/92 | | 18.89 | | 174.48 |
| | 02/12/93 | | 11.78 | <0.01 | 181.59 |
| | 06/10/93 | | 14.20 | | 179.17 |
| | 08/18/93 | | 15.95 | 0.01 | 177.43 |
| | 11/19/93 | | 18.48 | 0.01 | 174.90 |
| | 02/28/94 | | 14.60 | <0.01 | 178.77 |
| | 05/04/94 | | 16.15 | <0.01 | 177.22 |
| | 08/10/94 | | 17.58 | 0.02 | 175.81 |
| | 11/08/94 | | 15.05 | 0.05 | 178.36 |
| | 02/01/95 | | 10.71 | 0.04 | 182.69 |
| | 05/10/95 | | 11.90 | 0.06 | 181.52 |
| | 08/24/95 | | 14.97 | 0.02 | 178.42 |
| MW-5 | 08/30/91 | 190.35 | 16.74 | | 173.61 |
| | 11/22/91 | | 17.27 | | 173.08 |
| | 03/18/92 | | 11.28 | | 179.07 |
| | 05/28/92 ^b | | --- | | --- |
| | 08/19/92 | | 15.99 | | 174.36 |
| | 11/17/92 | | 16.84 | | 173.51 |
| | 02/12/93 | | 10.30 | | 180.05 |
| | 06/10/93 | | 12.36 | | 177.99 |
| | 08/18/93 | | 14.02 | | 176.33 |
| | 11/19/93 | | 16.50 | | 173.85 |
| | 02/28/94 | | 12.55 | | 177.80 |
| | 05/04/94 | | 14.27 | | 176.08 |
| | 08/10/94 | | 15.60 | | 174.75 |
| | 11/08/94 | | 12.85 | | 177.50 |
| | 02/01/95 | | 8.98 | | 181.37 |
| | 05/10/95 | | 10.16 | | 180.19 |
| | 08/24/95 | | 12.98 | | 177.37 |
| MW-6 | 09/21/93 | 189.05 | 14.64 | | 174.41 |
| | 11/19/93 | | --- | | --- |
| | 02/28/94 | | 12.18 | | 176.87 |
| | 05/04/94 | | 13.62 | | 175.43 |
| | 08/10/94 | | 14.98 | | 174.07 |
| | 11/08/94 | | 12.20 | | 176.85 |

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California (continued)

| Well ID | Date | Top-of-Casing Elevation (ft above msl) | Depth to Water (ft) | Separate-Phase Hydrocarbon Thickness (ft) | Ground Water Elevation (ft above msl) ^a |
|---------|----------|--|---------------------|---|--|
| | 02/01/95 | | 8.70 | | 180.35 |
| | 05/10/95 | | 9.86 | | 179.19 |
| | 08/24/95 | | 12.46 | | 176.59 |

Notes:

- a = When separate-phase hydrocarbons are present, ground water elevation is corrected by the relation: Corrected ground water elevation = (Top-of-Casing Elevation) - (depth to water) + (0.8 x separate-phase hydrocarbon thickness)
- b = Well inaccessible
- = Data not available

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California

| Well/Boring ID | Date Sampled | Depth to Water (ft) | TPH-G | TPH-D | TPH-MO | POG | parts per billion (µg/L) | | | | SVOCs |
|----------------|-------------------------|---------------------|-------|-------|--------|------|--------------------------|------|------|------|-------|
| | | | | | | | B | E | T | X | |
| MW-1 | 02/13/90 | 17.73 | 95 | 650 | 770 | --- | ND | 0.37 | 0.67 | 3.2 | --- |
| | 05/14/90 | 18.92 | 95 | ND | 770 | --- | 0.70 | 0.71 | 0.57 | 3.5 | --- |
| | 09/12/90 | 19.81 | ND | 84 | ND | --- | ND | ND | ND | ND | --- |
| | 11/27/90 | 20.39 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | 03/08/91 | 16.85 | ND | 50 | ND | --- | ND | ND | ND | ND | --- |
| | 06/03/91 | 17.82 | ND | ND | ND | --- | ND | ND | ND | ND | --- |
| | 08/30/91 | 19.87 | 16.85 | 520 | ND | --- | ND | ND | ND | ND | --- |
| | 11/22/91 | 20.58 | <50 | <50 | <500 | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 03/18/92 | 13.55 | <30 | <50 | --- | --- | <0.3 | <0.3 | <0.3 | <0.3 | --- |
| | 05/28/92 | 17.08 | <50 | <50 | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 08/19/92 | 19.07 | <50 | <50 | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 11/17/92 | 20.11 | <50 | <50 | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 02/12/93 | 12.10 | <50 | <50 | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 06/10/93 | 14.87 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 06/10/93 ^{dup} | 14.87 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 08/18/93 | 16.90 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 11/19/93 | 19.72 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 02/18/94 | 15.08 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | 1.7 | --- |
| | 05/04/94 | 17.20 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 08/10/94 | 18.76 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 08/10/94 ^{dup} | 18.76 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 11/08/94 | 16.00 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 02/01/95 | 10.18 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| 05/10/95 | 11.88 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| 08/24/95 | 15.60 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| MW-2 | 02/13/90 | 16.90 | ND | 560 | ND | --- | ND | ND | ND | ND | --- |
| | 05/14/90 | 18.01 | ND | ND | ND | --- | ND | ND | ND | ND | --- |
| | 09/12/90 | 19.00 | ND | ND | ND | --- | ND | ND | ND | ND | --- |
| | 11/27/90 | 19.44 | ND | ND | ND | --- | ND | ND | ND | ND | --- |
| | 03/08/91 | 15.96 | ND | ND | ND | --- | ND | ND | ND | ND | --- |
| | 06/03/91 | 17.00 | ND | ND | ND | --- | ND | ND | ND | ND | --- |
| | 08/30/91 | 18.95 | ND | ND | ND | --- | ND | ND | ND | ND | --- |
| | 11/22/91 | 19.55 | <50 | <50 | <500 | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 03/18/92 | 12.91 | <30 | --- | --- | --- | <0.3 | <0.3 | <0.3 | <0.3 | --- |
| | 05/28/92 | 16.25 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 08/19/92 | 18.21 | <50 | --- | --- | --- | <0.5 | 1.2 | 2 | 1.9 | --- |

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California (continued)

| Well/Boring ID | Date Sampled | Depth to Water (ft) | TPH-G | TPH-D | TPH-MO | POG | parts per billion (µg/L) | | | | | SVOCs |
|----------------|-------------------------|---------------------|--------------------|--------------------|------------------|--------|--------------------------|------|------|------|-----|-------|
| | | | | | | | B | E | T | X | | |
| | 11/17/92 | 19.15 | <50 | --- | --- | --- | <0.5 | 1.2 | 2 | 1.9 | --- | |
| | 02/12/93 ^{dup} | 11.60 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 02/12/93 | 11.60 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 06/10/93 | 14.14 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 08/18/93 | 16.10 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 08/18/93 ^{dup} | 16.10 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 11/19/93 | 18.77 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 02/18/94 | 14.55 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | 1.6 | --- | |
| | 05/04/94 | 16.34 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 08/10/94 | 15.79 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 11/08/94 | 15.04 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 02/01/95 | 10.08 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 05/10/95 | 11.68 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 08/24/95 | 14.94 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| MW-3 | 02/13/90 | 15.81 | 4,700 | 3,100 | 3,000 | --- | 320 | 110 | 29 | 33 | --- | |
| | 02/13/90 ^{dup} | 15.81 | 4,600 | 4,500 | 8,300 | --- | 380 | 160 | 8.6 | 57 | --- | |
| | 05/14/90 | 16.97 | 1,400 | 620 | 40,000 | --- | 130 | 40 | 8.6 | 17 | --- | |
| | 05/14/90 ^{dup} | 16.97 | 8,200 | 660 | 10,000 | --- | 120 | 38 | 31 | 13 | --- | |
| | 09/12/90 | 18.78 | 2,000 | 1,500 | 19,000 | --- | 58 | 16 | 5.8 | 15 | --- | |
| | 11/27/90 | 18.27 | 540 | 240 | 460 | --- | 18 | 8.7 | 1.5 | 2.5 | --- | |
| | 03/08/91 | 14.86 | 3,400 | 2,100 | ND | --- | 630 | 270 | 33 | 18 | --- | |
| | 06/03/91 | 15.84 | 1,700 | 690 ^a | ND | --- | 260 | 98 | 13 | 24 | --- | |
| | 08/30/91 | 17.79 | 870 | 370 ^b | 500 | --- | 44 | 10 | 6.1 | 2.9 | --- | |
| | 11/22/91 | 18.40 | 310 | 140 | 500 | --- | 18 | 3.3 | 1.2 | 2.9 | --- | |
| | 03/18/92 | 12.03 | 67,100 | 1,900 | 20,000 | --- | 620 | 220 | 28 | 38 | --- | |
| | 05/28/92 | 15.16 | 2,300 | 1,100 ^c | 4,600 | --- | 200 | 71 | 9 | 17 | --- | |
| | 08/19/92 | 17.03 | 5,700 | 1,000 ^c | 1,800 | --- | 71 | 52 | 77 | 130 | --- | |
| | 11/17/92 | 17.94 | 3,600 | 160 ^e | 1,200 | --- | 16 | 24 | 8.6 | 50 | --- | |
| | 02/12/93 | 9.16 | 4,700 | 560 ^e | <50 | --- | 820 | 130 | 58 | 77 | --- | |
| | 06/10/93 | 13.20 | 2,200 | --- | 940 ^d | --- | 310 | 89 | 23 | 23 | --- | |
| | 08/18/93 | 14.93 | 260 | --- | 460 ^d | --- | 27 | 7.0 | 2.0 | 2.2 | --- | |
| | 11/19/93 | 17.58 | 1,500 ^e | --- | 960 ^d | <5,000 | 24 | 37 | 54 | 17 | --- | |
| | 02/18/94 | 13.30 | 2,700 | --- | 1,600 | <5,000 | 65 | 16 | 5.2 | 6.3 | --- | |
| | 02/18/94 ^{dup} | 13.30 | 3,100 | --- | 2,200 | <5,000 | 82 | 19 | 6.7 | 7.9 | --- | |
| | 05/04/94 | 15.25 | 780 | --- | 710 | <5,000 | 120 | 21 | 7.5 | 6.9 | f | |
| | 05/04/94 ^{dup} | 15.25 | 920 | --- | 1,600 | <5,000 | 120 | 22 | 7.7 | 7.1 | g | |



Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California (continued)

| Well/Boring ID | Date Sampled | Depth to Water (ft) | TPH-G | TPH-D | TPH-MO | POG | parts per billion (µg/L) | | | | | SVOCs |
|----------------|-------------------------|---------------------|------------------|--------------------|------------------|--------|--------------------------|------|------|------|--------------------|-------|
| | | | | | | | B | E | T | X | | |
| | 08/10/94 | 16.63 | 920 | --- | <500 | <5,000 | 20 | 3.0 | 2.3 | 2.2 | r | |
| | 11/08/94 | 13.88 | 1,300 | --- | 1,300 | --- | 180 | 7.0 | 16 | 12 | | |
| | 11/08/94 ^{dup} | 13.88 | 1,200 | --- | 730 | --- | 170 | 7.2 | 15 | 11 | | |
| | 02/01/95 | 9.25 | 1,400 | --- | 900 ^b | --- | 210 | 11 | 8.5 | 8.7 | r | |
| | 05/10/95 | 10.76 | 460 | --- | --- | <5,000 | 97 | 1.0 | 10 | 19 | r | |
| | 08/24/95 | 13.90 | 640 | --- | --- | <5,000 | 48 | 14 | 21 | 19 | u 12 ppb Negatives | |
| MW-4 | 02/13/90 | 16.73 | ND | 1,200 | 3,000 | --- | ND | ND | ND | ND | --- | |
| | 05/14/90 | 17.88 | 650 | 350 | 12,000 | --- | 160 | 1.9 | 7 | 3.1 | --- | |
| | 09/12/90 | 17.85 | 440 | 260 | 2,600 | --- | 91 | 0.75 | 1.1 | 0.79 | --- | |
| | 09/12/90 ^{dup} | 17.85 | 520 | 1,100 | 16,000 | --- | 85 | 0.71 | 0.71 | 0.81 | --- | |
| | 11/27/90 | 19.16 | 470 | 2,400 | 1,000 | --- | 64 | 0.80 | 1.2 | 2.7 | --- | |
| | 03/08/91 | 15.77 | 1,100 | 2,600 | 15,000 | --- | 330 | 88 | 3.5 | 5.8 | --- | |
| | 06/03/91 | 16.77 | 670 ^h | 1,100 ⁱ | ND | --- | 240 | 1.6 | 2.3 | 2.3 | --- | |
| | 08/30/91 | 18.71 | 570 | 280 ^j | 2,000 | --- | 64 | 0.9 | 1.8 | 0.9 | --- | |
| | 11/22/91 ^{SPH} | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 03/18/92 ^{SPH} | 13.15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 05/28/92 ^{SPH} | 16.22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 08/19/92 ^{SPH} | 18.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 11/17/92 ^{SPH} | 18.89 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 02/12/93 ^{SPH} | 11.78 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 06/10/93 | 14.20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 08/18/93 ^{SPH} | 15.95 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 11/19/93 ^{SPH} | 18.48 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 02/28/94 ^{SPH} | 14.60 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 05/04/94 ^{SPH} | 16.15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 08/10/94 ^{SPH} | 17.58 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 11/08/94 ^{SPH} | 15.05 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 02/01/95 ^{SPH} | 10.71 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 05/10/95 | 11.90 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 08/24/95 | 14.97 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| MW-5 | 08/30/91 | 16.74 | ND | 80 | ND | --- | ND | ND | ND | ND | --- | |
| | 11/22/91 | 17.27 | <50 | <50 | <500 | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 03/18/92 | 11.28 | <30 | <50 | --- | --- | <0.3 | <0.3 | <0.3 | <0.3 | --- | |
| | 05/28/92 ^l | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 08/19/92 | 15.99 | <50 | <50 | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |



Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California (continued)

| Well/Boring ID | Date Sampled | Depth to Water (ft) | TPH-G | TPH-D | TPH-MO | POG | parts per billion (µg/L) | | | | | SVOCs |
|-------------------|-------------------------|---------------------|---------------------|---------------------|--------|--------|--------------------------|------|------|------|--------|-------|
| | | | | | | | B | E | T | X | | |
| | 11/17/92 | 16.84 | <50 | <50 | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 02/12/93 | 10.30 | <50 | <50 | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 06/10/93 | 12.36 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 08/18/93 | 14.02 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 11/19/93 | 16.50 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 11/19/93 ^{dup} | 16.50 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 02/18/94 | 12.55 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 05/04/94 | 14.27 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 08/10/94 | 15.60 | 70 ^o | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 11/08/94 | 12.85 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 02/01/95 | 8.98 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 05/10/95 | 10.16 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 05/10/95 ^{dup} | 10.16 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 08/24/95 | 12.98 | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| MW-6 | 09/21/93 | 14.64 | <50 | <50 | --- | <5,000 | <0.5 | <0.5 | <0.5 | <0.5 | <10-50 | |
| | 11/19/93 ^t | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 02/28/94 | 12.18 | 98 ^l | --- | --- | <5,000 | <0.5 | <0.5 | <0.5 | <0.5 | --- | |
| | 05/04/94 | 13.62 | <50 | --- | --- | <5,000 | <0.5 | <0.5 | <0.5 | <0.5 | <2-10 | |
| | 08/10/94 | 14.98 | 80 ^o | --- | --- | <5,000 | <0.5 | <0.5 | <0.5 | <0.5 | r | |
| | 11/08/94 ^l | 12.20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 02/01/95 | 8.70 | 120 | --- | --- | --- | 3.5 | 3.4 | 21 | 22 | --- | |
| | 02/01/95 ^{dup} | 8.70 | 110 | --- | --- | --- | 0.6 | 0.5 | 0.6 | 0.9 | --- | |
| | 05/10/95 | 9.86 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| | 08/24/95 | 12.46 | 80 | --- | --- | --- | <0.5 | 1.8 | <0.5 | 2.4 | --- | |
| | 08/24/95 ^{dup} | 12.46 | 70 | --- | --- | --- | <0.5 | 1.2 | <0.5 | 1.3 | --- | |
| BH-A | 09/09/93 | 16.50 | 4,900 | 2,900 ^e | --- | <5,000 | 18 | 54 | <5 | 11 | m | |
| BH-B | 09/09/93 | 15.85 | <50 | 150 | --- | <5,000 | <0.5 | <0.5 | <0.5 | <0.5 | ND | |
| BH-C ⁿ | 09/10/93 | 15.80 | 640 ^o | 100 | --- | <5,000 | 3.5 | 0.6 | <0.5 | <0.5 | ND | |
| BH-D ⁿ | 09/10/93 | 14.2 | 24,000 ^o | 25,000 ^e | --- | 20,000 | 720 | 44 | 86 | 11 | p | |

