CAMBRIA

April 3, 1997

Susan Hugo
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Building Renovations**
Shell Service Station
3420 San Pablo Avenue
Oakland, California
WIC #204-5508-5306

Dear Ms. Hugo:

As we discussed today, the Shell Oil Products Company (Shell) service station at 3420 San Pablo Avenue, Oakland, California is undergoing building renovations. These renovations do not involve petroleum storage tanks, piping, or dispensers. The facility is currently non-operational, but it will be used as a service station when the renovations are completed. We will inform you when the renovations are completed or if the plans for this facility change.

Thank you for your assistance. Please call if you have any questions.

Sincerely,
Cambria Environmental Technology, Inc.

Paul Waite
Project Engineer

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608
PH (510)420-0700
FAX (510)420-9170

cc: A.E. (Alex) Perez, Shell Oil Products Company, P.O. Box 4023 Concord, California 94524

F:\PROJECT\SHELL\OAK3420\403let.wpd

**Weiss Associates** Environmental and Geologic Services

5500 Shellmound Street, Emeryville, CA 94608-2411 Fax: 510-547-5043 Phone: **510-450-6000**

January 18, 1996

Dennis Byrne
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Fourth Quarter 1995**
Shell Service Station
WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California
WA Job #81-0612-205

94608

Dear Mr. Byrne:

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.

| SEPARATE-PHASE HYDROCARBON REMOVAL SUMMARY | |
|---|---|
| ***Pounds of Separate-Phase Hydrocarbons Removed This Quarter*** | ***Cumulative Pounds Removed*** |
| 0.8 | 19.79 |

## Fourth Quarter 1995 Activities:

- Blaine Tech Services (BTS) of San Jose, California measured ground water depths and collected ground water samples from the monitoring wells (Figures 1 and 2). BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.

- Approximately 0.8 pounds of separate-phase hydrocarbons (SPH) were removed this quarter (Table 1). To date, approximately 19.8 pounds of SPH have been removed by skimmers and additional bailing at the site wells.

- Weiss Associates (WA) tabulated the depth to water and analytic data (Tables 2 and 3) and contoured ground water elevations and plotted benzene concentrations in ground water (Figures 2 and 3).

## Anticipated First Quarter 1996 Activities:

- WA will submit a report presenting the results of the first quarter 1996 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, SPH removal data and a ground water elevation contour map.

- SPH skimmers are installed in wells MW-2, MW-4 and MW-7. The skimmers will be purged of hydrocarbons quarterly until no SPH are measured in these wells. SPH volumes removed will be tabulated in subsequent quarterly status reports.

Please call if you have any questions.

Sincerely,
Weiss Associates

Grady S. Glasser
Technical Assistant

James W. Carmody C.H.G.
Senior Project Hydrogeologist

Attachments: A - BTS Ground Water Monitoring Report

cc: R. Jeff Granberry, Shell Oil Products Company, P.O. Box 4023, Concord, California 94524

GSG/JWC:all
J:\SHELL\9612QM\95QM95QR.DOC

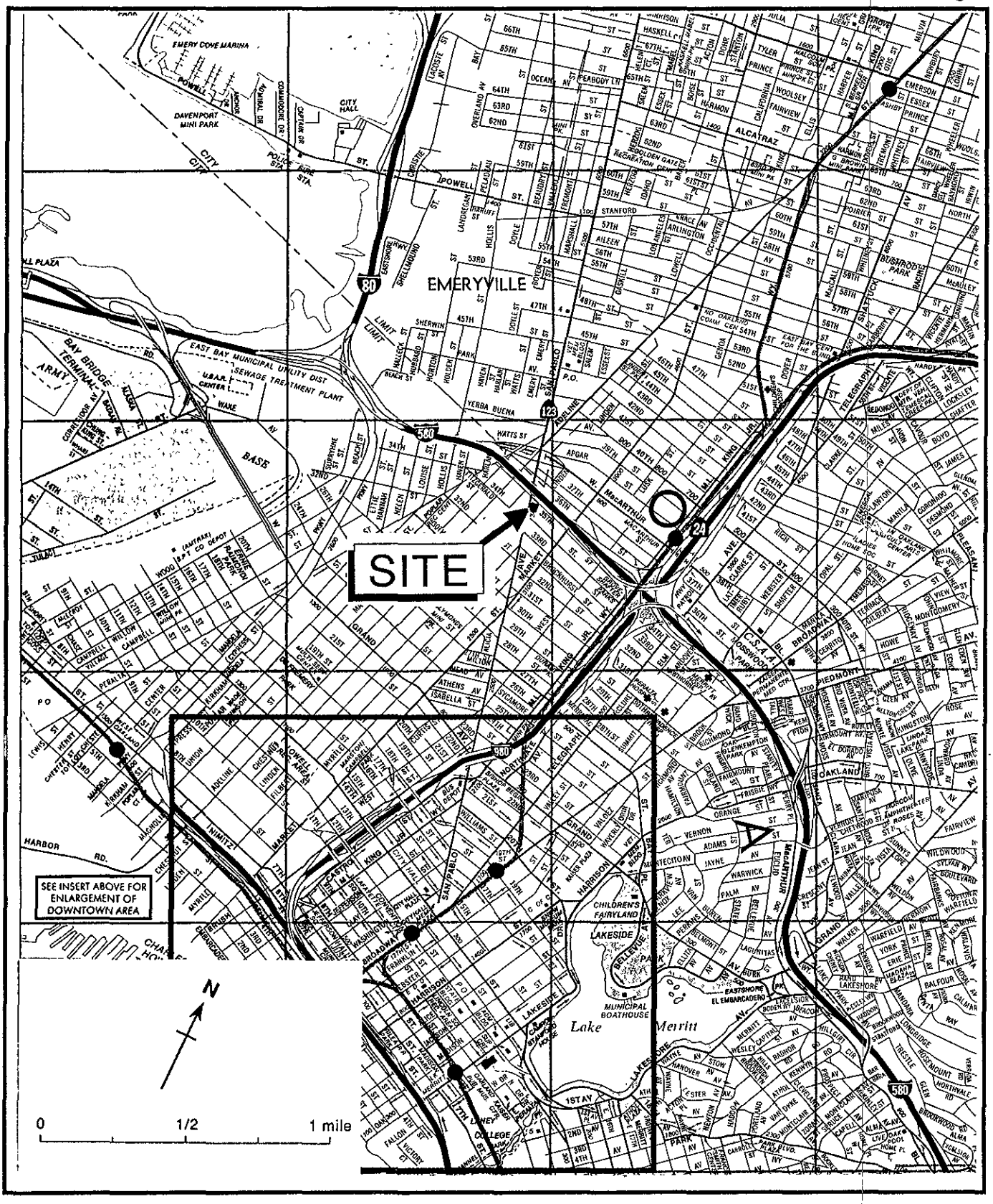


Figure 1. Site Location Map - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

2/13/92

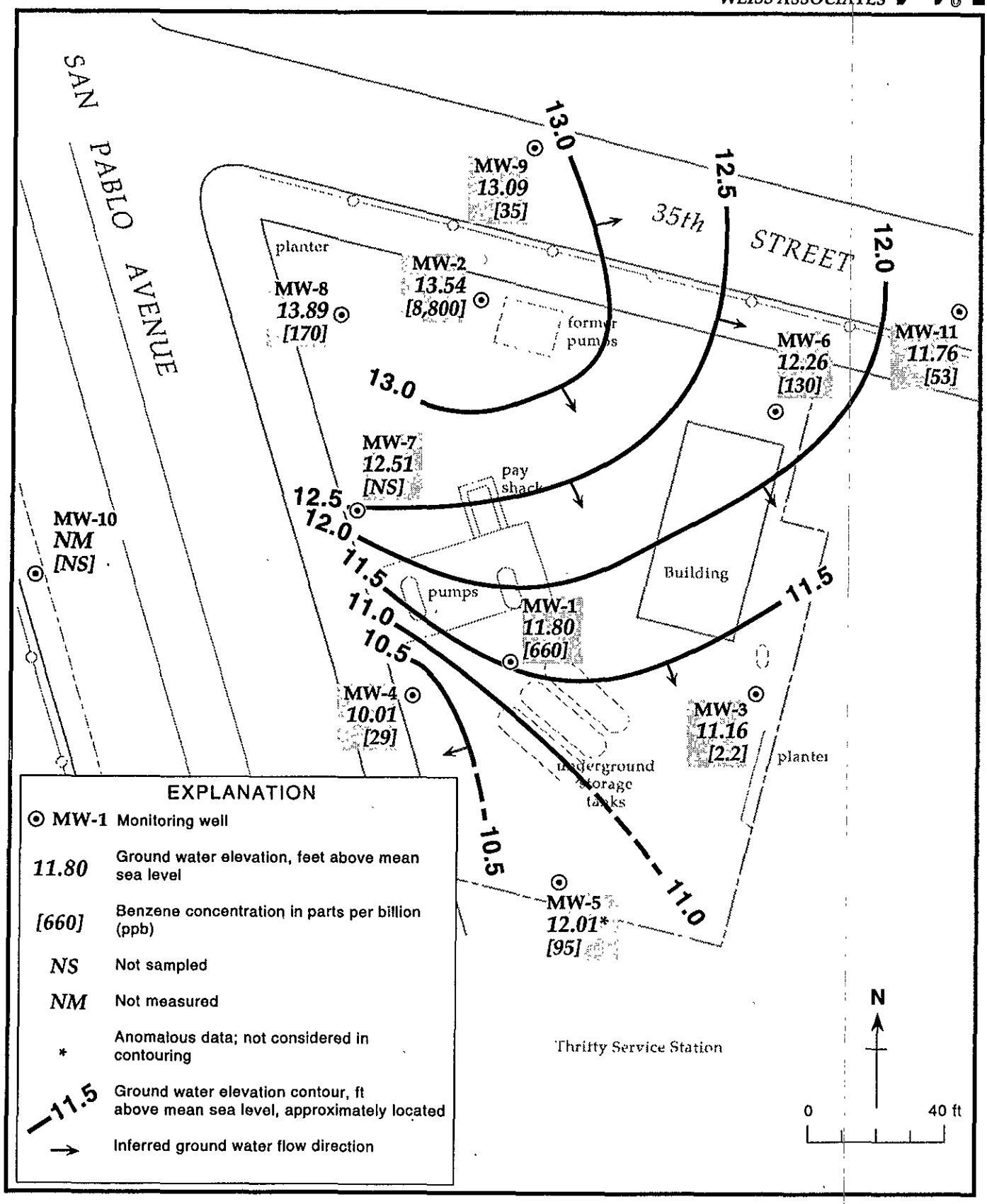


Figure 2. Monitoring Well Locations, Ground Water Elevation Contours, and Benzene Concentration in Ground Water - October 11, 1995 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

Table 1. Separate-Phase Hydrocarbon Removal - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California

| Well ID | Date | Separate-Phase Hydrocarbon Thickness (ft) | Separate-Phase Hydrocarbons Removed (lbs) | Cumulative Separate-Phase Hydrocarbons Removed (lbs) |
|---|---|---|---|---|
| MW-1 | 10/23/91 | 0.01 | --- | --- |
| | 05/04/92 | <0.01 | --- | --- |
| | 10/12/92 | 0.09 | --- | --- |
| | 01/12/93 | 0.02 | 3.12 | 3.12 |
| | 04/06/93 | <0.01 | 0.78 | 3.90 |
| | 07/12/93 | 0.01 | 0.18 | 4.08 |
| | 10/13/93 | 0.01 | 0.06 | 4.14 |
| | 01/20/94 | 0.01 | 0.03 | 4.17 |
| | 04/03/94 | 0.02 | 0.12 | 4.29 |
| MW-2 | 10/12/92 | 0.03 | --- | --- |
| | 01/12/93 | 0.01 | 1.56 | 1.56 |
| | 04/06/93 | <0.01 | 0.78 | 2.34 |
| | 04/03/94 | <0.01 | 0.03 | 2.37 |
| MW-4 | 10/12/92 | 0.78 | --- | --- |
| | 01/12/93 | 1.0 | --- | --- |
| | 04/06/93 | 0.95 | --- | --- |
| | 07/12/93 | 0.03 | 6.36 | 6.36 |
| | 10/13/93 | 0.12 | 0.78 | 7.14 |
| | 01/20/94 | 0.02 | 0.03 | 7.17 |
| | 04/13/94 | 0.01 | 0.12 | 7.29 |
| | 10/27/94 | 0.03 | 0.79 | 8.08 |
| | 01/03/95 | 0.01 | 0.16 | 8.24 |
| | 04/13/95 | 0.03 | 0.16 | 8.40 |
| MW-5 | 10/12/92 | 0.01 | --- | --- |
| | 01/12/93 | <0.01 | --- | --- |
| | 10/13/93 | 0.03 | --- | --- |
| | 01/20/94 | 0.01 | --- | --- |
| | 04/13/94 | 0.01 | 0.03 | 0.06 |
| MW-6 | 10/12/92 | 0.48 | --- | --- |
| | 01/12/93 | <0.01 | --- | --- |
| | 10/13/93 | 0.2 | --- | --- |
| | 01/20/94 | 0.02 | --- | --- |
| | 04/13/94 | 0.01 | 0.03 | 0.03 |
| | 07/19/94 | 0.07 | 0.03 | 0.06 |
| | 10/27/94 | 0.11 | 1.43 | 1.49 |
| | 01/03/95 | 0.02 | 0.12 | 1.61 |
| | 04/13/95 | 0.02 | 0.13 | 1.74 |



