4/21/95

PACIFIC
ENVIRONMENTAL
GROUP, INC.

ENVIRONMENTAL
95 APR 20 PM 2:36

April 13, 1995
Project 305-087.2C

Mr. Lynn Walker
Shell Oil Company
P.O. Box 4023
Concord, California 94524

Re: Quarterly Report - First Quarter 1995
Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California
WIC No 204-2217-0105

Dear Mr. Walker:

The following presents the results of the first quarter 1995 monitoring program for the site referenced above. This letter has been prepared for Shell Oil Company by Pacific Environmental Group, Inc. (PACIFIC).

**FINDINGS**

Groundwater monitoring wells were gauged and sampled by Blaine Tech Services, Inc. (Blaine) at the direction of PACIFIC on February 15, 1995. Groundwater elevation contours for the sampling date, including data for the BP, ARCO, and Unocal service stations, are shown on Figure 1. Table 1 presents groundwater elevation data.

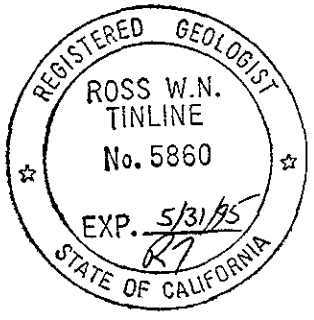
All wells were analyzed for total petroleum hydrocarbons calculated as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). Groundwater analytical data are presented in Table 2. TPH-g and benzene concentrations for the February 1995 sampling event are shown on Figure 2. The laboratory, National Environmental Testing, Inc. (NET), noted toluene in the equipment and trip blanks at 1.1 and 1.0 parts per billion, respectively. This may have affected the results of samples analyzed this quarter. NET has supplied a letter of explanation concerning this matter which may be found in Blaine's groundwater sampling report. Blaine's ground-

water sampling report, which includes field data and the certified analytical report, is presented as Attachment A.

If you have any questions regarding the contents of this letter, please call.

Sincerely,

**Pacific Environmental Group, Inc.**




Ross W.N. Tinline
Project Geologist
RG 5860

Attachments:
- Table 1 - Groundwater Elevation Data
- Table 2 - Groundwater Analytical Data - Total Petroleum Hydrocarbons (TPH as Gasoline and BTEX Compounds)
- Figure 1 - Groundwater Elevation Contour Map
- Figure 2 - TPH-g/Benzene Concentration Map
- Attachment A - Groundwater Sampling Report

cc: Mr. Craig Mayfield, Alameda County Flood Control and Water Conservation District
Ms. Eva Chu, Alameda County Health Care Services
Mr. Brad Boschetto, Shell Oil Company

Table 1
**Groundwater Elevation Data**

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Gauged | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) |
|---|---|---|---|---|
| MW-1 | 05/09/88 | 334.83 | 8.72 | 326.11 |
| | 08/26/88 | | 9.15 | 325.68 |
| | 10/05/88 | | 8.54 | 326.29 |
| | 11/22/88 | | 9.31 | 325.52 |
| | 12/09/88 | | 9.33 | 325.50 |
| | 01/13/89 | | NM | NM |
| | 02/10/89 | | 8.51 | 326.32 |
| | 03/02/89 | | 8.71 | 326.12 |
| | 04/04/89 | | 7.93 | 326.90 |
| | 05/01/89 | | 8.43 | 326.40 |
| | 06/01/89 | | 8.56 | 326.27 |
| | 06/29/89 | | 8.60 | 326.23 |
| | 08/09/89 | | 8.43 | 326.40 |
| | 09/11/89 | | 8.65 | 326.18 |
| | 10/10/89 | | 8.52 | 326.31 |
| | 10/25/89 | | 8.56 | 326.27 |
| | 12/20/89 | | 8.80 | 326.03 |
| | 01/17/90 | | 8.47 | 326.36 |
| | 02/23/90 | | 8.25 | 326.58 |
| | 06/04/90 | | 8.62 | 326.21 |
| | 11/20/90 | | 9.50 | 325.33 |
| | 02/12/91 | | 9.51 | 325.32 |
| | 05/06/91 | | 8.34 | 326.49 |
| | 08/28/91 | | 9.28 | 325.55 |
| | 11/13/91 | | 9.59 | 325.24 |
| | 02/25/92 | | 7.49 | 327.34 |
| | 05/12/92 | | 8.64 | 326.19 |
| | 08/12/92 | | 9.15 | 325.68 |
| | 11/10/92 | | 10.04 | 324.79 |
| | 02/10/93 | | 7.24 | 327.59 |
| | 05/10/93 | | 7.78 | 327.05 |
| | 08/12/93 | | 8.54 | 326.29 |
| | 11/11/93 | | 8.56 | 326.27 |
| | 02/11/94 | | 8.62 | 326.21 |
| | 05/17/94 | | 7.96 | 326.87 |
| | 08/25/94 | | 9.24 | 325.59 |
| | 11/23/94 | | 8.74 | 326.09 |
| | 02/15/95 | | 6.84 | 327.99 |
| MW-2 | 05/09/88 | 336.96 | 10.85 | 326.11 |
| | 08/26/88 | | 11.29 | 325.67 |
| | 10/05/88 | | 10.83 | 326.13 |
| | 11/22/88 | | 11.42 | 325.54 |
| | 12/09/88 | | 11.45 | 325.51 |
| | 01/13/89 | | NM | NM |
| | 02/10/89 | | 10.74 | 326.22 |