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California (continued)

| Well/Boring ID | Date Sampled | Depth to Water (ft) | TPH-G | TPH-D | TPH-MO | POG | parts per billion (µg/L) | | | | SVOCs |
|----------------|--------------|---------------------|-------|-------|--------|-----|--------------------------|------|------------------|-------|-------|
| | | | | | | | B | E | T | X | |
| Bailer | 08/19/92 | | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| Blank | 11/17/92 | | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| Trip | 02/13/90 | | ND | --- | --- | --- | ND | ND | ND | ND | --- |
| Blank | 05/14/90 | | ND | --- | --- | --- | ND | ND | ND | ND | --- |
| | 09/12/90 | | ND | --- | --- | --- | ND | ND | ND | ND | --- |
| | 03/08/91 | | ND | --- | --- | --- | ND | ND | ND | ND | --- |
| | 06/03/91 | | ND | --- | --- | --- | ND | ND | ND | ND | --- |
| | 08/30/91 | | ND | --- | --- | --- | ND | ND | ND | ND | --- |
| | 03/18/92 | | <30 | <50 | --- | --- | <0.3 | <0.3 | <0.3 | <0.3 | --- |
| | 05/28/92 | | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 08/19/92 | | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 11/17/92 | | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 02/12/93 | | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 06/10/93 | | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 11/19/93 | | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 02/28/94 | | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 05/04/94 | | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 08/10/94 | | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 11/08/94 | | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 02/01/95 | | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 05/10/95 | | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| | 08/24/95 | | <50 | --- | --- | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- |
| DTSC MCLs | | | NE | NE | NE | --- | 1 | 680 | 100 ^g | 1,750 | --- |

Table 2. Analytic Results for Ground Water - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California (continued)

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
 TPH-D = Total petroleum hydrocarbons as diesel by Modified EPA Method 8015
 TPH-MO = Total petroleum hydrocarbons as motor oil by EPA Method 8015
 B = Benzene by EPA Method 8020
 E = Ethylbenzene by EPA Method 8020
 T = Toluene by EPA Method 8020
 X = Xylenes by EPA Method 8020
 POG = Petroleum Oil & Grease by EPA Method 5520B/F
 SVOCs = Semivolatile organic compounds by EPA Method 8270
 NE = Not established
 DTSC MCLs = California Department of Toxic Substances Control Maximum Contaminant Levels drinking water
 --- = Not analyzed or measured
 <n = Not detected at detection limits of n ppb
 ND = Not detected, detection limit not known
 SPH = ~~Separate phase hydrocarbons in well~~, not sampled
 dup = Duplicate sample

Notes:

a = Positive results for diesel appear to be less volatile constituents of gasoline
 b = Positive results for diesel has a typical diesel pattern
 c = Concentration reported as diesel is primarily due to the presence of a lighter petroleum product, possibly gasoline or kerosene
 d = Concentration reported as motor oil is due to the presence of a combination of motor oil and a lighter petroleum product of hydrocarbon range C6-C12, possibly gasoline
 e = Concentration reported as gasoline is due to the presence of gasoline and a discrete peak not indicative of gasoline
 f = Compounds are within chromatographic range of gasoline but are not characteristic of the standard gasoline pattern
 g = Results include compounds apparently due to gasoline as well as those due to diesel
 h = 6.5 ppb Naphthalene detected
 i = 11.0 ppb Naphthalene detected
 j = Well inaccessible and not sampled
 k = Well inadvertently not sampled
 l = The concentration reported as gasoline is primarily due to the presence of a discrete peak not indicative of gasoline
 m = 13 ppb-methylnaphthalene and 23 ppb naphthalene detected
 n = Due to chain of custody mis-communication analyses run after holding time expiration
 o = The positive result has an atypical pattern for gasoline analysis
 p = 75 ppb 2-methylnaphthalene and 18 ppb naphthalene detected
 q = DTSC recommended action level; MCL not established
 r = Not detected at detection limits between 10 and 50 ppb
 s = Concentration reported as motor oil is due to the presence of heavier and lighter petroleum products.
 t = 27 ppb Naphthalene detected
 u = 12 ppb Naphthalene detected

Table 3. Separate-Phase Hydrocarbon Removal - Shell Service Station WIC #204-5508-3301, 6039 College Avenue, Oakland, California

| Well ID | Date | Separate-Phase Hydrocarbon Thickness (ft) | Separate-Phase Hydrocarbons Removed (lbs) | Cumulative Hydrocarbons Removed (lbs) |
|-------------------|-----------------|---|---|---------------------------------------|
| MW-4 ^a | 01/15/92 | --- | 3.12 | 3.12 |
| | 02/15/92 | --- | 3.12 | 6.24 |
| | 03/18/92 | 0.24 | --- | 6.24 |
| | 04/29/92 | --- | 1.50 | 7.74 |
| | 05/28/92 | 0.12 | 0.18 | 7.92 |
| | 08/19/92 | 0.09 | 0.96 | 8.86 |
| | 11/17/92 | --- | 0.96 | 9.82 |
| | 02/12/93 | <0.01 | --- | 9.82 |
| | 06/10/93 | 0.02 | 0.06 | 9.88 |
| | 08/18/93 | 0.01 | 0.06 | 9.94 |
| | 11/19/93 | 0.01 | 0.06 | 10.00 |
| | 02/28/94 | 0.01 | 0.06 | 10.06 |
| | 05/04/94 | 0.00 | 0.06 | 10.12 |
| | 08/10/94 | 0.02 | 0.06 | 10.18 |
| | 11/10/94 | 0.05 | 0.08 | 10.26 |
| | 02/01/95 | 0.04 | 0.06 | 10.32 |
| | 05/10/95 | 0.06 | 0.16 | 10.48 |
| | 08/24/95 | 0.02 | --- | 10.48 |

Notes:

- a = Petrotrap separate-phase hydrocarbon skimmer installed in well
- = Not measured or no hydrocarbons removed

ATTACHMENT A

BTS GROUND WATER MONITORING REPORT

BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

October 2, 1995

Shell Oil Company
P.O. Box 4023
Concord, CA 94524

Attn: R. Jeff Granberry

Shell WIC #204-5508-3301
6039 College Avenue
Oakland, California

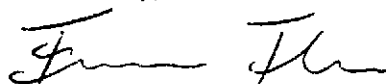
3rd Quarter 1995

Quarterly Groundwater Monitoring Report 950824-K-1

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. Copies of our Sampling Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 995-5535 ext. 201.

Yours truly,



Francis Thie

attachments: Table of Well Gauging Data
Chain of Custody
Field Data Sheets
Certified Analytical Report

cc: Weiss Associates
5500 Shellmound Street
Emeryville, CA 94608-2411
Attn: Grady Glasser

(Any professional evaluations or recommendations will be made by the consultant under separate cover.)

TABLE OF WELL GAUGING DATA

| WELL I.D. | DATA COLLECTION DATE | MEASUREMENT REFERENCED TO | QUALITATIVE OBSERVATIONS (sheen) | DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet) | THICKNESS OF IMMISCIBLES LIQUID ZONE (feet) | VOLUME OF IMMISCIBLES REMOVED (ml) | DEPTH TO WATER (feet) | DEPTH TO WELL BOTTOM (feet) |
|-----------|----------------------|---------------------------|----------------------------------|--|---|------------------------------------|-----------------------|-----------------------------|
| MW-1 | 8/24/95 | TOC | -- | NONE | -- | -- | 15.60 | 23.91 |
| MW-2 | 8/24/95 | TOC | -- | NONE | -- | -- | 14.94 | 23.73 |
| MW-3 | 8/24/95 | TOC | ODOR | NONE | -- | -- | 13.90 | 24.32 |
| MW-4 | 8/24/95 | TOC | FREE PRODUCT | 14.95 | 0.02 | -- | 14.97 | -- |
| MW-5 | 8/24/95 | TOC | -- | NONE | -- | -- | 12.98 | 28.11 |
| MW-6 * | 8/24/95 | TOC | -- | NONE | -- | -- | 12.46 | 23.74 |
| T-1 | 8/24/95 | TOC | DRY | NONE | -- | -- | -- | 4.21 |
| T-2 | 8/24/95 | TOC | DRY | NONE | -- | -- | -- | 8.25 |

* Sample DUP was a duplicate sample taken from well MW-6.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 950829-1C1

Date: 8/24

Page (1) of (1)

Site Address: 6039 College Ave., Oakland

WIC#: 204-5508-3301

Shell Engineer: Dan Kirk Phone No.: (510) 675-6168
 Fax #: 675-6160

Consultant Name & Address: Blaine Tech Services, Inc.
985 Timothy Drive San Jose, CA 95133