J:\shell\0612\qm\95q4\95q4t1.doc

Table 1. Separate-Phase Hydrocarbon Removal - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, Avenue, Oakland, California (continued)

| Well ID | Date | Separate-Phase Hydrocarbon Thickness (ft) | Separate-Phase Hydrocarbons Removed (lbs) | Cumulative Separate-Phase Hydrocarbons Removed (lbs) |
|---|---|---|---|---|
| MW-7 | 01/20/94 | 0.05 | --- | --- |
| | 04/13/94 | 0.16 | 0.66 | 0.66 |
| | 07/19/94 | 0.20 | 0.04 | 0.70 |
| | 10/27/94 | 0.04 | 1.11 | 1.81 |
| | 01/03/95 | 0.02 | 0.16 | 1.97 |
| | 04/13/95 | 0.02 | 0.16 | 2.13 |
| | **10/31/95** | **0.04** | **0.80** | **2.93** |
| | Total Separate-Phase Hydrocarbons Removed | | | **19.79** |

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306, 3420 San Pablo 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 | 08/06/91 | 21.28 | 10.86 | --- | 10.43 |
| | 10/23/91 | | 11.05 | 0.01 | 10.24 |
| | 01/28/92 | | 10.84 | --- | 10.44 |
| | 05/04/92 | | 9.42 | <0.01 | 11.86 |
| | 07/13/92 | | 11.36 | --- | 9.92 |
| | 10/12/92 | | 13.14 | 0.09 | 8.21 |
| | 01/12/93 | | 7.52 | 0.02 | 13.78 |
| | 04/06/93 | | 7.13 | <0.01 | 14.16 |
| | 07/12/93 | | 11.02 | 0.01 | 10.27 |
| | 10/13/93 | | 12.18 | 0.01 | 9.11[a] |
| | 01/20/94 | | 9.18 | 0.01 | 12.10 |
| | 04/13/94 | | 8.72 | 0.02 | 12.58 |
| | 07/19/94 | | 8.76 | --- | 12.52 |
| | 10/27/94 | | 10.49 | --- | 10.79 |
| | 01/03/95 | | 6.15 | --- | 15.13 |
| | 04/13/95 | | 5.24 | --- | 16.04 |
| | 06/30/95 | | 7.24 | --- | 14.04 |
| | **10/11/95** | | **9.48** | **---** | **11.80** |
| MW-2 | 08/06/91 | 21.56 | 9.72 | --- | 11.84 |
| | 10/23/91 | | 10.03 | --- | 11.53 |
| | 01/28/92 | | 8.78 | --- | 12.78 |
| | 05/04/92 | | 7.58 | --- | 13.98 |
| | 07/13/92 | | 9.63 | --- | 11.93 |
| | 10/12/92 | | 11.66 | 0.03 | 9.92 |
| | 01/12/93 | | 7.13 | 0.01 | 14.44 |
| | 04/06/93 | | 6.40 | <0.01 | 15.17 |
| | 07/12/93 | | 8.75 | --- | 12.81 |
| | 10/13/93 | | 10.28 | --- | 11.28 |
| | 01/20/94 | | --- | --- | --- |
| | 04/13/94 | | 7.35 | <0.01 | 14.22 |
| | 07/19/94 | | 8.24 | --- | 13.32 |
| | 10/27/94 | | 10.26 | --- | 13.32 |
| | 01/03/95 | | 6.44 | --- | 15.12 |
| | 04/13/95 | | 5.89 | --- | 15.67 |
| | 06/30/95 | | 7.41 | --- | 14.15 |
| | **10/11/95** | | **8.02** | **---** | **13.54** |
| MW-3 | 08/06/91 | 21.78 | 11.18 | --- | 10.60 |
| | 10/23/91 | | 11.69 | --- | 10.09 |
| | 01/28/92 | | 9.99 | --- | 11.79 |
| | 05/04/92 | | 9.46 | --- | 12.32 |
| | 07/13/92 | | 11.29 | --- | 10.49 |

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, 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] |
|---|---|---|---|---|---|
| | 10/12/92 | | 13.10 | --- | 8.68 |
| | 01/12/93 | | 7.32 | --- | 14.46 |
| | 04/06/93 | | 7.44 | --- | 14.34 |
| | 07/12/93 | | 10.62 | --- | 11.16 |
| | 10/13/93 | | 12.05 | --- | 9.73 |
| | 01/20/94 | | 9.62 | --- | 12.16 |
| | 04/13/94 | | 9.15 | --- | 12.63 |
| | 07/19/94 | | 10.13 | --- | 11.65 |
| | 10/27/94 | | 11.66 | --- | 10.12 |
| | 01/03/95 | | 6.89 | --- | 14.89 |
| | 04/13/95 | | 6.79 | --- | 14.99 |
| | 06/30/95 | | 8.94 | --- | 12.84 |
| | **10/11/95** | | **10.62** | --- | **11.16** |
| MW-4 | 08/06/91 | 20.31 | 10.57 | --- | 9.74 |
| | 10/23/91 | | 10.46 | --- | 9.85 |
| | 01/28/92 | | 9.54 | --- | 10.77 |
| | 05/04/92 | | 8.33 | --- | 11.98 |
| | 07/13/92 | | 9.87 | --- | 10.44 |
| | 10/12/92 | | 12.43 | 0.78 | 8.50 |
| | 01/12/93 | | 7.12 | 1.0 | 13.99 |
| | 04/06/93 | | 7.23 | 0.95 | 13.84 |
| | 07/12/93 | | 10.08 | 0.03 | 10.25 |
| | 10/13/93 | | 11.35 | 0.12 | 9.06 |
| | 01/20/94 | | 9.06 | 0.02 | 11.26 |
| | 04/13/94 | | 8.58 | 0.01 | 11.74 |
| | 07/19/94 | | 9.71 | --- | 10.60 |
| | 10/27/94 | | 10.60 | 0.03 | 9.73 |
| | 01/03/95 | | 5.49 | 0.01 | 14.83 |
| | 04/13/95 | | 6.53 | 0.03 | 13.80 |
| | 06/30/95 | | 9.57 | --- | 10.74 |
| | **10/11/95** | | **10.30** | --- | **10.01** |
| MW-5 | 08/06/91 | 20.91 | 10.23 | --- | 10.68 |
| | 10/23/91 | | 10.89 | --- | 10.02 |
| | 01/28/92 | | 8.45 | --- | 12.46 |
| | 05/04/92 | | 8.05 | --- | 12.86 |
| | 07/13/92 | | 10.00 | --- | 10.91 |
| | 10/12/92 | | 11.83 | 0.01 | 9.09 |
| | 01/12/93 | | 6.10 | <0.01 | 14.81 |
| | 04/06/93 | | 6.18 | --- | 14.73 |
| | 07/12/93 | | 9.59 | --- | 11.32 |
| | 10/13/93 | | 10.80 | 0.03 | 10.13[a] |

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, 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] |
|---|---|---|---|---|---|
| | 01/20/94 | | 7.42 | 0.01 | 13.49 |
| | 04/13/94 | | 7.05 | 0.01 | 13.87 |
| | 07/19/94 | | 8.57 | --- | 12.34 |
| | 10/27/94 | | 10.14 | --- | 10.77 |
| | 01/03/95 | | 5.84 | --- | 15.07 |
| | 04/13/95 | | 5.28 | --- | 15.63 |
| | 06/30/95 | | 7.43 | --- | 13.48 |
| | **10/11/95** | | **8.90** | **---** | **12.01** |
| MW-6 | 08/06/91 | 22.32 | 10.61 | --- | 11.71 |
| | 10/23/91 | | 11.68 | --- | 10.64 |
| | 01/28/92 | | 8.90 | --- | 13.42 |
| | 05/04/92 | | 8.01 | --- | 14.31 |
| | 07/13/92 | | 10.77 | --- | 11.55 |
| | 10/12/92 | | 13.36 | 0.48 | 9.34 |
| | 01/12/93 | | 6.40 | <0.01 | 15.92 |
| | 04/06/93 | | 5.93 | --- | 16.39 |
| | 07/12/93 | | 10.25 | --- | 12.07 |
| | 10/13/93 | | 12.28 | 0.2 | 10.20[a] |
| | 01/20/94 | | 9.14 | 0.02 | 13.20 |
| | 04/13/94 | | 7.67 | 0.01 | 14.66 |
| | 07/19/94 | | 10.07 | 0.07 | 12.31 |
| | 10/27/94 | | 11.84 | 0.11 | 10.57 |
| | 01/03/95 | | 7.80 | 0.02 | 14.54 |
| | 04/13/95 | | 5.77 | 0.02 | 16.57 |
| | 06/30/95 | | 7.78 | --- | 14.54 |
| | **10/11/95** | | **10.06** | **---** | **12.26** |
| MW-7 | 08/06/91 | 20.36 | 8.00 | --- | 12.36 |
| | 10/23/91 | | 8.16 | --- | 12.20 |
| | 01/28/92 | | 7.11 | --- | 13.25 |
| | 05/04/92 | | 6.47 | --- | 13.89 |
| | 07/13/92 | | 7.73 | --- | 12.63 |
| | 10/12/92 | | 8.68 | --- | 11.68 |
| | 01/12/93 | | 6.26 | --- | 14.10 |
| | 04/06/93 | | 5.92 | --- | 14.44 |
| | 07/12/93 | | 7.27 | --- | 13.09 |
| | 10/13/93 | | 9.40 | --- | 10.96 |
| | 01/20/94 | | 7.03 | 0.05 | 13.37 |
| | 04/13/94 | | 6.56 | 0.16 | 13.93 |
| | 07/19/94 | | 6.91 | 0.20 | 13.61 |
| | 10/27/94 | | 8.28 | 0.04 | 12.11 |
| | 01/03/95 | | 6.48 | 0.02 | 13.90 |