Table 1 (continued)
**Groundwater Elevation Data**

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Gauged | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) |
|---|---|---|---|---|
| MW-2 (cont.) | 03/02/89 | | 10.91 | 326.05 |
| | 04/04/89 | | 10.06 | 326.90 |
| | 05/01/89 | | 10.58 | 326.38 |
| | 05/31/89 | | 10.73 | 326.23 |
| | 06/28/89 | | 10.90 | 326.06 |
| | 08/08/89 | | 10.78 | 326.18 |
| | 09/08/89 | | 10.97 | 325.99 |
| | 10/09/89 | | 10.88 | 326.08 |
| | 10/24/89 | | 11.00 | 325.96 |
| | 12/21/89 | | 11.06 | 325.90 |
| | 01/17/90 | | 10.78 | 326.18 |
| | 02/23/90 | | 10.35 | 326.61 |
| | 06/04/90 | | 10.72 | 326.24 |
| | 11/20/90 | | 11.35 | 325.61 |
| | 02/12/91 | | 11.64 | 325.32 |
| | 05/06/91 | | 10.05 | 326.91 |
| | 08/28/91 | | 11.16 | 325.80 |
| | 11/13/91 | | 11.57 | 325.39 |
| | 02/25/92 | | 9.66 | 327.30 |
| | 05/12/92 | | 10.97 | 325.99 |
| | 08/12/92 | | 11.58 | 325.38 |
| | 11/10/92 | | 12.05 | 324.91 |
| | 02/10/93 | | 9.28 | 327.68 |
| | 05/10/93 | | 9.65 | 327.31 |
| | 08/12/93 | | 10.70 | 326.26 |
| | 11/11/93 | | 11.36 | 325.60 |
| | 02/11/94 | | 11.04 | 325.92 |
| | 05/17/94 | | 10.29 | 326.67 |
| | 08/25/94 | | 11.29 | 325.67 |
| | 11/23/94 | | 10.92 | 326.04 |
| | 02/15/95 | | 8.90 | 328.06 |
| MW-3 | 05/09/88 | 336.96 | 10.59 | 326.37 |
| | 08/26/88 | | 11.10 | 325.86 |
| | 10/05/88 | | 10.43 | 326.53 |
| | 11/22/88 | | 11.16 | 325 80 |
| | 12/09/88 | | 11 24 | 325 72 |
| | 01/13/89 | | NM | NM |
| | 02.10/89 | | 10 43 | 326 53 |
| | 03/02/89 | | 10 59 | 326 37 |
| | 04/04/89 | | 9 45 | 327 51 |
| | 05/01/89 | | 10 20 | 326 76 |
| | 06/01/89 | | 10 40 | 326 56 |
| | 06/28/89 | | 10 60 | 326 36 |
| | 08/09/89 | | 10 64 | 326 32 |
| | 09/11/89 | | 10 83 | 326 13 |