Consultant Contact: Jim Keller Phone No.: (408) 995-5535
 Fax #: 293-8773

Comments:

Sampled by: KCB

Printed Name: Keith Brown

Analysis Required

LAB: Net

| CHECK ONE (1) BOX ONLY | CT/DI | TURN AROUND TIME |
|---|-------|--|
| Quantity Monitoring <input checked="" type="checkbox"/> | 6441 | 24 hours <input type="checkbox"/> |
| Site Investigation <input type="checkbox"/> | 6441 | 48 hours <input type="checkbox"/> |
| Soil Classfy/Diposal <input type="checkbox"/> | 6442 | 16 days <input checked="" type="checkbox"/> (Normal) |
| Water Classfy/Diposal <input type="checkbox"/> | 6443 | Other <input type="checkbox"/> |
| Soil/Air Rem. of Sys. O & M <input type="checkbox"/> | 6462 | NOTE: Holly Lab as soon as possible of 24/48 hrs. TAT. |
| Water Rem. of Sys. O & M <input type="checkbox"/> | 6463 | |
| Other <input type="checkbox"/> | | |

| TPH (EPA 8015 Mod. Gas) | TPH (EPA 8015 Mod. Diesel) | BTEX (EPA 8020/602) | Volatile Organics (EPA 8240) | Test for Disposal | Combination TPH 8015 & BTEX 8020 | SVOC | P60 | Asbestos | Container Size | Preparation Used | Composite Y/N |
|-------------------------|----------------------------|---------------------|------------------------------|-------------------|----------------------------------|------|-----|----------|----------------|------------------|---------------|
| | | | | | X | | | | | | |
| | | | | | X | | | | | | |
| | | | | | X | X | | | | | |
| | | | | | X | | | | | | |
| | | | | | X | | | | | | |
| | | | | | X | | | | | | |
| | | | | | X | | | | | | |
| | | | | | X | | | | | | |
| | | | | | X | | | | | | |
| | | | | | X | | | | | | |

| Sample ID | Date | Sludge | Soil | Water | Air | No. of conls. |
|-------------|-------------|--------|------|----------|-----|---------------|
| <u>Mus1</u> | <u>8/24</u> | | | <u>X</u> | | <u>3</u> |
| <u>Mus2</u> | | | | | | <u>3</u> |
| <u>Mus3</u> | | | | | | <u>7</u> |
| <u>Mus5</u> | | | | | | <u>3</u> |
| <u>Mus6</u> | | | | | | <u>1</u> |
| <u>DUP</u> | | | | | | |
| <u>EB</u> | | | | | | |
| <u>TB</u> | | | | | | <u>2</u> |

| MATERIAL DESCRIPTION | SAMPLE CONDITION/ COMMENTS |
|----------------------|---|
| | |
| | CUSTODY SEALED Date: <u>8-25-95</u> Time: <u>1815</u> Initials: <u>AK</u> |
| | SEAL INTACT? No Initials: <u>KCB</u> |

| | | | | | |
|---|-------------------------------------|--------------------------|--|-------------------------------------|--------------------------|
| Relinquished By (Signature): <u>[Signature]</u> | Printed Name: <u>Keith Brown</u> | Date: <u>8/25/95</u> | Received (signature): <u>[Signature]</u> | Printed Name: <u>A. Kontoyianis</u> | Date: <u>8-25-95</u> |
| Relinquished By (Signature): <u>[Signature]</u> | Printed Name: <u>A. Kontoyianis</u> | Date: <u>8-25-95</u> | Received (signature): <u>[Signature]</u> | Printed Name: <u>[Signature]</u> | Date: <u>1110</u> |
| Relinquished By (Signature): <u>[Signature]</u> | Printed Name: <u>[Signature]</u> | Date: <u>[Signature]</u> | Received (signature): <u>[Signature]</u> | Printed Name: <u>[Signature]</u> | Date: <u>[Signature]</u> |

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

0241



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
3636 North Laughlin Road
Suite 110
Santa Rosa, CA 95403-8226
Tel: (707) 526-7200
Fax: (707) 541-2333

Jim Keller
Blaine Tech Services
985 Timothy Dr.
San Jose, CA 95133

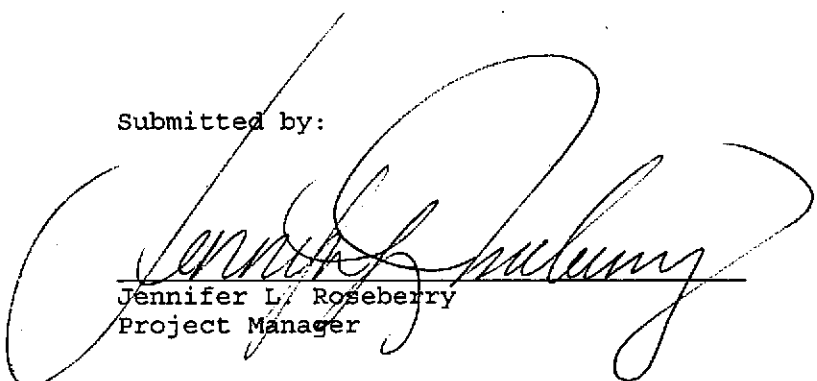
Date: 09/29/1995
NET Client Acct. No: 1821
NET Job No: 95.03411
Received: 08/26/1995

Client Reference Information

Shell 6039 College Ave., Oakland, CA./950824-K1

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2305.

Submitted by:


Jennifer L. Roseberry
Project Manager

Enclosure(s)





Client Name: Blaine Tech Services

Date: 09/29/1995

Client Acct: 1821

ELAP Cert: 1386

NET Job No: 95.03411

Page: 2

Ref: Shell 6039 College Ave., Oakland, CA./950624-K1

SAMPLE DESCRIPTION: MW1

Date Taken: 08/24/1995

Time Taken:

NET Sample No: 249647

| Parameter | Results | Flags | Reporting | | Method | Date | Date | Run |
|----------------------------|---------|-------|-----------|--------|------------|-----------|------------|-------|
| | | | Limit | Units | | Extracted | Analyzed | Batch |
| No. | | | | | | | | |
| METHOD 5030/8015-M (Shell) | | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 09/07/1995 | 3150 |
| Purgeable TPH | ND | | 50 | ug/L | 5030/M8015 | | 09/07/1995 | 3150 |
| Carbon Range: C6 to C12 | -- | | | | | | 09/07/1995 | 3150 |
| METHOD 8020 (GC, Liquid) | -- | | | | | | 09/07/1995 | 3150 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| SURROGATE RESULTS | -- | | | | | | 09/07/1995 | 3150 |
| Bromofluorobenzene (SRR) | 93 | | | % Rec. | 8020 | | 09/07/1995 | 3150 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03411

Date: 09/29/1995
ELAP Cert: 1386
Page: 3

Ref: Shell 6039 College Ave., Oakland, CA./950824-K1

SAMPLE DESCRIPTION: MW2

Date Taken: 08/24/1995

Time Taken:

NET Sample No: 249648

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|----------------------------|---------|-------|--------------------|--------|------------|-------------------|------------------|---------------------|
| METHOD 5030/8015-M (Shell) | | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 09/07/1995 | 3150 |
| Purgeable TPH | ND | | 50 | ug/L | 5030/M8015 | | 09/07/1995 | 3150 |
| Carbon Range: C6 to C12 | -- | | | | | | 09/07/1995 | 3150 |
| METHOD 8020 (GC, Liquid) | -- | | | | | | 09/07/1995 | 3150 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| SURROGATE RESULTS | -- | | | | | | 09/07/1995 | 3150 |
| Bromofluorobenzene (SURRE) | 101 | | | % Rec. | 8020 | | 09/07/1995 | 3150 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03411

Date: 09/29/1995
ELAP Cert: 1386
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Ref: Shell 6039 College Ave., Oakland, CA./950824-K1

SAMPLE DESCRIPTION: MW3

Date Taken: 08/24/1995

Time Taken:

NET Sample No: 249649

| Parameter | Results | Flags | Reporting | | Method | Date | Date | Run |
|----------------------------|---------|-------|-----------|--------|------------|-----------|------------|-------|
| | | | Limit | Units | | Extracted | Analyzed | Batch |
| Oil & Grease (Total) | ND | | 5,000 | ug/L | 5520B | | 08/29/1995 | 353 |
| Oil & Grease (Non-Polar) | ND | | 5,000 | ug/L | 5520B/F | | 08/29/1995 | 335 |
| METHOD 5030/8015-M (Shell) | | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 09/07/1995 | 3150 |
| Purgeable TPH | 640 | | 50 | ug/L | 5030/M8015 | | 09/07/1995 | 3150 |
| Carbon Range: C6 to C12 | -- | | | | | | 09/07/1995 | 3150 |
| METHOD 8020 (GC, Liquid) | | | | | | | | |
| Benzene | 68 | FC | 5.0 | ug/L | 8020 | | 09/09/1995 | 3156 |
| Toluene | 21 | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Ethylbenzene | 14 | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Xylenes (Total) | 19 | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| SURROGATE RESULTS | | | | | | | | |
| Bromofluorobenzene (SURR) | 134 | MI | | % Rec. | 8020 | | 09/07/1995 | 3150 |

FC : Compound quantitated at a 10X dilution factor. This final dilution was analyzed outside of the method specified holding time. Result should be considered as a minimum value.
MI : Matrix Interference Suspected.