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, 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] |
|---|---|---|---|---|---|
| | 04/13/95 | | 6.54 | 0.02 | 13.84 |
| | 06/30/95 | | 7.08 | --- | 13.28 |
| | **10/11/95** | | **7.88** | **0.04** | **12.51** |
| MW-8 | 08/06/91 | 20.95 | 9.60 | --- | 11.35 |
| | 10/23/91 | | 9.73 | --- | 11.22 |
| | 01/28/92 | | 7.72 | --- | 13.23 |
| | 05/04/92 | | 6.48 | --- | 14.47 |
| | 07/13/92 | | 8.55 | --- | 12.40 |
| | 10/12/92 | | 9.97 | --- | 10.98 |
| | 01/12/93 | | 6.94 | --- | 14.01 |
| | 04/06/93 | | 5.72 | --- | 15.23 |
| | 07/12/93 | | 7.65 | --- | 13.30 |
| | 10/13/93 | | 8.25 | --- | 12.70 |
| | 01/20/94 | | 7.25 | --- | 13.70 |
| | 04/13/94 | | 7.12 | --- | 13.83 |
| | 07/19/94 | | 7.43 | --- | 13.52 |
| | 10/27/94 | | 7.55 | --- | 13.40 |
| | 01/03/95 | | 6.04 | --- | 14.91 |
| | 04/13/95 | | 5.04 | --- | 15.91 |
| | 06/30/95 | | 5.72 | --- | 15.23 |
| | **10/11/95** | | **7.06** | **---** | **13.89** |
| MW-9 | 08/06/91 | 21.19 | 10.33 | | 10.86 |
| | 10/23/91 | | 11.13 | --- | 10.06 |
| | 01/28/92 | | 9.02 | --- | 12.17 |
| | 05/04/92 | | 7.67 | --- | 13.52 |
| | 07/13/92 | | 10.26 | --- | 10.93 |
| | 10/12/92 | | 12.19 | --- | 9.0 |
| | 01/12/93[b] | | --- | --- | --- |
| | 04/06/93[b] | | --- | --- | --- |
| | 07/12/93[b] | | --- | --- | --- |
| | 10/13/92 | | 11.17 | --- | 10.02 |
| | 01/20/94 | | 8.03 | --- | 13.16 |
| | 04/13/94 | | 7.81 | --- | 13.38 |
| | 07/19/94 | | 8.96 | --- | 12.23 |
| | 10/27/94 | | 11.00 | --- | 10.19 |
| | 01/03/95 | | 6.60 | --- | 14.59 |
| | 04/13/95 | | 6.73 | --- | 14.46 |
| | 06/30/95 | | 7.32 | --- | 13.87 |
| | **10/11/95** | | **8.10** | **---** | **13.09** |

Table 2. Ground Water Elevations - Shell Service Station WIC #204-5508-5306, 3420 San Pablo, 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] |
|---|---|---|---|---|---|
| MW-10 | 10/23/91 | 19.74 | 8.57 | --- | 11.17 |
| | 01/28/92 | | 7.60 | --- | 12.14 |
| | 05/04/92 | | 7.54 | --- | 12.20 |
| | 07/13/92 | | 8.59 | --- | 11.15 |
| | 10/12/92 | | 10.23 | --- | 9.51 |
| | 01/12/93[b] | | --- | --- | --- |
| | 04/06/93 | | 6.70 | --- | 13.04 |
| | 07/12/93[b] | | 8.05 | --- | 11.69 |
| | 10/13/93 | | 8.25 | --- | 11.49 |
| | 01/20/94 | | 7.20 | --- | 12.54 |
| | 04/13/94 | | 7.57 | --- | 12.17 |
| | 07/19/94 | | 8.18 | --- | 11.56 |
| | 10/27/94 | | 8.68 | --- | 11.06 |
| | 01/03/95 | | 6.86 | --- | 12.88 |
| | 04/13/95 | | 6.91 | --- | 12.83 |
| | 06/30/95 | | 7.61 | --- | 12.13 |
| | **10/11/95** | | --- | --- | --- |
| MW-11 | 10/23/91 | 22.06 | 14.0 | --- | 8.06 |
| | 01/28/92 | | 8.74 | --- | 3.32 |
| | 05/04/92 | | 8.29 | --- | 13.77 |
| | 07/13/92 | | 10.50 | --- | 11.56 |
| | 10/12/92 | | 12.40 | --- | 9.66 |
| | 01/12/93[b] | | --- | --- | --- |
| | 04/06/93[b] | | --- | --- | --- |
| | 07/12/93[b] | | --- | --- | --- |
| | 10/13/93 | | 11.47 | --- | 10.59 |
| | 01/20/94 | | 9.09 | --- | 12.97 |
| | 04/13/94 | | 8.02 | --- | 14.04 |
| | 07/19/94 | | 9.82 | --- | 12.24 |
| | 10/27/94 | | 11.66 | --- | 10.40 |
| | 01/03/95 | | 6.15 | --- | 15.91 |
| | 04/13/95 | | 6.00 | --- | 16.06 |
| | 06/30/95 | | 8.31 | --- | 13.75 |
| | **10/11/95** | | **10.30** | --- | **11.76** |

Notes:

a = When separate-phase hydrocarbons are present ground water elevation is adjusted using the relation: Ground Water Elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).

b = Well inaccessible, covered by construction debris.

Table 3. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

| Well ID | Date Sampled | Depth to Water (ft) | TPH-G | B | E | T | X | MTBE |
|---|---|---|---|---|---|---|---|---|
| | | | ← parts per billion (µg/L) → | | | | | |
| MW-1 | 08/06/91[SPH] | 10.86 | — | — | — | — | — | |
| | 10/23/91 | 11.05 | 32,000 | 2,700 | 550 | 360 | 3,700 | |
| | 01/28/92 | 10.84 | 14,000 | 1,000 | 450 | 106 | 1,600 | |
| | 05/05/92 | 9.42 | 98,000 | 11,000 | 3,500 | 1,200 | 18,000 | |
| | 07/13/92 | 11.36 | 11,000 | 1,100 | 740 | 130 | 1,300 | |
| | 10/12/92[SPH] | 13.14 | — | — | — | — | — | |
| | 01/12/93[SPH] | 7.52 | — | — | — | — | — | |
| | 04/06/93[SPH] | 7.13 | — | — | — | — | — | |
| | 07/12/93[SPH] | 11.02 | — | — | — | — | — | |
| | 10/13/93[SPH] | 12.18 | — | — | — | — | — | |
| | 01/20/94[SPH] | 9.18 | — | — | — | — | — | |
| | 04/13/94[SPH] | 8.72 | — | — | — | — | — | |
| | 07/19/94 | 8.76 | 17,000 | 420 | 530 | 140 | 1,300 | |
| | 10/27/94 | 10.49 | 23,000 | 1,200 | 990 | 130 | 960 | |
| | 01/03/95 | 6.15 | 31,000 | 610 | 1,200 | 160 | 5,000 | |
| | 04/13/95 | 5.24 | 20,000 | 340 | 680 | 42 | 2,900 | |
| | 06/3095 | 7.24 | 16,000 | 450 | 460 | 62 | 1,200 | |
| | **10/11/95** | **9.48** | **8,400** | **660** | **510** | **47** | **850** | **8,000** |
| | **10/13/95** | — | **7,400** | **730** | **490** | **54** | **1,100** | **8,200** |
| MW-2 | 08/06/91 | 9.72 | 50,000 | 15,000 | 2,700 | 1,400 | 13,000 | |
| | 10/23/91 | 10.03 | 120,000 | 11,000 | 3,500 | 1,400 | 19,000 | |
| | 01/28/92 | 8.78 | 49,000 | 7,400 | 1,800 | 800 | 8,300 | |
| | 05/05/92 | 7.58 | 52,000 | 12,000 | 2,200 | 1,100 | 12,000 | |
| | 07/13/92 | 9.63 | 47,000 | 15,000 | 4,500 | 2,400 | 16,000 | |
| | 10/12/92[SPH] | 11.66 | — | — | — | — | — | |
| | 01/12/93[SPH] | 7.13 | — | — | — | — | — | |
| | 04/06/93[SPH] | 6.40 | — | — | — | — | — | |
| | 07/12/93 | 8.75 | 59,000 | 12,000 | 2,400 | 950 | 11,000 | |
| | 10/13/93 | 10.28 | 54,000 | 14,000 | 3,700 | 1,200 | 22,000 | |
| | 01/20/94 | — | — | — | — | — | — | |
| | 04/13/94 | 7.35 | 79,000 | 9,400 | 2,100 | 740 | 12,000 | |
| | 04/13/94[dup] | 7.35 | 110,000 | 11,000 | 2,400 | 710 | 13,000 | |
| | 07/19/94 | 8.24 | 63,000 | 13,000 | 1,900 | 810 | 13,000 | |
| | 07/19/94[dup] | 8.24 | 12,000 | 12,000 | 340 | 140 | 12,000 | |
| | 10/27/94 | 10.26 | 64,000 | 8,800 | 2,100 | 480 | 10,000 | |
| | ~~01/03/95~~ | ~~6.44~~ | ~~67,000~~ | ~~9,800~~ | ~~2,800~~ | ~~720~~ | ~~11,000~~ | |
| | 01/03/95[dup] | 6.44 | 58,000 | 9,700 | 2,700 | 620 | 12,000 | |
| | 04/13/95 | 5.89 | 83,000 | 10,000 | 2,600 | 490 | 13,000 | |

Table 3. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

| Well ID | Date Sampled | Depth to Water (ft) | TPH-G | B | E | T | X | MTBE |
|---|---|---|---|---|---|---|---|---|
| | | | ← parts per billion (µg/L) → | | | | | |
| | 04/13/95[dup] | 5.89 | 74,000 | 9,500 | 2,100 | 350 | 11,000 | |
| | 06/30/95 | 7.41 | 65,000 | 12,000 | 2,400 | 1,800 | 12,000 | |
| | **10/11/95** | **8.02** | **68,000** | **8,800** | **3,000** | **840** | **13,000** | **1,400** |
| MW-3 | 08/06/91 | 11.18 | 430 | 8 | 4 | 1 | 15 | |
| | 10/23/91 | 11.69 | 390 | 2.1 | 0.48 | <0.3 | 2 | |
| | 01/28/92 | 9.99 | 190 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 05/04/92 | 9.46 | 190 | <1 | <1 | <1 | 0.71 | |
| | 07/20/92 | 11.29 | 200[a] | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 10/12/92 | 13.10 | 180[a] | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 01/12/93 | 7.32 | 180 | <0.5 | 0.9 | 2.3 | 5.6 | |
| | 01/12/93[dup] | 7.32 | 260 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 04/06/93 | 7.44 | 280 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 07/12/93 | 10.62 | 310[a] | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 10/13/93 | 12.05 | 150 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 01/20/94 | 9.62 | 180 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 04/13/94 | 9.15 | 270 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 07/19/94 | 10.13 | 190* | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 10/27/94 | 11.66 | 160* | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 01/03/95 | 6.89 | 100* | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 04/13/95 | 6.79 | 120* | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 06/30/95 | 8.94 | 180* | <0.5 | <0.5 | <0.5 | <0.5 | |
| | **10/11/95** | **10.62** | **150** | **2.2** | **<0.5** | **<0.5** | **<0.5** | **2.3** |
| MW-4 | 08/06/91 | 10.57 | 1,300 | 28 | 68 | 18 | 150 | |
| | 10/23/91 | 10.46 | 1,900 | 97 | 38 | 6.1 | 77 | |
| | 01/28/92 | 9.54 | 200 | 7.6 | 3 | <0.5 | 3.3 | |
| | 05/04/92 | 8.33 | 690 | 98 | 13 | 3 | <1 | |
| | 07/13/92 | 9.87 | 1,500 | 140 | 17 | 2.9 | 12 | |
| | 07/13/92[dup] | 9.87 | 870 | 95 | 10 | 1.9 | 7.1 | |
| | 10/12/92[SPH] | 12.43 | — | — | — | — | — | |
| | 01/12/93[SPH] | 7.12 | — | — | — | — | — | |
| | 04/06/93[SPH] | 7.23 | — | — | — | — | — | |
| | 07/12/93[SPH] | 10.08 | — | — | — | — | — | |
| | 10/13/93[SPH] | 11.35 | — | — | — | — | — | |
| | 01/20/94[SPH] | 9.06 | — | — | — | — | — | |
| | 04/13/84[SPH] | 8.58 | — | — | — | — | — | |
| | 07/18/94 | 9.71 | 12,000 | 230 | 230 | 43 | 660 | |
| | 10/27/94[SPH] | 10.60 | — | — | — | — | — | |