Table 1 (continued)
**Groundwater Elevation Data**

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Gauged | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) |
|---|---|---|---|---|
| MW-3 (cont.) | 10/10/89 | | 10.95 | 326.01 |
| | 10/26/89 | | 10.86 | 326.10 |
| | 12/21/89 | | 11.09 | 325.87 |
| | 01/17/90 | | 10.90 | 326.06 |
| | 02/23/90 | | 10.52 | 326.44 |
| | 06/04/90 | | 10.52 | 326.44 |
| | 11/20/90 | | 12.65 | 324.31 |
| | 02/12/91 | | 11.16 | 325.80 |
| | 05/06/91 | 336.93 | 9.85 | 327.08 |
| | 08/28/91 | | 10.90 | 326.03 |
| | 11/13/91 | | 11.28 | 325.65 |
| | 02/25/92 | | 9.04 | 327.89 |
| | 05/12/92 | | 10.50 | 326.43 |
| | 08/12/92 | | 10.94 | 325.99 |
| | 11/10/92 | | 11.84 | 325.09 |
| | 02/10/93 | | 8.82 | 328.11 |
| | 05/10/93 | | 8.88 | 328.05 |
| | 08/12/93 | | 10.36 | 326.57 |
| | 11/11/93 | | 10.64 | 326.29 |
| | 02/11/94 | | 10.68 | 326.25 |
| | 05/17/94 | | 9.92 | 327.01 |
| | 08/25/94 | | 11.30 | 325.63 |
| | 11/23/94 | | 10.48 | 326.45 |
| | 02/15/95 | | 8.35 | 328.58 |
| MW-4 | 05/09/88 | 337.14 | 10.88 | 326.26 |
| | 08/26/88 | | 11.34 | 325.80 |
| | 10/05/88 | | 10.87 | 326.27 |
| | 11/22/88 | | 11.41 | 325.73 |
| | 12/09/88 | | 11.46 | 325.68 |
| | 01/13/89 | | NM | NM |
| | 02/10/89 | | 10.78 | 326.36 |
| | 03/02/89 | | 10.92 | 326.22 |
| | 04/04/89 | | 10.04 | 327.10 |
| | 05/01/89 | | 10.52 | 326.62 |
| | 05/31/89 | | 10.62 | 326.52 |
| | 06/28/89 | | 11 00 | 326 14 |
| | 08/09/89 | | 10 92 | 326 22 |
| | 09/08/89 | | 11 05 | 326 09 |
| | 10/10/89 | | 10 97 | 326 17 |
| | 10/26/89 | | 11 35 | 325 79 |
| | 12/21/89 | | 11 07 | 326 07 |
| | 01/17/90 | | 11 08 | 326 06 |
| | 02/23/90 | | 10 90 | 325 24 |
| | 06/04/90 | | 10 74 | 326 40 |
| | 11/20/90 | | 11 45 | 325 69 |

Table 1 (continued)
**Groundwater Elevation Data**

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Gauged | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) |
|---|---|---|---|---|
| MW-4 (cont.) | 02/12/91 | | 11.50 | 325.64 |
| | 05/06/91 | | 10.04 | 327.10 |
| | 08/28/91 | | 11.18 | 325.96 |
| | 11/13/91 | | 11.60 | 325.54 |
| | 02/25/92 | | 9.45 | 327.69 |
| | 05/12/92 | | 10.84 | 326.30 |
| | 08/12/92 | | 11.36 | 325.78 |
| | 11/10/92 | | 12.12 | 325.02 |
| | 02/10/93 | | 9.40 | 327.74 |
| | 05/10/93 | | 9.54 | 327.60 |
| | 08/12/93 | | 10.68 | 326.46 |
| | 11/11/93 | | 11.97 | 325.17 |
| | 02/11/94 | | 10.71 | 326.43 |
| | 05/17/94 | | 10.30 | 326.84 |
| | 08/25/94 | | 10.84 | 326.30 |
| | 11/23/94 | | 10.78 | 326.36 |
| | 02/15/95 | | 9.49 | 327.65 |
| MW-5 | 08/26/88 | 334.96 | 9.10 | 325.86 |
| | 10/05/88 | | 9.95 | 325.01 |
| | 11/22/88 | | 8.93 | 326.03 |
| | 12/09/88 | | 10.48 | 324.48 |
| | 01/13/89 | | NM | NM |
| | 02/10/89 | | 10.35 | 324.61 |
| | 03/02/89 | | 8.50 | 326.46 |
| | 04/05/89 | | 7.72 | 327.24 |
| | 05/01/89 | | 8.21 | 326.75 |
| | 06/01/89 | | 8.40 | 326.56 |
| | 06/29/89 | | 8.65 | 326.31 |
| | 08/09/89 | | 8.76 | 326.20 |
| | 09/11/89 | | 8.80 | 326.16 |
| | 10/10/89 | | 11.92 | 323.04 |
| | 10/25/89 | | 9.03 | 325.93 |
| | 12/20/89 | | 11.26 | 323.70 |
| | 01/18/90 | | 9.95 | 325.01 |
| | 02/23/90 | | 8.30 | 326.66 |
| | 06/04/90 | | 8.57 | 326.39 |
| | 11/20/90 | | 9.45 | 325.51 |
| | 02/11/91 | | 9.27 | 325.69 |
| | 05/06/91 | | 7.90 | 327.06 |
| | 08/28/91 | | 9.28 | 325.68 |
| | 11/13/91 | | 9.36 | 325.60 |
| | 02/25/92 | | 9.02 | 325.94 |
| | 05/12/92 | | 8.65 | 326.31 |
| | 08/12/92 | | 9.40 | 325.56 |
| | 11/10/92 | | 9.68 | 325.28 |