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03411

Date: 09/29/1995
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Ref: Shell 6039 College Ave., Oakland, CA./950824-K1

SAMPLE DESCRIPTION: MW3

Date Taken: 08/24/1995

Time Taken:

NET Sample No: 249649

| Parameter | Results | Flags | Reporting | | | Date | Date | Run |
|-----------------------------|---------|-------|-----------|-------|--------|------------|------------|-------|
| | | | Limit | Units | Method | Extracted | Analyzed | Batch |
| METHOD 8270 (GCMS, Liquid) | | | | | | 08/29/1995 | | |
| DILUTION FACTOR* | 1 | | | | | | 09/05/1995 | 705 |
| Acenaphthene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Acenaphthylene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Aldrin | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| Anthracene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Benzidine | ND | | 44 | ug/L | 8270 | | 09/05/1995 | 705 |
| Benzo(a)anthracene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Benzo(b)fluoranthene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Benzo(k)fluoranthene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Benzo(a)pyrene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Benzo(g,h,i)perylene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Benzoic acid | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| Benzyl alcohol | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Butyl benzyl phthalate | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| delta-BHC | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| gamma-BHC | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| bis(2-Chloroethyl)ether | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| bis(2-Chloroethoxy)methane | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| bis(2-Chloroisopropyl)ether | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| bis(2-Ethylhexyl)phthalate | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 4-Bromophenyl phenyl ether | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 4-Chloroaniline | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 2-Chloronaphthalene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 4-Chlorophenyl phenyl ether | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Chrysene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 4,4'-DDD | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| 4,4'-DDE | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| 4,4'-DDT | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| Dibenzo(a,h)anthracene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Dibenzofuran | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Di-n-butylphthalate | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 1,2-Dichlorobenzene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 1,3-Dichlorobenzene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 1,4-Dichlorobenzene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 3,3'-Dichlorobenzidine | ND | | 20 | ug/L | 8270 | | 09/05/1995 | 705 |
| Dieldrin | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| Diethylphthalate | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Dimethyl phthalate | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 2,4-Dinitrotoluene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 2,6-Dinitrotoluene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Di-n-octyl phthalate | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Endrin aldehyde | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |

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Client Name: Elaine Tech Services
Client Acct: 1821
NET Job No: 95.03411

Date: 09/29/1995
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Ref: Shell 6039 College Ave., Oakland, CA./950824-K1

SAMPLE DESCRIPTION: MW3
Date Taken: 08/24/1995
Time Taken:
NET Sample No: 249649

| Parameter | Results | Flags | Reporting | | Method | Date | Date | Run Batch No. |
|-----------------------------|---------|-------|-----------|--------|--------|-----------|------------|---------------------|
| | | | Limit | Units | | Extracted | Analyzed | |
| Fluoranthene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Fluorene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Heptachlor | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| Heptachlor epoxide | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| Hexachlorobenzene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Hexachlorobutadiene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Hexachlorocyclopentadiene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Hexachloroethane | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Indeno(1,2,3-cd)pyrene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Isophorone | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 2-Methylnaphthalene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Naphthalene | 12 | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 2-Nitroaniline | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| 3-Nitroaniline | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| 4-Nitroaniline | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| Nitrobenzene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| N-Nitroso-Di-N-propylamine | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| N-Nitrosodiphenylamine | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Phenanthrene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| Pyrene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 1,2,4-Trichlorobenzene | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| ACID EXTRACTABLES | -- | | | | | | 09/05/1995 | 705 |
| 4-Chloro-3-methylphenol | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 2-Chlorophenol | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 2,4-Dichlorophenol | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 2,4-Dimethylphenol | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 2,4-Dinitrophenol | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| 4,6-Dinitro-2-methylphenol | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| 2-Nitrophenol | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 4-Nitrophenol | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| Pentachlorophenol | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| Phenol | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 2,4,6-Trichlorophenol | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 2-Methylphenol | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 4-Methylphenol | ND | | 10 | ug/L | 8270 | | 09/05/1995 | 705 |
| 2,4,5-Trichlorophenol | ND | | 50 | ug/L | 8270 | | 09/05/1995 | 705 |
| SURROGATE RESULTS | -- | | | | | | 09/05/1995 | 705 |
| Nitrobenzene-d5 (SURR) | 84 | | | % Rec. | 8270 | | 09/05/1995 | 705 |
| 2-Fluorobiphenyl (SURR) | 82 | | | % Rec. | 8270 | | 09/05/1995 | 705 |
| p-Terphenyl-d14 (SURR) | 88 | | | % Rec. | 8270 | | 09/05/1995 | 705 |
| Phenol-d5 (SURR) | 29 | | | % Rec. | 8270 | | 09/05/1995 | 705 |
| 2-Fluorophenol (SURR) | 35 | | | % Rec. | 8270 | | 09/05/1995 | 705 |
| 2,4,6-Tribromophenol (SURR) | 71 | | | % Rec. | 8270 | | 09/05/1995 | 705 |

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Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03411

Date: 09/29/1995
ELAP Cert: 1386
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Ref: Shell 6039 College Ave., Oakland, CA./950824-K1

SAMPLE DESCRIPTION: MWS

Date Taken: 08/24/1995

Time Taken:

NET Sample No: 249650

| Parameter | Results | Flags | Reporting | | Method | Date | Date | Run |
|----------------------------|---------|-------|-----------|--------|------------|-----------|------------|-------|
| | | | Limit | Units | | Extracted | Analyzed | Batch |
| METHOD 5030/8015-M (Shell) | | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 09/07/1995 | 3150 |
| Purgeable TPH | ND | | 50 | ug/L | 5030/M8015 | | 09/07/1995 | 3150 |
| Carbon Range: C6 to C12 | -- | | | | | | 09/07/1995 | 3150 |
| METHOD 8020 (GC, Liquid) | -- | | | | | | 09/07/1995 | 3150 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| SURROGATE RESULTS | -- | | | | | | 09/07/1995 | 3150 |
| Bromofluorobenzene (SURRE) | 98 | | | % Rec. | 8020 | | 09/07/1995 | 3150 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03411

Date: 09/29/1995
ELAP Cert: 1386
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Ref: Shell 6039 College Ave., Oakland, CA./950824-K1

SAMPLE DESCRIPTION: MW6

Date Taken: 08/24/1995

Time Taken:

NET Sample No: 249651

| Parameter | Results | Flags | Reporting | | Units | Method | Date | Date | Run |
|----------------------------|---------|-------|-----------|--|--------|------------|------------|----------|-------|
| | | | Limit | | | | Extracted | Analyzed | Batch |
| METHOD 5030/8015-M (Shell) | | | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 09/07/1995 | | 3150 |
| Purgeable TPH | 80 | | 50 | | ug/L | 5030/M8015 | 09/07/1995 | | 3150 |
| Carbon Range: C6 to C12 | -- | | | | | | 09/07/1995 | | 3150 |
| METHOD 8020 (GC, Liquid) | -- | | | | | | 09/07/1995 | | 3150 |
| Benzene | ND | | 0.5 | | ug/L | 8020 | 09/07/1995 | | 3150 |
| Toluene | ND | | 0.5 | | ug/L | 8020 | 09/07/1995 | | 3150 |
| Ethylbenzene | 1.8 | | 0.5 | | ug/L | 8020 | 09/07/1995 | | 3150 |
| Xylenes (Total) | 2.4 | | 0.5 | | ug/L | 8020 | 09/07/1995 | | 3150 |
| SURROGATE RESULTS | -- | | | | | | 09/07/1995 | | 3150 |
| Bromofluorobenzene (Surr) | 109 | | | | % Rec. | 8020 | 09/07/1995 | | 3150 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03411

Date: 09/29/1995
ELAP Cert: 1386
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Ref: Shell 6039 College Ave., Oakland, CA./950824-K1