Table 3. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

| Well ID | Date Sampled | Depth to Water (ft) | TPH-G | B | E | T | X | MTBE |
|---|---|---|---|---|---|---|---|---|
| | | | ← parts per billion (µg/L) → | | | | | |
| | 01/03/95 SPH | 5.49 | --- | --- | --- | --- | --- | |
| | 04/13/95 SPH | 6.53 | --- | --- | --- | --- | --- | |
| | 06/30/95 | 9.57 | 7,400 | 140 | 160 | <0.5 | 350 | |
| | **10/11/95** | **10.30** | **3,000** | **29** | **100** | **10** | **82** | **9,700** |
| MW-5 | 08/06/91 | 10.23 | 9,100 | 210 | 240 | 27 | 660 | |
| | 10/23/91 | 10.89 | 12,000 | 92 | 230 | 18 | 450 | |
| | 01/28/92 | 8.45 | 3,300 | 130 | 180 | 10 | 220 | |
| | 05/04/92 | 8.05 | 3,900 | 95 | 260 | <12.5 | 120 | |
| | 07/13/92 | 10.00 | 4,100 | 180 | 250 | 12 | 73 | |
| | 10/12/92 SPH | 11.83 | --- | --- | --- | --- | --- | |
| | 01/12/93 SPH | 6.10 | --- | --- | --- | --- | --- | |
| | 04/06/93 | 6.18 | 6,200 | 71 | 53 | <0.5 | 150 | |
| | 07/12/93 | 9.59 | 3,400 | 130 | 170 | <0.5 | 130 | |
| | 10/13/93 SPH | 10.80 | --- | --- | --- | --- | --- | |
| | 01/20/94 SPH | 7.42 | --- | --- | --- | --- | --- | |
| | 04/13/94 SPH | 7.05 | --- | --- | --- | --- | --- | |
| | 07/19/94 | 8.57 | 11,000 | 180 | 180 | 13 | 260 | |
| | 10/27/94 | 10.14 | 6,900 | 82 | 210 | <5 | 110 | |
| | 01/03/95 | 5.84 | 12,000 | 110 | 790 | 46 | 510 | |
| | 04/13/95 | 5.28 | 10,000 | 61 | 330 | <20 | 140 | |
| | 06/30/95 | 7.43 | 12,000 | 180 | 440 | 8.6 | 340 | |
| | **10/11/95** | **8.90** | **11,000** | **<50** | **440** | **<50** | **340** | **5,100** |
| | **10/11/95 dup** | **8.90** | **11,000** | **95** | **440** | **<50** | **330** | **660** |
| MW-6 | 08/06/91 | 10.61 | 28,000 | 1,400 | 1,300 | 200 | 4,200 | |
| | 10/23/91 | 11.68 | 53,000 | 1,400 | 1,800 | 230 | 6,700 | |
| | 01/28/92 | 8.90 | 87,000 | 1,200 | 2,000 | 470 | 6,600 | |
| | 05/05/92 | 8.01 | 230,000 | <500 | 3,200 | <500 | 11,000 | |
| | 07/13/92 | 10.77 | 2,700,000 | <2,500 | 14,000 | 3,500 | 36,000 | |
| | 10/12/92 SPH | 8.68 | --- | --- | --- | --- | --- | |
| | 01/12/93 SPH | 6.40 | --- | --- | --- | --- | --- | |
| | 04/06/93 | 5.93 | 320,000 | 2,500 | 5,400 | 980 | 14,000 | |
| | 07/12/93 | 10.25 | 31,000 | 1,100 | 1,700 | 150 | 4,500 | |
| | 07/12/93 dup | 10.25 | 25,000 | 1,200 | 2,000 | 270 | 4,800 | |
| | 10/13/93 SPH | 12.28 | --- | --- | --- | --- | --- | |
| | 01/20/94 SPH | 9.14 | --- | --- | --- | --- | --- | |
| | 04/13/94 SPH | 7.67 | --- | --- | --- | --- | --- | |
| | 07/19/94 SPH | 10.07 | --- | --- | --- | --- | --- | |

Table 3. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California *(continued)*

| Well ID | Date Sampled | Depth to Water (ft) | TPH-G | B | E | T | X | MTBE |
|---|---|---|---|---|---|---|---|---|
| | | | ← parts per billion (µg/L) → | | | | | |
| | 10/27/94[SPH] | 11.84 | --- | --- | --- | --- | --- | |
| | 01/03/95 [SPH] | 7.80 | --- | --- | --- | --- | --- | |
| | 04/13/95 [SPH] | 5.77 | --- | --- | --- | --- | --- | |
| | 06/30/95 | 7.78 | 1,100,000 | 6,600 | 12,000 | 6,100 | 29,000 | |
| | **10/11/95** | **10.06** | **30,000** | **130** | **1,400** | **<50** | **4,200** | **710** |
| MW-7 | 08/06/91 | 8.00 | 13,000 | 4,300 | 770 | 76 | 730 | |
| | 10/23/91 | 8.16 | 18,000 | 3,200 | 660 | 31 | 770 | |
| | 01/28/92 | 7.11 | 5,000 | 1,200 | 220 | <10 | 54 | |
| | 05/05/92 | 6.47 | 9,500 | 3,100 | 620 | 72 | 880 | |
| | 07/13/92 | 7.73 | 20,000 | 4,200 | 1,600 | 130 | 1,100 | |
| | 10/12/92 | 9.97 | 16,000 | 2,500 | 560 | <50 | 170 | |
| | 01/12/93 | 6.26 | 15,000 | 2,300 | 690 | <0.5 | 440 | |
| | 04/06/93 | 5.92 | 26,000 | 5,400 | 1,200 | 310 | 3,000 | |
| | 04/06/93[dup] | 5.92 | 21,000 | 5,200 | 1,200 | 180 | 3,000 | |
| | 07/12/93 | 7.27 | 10,000[a] | 3,000 | 510 | 100 | 530 | |
| | 10/13/93 | 9.40 | 59,000 | 13,000 | 4,400 | 4,400 | 20,000 | |
| | 01/20/94[SPH] | 7.03 | --- | --- | --- | --- | --- | |
| | 04/13/94[SPH] | 6.56 | --- | --- | --- | --- | --- | |
| | 07/19/94[SPH] | 6.91 | --- | --- | --- | --- | --- | |
| | 10/27/94[SPH] | 8.28 | --- | --- | --- | --- | --- | |
| | 01/03/95 [SPH] | 6.48 | --- | --- | --- | --- | --- | |
| | 04/13/95 [SPH] | 6.54 | --- | --- | --- | --- | --- | |
| | 06/30/95 | 7.08 | 900,000 | 11,000 | 14,000 | 8,500 | 52,000 | |
| | **10/11/95[SPH]** | **7.88** | --- | --- | --- | --- | --- | --- |
| MW-8 | 08/06/91 | 9.60 | 32,000 | 3,700 | 1,400 | 1,100 | 6,100 | |
| | 10/23/91 | 9.73 | 63,000 | 4,800 | 1,300 | 1,300 | 6,900 | |
| | 01/28/92 | 7.72 | 32,000 | 1,900 | 1,400 | 750 | 6,300 | |
| | 05/05/92 | 6.48 | 180,000 | 2,200 | 2,700 | 2,000 | 13,000 | |
| | 07/13/92 | 8.55 | 56,000 | 4,500 | 2,700 | 1,500 | 9,100 | |
| | 10/12/92 | 9.97 | 34,000 | 2,400 | 1,400 | 550 | 6,400 | |
| | 10/12/92[dup] | 9.97 | 34,000 | 3,100 | 1,500 | 700 | 7,200 | |
| | 01/12/93 | 6.94 | 110,000 | 2,100 | 2,400 | 1,200 | 12,000 | |
| | 04/06/93 | 5.72 | 38,000 | 2,500 | 1,100 | 840 | 4,900 | |
| | 07/12/93 | 7.65 | 27,000 | 2,800 | 1,200 | 990 | 5,300 | |
| | 10/13/93 | 8.25 | 32,000 | 3,300 | 1,600 | 1,300 | 8,400 | |
| | 10/13/93[dup] | 8.25 | 47,000 | 3,200 | 1,600 | 1,300 | 8,500 | |
| | 01/20/94 | 7.25 | 78,000 | 1,900 | 1,300 | 670 | 6,600 | |



J:\shell\0612\qm\95q4\95q4t3.doc

Table 3. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

| Well ID | Date Sampled | Depth to Water (ft) | TPH-G | B | E | T | X | MTBE |
|---|---|---|---|---|---|---|---|---|
| | | | ← parts per billion (µg/L) → | | | | | |
| | 01/20/94[dup] | 7.25 | 60,000 | 1,700 | 1,100 | 680 | 5,500 | |
| | 04/13/94 | 7.12 | 41,000 | 1,300 | 1,200 | 720 | 6,00 | |
| | 07/19/94 | 7.43 | 140,000 | 1,800 | 2,000 | 1,400 | 9,000 | |
| | 10/27/94 | 7.55 | 32,000 | 1,200 | 1,200 | 670 | 5,700 | |
| | 10/27/94[dup] | 7.55 | 42,000 | 1,100 | 1,100 | 650 | 5,700 | |
| | 01/03/95 | 6.04 | 38,000 | 1,000 | 1,500 | 700 | 7,500 | |
| | 04/13/95 | 5.04 | 31,000 | 1,200 | 1,000 | 570 | 5,300 | |
| | 06/30/95 | 5.72 | 110,000 | 2,000 | 2,000 | 1,500 | 9,700 | |
| | **10/11/95** | **7.06** | **36,000** | **170** | **1,300** | **60** | **6,300** | **510** |
| MW-9 | 08/06/91 | 10.33 | 11,000 | 1,700 | 520 | 95 | 1,400 | |
| | 10/23/91 | 11.13 | 20,000 | 1,000 | <0.3 | 47 | 940 | |
| | 01/28/92 | 9.02 | 3,500 | 120 | 280 | <10 | 36 | |
| | 05/04/92 | 7.67 | 7,700 | 1,200 | 380 | <50 | 630 | |
| | 07/20/92 | 10.26 | 11,000 | 910 | 220 | <50 | 1,200 | |
| | 10/12/92 | 12.19 | 2,100 | 340 | 77 | 15 | 44 | |
| | 01/12/93[b] | — | --- | --- | --- | --- | — | |
| | 04/06/93[b] | — | --- | --- | --- | --- | --- | |
| | 07/12/93[b] | --- | — | — | — | --- | --- | |
| | 10/13/93 | 11.17 | 2,900 | 140 | <5 | <5 | 120 | |
| | 01/20/94 | 8.03 | 1,700 | 380 | 150 | 6.9 | 400 | |
| | 04/13/94 | 7.81 | 6,000 | 1,000 | 450 | <20 | 420 | |
| | 07/19/94 | 8.96 | 12,000 | 1,400 | 740 | <5 | 1,200 | |
| | 10/27/94 | 11.00 | 10,000 | 1,200 | 280 | 160 | 860 | |
| | 01/03/95 | 6.60 | 4,400 | 680 | 180 | 7.7 | 370 | |
| | 04/13/95 | 6.73 | 1,700 | 270 | 69 | <10 | 170 | |
| | 06/30/95 | 7.32 | 14,000 | 2,200 | 900 | 18 | 2,600 | |
| | 06/30/95[dup] | 7.32 | 13,000 | 2,100 | 870 | 17 | 2,500 | |
| | **10/11/95** | **8.10** | **9,600** | **35** | **360** | **12** | **980** | **590** |
| MW-10 | 10/23/91 | 8.57 | 27,000 | 1,600 | 1,800 | 110 | 510 | |
| | 01/28/92 | 7.60 | 3,800 | 360 | 170 | 14 | 39 | |
| | 05/04/92 | 7.54 | 3,000 | 360 | 140 | <12.5 | 26 | |
| | 07/20/92 | 8.59 | 15,000 | 400 | 180 | <25 | 67 | |
| | 10/12/92 | 10.23 | 16,000 | 320 | 360 | <50 | 100 | |
| | 01/12/93[b] | — | --- | --- | --- | --- | --- | |
| | 04/06/93 | 6.70 | 14,000 | 370 | 880 | <0.5 | 210 | |
| | 07/12/93 | 8.05 | 10,000 | 440 | 890 | 58 | 220 | |
| | 10/13/93 | 8.25 | 15,000 | 1,000 | 810 | 51 | 170 | |