Table 1 (continued)
**Groundwater Elevation Data**

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Gauged | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) |
|---|---|---|---|---|
| MW-5 (cont.) | 02/10/93 | | 7.97 | 326.99 |
| | 05/10/93 | | 7.76 | 327.20 |
| | 08/12/93 | | 8.75 | 326.21 |
| | 11/11/93 | | 9.32 | 325.64 |
| | 02/11/94 | | 8.97 | 325.99 |
| | 05/17/94 | | 8.12 | 326.84 |
| | 08/25/94 | | 9.19 | 325.77 |
| | 11/23/94 | | 8.78 | 326.18 |
| | 02/15/95 | | 6.88 | 328.08 |
| MW-6 | 08/26/88 | 335.42 | 9.69 | 325.73 |
| | 10/05/88 | | 9.27 | 326.15 |
| | 11/22/88 | | 9.77 | 325.65 |
| | 12/09/88 | | 9.85 | 325.27 |
| | 01/13/89 | | NM | NM |
| | 02/10/89 | | 9.10 | 326.32 |
| | 03/02/89 | | 9.29 | 326.13 |
| | 04/04/89 | | 8.48 | 326.94 |
| | 05/01/89 | | 8.90 | 326.52 |
| | 06/01/89 | | 9.16 | 326.26 |
| | 06/29/89 | | 9.30 | 326.12 |
| | 08/09/89 | | 9.30 | 326.12 |
| | 09/11/89 | | 9.31 | 326.11 |
| | 10/10/89 | | 9.32 | 326.10 |
| | 10/24/89 | | 9.30 | 326.12 |
| | 12/20/89 | | 9.58 | 325.84 |
| | 01/18/90 | | 9.46 | 325.96 |
| | 02/23/90 | | 8.94 | 326.48 |
| | 06/04/90 | | 9.22 | 326.20 |
| | 11/20/90 | | 9.65 | 325.77 |
| | 02/12/91 | | 9.85 | 325.57 |
| | 05/06/91 | | 9.12 | 326.30 |
| | 08/28/91 | | 9.68 | 325.74 |
| | 11/13/91 | | 10.00 | 325.42 |
| | 02/25/92 | | 8.44 | 326.98 |
| | 05/12/92 | | 9 11 | 326 31 |
| | 08/12/92 | | 9 72 | 325 70 |
| | 11/10/92 | | 10 56 | 324 86 |
| | 02/10/93 | | 7 65 | 327 77 |
| | 05/10/93 | | 8 10 | 327 32 |
| | 08/12/93 | | 9 18 | 326 24 |
| | 11/11/93 | | 9 38 | 326 04 |
| | 02/11/94 | | 9 02 | 326 40 |
| | 05/17/94 | | 8 58 | 326 84 |
| | 08/25/94 | | 9 79 | 325 63 |
| | 11/23/94 | | 9 20 | 326 22 |
| | 02/15/95 | | 7 36 | 328 06 |