SAMPLE DESCRIPTION: DUP
Date Taken: 08/24/1995
Time Taken:
NET Sample No: 249652

| Parameter | Results | Flags | Reporting | | Method | Date | Date | Run |
|----------------------------|---------|-------|-----------|--------|------------|-----------|------------|-----------|
| | | | Limit | Units | | Extracted | Analyzed | Batch No. |
| METHOD 5030/8015-M (Shell) | | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 09/07/1995 | 3150 |
| Purgeable TPH | 70 | | 50 | ug/L | 5030/M8015 | | 09/07/1995 | 3150 |
| Carbon Range: C6 to C12 | -- | | | | | | 09/07/1995 | 3150 |
| METHOD 8020 (GC, Liquid) | -- | | | | | | 09/07/1995 | 3150 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Ethylbenzene | 1.2 | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Xylenes (Total) | 1.3 | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| SURROGATE RESULTS | -- | | | | | | 09/07/1995 | 3150 |
| Bromofluorobenzene (SURR) | 106 | | | % Rec. | 8020 | | 09/07/1995 | 3150 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03411

Date: 09/29/1995
ELAP Cert: 1386
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Ref: Shell 6039 College Ave., Oakland, CA./950824-K1

SAMPLE DESCRIPTION: EB

Date Taken: 08/24/1995

Time Taken:

NET Sample No: 249653

| Parameter | Results | Flags | Reporting | | Method | Date | Date | Run |
|----------------------------|---------|-------|-----------|--------|------------|-----------|------------|-------|
| | | | Limit | Units | | Extracted | Analyzed | Batch |
| METHOD 5030/8015-M (Shell) | | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 09/07/1995 | 3150 |
| Purgeable TPH | ND | | 50 | ug/L | 5030/M8015 | | 09/07/1995 | 3150 |
| Carbon Range: C6 to C12 | -- | | | | | | 09/07/1995 | 3150 |
| METHOD 8020 (GC, Liquid) | -- | | | | | | 09/07/1995 | 3150 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| SURROGATE RESULTS | -- | | | | | | 09/07/1995 | 3150 |
| Bromofluorobenzene (SURR) | 98 | | | % Rec. | 8020 | | 09/07/1995 | 3150 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services

Date: 09/29/1995

Client Acct: 1821

ELAP Cert: 1386

NET Job No: 95.03411

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Ref: Shell 6039 College Ave., Oakland, CA./950824-K1

SAMPLE DESCRIPTION: TB

Date Taken: 08/24/1995

Time Taken:

NET Sample No: 249654

| Parameter | Results | Flags | Reporting | | Method | Date | Date | Run |
|----------------------------|---------|-------|-----------|--------|------------|-----------|------------|-------|
| | | | Limit | Units | | Extracted | Analyzed | Batch |
| METHOD 5030/8015-M (Shell) | | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 09/07/1995 | 3150 |
| Purgeable TPH | ND | | 50 | ug/L | 5030/M8015 | | 09/07/1995 | 3150 |
| Carbon Range: C6 to C12 | -- | | | | | | 09/07/1995 | 3150 |
| METHOD 8020 (GC, Liquid) | -- | | | | | | 09/07/1995 | 3150 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 09/07/1995 | 3150 |
| SURROGATE RESULTS | -- | | | | | | 09/07/1995 | 3150 |
| Bromofluorobenzene (SURR) | 92 | | | % Rec. | 8020 | | 09/07/1995 | 3150 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03411

Date: 09/29/1995
ELAP Cert: 1386
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Ref: Shell 6039 College Ave., Oakland, CA./950824-K1

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

| Parameter | CCV | CCV | CCV | Units | Date Analyzed | Analyst Initials | Run Batch Number |
|----------------------------|------------------------|--------------------------|-----------------------------|--------|---------------|------------------|------------------|
| | Standard % Recovery | Standard Amount Found | Standard Amount Expected | | | | |
| METHOD 5030/8015-M (Shell) | | | | | | | |
| Purgeable TPH | 96.0 | 0.48 | 0.50 | mg/L | 09/07/1995 | lss | 3150 |
| Benzene | 98.8 | 4.94 | 5.00 | ug/L | 09/07/1995 | lss | 3150 |
| Toluene | 92.4 | 4.62 | 5.00 | ug/L | 09/07/1995 | lss | 3150 |
| Ethylbenzene | 93.8 | 4.69 | 5.00 | ug/L | 09/07/1995 | lss | 3150 |
| Xylenes (Total) | 94.7 | 14.2 | 15.0 | ug/L | 09/07/1995 | lss | 3150 |
| Bromofluorobenzene (SURR) | 93.0 | 93 | 100 | % Rec. | 09/07/1995 | lss | 3150 |
| METHOD 5030/8015-M (Shell) | | | | | | | |
| Purgeable TPH | 96.0 | 0.48 | 0.50 | mg/L | 09/09/1995 | caf | 3156 |
| Benzene | 95.8 | 4.79 | 5.00 | ug/L | 09/09/1995 | caf | 3156 |
| Toluene | 92.4 | 4.62 | 5.00 | ug/L | 09/09/1995 | caf | 3156 |
| Ethylbenzene | 93.8 | 4.69 | 5.00 | ug/L | 09/09/1995 | caf | 3156 |
| Xylenes (Total) | 94.0 | 14.1 | 15.0 | ug/L | 09/09/1995 | caf | 3156 |
| Bromofluorobenzene (SURR) | 92.0 | 92 | 100 | % Rec. | 09/09/1995 | caf | 3156 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Elaine Tech Services
Client Acct: 1821
NET Job No: 95.03411

Date: 09/29/1995
ELAP Cert: 1386
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Ref: Shell 6039 College Ave., Oakland, CA./950824-K1

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

| Parameter | CCV | CCV | CCV | Units | Date Analyzed | Analyst Initials | Run Batch Number |
|-----------------------------|---------------------|-----------------------|--------------------------|--------|---------------|------------------|------------------|
| | Standard % Recovery | Standard Amount Found | Standard Amount Expected | | | | |
| METHOD 8270 (GCMS, Liquid) | | | | | | | |
| Acenaphthene | 100.8 | 50.4 | 50.0 | ug/L | 09/05/1995 | gec | 705 |
| Benzo(a)pyrene | 101.6 | 50.8 | 50.0 | ug/L | 09/05/1995 | gec | 705 |
| 1,4-Dichlorobenzene | 103.0 | 51.5 | 50.0 | ug/L | 09/05/1995 | gec | 705 |
| Di-n-octyl phthalate | 94.2 | 47.1 | 50.0 | ug/L | 09/05/1995 | gec | 705 |
| Fluoranthene | 105.8 | 52.9 | 50.0 | ug/L | 09/05/1995 | gec | 705 |
| Hexachlorobutadiene | 117.8 | 58.9 | 50.0 | ug/L | 09/05/1995 | gec | 705 |
| N-Nitrosodiphenylamine | 102.4 | 51.2 | 50.0 | ug/L | 09/05/1995 | gec | 705 |
| 4-Chloro-3-methylphenol | 99.6 | 49.8 | 50.0 | ug/L | 09/05/1995 | gec | 705 |
| 2,4-Dichlorophenol | 104.6 | 52.3 | 50.0 | ug/L | 09/05/1995 | gec | 705 |
| 2-Nitrophenol | 101.4 | 50.7 | 50.0 | ug/L | 09/05/1995 | gec | 705 |
| Pentachlorophenol | 116.6 | 58.3 | 50.0 | ug/L | 09/05/1995 | gec | 705 |
| Phenol | 99.0 | 49.5 | 50.0 | ug/L | 09/05/1995 | gec | 705 |
| 2,4,6-Trichlorophenol | 104.6 | 52.3 | 50.0 | ug/L | 09/05/1995 | gec | 705 |
| Nitrobenzene-d5 (SURR) | 98.0 | 98 | 100 | % Rec. | 09/05/1995 | gec | 705 |
| 2-Fluorobiphenyl (SURR) | 102.0 | 102 | 100 | % Rec. | 09/05/1995 | gec | 705 |
| p-Terphenyl-d14 (SURR) | 106.0 | 106 | 100 | % Rec. | 09/05/1995 | gec | 705 |
| Phenol-d5 (SURR) | 96.0 | 96 | 100 | % Rec. | 09/05/1995 | gec | 705 |
| 2-Fluorophenol (SURR) | 96.0 | 96 | 100 | % Rec. | 09/05/1995 | gec | 705 |
| 2,4,6-Tribromophenol (SURR) | 121.0 | 121 | 100 | % Rec. | 09/05/1995 | gec | 705 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03411