Table 3. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

| Well ID | Date Sampled | Depth to Water (ft) | TPH-G | B | E | T | X | MTBE |
|---|---|---|---|---|---|---|---|---|
| | | | ← parts per billion (µg/L) → | | | | | |
| | 01/20/94 | 7.20 | 12,000 | 820 | 1,100 | 56 | 350 | |
| | 04/13/94 | 7.57 | 18,000 | 760 | 700 | 36 | 130 | |
| | 07/19/94 | 8.18 | 24,000 | 400 | 800 | 2.3 | 22 | |
| | 10/27/94 | 8.68 | 11,000 | 360 | 310 | 43 | 89 | |
| | 01/03/95 | 6.86 | 17,000 | 770 | 690 | 38 | 160 | |
| | 04/13/95 | 6.91 | 9,900 | 650 | 280 | 16 | 40 | |
| | 06/30/95 | 7.61 | 12,000 | 750 | 480 | 20 | 130 | |
| MW-11 | 10/23/91 | 8.06 | 140 | <12 | 0.37 | <0.3 | 0.56 | |
| | 01/28/92 | 13.32 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 05/04/92 | 13.77 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 07/13/92 | 11.56 | 140[b] | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 10/12/92 | 12.40 | 75[b] | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 01/12/93[b] | --- | --- | --- | --- | --- | --- | |
| | 04/06/93[b] | --- | --- | --- | --- | --- | --- | |
| | 07/12/93[b] | --- | --- | --- | --- | --- | --- | |
| | 10/13/93 | 11.47 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 01/20/94 | 9.09 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 04/13/94 | 8.02 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 07/19/94 | 9.82 | 50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 10/27/94 | 11.66 | 60* | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 01/03/95 | 6.15 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 04/13/95 | 6.00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 06/30/95 | 8.31 | 70 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | **10/11/95** | **10.30** | **60** | **53** | **<0.5** | **<0.5** | **0.8** | **3.0** |
| Bailer Blank | 07/13/92 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 07/20/92 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 10/12/92 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 04/13/94 | | <50 | <0.5 | <0.5 | 0.67 | <0.5 | |
| | 07/19/94 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 10/27/94 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 01/03/95 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 04/13/95 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 06/30/95 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | **10/11/95** | | **<50** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |

Table 3. Analytical Results for Ground Water - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California (continued)

| Well ID | Date Sampled | Depth to Water (ft) | TPH-G | B | E | T | X | MTBE |
|---|---|---|---|---|---|---|---|---|
| | | | ← parts per billion (µg/L) → | | | | | |
| Trip Blank | 01/28/92 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 05/05/92 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 07/13/92 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 07/20/92 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 10/12/92 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 01/12/93 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 04/06/93 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 07/12/93 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 10/13/93 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 01/20/94 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 04/13/94 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 07/19/94 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 10/27/94 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 01/03/95 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 04/13/95 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 06/30/95 | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | **10/11/95** | | **<50** | **<0.5** | **<0.5** | **<0.5** | **<0.5** | **<0.5** |
| *DTSC MCLs* | | | *NE* | *1* | *680* | *100*[c] | *1,750* | |

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified 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
NE = Not established
DTSC MCLs = California Department of Toxic Substances Control maximum *contaminant levels for drinking water*
--- = Not analyzed
<n = Not detected at detection limits of n ppb
dup = Duplicate sample
SPH = Not sampled, separate-phase hydrocarbons detected in well

Notes:

a = Concentration reported as gasoline is due to the presence of a discrete hydrocarbon peak that is not indicative of gasoline
b = Not sampled. Well inaccessible
c = DTSC recommended action level; MCL not established
* = The result for gasoline is an unknown hydrocarbon which consists of a single peak as confirmed by NET Laboratory

# ATTACHMENT A

GROUND WATER MONITORING REPORT AND ANALYTIC REPORT

BLAINE
TECH SERVICES INC.

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

October 4, 1995

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

Attn: R. Jeff Granberry

Shell WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California

4th Quarter 1995

## Quarterly Groundwater Monitoring Report 951011-Z-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 | 10/11/95 | TOC | ODOR | NONE | -- | -- | 9.48 | 25.00 |
| MW-2 | 10/11/95 | TOC | ODOR | NONE | -- | -- | 8.02 | 19.26 |
| MW-3 | 10/11/95 | TOC | -- | NONE | -- | -- | 10.62 | 27.48 |
| MW-4 | 10/11/95 | TOC | ODOR | NONE | -- | -- | 10.30 | 25.20 |
| MW-5 * | 10/11/95 | TOC | ODOR | NONE | -- | -- | 8.90 | 24.90 |
| MW-6 | 10/11/95 | TOC | ODOR | NONE | -- | -- | 10.06 | 19.92 |
| MW-7 | 10/11/95 | TOC | FREE PRODUCT | 7.84 | 0.04 | 50 | 7.88 | -- |
| MW-8 | 10/11/95 | TOC | ODOR | NONE | -- | -- | 7.06 | 19.98 |
| MW-9 | 10/11/95 | TOC | ODOR | NONE | -- | -- | 8.10 | 19.70 |
| MW-10 | 10/11/95 | INACCESSIBLE | | | | | | |
| MW-11 | 10/11/95 | TOC | -- | NONE | -- | -- | 10.30 | 18.90 |

* Sample DUP was a duplicate sample taken from well MW-5.

#20641

# SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

## CHAIN OF CUSTODY RECORD
Serial No: 95101-21

Date: 10-11-95
Page 1 of 2

Site Address: 3420 San Pablo Ave. Oakland

WIC#: 204-5506-5306

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: [signature]

Printed Name: BRETT BLEAN

LAB: WET

Analysis Required

| Sample ID | Date | Sludge | Soil | Water | Air | No. of conts. | 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 | FECAL COLIFORM | TDS | Asbestos | Container Size | Preparation Used | Composite Y/N | MATERIAL DESCRIPTION / SAMPLE CONDITION / COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 10-11 | | | x | | 3 | | | | | | x | | | | | | | CUSTODY SEALED |
| MW-2 | " | | | x | | 3 | | | | | | x | | | | | | | Date 10/12/95 Time 1645 Initials [illegible] |
| MW-3 | " | | | x | | 3 | | | | | | x | | | | | | | SEAL INTACT? Yes ____ No ____ Initials ____ |
| MW-4 | " | | | x | | 5 | | | | | | x | x | x | | | | | 30 HR HOLD TIME FECAL |
| MW-5 | " | | | x | | 3 | | | | | | x | | | | | | | |
| MW-6 | " | | | x | | 3 | | | | | | x | | | | | | | |
| MW-8 | " | | | x | | 5 | | | | | | x | x | x | | | | | 30 HR HOLD TIME FECAL |
| MW-9 | " | | | x | | 3 | | | | | | x | | | | | | | |

CHECK ONE (1) BOX ONLY — CT/DT — TURN AROUND TIME

- Quarterly Monitoring [X] 6441 — 24 hours [ ]
- Site Investigation [ ] 6441 — 48 hours [ ]
- Soil Closure/Disposal [ ] 6442 — 15 days [X] (Normal)
- Water Closure/Disposal [ ] 6443 — Other [ ] ____
- Soil/Air Rem. or Sys. O & M [ ] 6452
- Water Rem. or Sys. O & M [ ] 6453
- Other [ ]

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

| Relinquished By (signature) | Printed Name | Date | Time | Received (signature) | Printed Name | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | BRETT BLEAN | 10/12/95 | 1011 | [signature] | Phyllis Smart | 10/12/95 | 1011 |
| [signature] | Phyllis Smart | 10/12/95 | 1645 | [signature] | PAM GREENE | 10/13/95 | 0750 |
| | | | | | | | |

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

VIA: NCS

#8861

# SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

## CHAIN OF CUSTODY RECORD
Serial No: 951011-Z1

Date: 10-11-95
Page 2 of 2

Site Address: 3420 San Pablo Ave. Oakland

WIC#: 204-5506-5306

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: [signature]

Printed Name: BRETT BLEW

LAB: NET

| CHECK ONE (1) BOX ONLY | CT/DT | TURN AROUND TIME |
|---|---|---|
| Quarterly Monitoring | X 6441 | 24 hours ☐ |
| Site Investigation | ☐ 6441 | 48 hours ☐ |
| Soil Closure/Disposal | ☐ 6442 | 15 days XX (Normal) |
| Water Closure/Disposal | ☐ 6443 | Other ☐ |
| Soil/Air Rem. or Sys. O & M | ☐ 6462 | NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT. |
| Water Rem. or Sys. O & M | ☐ 6463 | |
| Other | ☐ | |

| Sample ID | Date | Sludge | Soil | Water | Air | No. of conts. | 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 | Asbestos | Container Size | Preparation Used | Composite Y/N | MATERIAL DESCRIPTION | SAMPLE CONDITION/ COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-11 ✓ | 10-11 | | | X | | 3 | | | | | | X | | | | | | |
| EB ✓ | " | | | X | | 3 | | | | | | X | | | | | | |
| DUP ✓ | " | | | X | | 3 | | | | | | X | | | | | | |
| TB ✓ | " | | | X | | 2 | | | | | | X | | | | | | |

CUSTODY SEALED
Date 10/12/95 Time 1645 Initials PS
SEAL INTACT?
Yes ✓ No ____ Initials [signature]

| Relinquished By (signature) | Printed Name | Date | Time | Received (signature) | Printed Name | Date | Time |
|---|---|---|---|---|---|---|---|
| [signature] | BRETT BLEW | 10/12/95 | 1011 | [signature] | Phyllis Smart | 10/12/95 | 1011 |
| [signature] | Phyllis Smart | 10/12/95 | 1645 | [signature] | PAM GREENE | 10/13/95 | 0715 |
| | | | | | | | |

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

VIA: NS

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: 10/31/1995
NET Client Acct. No: 1821
NET Job No: 95.04025
Received: 10/13/1995

Client Reference Information

Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

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:

Ginger Brinlee

Ginger Brinlee
Project Coordinator

Enclosure(s)

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

SAMPLE DESCRIPTION: MW-1
Date Taken: 10/11/1995
Time Taken:
NET Sample No: 253472

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | |
| DILUTION FACTOR* | 10 | | | | | | 10/18/1995 | 3280 |
| Purgeable TPH | 8,400 | | 500 | ug/L | 8015 | | 10/18/1995 | 3280 |
| Carbon Range: C6 to C12 | -- | | | | 8015 | | 10/18/1995 | 3280 |
| METHOD 8020 (GC, Liquid) | -- | | | | 8020 | | 10/18/1995 | 3280 |
| Benzene | 660 | FF | 50 | ug/L | 8020 | | 10/23/1995 | 3287 |
| Toluene | 47 | | 5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Ethylbenzene | 510 | | 5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Xylenes (Total) | 850 | | 5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Methyl-tert-butyl ether | 8,000 | FF,C | 2000 | ug/L | 8020 | | 10/23/1995 | 3287 |
| SURROGATE RESULTS | -- | | | | | | 10/18/1995 | 3280 |
| Bromofluorobenzene (SURR) | 103 | | | % Rec. | 8020 | | 10/18/1995 | 3280 |

C : Positive result confirmed by secondary column or GC/MS analysis.
FF : Compound quantitated at a 100X dilution factor.

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04025

Date: 10/31/1995
ELAP Cert: 1386
Page: 3

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

SAMPLE DESCRIPTION: MW-2
Date Taken: 10/11/1995
Time Taken:
NET Sample No: 253473

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | |
| *DILUTION FACTOR** | 100 | | | | | | 10/18/1995 | 3280 |
| Purgeable TPH | 68,000 | | 5,000 | ug/L | 8015 | | 10/18/1995 | 3280 |
| Carbon Range: C6 to C12 | -- | | | | 8015 | | 10/18/1995 | 3280 |
| *METHOD 8020 (GC, Liquid)* | -- | | | | 8020 | | 10/18/1995 | 3280 |
| Benzene | 8,800 | FI | 500 | ug/L | 8020 | | 10/23/1995 | 3287 |
| Toluene | 840 | | 50 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Ethylbenzene | 3,000 | | 50 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Xylenes (Total) | 13,000 | | 50 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Methyl-tert-butyl ether | 1,400 | C | 50 | ug/L | 8020 | | 10/18/1995 | 3280 |
| SURROGATE RESULTS | -- | | | | | | 10/18/1995 | 3280 |
| Bromofluorobenzene (SURR) | 108 | | | % Rec. | 8020 | | 10/18/1995 | 3280 |

C : Positive result confirmed by secondary column or GC/MS analysis.
FI : Compound quantitated at a 1000X dilution factor.