Table 1 (continued)
**Groundwater Elevation Data**

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Gauged | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) |
|---|---|---|---|---|
| MW-7 | 08/26/88 | 333.23 | 7.94 | 325.29 |
| | 10/05/88 | | 7.54 | 325.69 |
| | 11/22/88 | | NM | NM |
| | 12/09/88 | | 7.53 | 325.70 |
| | 01/13/89 | | NM | NM |
| | 02/10/89 | | 6.62 | 326.61 |
| | 03/02/89 | | 7.03 | 326.20 |
| | 04/05/89 | | 6.80 | 326.43 |
| | 05/01/89 | | 6.53 | 326.70 |
| | 05/31/89 | | 6.93 | 326.30 |
| | 06/28/89 | | 6.85 | 326.38 |
| | 08/09/89 | | 6.67 | 326.56 |
| | 09/07/89 | | 6.90 | 326.33 |
| | 10/10/89 | | 6.90 | 326.33 |
| | 10/24/89 | | 7.29 | 325.94 |
| | 12/20/89 | | 7.47 | 325.76 |
| | 01/18/90 | | 7.49 | 325.74 |
| | 02/23/90 | | 6.92 | 326.31 |
| | 06/04/90 | | 6.95 | 326.28 |
| | 11/20/90 | | 8.10 | 325.13 |
| | 02/11/91 | | 8.04 | 325.19 |
| | 05/06/91 | | 6.37 | 325.86 |
| | 08/28/91 | | 7.94 | 325.29 |
| | 11/13/91 | | 8.41 | 324.82 |
| | 02/25/92 | | 6.99 | 326.24 |
| | 05/12/92 | | 7.42 | 325.81 |
| | 08/12/92 | | 8.65 | 324.58 |
| | 11/10/92 | | 8.82 | 324.41 |
| | 02/10/93 | | 6.06 | 327.17 |
| | 05/10/93 | | 6.68 | 326.55 |
| | 08/12/93 | | 6.83 | 326.40 |
| | 11/11/93 | | 6.90 | 326.33 |
| | 02/11/94 | | 6.12 | 327.11 |
| | 05/17/94 | | 6.06 | 327.17 |
| | 08/25/94 | | 6.76 | 326.47 |
| | 11/23/94 | | 6.75 | 326.48 |
| | 02/15/95 | | 5.40 | 327.83 |
| MW-8 | 03/01/89 | 335.80 | 8.28 | 327.52 |
| | 04/04/89 | | 7.31 | 328.49 |
| | 05/01/89 | | 8.97 | 326.83 |
| | 05/31/89 | | 9.17 | 326.63 |
| | 06/28/89 | | 9.40 | 326.40 |
| | 08/08/89 | | 9.42 | 326.28 |
| | 09/07/89 | | 8.50 | 327.30 |
| | 10/10/89 | | 9.46 | 326.34 |

Table 1 (continued)
**Groundwater Elevation Data**

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Gauged | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) |
|---|---|---|---|---|
| MW-8 (cont.) | 10/26/89 | | 9.56 | 326.24 |
| | 12/21/89 | | 9.57 | 326.23 |
| | 01/18/90 | | 9.29 | 326.51 |
| | 02/26/90 | | 8.50 | 327.30 |
| | 06/04/90 | | 9.04 | 326.76 |
| | 02/11/91 | | 9.40 | 326.40 |
| | 05/06/91 | | 8.70 | 327.10 |
| | 08/28/91 | | 9.68 | 326.12 |
| | 11/13/91 | | 9.87 | 326.93 |
| | 02/25/92 | | 7.45 | 328.35 |
| | 05/12/92 | | 9.19 | 326.61 |
| | 08/12/92 | | 9.82 | 325.98 |
| | 11/10/92 | | 10.41 | 325.39 |
| | 02/10/93 | | 7.35 | 328.45 |
| | 05/10/93 | | 8.00 | 327.80 |
| | 08/12/93 | | 9.00 | 326.80 |
| | 11/11/93 | | 9.47 | 326.33 |
| | 02/11/94 | | 8.80 | 327.00 |
| | 05/17/94 | | 8.21 | 327.59 |
| | 08/25/94 | | 9.52 | 326.28 |
| | 11/23/94 | | 9.08 | 326.72 |
| | 02/15/95 | | 6.67 | 329.13 |
| MW-9 | 03/01/89 | 334.57 | 8.48 | 326.09 |
| | 04/04/89 | | 7.69 | 326.88 |
| | 05/01/89 | | 8.20 | 326.37 |
| | 05/31/89 | | 8.72 | 325.85 |
| | 06/28/89 | | 9.00 | 325.57 |
| | 08/08/89 | | 8.53 | 326.04 |
| | 09/07/89 | | 8.99 | 325.58 |
| | 10/09/89 | | 8.89 | 325.68 |
| | 10/23/89 | | 9.02 | 325.55 |
| | 12/21/89 | | 9.48 | 325.09 |
| | 01/18/90 | | 8.73 | 325.84 |
| | 02/26/90 | | 9.06 | 325.51 |
| | 06/04/90 | | 8.64 | 325.93 |
| | 11/20/90 | | 9 95 | 324 62 |
| | 02/11/91 | | 9 85 | 324 72 |
| | 05/06/91 | | 10 05 | 324 52 |
| | 08/28/91 | | 10 34 | 324 23 |
| | 11/13/91 | | 9 39 | 325.18 |
| | 02/25 92 | | 7 18 | 327 39 |
| | 05/12/92 | | 8 54 | 326 03 |
| | 08/12/92 | | 8 97 | 325 60 |
| | 11/10/92 | | 9 61 | 324 96 |
| | 02/10/93 | | 7 20 | 327 37 |