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CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

| Parameter | CCV | CCV | CCV | Units | Date Analyzed | Analyst Initials | Run Batch Number |
|-----------------------------|---------------------|-----------------------|--------------------------|--------|---------------|------------------|------------------|
| | Standard % Recovery | Standard Amount Found | Standard Amount Expected | | | | |
| METHOD 8270 (GCMS, Liquid) | | | | | | | |
| Acenaphthene | 98.4 | 49.2 | 50.0 | ug/L | 09/06/1995 | gec | 705 |
| Benzo(a)pyrene | 103.4 | 51.7 | 50.0 | ug/L | 09/06/1995 | gec | 705 |
| 1,4-Dichlorobenzene | 100.6 | 50.3 | 50.0 | ug/L | 09/06/1995 | gec | 705 |
| Di-n-octyl phthalate | 93.2 | 46.6 | 50.0 | ug/L | 09/06/1995 | gec | 705 |
| Fluoranthene | 107.0 | 53.5 | 50.0 | ug/L | 09/06/1995 | gec | 705 |
| Hexachlorobutadiene | 122.8 | 61.4 | 50.0 | ug/L | 09/06/1995 | gec | 705 |
| N-Nitrosodiphenylamine | 96.4 | 48.2 | 50.0 | ug/L | 09/06/1995 | gec | 705 |
| 4-Chloro-3-methylphenol | 107.2 | 53.6 | 50.0 | ug/L | 09/06/1995 | gec | 705 |
| 2,4-Dichlorophenol | 104.8 | 52.4 | 50.0 | ug/L | 09/06/1995 | gec | 705 |
| 2-Nitrophenol | 104.2 | 52.1 | 50.0 | ug/L | 09/06/1995 | gec | 705 |
| Pentachlorophenol | 119.2 | 59.6 | 50.0 | ug/L | 09/06/1995 | gec | 705 |
| Phenol | 92.2 | 46.1 | 50.0 | ug/L | 09/06/1995 | gec | 705 |
| 2,4,6-Trichlorophenol | 104.6 | 52.3 | 50.0 | ug/L | 09/06/1995 | gec | 705 |
| Nitrobenzene-d5 (SURR) | 100.0 | 100 | 100 | % Rec. | 09/06/1995 | gec | 705 |
| 2-Fluorobiphenyl (SURR) | 101.0 | 101 | 100 | % Rec. | 09/06/1995 | gec | 705 |
| p-Terphenyl-d14 (SURR) | 102.0 | 102 | 100 | % Rec. | 09/06/1995 | gec | 705 |
| Phenol-d5 (SURR) | 93.0 | 93 | 100 | % Rec. | 09/06/1995 | gec | 705 |
| 2-Fluorophenol (SURR) | 92.0 | 92 | 100 | % Rec. | 09/06/1995 | gec | 705 |
| 2,4,6-Tribromophenol (SURR) | 133.0 | 133 | 100 | % Rec. | 09/06/1995 | gec | 705 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services

Date: 09/29/1995

Client Acct: 1821

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METHOD BLANK REPORT

| Parameter | Method | Reporting | | Date | Analyst | Run |
|----------------------------|--------|-----------|--------|------------|----------|--------|
| | Blank | Amount | Limit | Analyzed | Initials | Batch |
| | Found | | Units | | | Number |
| Oil & Grease (Total) | ND | 5 | mg/L | 08/29/1995 | shr | 353 |
| Oil & Grease (Non-Polar) | ND | 5 | mg/L | 08/29/1995 | shr | 335 |
| METHOD 5030/8015-M (Shell) | | | | | | |
| Purgeable TPH | ND | 0.05 | mg/L | 09/07/1995 | lss | 3150 |
| Benzene | ND | 0.5 | ug/L | 09/07/1995 | lss | 3150 |
| Toluene | ND | 0.5 | ug/L | 09/07/1995 | lss | 3150 |
| Ethylbenzene | ND | 0.5 | ug/L | 09/07/1995 | lss | 3150 |
| Xylenes (Total) | ND | 0.5 | ug/L | 09/07/1995 | lss | 3150 |
| Bromofluorobenzene (SURR) | 94 | | % Rec. | 09/07/1995 | lss | 3150 |
| METHOD 5030/8015-M (Shell) | | | | | | |
| Purgeable TPH | ND | 0.05 | mg/L | 09/09/1995 | caf | 3156 |
| Benzene | ND | 0.5 | ug/L | 09/09/1995 | caf | 3156 |
| Toluene | ND | 0.5 | ug/L | 09/09/1995 | caf | 3156 |
| Ethylbenzene | ND | 0.5 | ug/L | 09/09/1995 | caf | 3156 |
| Xylenes (Total) | ND | 0.5 | ug/L | 09/09/1995 | caf | 3156 |
| Bromofluorobenzene (SURR) | 88 | | % Rec. | 09/09/1995 | caf | 3156 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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Client Acct: 1921
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METHOD BLANK REPORT

| Parameter | Method | Reporting | Units | Date | Analyst | Run |
|-----------------------------|--------|-----------|-------|------------|---------|--------|
| | Blank | | | | | |
| | Found | | | | | Number |
| METHOD 8270 (GCMS, Liquid) | | | | | | |
| Acenaphthene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Acenaphthylene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Aldrin | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| Anthracene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Benzidine | ND | 44 | ug/L | 09/05/1995 | gec | 705 |
| Benzo(a)anthracene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Benzo(b)fluoranthene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Benzo(k)fluoranthene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Benzo(a)pyrene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Benzo(g,h,i)perylene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Benzoic acid | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| Benzyl alcohol | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Butyl benzyl phthalate | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| delta-BHC | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| gamma-BHC | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| bis(2-Chloroethyl)ether | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| bis(2-Chloroethoxy)methane | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| bis(2-Chloroisopropyl)ether | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| bis(2-Ethylhexyl)phthalate | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 4-Bromophenyl phenyl ether | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 4-Chloroaniline | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 2-Chloronaphthalene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 4-Chlorophenyl phenyl ether | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Chrysene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 4,4'-DDD | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| 4,4'-DDE | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| 4,4'-DDT | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| Dibenzo(a,h)anthracene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Dibenzofuran | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Di-n-butylphthalate | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 1,2-Dichlorobenzene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 1,3-Dichlorobenzene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 1,4-Dichlorobenzene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 3,3'-Dichlorobenzidine | ND | 20 | ug/L | 09/05/1995 | gec | 705 |
| Dieldrin | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| Diethylphthalate | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Dimethyl phthalate | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 2,4-Dinitrotoluene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 2,6-Dinitrotoluene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Di-n-octyl phthalate | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Endrin aldehyde | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| Fluoranthene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |

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NET Job No: 95.03411

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METHOD BLANK REPORT

| Parameter | Method | Blank | | Date | Analyst | Run |
|-----------------------------|--------|-----------|--------|------------|----------|--------|
| | Amount | Reporting | Units | | | |
| | Found | Limit | | Analyzed | Initials | Number |
| Fluorene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Heptachlor | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| Heptachlor epoxide | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| Hexachlorobenzene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Hexachlorobutadiene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Hexachlorocyclopentadiene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Hexachloroethane | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Indeno (1,2,3-cd) pyrene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Isophorone | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 2-Methylnaphthalene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Naphthalene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 2-Nitroaniline | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| 3-Nitroaniline | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| 4-Nitroaniline | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| Nitrobenzene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| N-Nitroso-Di-N-propylamine | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| N-Nitrosodiphenylamine | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Phenanthrene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| Pyrene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 1,2,4-Trichlorobenzene | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 4-Chloro-3-methylphenol | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 2-Chlorophenol | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 2,4-Dimethylphenol | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| 2-Nitrophenol | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 4-Nitrophenol | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| Pentachlorophenol | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| Phenol | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 2-Methylphenol | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 4-Methylphenol | ND | 10 | ug/L | 09/05/1995 | gec | 705 |
| 2,4,5-Trichlorophenol | ND | 50 | ug/L | 09/05/1995 | gec | 705 |
| Nitrobenzene-d5 (SURR) | 92 | | % Rec. | 09/05/1995 | gec | 705 |
| 2-Fluorobiphenyl (SURR) | 85 | | % Rec. | 09/05/1995 | gec | 705 |
| p-Terphenyl-d14 (SURR) | 112 | | % Rec. | 09/05/1995 | gec | 705 |
| Phenol-d5 (SURR) | 50 | | % Rec. | 09/05/1995 | gec | 705 |
| 2-Fluorophenol (SURR) | 66 | | % Rec. | 09/05/1995 | gec | 705 |
| 2,4,6-Tribromophenol (SURR) | 113 | | % Rec. | 09/05/1995 | gec | 705 |

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Client Name: Blaine Tech Services