Client Name: Blaine Tech Services
Client Acct: 1821
*NET Job No:* *95.04025*

Date: 10/31/1995
ELAP Cert: 1386
Page: 4

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

SAMPLE DESCRIPTION: MW-3
*Date Taken:* *10/11/1995*
Time Taken:
NET Sample No: 253474

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| METHOD 5030/M8015 | -- | | | | | | 10/18/1995 | 3285 |
| DILUTION FACTOR* | 1 | | | | | | 10/18/1995 | 3280 |
| as Gasoline | 150 | | 50 | ug/L | 5030 | | 10/18/1995 | 3280 |
| METHOD 8020 (GC,Liquid) | -- | | | | | | 10/18/1995 | 3280 |
| Benzene | 2.2 | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3285 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Methyl-tert-butyl ether | 2.3 | C | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| SURROGATE RESULTS | -- | | | | | | 10/18/1995 | 3280 |
| Bromofluorobenzene (SURR) | 100 | | | % Rec. | 5030 | | 10/18/1995 | 3280 |

C : Positive result confirmed by secondary column or GC/MS analysis.

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

SAMPLE DESCRIPTION: MW-4
Date Taken: 10/11/1995
Time Taken:
NET Sample No: 253475

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| Fecal coliform (3x5) | ND | RSC | 2 | MPN100ml | | | | 93 |
| Tot. Dissolved Solids (TFR) | 560,000 | | 10,000 | ug/L | 160.1 | | 10/17/1995 | 624 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 10/18/1995 | 3280 |
| Purgeable TPH | 3,000 | | 50 | ug/L | 8015 | | 10/18/1995 | 3280 |
| Carbon Range: C6 to C12 | -- | | | | 8015 | | 10/18/1995 | 3280 |
| METHOD 8020 (GC, Liquid) | -- | | | | 8020 | | 10/18/1995 | 3280 |
| Benzene | 29 | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Toluene | 10 | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Ethylbenzene | 100 | FD | 10 | ug/L | 8020 | | 10/23/1995 | 3287 |
| Xylenes (Total) | 82 | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Methyl-tert-butyl ether | 9,700 | FF | 200 | ug/L | 8020 | | 10/24/1995 | 3289 |
| SURROGATE RESULTS | -- | | | | | | 10/18/1995 | 3280 |
| Bromofluorobenzene (SURR) | 118 | | | % Rec. | 8020 | | 10/18/1995 | 3280 |

FD : Compound quantitated at a 20X dilution factor.
FF : Compound quantitated at a 100X dilution factor.
RSC : Refer to subcontract laboratory report for QA data.

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

SAMPLE DESCRIPTION: MW-5
Date Taken: 10/11/1995
Time Taken:
NET Sample No: 253476

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | |
| DILUTION FACTOR* | 100 | | | | | | 10/18/1995 | 3280 |
| Purgeable TPH | 11,000 | | 5,000 | ug/L | 8015 | | 10/18/1995 | 3280 |
| Carbon Range: C6 to C12 | -- | | | | 8015 | | 10/18/1995 | 3280 |
| METHOD 8020 (GC, Liquid) | -- | | | | 8020 | | 10/18/1995 | 3280 |
| Benzene | ND | | 50 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Toluene | ND | | 50 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Ethylbenzene | 440 | | 50 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Xylenes (Total) | 340 | | 50 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Methyl-tert-butyl ether | 5,100 | C | 50 | ug/L | 8020 | | 10/18/1995 | 3280 |
| SURROGATE RESULTS | -- | | | | | | 10/18/1995 | 3280 |
| Bromofluorobenzene (SURR) | 95 | | | % Rec. | 8020 | | 10/18/1995 | 3280 |

C : Positive result confirmed by secondary column or GC/MS analysis.

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04025

Date: 10/31/1995
ELAP Cert: 1386
Page: 7

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

SAMPLE DESCRIPTION: MW-6
Date Taken: 10/11/1995
Time Taken:
NET Sample No: 253477

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | |
| DILUTION FACTOR* | 100 | | | | | | 10/18/1995 | 3280 |
| Purgeable TPH | 30,000 | | 5,000 | ug/L | 8015 | | 10/18/1995 | 3280 |
| Carbon Range: C6 to C12 | -- | | | | 8015 | | 10/18/1995 | 3280 |
| METHOD 8020 (GC, Liquid) | -- | | | | 8020 | | 10/18/1995 | 3280 |
| Benzene | 130 | | 50 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Toluene | ND | | 50 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Ethylbenzene | 1,400 | | 50 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Xylenes (Total) | 4,200 | | 50 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Methyl-tert-butyl ether | 710 | C | 50 | ug/L | 8020 | | 10/18/1995 | 3280 |
| SURROGATE RESULTS | -- | | | | | | 10/18/1995 | 3280 |
| Bromofluorobenzene (SURR) | 100 | | | % Rec. | 8020 | | 10/18/1995 | 3280 |

C : Positive result confirmed by secondary column or GC/MS analysis.

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

SAMPLE DESCRIPTION: MW-8
Date Taken: 10/11/1995
Time Taken:
NET Sample No: 253478

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| Fecal coliform (3x5) | ND | RSC | 2 | MPN100ml | | | | 93 |
| Tot. Dissolved Solids (TFR) | 620,000 | | 10,000 | ug/L | 160.1 | | 10/17/1995 | 624 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | |
| DILUTION FACTOR* | 100 | | | | | | 10/18/1995 | 3280 |
| Purgeable TPH | 36,000 | | 50 | ug/L | 8015 | | 10/18/1995 | 3280 |
| Carbon Range: C6 to C12 | -- | | | | 8015 | | 10/18/1995 | 3280 |
| METHOD 8020 (GC, Liquid) | -- | | | | 8020 | | 10/18/1995 | 3280 |
| Benzene | 170 | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Toluene | 60 | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Ethylbenzene | 1,300 | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Xylenes (Total) | 6,300 | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Methyl-tert-butyl ether | 510 | C | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| SURROGATE RESULTS | -- | | | | | | 10/18/1995 | 3280 |
| Bromofluorobenzene (SURR) | 108 | | | % Rec. | 8020 | | 10/18/1995 | 3280 |

C : Positive result confirmed by secondary column or GC/MS analysis.
RSC : Refer to subcontract laboratory report for QA data.

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

SAMPLE DESCRIPTION: MW-9
Date Taken: 10/11/1995
Time Taken:
NET Sample No: 253479

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 10/18/1995 | 3280 |
| Purgeable TPH | 9,600 | FF | 5,000 | ug/L | 8015 | | 10/23/1995 | 3287 |
| Carbon Range: C6 to C12 | -- | | | | 8015 | | 10/18/1995 | 3280 |
| METHOD 8020 (GC, Liquid) | -- | | | | 8020 | | 10/18/1995 | 3280 |
| Benzene | 35 | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Toluene | 12 | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Ethylbenzene | 360 | FF | 50 | ug/L | 8020 | | 10/23/1995 | 3287 |
| Xylenes (Total) | 980 | FF | 50 | ug/L | 8020 | | 10/23/1995 | 3287 |
| Methyl-tert-butyl ether | 590 | FF,C | 200 | ug/L | 8020 | | 10/23/1995 | 3287 |
| SURROGATE RESULTS | -- | | | | | | 10/18/1995 | 3280 |
| Bromofluorobenzene (SURR) | 118 | | | % Rec. | 8020 | | 10/18/1995 | 3280 |

C : Positive result confirmed by secondary column or GC/MS analysis.
FF : Compound quantitated at a 100X dilution factor.

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04025

Date: 10/31/1995
ELAP Cert: 1386
Page: 10

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

SAMPLE DESCRIPTION: MW-11
Date Taken: 10/11/1995
Time Taken:
NET Sample No: 253480

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | |
| *DILUTION FACTOR** | 1 | | | | | | 10/18/1995 | 3280 |
| Purgeable TPH | 60 | | 50 | ug/L | 8015 | | 10/18/1995 | 3280 |
| Carbon Range: C6 to C12 | -- | | | | 8015 | | 10/18/1995 | 3280 |
| METHOD 8020 (GC, Liquid) | -- | | | | 8020 | | 10/18/1995 | 3280 |
| Benzene | 53 | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Xylenes (Total) | 0.8 | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Methyl-tert-butyl ether | 3.0 | C | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| SURROGATE RESULTS | -- | | | | | | 10/18/1995 | 3280 |
| Bromofluorobenzene (SURR) | 94 | | | % Rec. | 8020 | | 10/18/1995 | 3280 |

C : Positive result confirmed by secondary column or GC/MS analysis.

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04025

Date: 10/31/1995
ELAP Cert: 1386
Page: 11

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

SAMPLE DESCRIPTION: EB
Date Taken: 10/11/1995
Time Taken:
NET Sample No: 253481

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 10/18/1995 | 3280 |
| Purgeable TPH | ND | | 50 | ug/L | 8015 | | 10/18/1995 | 3280 |
| Carbon Range: C6 to C12 | -- | | | | 8015 | | 10/18/1995 | 3280 |
| METHOD 8020 (GC, Liquid) | -- | | | | 8020 | | 10/18/1995 | 3280 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3280 |
| Methyl-tert-butyl ether | ND | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3292 |
| SURROGATE RESULTS | -- | | | | | | 10/18/1995 | 3280 |
| Bromofluorobenzene (SURR) | 88 | | | % Rec. | 8020 | | 10/18/1995 | 3280 |

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04025

Date: 10/31/1995
ELAP Cert: 1386
Page: 12

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

SAMPLE DESCRIPTION: DUP
Date Taken: 10/11/1995
Time Taken:
NET Sample No: 253482

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | |
| DILUTION FACTOR* | 100 | | | | | | 10/24/1995 | 3289 |
| Purgeable TPH | 11,000 | | 5,000 | ug/L | 8015 | | 10/24/1995 | 3289 |
| Carbon Range: C6 to C12 | -- | | | | 8015 | | 10/24/1995 | 3289 |
| METHOD 8020 (GC, Liquid) | -- | | | | 8020 | | 10/24/1995 | 3289 |
| Benzene | 95 | | 50 | ug/L | 8020 | | 10/24/1995 | 3289 |
| Toluene | ND | | 50 | ug/L | 8020 | | 10/24/1995 | 3289 |
| Ethylbenzene | 440 | | 50 | ug/L | 8020 | | 10/24/1995 | 3289 |
| Xylenes (Total) | 330 | | 50 | ug/L | 8020 | | 10/24/1995 | 3289 |
| Methyl-tert-butyl ether | 660 | C | 200 | ug/L | 8020 | | 10/24/1995 | 3289 |
| SURROGATE RESULTS | -- | | | | | | 10/24/1995 | 3289 |
| Bromofluorobenzene (SURR) | 98 | | | % Rec. | 8020 | | 10/24/1995 | 3289 |

C : Positive result confirmed by secondary column or GC/MS analysis.