Table 1 (continued)
**Groundwater Elevation Data**

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Gauged | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) |
|---|---|---|---|---|
| MW-9 (cont.) | 05/10/93 | | 7.56 | 327.01 |
| | 08/12/93 | | 8.25 | 326.32 |
| | 11/11/93 | | 10.30 | 324.27 |
| | 02/11/94 | | 8.88 | 325.69 |
| | 05/17/94 | | 8.06 | 326.51 |
| | 08/25/94 | | 8.79 | 325.78 |
| | 11/23/94 | | 8.65 | 325.92 |
| | 02/15/95 | | 7.36 | 327.21 |
| MW-10 | 03/02/89 | 335.37 | 8.95 | 326.42 |
| | 04/04/89 | | 7.89 | 327.48 |
| | 05/01/89 | | 9.07 | 326.30 |
| | 06/01/89 | | 8.86 | 326.51 |
| | 06/29/89 | | 9.05 | 326.32 |
| | 08/09/89 | | 9.70 | 326.67 |
| | 09/07/89 | | 8.14 | 327.23 |
| | 10/10/89 | | 9.21 | 326.16 |
| | 10/26/89 | | 9.60 | 325.77 |
| | 12/20/89 | | 9.42 | 325.95 |
| | 06/90 | ---------- | Well Destroyed | ---------- |
| MW-11 | 03/02/89 | 334.20 | 8.30 | 325.90 |
| | 04/04/89 | | 7.52 | 325.68 |
| | 05/01/89 | | 7.97 | 326.23 |
| | 11/20/90 | | NM | NM |
| | 05/31/90 | | 8.13 | 326.07 |
| | 06/28/89 | | 8.30 | 325.90 |
| | 08/08/89 | | 8.22 | 325.98 |
| | 09/07/89 | | 8.32 | 325.88 |
| | 10/09/89 | | 8.28 | 325.92 |
| | 10/24/89 | | 8.38 | 325.82 |
| | 12/20/89 | | 8.48 | 325.72 |
| | 01/18/90 | | 8.20 | 326.00 |
| | 02/26/90 | | 7.86 | 326.34 |
| | 06/04/90 | | 8.13 | 326.07 |
| | 11/20/90 | | 8 83 | 325 37 |
| | 02/11/90 | | 8 95 | 325 25 |
| | 05/06/91 | | 7 71 | 326 49 |
| | 08/28/91 | | 8 62 | 325 58 |
| | 11/15/91 | | 8 99 | 325 21 |
| | 02/25/92 | | 7 21 | 326 99 |
| | 05/12/92 | | 8 26 | 325 94 |
| | 08/12/92 | | 8 75 | 325 45 |
| | 11/10/92 | | 9 47 | 324 73 |
| | 02/10/93 | | 6 79 | 327 41 |
| | 05/10/93 | | 7 18 | 327 02 |