Date: 09/29/1995

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

| Parameter | Matrix Spike | | | Spike Amount | Sample Conc. | Matrix Spike | | | Date Analyzed | Run Batch | Sample Spiked |
|----------------------------|--------------|------------|-----|--------------|--------------|--------------|------------|-------|---------------|-----------|---------------|
| | Spike % Rec. | Dup % Rec. | RPD | | | Spike Conc. | Dup. Conc. | Units | | | |
| Oil & Grease (Total) | 95.8 | 98.3 | 2.6 | 110.1 | ND | 105.5 | 109.2 | mg/L | 08/29/1995 | 353 | 249649 |
| Oil & Grease (Non-Polar) | 95.8 | 98.3 | 2.6 | 110.1 | ND | 105.5 | 109.2 | mg/L | 08/29/1995 | 335 | 249649 |
| METHOD 5030/8015-M (Shell) | | | | | | | | | | | 249647 |
| Purgeable TPH | 92.0 | 92.0 | 0.0 | 0.50 | ND | 0.46 | 0.46 | mg/L | 09/07/1995 | 3150 | 249647 |
| Benzene | 90.4 | 93.6 | 3.5 | 9.4 | ND | 8.5 | 8.8 | ug/L | 09/07/1995 | 3150 | 249647 |
| Toluene | 102.0 | 102.0 | 0.0 | 29.3 | ND | 29.9 | 29.9 | ug/L | 09/07/1995 | 3150 | 249647 |
| METHOD 5030/8015-M (Shell) | | | | | | | | | | | 249481 |
| Purgeable TPH | 98.0 | 98.0 | 0.0 | 0.50 | 0.35 | 0.84 | 0.84 | mg/L | 09/09/1995 | 3156 | 249481 |
| Benzene | MI | -- | -- | 8.9 | 30 | -- | -- | ug/L | 09/09/1995 | 3156 | 249481 |
| Toluene | 104.1 | 105.8 | 1.6 | 29.2 | 4.6 | 35.0 | 35.5 | ug/L | 09/09/1995 | 3156 | 249481 |

MI : Matrix interference suspected.

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

| Parameter | Matrix Spike | | | Sample Conc. | Matrix Spike Dup. | | | Date Analyzed | Run Batch | Sample Spiked | |
|----------------------------|--------------|--------|------|--------------|-------------------|-------|-------|---------------|------------|---------------|--------|
| | % Rec. | % Rec. | RPD | | Conc. | Conc. | Units | | | | |
| METHOD 8270 (GCMS, Liquid) | | | | | | | | | | 249705 | |
| Acenaphthene | 82.0 | 84.0 | 2.4 | 100 | ND | 82 | 84 | ug/L | 09/05/1995 | 705 | 249705 |
| 1,4-Dichlorobenzene | 72.0 | 72.0 | 0.0 | 100 | ND | 72 | 72 | ug/L | 09/05/1995 | 705 | 249705 |
| 2,4-Dinitrotoluene | 90.0 | 92.0 | 2.2 | 100 | ND | 90 | 92 | ug/L | 09/05/1995 | 705 | 249705 |
| N-Nitroso-Di-N-propylamine | 78.0 | 80.0 | 2.5 | 100 | ND | 78 | 80 | ug/L | 09/05/1995 | 705 | 249705 |
| Pyrene | 85.0 | 85.0 | 0.0 | 100 | ND | 85 | 85 | ug/L | 09/05/1995 | 705 | 249705 |
| 1,2,4-Trichlorobenzene | 78.0 | 80.0 | 2.5 | 100 | ND | 78 | 80 | ug/L | 09/05/1995 | 705 | 249705 |
| 4-Chloro-3-methylphenol | 90.5 | 92.5 | 2.2 | 200 | ND | 181 | 185 | ug/L | 09/05/1995 | 705 | 249705 |
| 2-Chlorophenol | 74.5 | 74.5 | 0.0 | 200 | ND | 149 | 149 | ug/L | 09/05/1995 | 705 | 249705 |
| 4-Nitrophenol | 22.5 | 29.0 | 25.2 | 200 | ND | 45 | 58 | ug/L | 09/05/1995 | 705 | 249705 |
| Pentachlorophenol | 13.5 | 15.5 | 13.8 | 200 | ND | 27 | 31 | ug/L | 09/05/1995 | 705 | 249705 |
| Phenol | 49.5 | 48.0 | 3.1 | 200 | ND | 99 | 96 | ug/L | 09/05/1995 | 705 | 249705 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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Client Acct: 1821
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LABORATORY CONTROL SAMPLE REPORT

| Parameter | LCS % Recovery | Duplicate | | LCS Amount Found | Duplicate | | Units | Date Analyzed | Analyst Initials | Run Batch |
|-----------------------------|-------------------|-------------------|-----|------------------------|------------------------|-----------------|--------|------------------|---------------------|--------------|
| | | LCS % Recovery | RPD | | LCS Amount Found | LCS Expected | | | | |
| Oil & Grease (Total) | 96.2 | | | 118.3 | | 123.0 | mg/L | 08/29/1995 | shr | 353 |
| Oil & Grease (Non-Polar) | 95.7 | | | 119.7 | | 125.1 | mg/L | 08/29/1995 | shr | 335 |
| METHOD 8270 (GCMS, Liquid) | | | | | | | | | | |
| Acenaphthene | 81.0 | | | 81 | | 100 | ug/L | 09/05/1995 | gec | 705 |
| 1,4-Dichlorobenzene | 68.0 | | | 68 | | 100 | ug/L | 09/05/1995 | gec | 705 |
| 2,4-Dinitrotoluene | 90.0 | | | 90 | | 100 | ug/L | 09/05/1995 | gec | 705 |
| N-Nitroso-Di-N-propylamine | 76.0 | | | 76 | | 100 | ug/L | 09/05/1995 | gec | 705 |
| Pyrene | 87.0 | | | 87 | | 100 | ug/L | 09/05/1995 | gec | 705 |
| 1,2,4-Trichlorobenzene | 71.0 | | | 71 | | 100 | ug/L | 09/05/1995 | gec | 705 |
| 4-Chloro-3-methylphenol | 93.0 | | | 186 | | 200 | ug/L | 09/05/1995 | gec | 705 |
| 2-Chlorophenol | 78.5 | | | 157 | | 200 | ug/L | 09/05/1995 | gec | 705 |
| 4-Nitrophenol | 52.0 | | | 104 | | 200 | ug/L | 09/05/1995 | gec | 705 |
| Pentachlorophenol | 103.0 | | | 206 | | 200 | ug/L | 09/05/1995 | gec | 705 |
| Phenol | 47.0 | | | 94 | | 200 | ug/L | 09/05/1995 | gec | 705 |
| Nitrobenzene-d5 (SURR) | 90.0 | | | 90 | | 100 | % Rec. | 09/05/1995 | gec | 705 |
| 2-Fluorobiphenyl (SURR) | 86.0 | | | 86 | | 100 | % Rec. | 09/05/1995 | gec | 705 |
| p-Terphenyl-d14 (SURR) | 106.0 | | | 106 | | 100 | % Rec. | 09/05/1995 | gec | 705 |
| Phenol-d5 (SURR) | 52.0 | | | 52 | | 100 | % Rec. | 09/05/1995 | gec | 705 |
| 2-Fluorophenol (SURR) | 66.0 | | | 66 | | 100 | % Rec. | 09/05/1995 | gec | 705 |
| 2,4,6-Tribromophenol (SURR) | 116.0 | | | 116 | | 100 | % Rec. | 09/05/1995 | gec | 705 |

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2]}/\text{mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

COOLER RECEIPT FORM

Project: Q50824-K1 Log No: 82A1
Cooler received on: 8/26/95 and checked on 8/26/95 by [Signature]
(signature)

- Were custody papers present?.....~~YES~~ NO
 - Were custody papers properly filled out?.....YES NO
 - Were the custody papers signed?.....YES NO
 - Was sufficient ice used?.....YES NO TEMP: 0°C
 - Did all bottles arrive in good condition (unbroken)?.....YES NO
 - Did bottle labels match COC?.....YES NO
 - Were proper bottles used for analysis indicated?.....YES NO
 - Correct preservatives used?.....YES NO
 - VOA vials checked for headspace bubbles?.....YES NO
- Note which voas (if any) had bubbles:*

| | |
|--------------------|------------------|
| Sample descriptor: | Number of vials: |
| <u>EB</u> | <u>3</u> |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

All VOAs with headspace bubbles have been set aside so they will not be used for analysis.....YES NO

List here all other jobs received in the same cooler:

| | |
|--------------|-----------|
| Client Job # | NET log # |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

(coolerrec)