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04025

Date: 10/31/1995
ELAP Cert: 1386
Page: 13

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

SAMPLE DESCRIPTION: TB
Date Taken: 10/11/1995
Time Taken:
NET Sample No: 253483

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | |
| DILUTION FACTOR* | 1 | | | | | | 10/18/1995 | 3277 |
| Purgeable TPH | ND | | 50 | ug/L | 8015 | | 10/18/1995 | 3277 |
| Carbon Range: C6 to C12 | -- | | | | 8015 | | 10/18/1995 | 3277 |
| METHOD 8020 (GC, Liquid) | -- | | | | 8020 | | 10/18/1995 | 3277 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3277 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3277 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3277 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3277 |
| Methyl-tert-butyl ether | ND | | 0.5 | ug/L | 8020 | | 10/18/1995 | 3277 |
| SURROGATE RESULTS | -- | | | | | | 10/18/1995 | 3277 |
| Bromofluorobenzene (SURR) | 93 | | | % Rec. | 8020 | | 10/18/1995 | 3277 |

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

# CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

| Parameter | CCV Standard % Recovery | CCV Standard Amount Found | CCV Standard Amount Expected | Units | Date Analyzed | Analyst Initials | Run Batch Number |
|---|---|---|---|---|---|---|---|
| Tot. Dissolved Solids (TFR) | 100.3 | 1,003 | 1,000 | mg/L | 10/17/1995 | vah | 624 |
| TPH (Gas/BTXE,Liquid) | | | | | | | |
| as Gasoline | 110.0 | 0.55 | 0.50 | mg/L | 10/20/1995 | dat3 | 3285 |
| Benzene | 102.4 | 5.12 | 5.00 | ug/L | 10/20/1995 | dat3 | 3285 |
| Toluene | 99.4 | 4.97 | 5.00 | ug/L | 10/20/1995 | dat3 | 3285 |
| Ethylbenzene | 101.2 | 5.06 | 5.00 | ug/L | 10/20/1995 | dat3 | 3285 |
| Xylenes (Total) | 103.3 | 15.49 | 15.0 | ug/L | 10/20/1995 | dat3 | 3285 |
| Bromofluorobenzene (SURR) | 110.0 | 110 | 100 | % Rec. | 10/20/1995 | dat3 | 3285 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | | |
| Purgeable TPH | 112.0 | 0.56 | 0.50 | mg/L | 10/18/1995 | dat2 | 3277 |
| Benzene | 100.2 | 5.01 | 5.00 | ug/L | 10/18/1995 | dat2 | 3277 |
| Toluene | 97.8 | 4.89 | 5.00 | ug/L | 10/18/1995 | dat2 | 3277 |
| Ethylbenzene | 98.4 | 4.92 | 5.00 | ug/L | 10/18/1995 | dat2 | 3277 |
| Xylenes (Total) | 100.7 | 15.1 | 15.0 | ug/L | 10/18/1995 | dat2 | 3277 |
| Bromofluorobenzene (SURR) | 98.0 | 98 | 100 | % Rec. | 10/18/1995 | dat2 | 3277 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | | |
| Purgeable TPH | 100.0 | 0.50 | 0.50 | mg/L | 10/18/1995 | | 3280 |
| Benzene | 101.0 | 5.05 | 5.00 | ug/L | 10/18/1995 | | 3280 |
| Toluene | 101.4 | 5.07 | 5.00 | ug/L | 10/18/1995 | | 3280 |
| Ethylbenzene | 111.4 | 5.57 | 5.00 | ug/L | 10/18/1995 | | 3280 |
| Xylenes (Total) | 102.7 | 15.4 | 15.0 | ug/L | 10/18/1995 | | 3280 |
| Bromofluorobenzene (SURR) | 105.0 | 105 | 100 | % Rec. | 10/18/1995 | | 3280 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | | |
| Purgeable TPH | 96.0 | 0.48 | 0.50 | mg/L | 10/23/1995 | dat3 | 3287 |
| Benzene | 89.4 | 4.47 | 5.00 | ug/L | 10/23/1995 | dat3 | 3287 |
| Toluene | 99.2 | 4.96 | 5.00 | ug/L | 10/23/1995 | dat3 | 3287 |
| Ethylbenzene | 101.6 | 5.08 | 5.00 | ug/L | 10/23/1995 | dat3 | 3287 |
| Xylenes (Total) | 100.3 | 15.04 | 15.0 | ug/L | 10/23/1995 | dat3 | 3287 |
| Bromofluorobenzene (SURR) | 100.0 | 100 | 100 | % Rec. | 10/23/1995 | dat3 | 3287 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | | |
| Purgeable TPH | 110.0 | 0.55 | 0.50 | mg/L | 10/24/1995 | dat3 | 3289 |
| Benzene | 100.6 | 5.03 | 5.00 | ug/L | 10/24/1995 | dat3 | 3289 |
| Toluene | 99.6 | 4.98 | 5.00 | ug/L | 10/24/1995 | dat3 | 3289 |
| Ethylbenzene | 100.8 | 5.04 | 5.00 | ug/L | 10/24/1995 | dat3 | 3289 |
| Xylenes (Total) | 102.0 | 15.3 | 15.0 | ug/L | 10/24/1995 | dat3 | 3289 |
| Bromofluorobenzene (SURR) | 98.0 | 98 | 100 | % Rec. | 10/24/1995 | dat3 | 3289 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | | |
| Purgeable TPH | 100.0 | 0.50 | 0.50 | mg/L | 10/25/1995 | aal | 3292 |
| Benzene | 97.8 | 4.89 | 5.00 | ug/L | 10/25/1995 | aal | 3292 |
| Toluene | 99.2 | 4.96 | 5.00 | ug/L | 10/25/1995 | aal | 3292 |
| Ethylbenzene | 97.6 | 4.88 | 5.00 | ug/L | 10/25/1995 | aal | 3292 |
| Xylenes (Total) | 106.7 | 16.0 | 15.0 | ug/L | 10/25/1995 | aal | 3292 |
| Bromofluorobenzene (SURR) | 96.0 | 96 | 100 | % Rec. | 10/25/1995 | aal | 3292 |

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

# METHOD BLANK REPORT

| Parameter | Method Blank Amount Found | Reporting Limit | Units | Date Analyzed | Analyst Initials | Run Batch Number |
|---|---|---|---|---|---|---|
| Tot. Dissolved Solids (TFR) | ND | 10 | mg/L | 10/17/1995 | vah | 624 |
| TPH (Gas/BTXE,Liquid) | | | | | | |
| as Gasoline | ND | 0.05 | mg/L | 10/20/1995 | dat3 | 3285 |
| Benzene | ND | 0.5 | ug/L | 10/20/1995 | dat3 | 3285 |
| Toluene | ND | 0.5 | ug/L | 10/20/1995 | dat3 | 3285 |
| Ethylbenzene | ND | 0.5 | ug/L | 10/20/1995 | dat3 | 3285 |
| Xylenes (Total) | ND | 0.5 | ug/L | 10/20/1995 | dat3 | 3285 |
| Methyl-tert-butyl ether | ND | 0.5 | ug/L | 10/20/1995 | dat3 | 3285 |
| Bromofluorobenzene (SURR) | 110 | | % Rec. | 10/20/1995 | dat3 | 3285 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | |
| Purgeable TPH | ND | 0.05 | mg/L | 10/18/1995 | dat2 | 3277 |
| Benzene | ND | 0.5 | ug/L | 10/18/1995 | dat2 | 3277 |
| Toluene | ND | 0.5 | ug/L | 10/18/1995 | dat2 | 3277 |
| Ethylbenzene | ND | 0.5 | ug/L | 10/18/1995 | dat2 | 3277 |
| Xylenes (Total) | ND | 0.5 | ug/L | 10/18/1995 | dat2 | 3277 |
| Methyl-tert-butyl ether | ND | 0.5 | ug/L | 10/18/1995 | dat2 | 3277 |
| Bromofluorobenzene (SURR) | 102 | | % Rec. | 10/18/1995 | dat2 | 3277 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | |
| Purgeable TPH | ND | 0.05 | mg/L | 10/18/1995 | | 3280 |
| Benzene | ND | 0.5 | ug/L | 10/18/1995 | | 3280 |
| Toluene | ND | 0.5 | ug/L | 10/18/1995 | | 3280 |
| Ethylbenzene | ND | 0.5 | ug/L | 10/18/1995 | | 3280 |
| Xylenes (Total) | ND | 0.5 | ug/L | 10/18/1995 | | 3280 |
| Methyl-tert-butyl ether | ND | 0.5 | ug/L | 10/18/1995 | | 3280 |
| Bromofluorobenzene (SURR) | 100 | | % Rec. | 10/18/1995 | | 3280 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | |
| Purgeable TPH | ND | 0.05 | mg/L | 10/23/1995 | | 3287 |
| Benzene | ND | 0.5 | ug/L | 10/23/1995 | | 3287 |
| Toluene | ND | 0.5 | ug/L | 10/23/1995 | | 3287 |
| Ethylbenzene | ND | 0.5 | ug/L | 10/23/1995 | | 3287 |
| Xylenes (Total) | ND | 0.5 | ug/L | 10/23/1995 | | 3287 |
| Methyl-tert-butyl ether | ND | 0.5 | ug/L | 10/23/1995 | | 3287 |
| Bromofluorobenzene (SURR) | 99 | | % Rec. | 10/23/1995 | | 3287 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | |
| Purgeable TPH | ND | 0.05 | mg/L | 10/24/1995 | dat3 | 3289 |
| Benzene | ND | 0.5 | ug/L | 10/24/1995 | dat3 | 3289 |
| Toluene | ND | 0.5 | ug/L | 10/24/1995 | dat3 | 3289 |
| Ethylbenzene | ND | 0.5 | ug/L | 10/24/1995 | dat3 | 3289 |
| Xylenes (Total) | ND | 0.5 | ug/L | 10/24/1995 | dat3 | 3289 |
| Methyl-tert-butyl ether | ND | 0.5 | ug/L | 10/24/1995 | dat3 | 3289 |
| Bromofluorobenzene (SURR) | 95 | | % Rec. | 10/24/1995 | dat3 | 3289 |

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04025

Date: 10/31/1995
ELAP Cert: 1386
Page: 16

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

# METHOD BLANK REPORT

| Parameter | Method Blank Amount Found | Reporting Limit | Units | Date Analyzed | Analyst Initials | Run Batch Number |
|---|---|---|---|---|---|---|
| METHOD 5030/8015-M Shell+MTBE | | | | | | |
| Purgeable TPH | ND | 0.05 | mg/L | 10/25/1995 | aal | 3292 |
| Benzene | ND | 0.5 | ug/L | 10/25/1995 | aal | 3292 |
| Toluene | ND | 0.5 | ug/L | 10/25/1995 | aal | 3292 |
| Ethylbenzene | ND | 0.5 | ug/L | 10/25/1995 | aal | 3292 |
| Xylenes (Total) | ND | 0.5 | ug/L | 10/25/1995 | aal | 3292 |
| Methyl-tert-butyl ether | ND | 0.5 | ug/L | 10/25/1995 | aal | 3292 |
| Bromofluorobenzene (SURR) | 99 | | % Rec. | 10/25/1995 | aal | 3292 |

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04025

Date: 10/31/1995
ELAP Cert: 1386
Page: 17

Ref: Shell 3420 San Pablo Ave., Oakland, CA/951011-Z1

# MATRIX SPIKE / MATRIX SPIKE DUPLICATE

| Parameter | Matrix Spike % Rec. | Matrix Spike Dup % Rec. | RPD | Spike Amount | Sample Conc. | Matrix Spike Conc. | Matrix Spike Dup. Conc. | Units | Date Analyzed | Run Batch | Sample Spiked |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | | | | 253614 |
| as Gasoline | 108.0 | 104.0 | 3.8 | 0.50 | ND | 0.54 | 0.52 | mg/L | 10/20/1995 | 3285 | 253614 |
| Benzene | 94.6 | 91.1 | 3.8 | 5.6 | ND | 5.3 | 5.1 | ug/L | 10/20/1995 | 3285 | 253614 |
| Toluene | 104.8 | 101.4 | 3.3 | 29.4 | 1.0 | 31.8 | 30.8 | ug/L | 10/20/1995 | 3285 | 253614 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | | | | 252929 |
| Purgeable TPH | 130.0 | 106.0 | 20.3 | 0.50 | 0.31 | 0.96 | 0.84 | mg/L | 10/18/1995 | 3277 | 252929 |
| Benzene | 98.5 | 103.2 | 4.6 | 5.27 | ND | 5.19 | 5.44 | ug/L | 10/18/1995 | 3277 | 252929 |
| Toluene | 95.7 | 99.6 | 4.0 | 27.7 | 1.0 | 27.5 | 28.6 | ug/L | 10/18/1995 | 3277 | 252929 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | | | | 253009 |
| Purgeable TPH | 92.0 | 92.0 | 0.0 | 0.5 | 0.14 | 0.60 | 0.60 | mg/L | 10/18/1995 | 3280 | 253009 |
| Benzene | 108.1 | 106.0 | 2.0 | 9.24 | ND | 9.99 | 9.79 | ug/L | 10/18/1995 | 3280 | 253009 |
| Toluene | 89.8 | 95.4 | 6.0 | 32.4 | 1.1 | 30.2 | 32.0 | ug/L | 10/18/1995 | 3280 | 253009 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | | | | 253728 |
| Purgeable TPH | 96.0 | 98.0 | 2.1 | 0.50 | ND | 0.48 | 0.49 | mg/L | 10/23/1995 | 3287 | 253728 |
| Benzene | 94.8 | 93.5 | 1.4 | 7.7 | ND | 7.3 | 7.2 | ug/L | 10/23/1995 | 3287 | 253728 |
| Toluene | 98.6 | 99.7 | 1.1 | 28.7 | ND | 28.3 | 28.6 | ug/L | 10/23/1995 | 3287 | 253728 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | | | | 253732 |
| Purgeable TPH | 106.0 | 110.0 | 3.7 | 0.50 | ND | 0.53 | 0.55 | mg/L | 10/24/1995 | 3289 | 253732 |
| Benzene | 94.6 | 96.4 | 1.9 | 5.6 | ND | 5.3 | 5.4 | ug/L | 10/24/1995 | 3289 | 253732 |
| Toluene | 93.7 | 96.0 | 2.4 | 30.2 | ND | 28.3 | 29.0 | ug/L | 10/24/1995 | 3289 | 253732 |
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | | | | 253750 |
| Purgeable TPH | 104.0 | 102.0 | 1.9 | 0.5 | 0.14 | 0.66 | 0.65 | mg/L | 10/25/1995 | 3292 | 253750 |
| Benzene | 103.9 | 103.9 | 0.0 | 8.47 | 3.3 | 12.1 | 12.1 | ug/L | 10/25/1995 | 3292 | 253750 |
| Toluene | 96.7 | 97.4 | 0.7 | 30.5 | 0.7 | 30.2 | 30.4 | ug/L | 10/25/1995 | 3292 | 253750 |

BRELJE AND RACE
LABORATORIES INC
425 SOUTH E STREET SANTA ROSA, CALIFORNIA 95404 (707) 544-8807

Job #95.04025

# BACTERIOLOGICAL EXAMINATION OF WATER

REPORTED TO:

N.E.T. Pacific
3636 N Laughlin Rd Ste 110
Santa Rosa CA 95403-8226

DATE REPORTED 10-16-95
COLLECTED BY Client
SUBMITTED BY "

| Log Number | Date Collected | Date Set | Date Completed | Sample Source | | Coliform MPN/100ml. | Safe | Unsafe |
|---|---|---|---|---|---|---|---|---|
| 1095-18996 | 10-12-95 | 10-13-95 | 10-15-95 | 253475 | Fecal | <2. | | |
| 1095-18997 | 10-12-95 | 10-13-95 | 10-15-95 | 253478 | Fecal | <2. | | |

Entered 10/16/95

PY SENT TO: _____

CALLED Date _____
Attempted
No

Presumptive

Confirmed

APPROVED BY _____

BRELJE AND RACE LABORATORIES, INC.

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 [Value 1 - Value 2]/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: 961011-Z1 Log No: 8861
Cooler received on: 10/13/95 and checked on 10/13/95 by: Tom Greene
(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 1° |
| 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: |
|---|---|
| MW-1 | 2 |
| MW-2 | 1 |
| MW-9 | 3 |
| EB | 1 |

*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)

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET PACIFIC, INC.
435 Tesconi Circle, Santa Rosa, CA 95401
(707)526-7200

# CHAIN OF CUSTODY RECORD

NET Reference No. AND PO# 95-04025-1821

TO: Brelje & Race

Attn:

Phone:

NET Contact:
1) Gunger Brinlee 2)

| Container: Qty | Type | Pres. | Matrix | Sample ID | Fecal Coliform 3X5T | DATE SAMPLED | Verbal due: / Written due: |
|---|---|---|---|---|---|---|---|
| 1 | Plastic | ? | H2O | 253475 | X | 10/12 | STD TAT |
| 1 | Plastic | ? | H2O | 253478 | X | 10/12 | |

| Relinquished by (Signature) | Date / Time | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature) |
|---|---|---|---|---|---|
| Matt Greene | 10/13/95 12:10 | Carina Estrada | | | |

PLEASE RETURN THIS DOCUMENT WITH WRITTEN RESULTS

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

Tom Fojut
Weiss Associates
5500 Shellmound St.
Emeryville, CA 94608

Date: 11/02/1995
NET Client Acct. No: 1809
NET Job No: 95.04079
Received: 10/18/1995

Client Reference Information

Shell 3420 San Pablo Ave., Oakland, CA/81-0612-205

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:

Ginger Brinlee
Project Coordinator

Enclosure(s)

Client Name: Weiss Associates
Client Acct: 1809
NET Job No: 95.04079

Date: 11/02/1995
ELAP Cert: 1386
Page: 2

Ref: Shell 3420 San Pablo Ave., Oakland, CA/81-0612-205

SAMPLE DESCRIPTION: 1095-1 MW-1
Date Taken: 10/13/1995
Time Taken:
NET Sample No: 253742

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | |
| DILUTION FACTOR* | 20 | | | | | | 10/24/1995 | 3289 |
| Purgeable TPH | 7.4 | | 1 | mg/L | 8015 | | 10/24/1995 | 3289 |
| Carbon Range: C6 to C12 | -- | | | | 8015 | | 10/24/1995 | 3289 |
| METHOD 8020 (GC, Liquid) | -- | | | | 8020 | | 10/24/1995 | 3289 |
| Benzene | 0.73 | | 0.01 | mg/L | 8020 | | 10/24/1995 | 3289 |
| Toluene | 0.054 | | 0.01 | mg/L | 8020 | | 10/24/1995 | 3289 |
| Ethylbenzene | 0.49 | | 0.01 | mg/L | 8020 | | 10/24/1995 | 3289 |
| Xylenes (Total) | 1.1 | | 0.01 | mg/L | 8020 | | 10/24/1995 | 3289 |
| Methyl-tert-butyl ether | 8.2 | FG/C | 0.40 | mg/L | 8020 | | 10/26/1995 | 3289 |
| SURROGATE RESULTS | -- | | | | | | 10/24/1995 | 3289 |
| Bromofluorobenzene (SURR) | 101 | | | % Rec. | 8020 | | 10/24/1995 | 3289 |

C : Positive result confirmed by secondary column or GC/MS analysis.
FG : Compound quantitated at a 200X dilution factor.

Ref: Shell 3420 San Pablo Ave., Oakland, CA/81-0612-205

# CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

| Parameter | CCV Standard % Recovery | CCV Standard Amount Found | CCV Standard Amount Expected | Units | Date Analyzed | Analyst Initials | Run Batch Number |
|---|---|---|---|---|---|---|---|
| METHOD 5030/8015-M Shell+MTBE | | | | | | | |
| Purgeable TPH | 110.0 | 0.55 | 0.50 | mg/L | 10/24/1995 | | 3289 |
| Benzene | 100.6 | 5.03 | 5.00 | ug/L | 10/24/1995 | | 3289 |
| Toluene | 99.6 | 4.98 | 5.00 | ug/L | 10/24/1995 | | 3289 |
| Ethylbenzene | 100.8 | 5.04 | 5.00 | ug/L | 10/24/1995 | | 3289 |
| Xylenes (Total) | 102.0 | 15.3 | 15.0 | ug/L | 10/24/1995 | | 3289 |
| Bromofluorobenzene (SURR) | 98.0 | 98 | 100 | % Rec. | 10/24/1995 | | 3289 |

Client Name: Weiss Associates
Client Acct: 1809
NET Job No: 95.04079

Date: 11/02/1995
ELAP Cert: 1386
Page: 4

Ref: Shell 3420 San Pablo Ave., Oakland, CA/81-0612-205

# METHOD BLANK REPORT

| Parameter | Method Blank Amount Found | Reporting Limit | Units | Date Analyzed | Analyst Initials | Run Batch Number |
|---|---|---|---|---|---|---|
| METHOD 5030/8015-M Shell+MTBE | | | | | | |
| Purgeable TPH | ND | 0.05 | mg/L | 10/24/1995 | | 3289 |
| Benzene | ND | 0.5 | ug/L | 10/24/1995 | | 3289 |
| Toluene | ND | 0.5 | ug/L | 10/24/1995 | | 3289 |
| Ethylbenzene | ND | 0.5 | ug/L | 10/24/1995 | | 3289 |
| Xylenes (Total) | ND | 0.5 | ug/L | 10/24/1995 | | 3289 |
| Methyl-tert-butyl ether | ND | 2 | ug/L | 10/24/1995 | | 3289 |
| Bromofluorobenzene (SURR) | 95 | | % Rec. | 10/24/1995 | | 3289 |

Client Name: Weiss Associates
Client Acct: 1809
NET Job No: 95.04079

Date: 11/02/1995
ELAP Cert: 1386
Page: 5

Ref: Shell 3420 San Pablo Ave., Oakland, CA/81-0612-205

# MATRIX SPIKE / MATRIX SPIKE DUPLICATE

| Parameter | Matrix Spike % Rec. | Matrix Spike Dup % Rec. | RPD | Spike Amount | Sample Conc. | Matrix Spike Conc. | Matrix Spike Dup. Conc. | Units | Date Analyzed | Run Batch | Sample Spiked |
|---|---|---|---|---|---|---|---|---|---|---|---|
| METHOD 5030/8015-M Shell+MTBE | | | | | | | | | | | 253732 |
| Purgeable TPH | 106.0 | 110.0 | 3.7 | 0.50 | ND | 0.53 | 0.55 | mg/L | 10/24/1995 | 3289 | 253732 |
| Benzene | 94.6 | 96.4 | 1.9 | 5.6 | ND | 5.3 | 5.4 | ug/L | 10/24/1995 | 3289 | 253732 |
| Toluene | 93.7 | 96.0 | 2.4 | 30.2 | ND | 28.3 | 29.0 | ug/L | 10/24/1995 | 3289 | 253732 |

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 [Value 1 - Value 2]/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: 81-0612-205 Log No: 8921

Cooler received on: 10/18/95 and checked on 10/18/95 by Kim Green

(signature) Kim Green

| | | |
|---|---|---|
| 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 30 |
| 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: |
|---|---|
| | |

*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)

# SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

## CHAIN OF CUSTODY RECORD
Serial No:_____

Date: 10/13/95
Page 1 of 1

Site Address: 3420 SAN PABLO AVE, OAKLAND, CA

WIC#: 204-5508-5306

Shell Engineer: JEFF GRANEBERRY — Phone No.: 675 6168 Fax #:

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: TOM FOJUT — Phone No.: (510) 450-6000 Fax #: 547-5043

WA JOB # 81-0612-205

Comments:

Sampled by: Herb Toor

Printed Name: HERB TOOR

LAB: NET

| Sample ID | Date | Sludge | Soil | Water | Air | No. of conts. | 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 | | | Asbestos | Container Size | Preparation Used | Composite Y/N | MATERIAL DESCRIPTION | SAMPLE CONDITION/ COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1095-1 | 10/13/95 | | | X | | 3 | | | | | | X | | | | | | | WATER | +MTBE per Shell list |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

CHECK ONE (1) BOX ONLY — CT/DT

- G.W. Monitoring ☐ 4461
- Site Investigation ☒ 4441
- Soil Classify/Disposal ☐ 4442
- Water Classify/Disposal ☐ 4443
- Soil/Air Rem. or Sys. O & M ☐ 4452
- Water Rem. or Sys. O & M ☐ 4453
- Other ☐

TURN AROUND TIME

- 24 hours ☐
- 48 hours ☐
- 15 days ☒ (Normal)
- Other ☐ _____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: _____

CUSTODY SEALED
Date 10/14/95 Time 15:30 Initials [illegible]
SEAL INTACT?
Yes ✓ No____ Initials [illegible]

| Relinquished By (signature) | Printed Name | Date | Time | Received (signature) | Printed Name | Date | Time |
|---|---|---|---|---|---|---|---|
| Herb Toor | HERB TOOR | 10/17/95 | 1257 | [illegible] | [illegible] Smart | 10/17/95 | 1257 |
| [illegible] Smart | [illegible] Smart | 10/17/95 | 1555 | [illegible] | PAM GREENE | 10/18/95 | 0800 |
| | | | | | | | |

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

Rev. 7/12/93

STORED IN SECURE AREA

NH:NCS

Shell Oil Chain of Custody