Table 1 (continued)
**Groundwater Elevation Data**

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Gauged | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) |
|---|---|---|---|---|
| MW-11 (cont.) | 08/12/93 | | 8.10 | 326.10 |
| | 11/11/93 | | 8.56 | 325.64 |
| | 02/11/94 | | 8.21 | 325.99 |
| | 05/17/94 | | 7.61 | 326.59 |
| | 08/25/95 | | 8.68 | 325.52 |
| | 11/23/94 | | 8.27 | 325.93 |
| | 02/15/95 | | 6.46 | 327.74 |
| MW-12 | 03/02/89 | 332.53 | 6.94 | 325.59 |
| | 04/04/89 | | 6.33 | 326.20 |
| | 05/01/89 | | 6.62 | 325.91 |
| | 06/01/89 | | 6.82 | 325.71 |
| | 06/29/89 | | 7.00 | 325.53 |
| | 08/09/89 | | 6.76 | 325.77 |
| | 09/07/89 | | 6.81 | 325.72 |
| | 10/09/89 | | 7.11 | 325.42 |
| | 10/24/89 | | 7.60 | 324.93 |
| | 12/20/89 | | 8.25 | 324.28 |
| | 01/18/90 | | 8.23 | 324.30 |
| | 02/26/90 | | 7.54 | 324.99 |
| | 06/04/90 | | 7.96 | 324.57 |
| | 11/20/90 | | 8.80 | 323.73 |
| | 02/12/90 | | 7.85 | 324.68 |
| | 05/06/91 | | 7.35 | 325.18 |
| | 08/28/91 | | 7.79 | 324.74 |
| | 11/13/91 | | 7.89 | 324.64 |
| | 02/25/92 | | 6.14 | 326.39 |
| | 05/12/92 | | 7.54 | 324.99 |
| | 08/12/92 | | 9.83 | 322.70 |
| | 11/10/92 | | 8.32 | 324.21 |
| | 02/10/93 | | 6.75 | 325.78 |
| | 05/10/93 | | ------ Well Inaccessible ----- | |
| | 08/12/93 | | 6.23 | 326.30 |
| | 11/11/93 | | 7.43 | 325.10 |
| | 02/11/94 | | 7.18 | 325.35 |
| | 05/17/94 | | 6 80 | 325 73 |
| | 08/25/94 | | 7 24 | 325 29 |
| | 11/23/94 | | 7 16 | 325 37 |
| | 02/15/95 | | 5 16 | 327 37 |
| MW-13 | 05/06/91 | 335 64 | 8 37 | 327 27 |
| | 08/28/91 | | 9 82 | 325 82 |
| | 11/13/91 | | 10 19 | 325 45 |
| | 02/25/92 | | 7 66 | 327 98 |
| | 05/12/92 | | 9 16 | 326 48 |
| | 08/12/92 | | 10 91 | 324 73 |

Table 1 (continued)
**Groundwater Elevation Data**

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Gauged | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) |
|---|---|---|---|---|
| MW-13 (cont.) | 11/10/92 | | 10.69 | 324.95 |
| | 02/10/93 | | 7.49 | 328.15 |
| | 05/10/93 | | 8.06 | 327.58 |
| | 08/12/93 | | 8.73 | 326.91 |
| | 11/11/93 | | 9.15 | 326.49 |
| | 02/11/94 | | 9.12 | 326.52 |
| | 05/17/94 | | 8.62 | 327.02 |
| | 08/25/94 | | 9.32 | 326.32 |
| | 11/23/94 | | 9.37 | 326.27 |
| | 02/15/95 | | 8.42 | 327.22 |
| RW-1 | 12/09/89 | 336.19 | 10.73 | 325.46 |
| | 01/13/89 | | NM | NM |
| | 02/10/89 | | 10.91 | 325.28 |
| | 03/02/89 | | 10.15 | 325.04 |
| | 04/05/89 | | 9.34 | 326.85 |
| | 05/01/89 | | 9.85 | 326.34 |
| | 06/01/89 | | 9.96 | 326.23 |
| | 06/30/89 | | 9.90 | 326.29 |
| | 08/09/89 | | 9.80 | 326.39 |
| | 09/11/89 | | 10.02 | 326.17 |
| | 10/10/89 | | 9.88 | 326.31 |
| | 10/25/89 | | 9.80 | 326.39 |
| | 12/21/89 | | 10.25 | 325.94 |
| | 01/17/89 | | 9.80 | 326.39 |
| | 02/23/90 | | 9.60 | 326.59 |
| | 06/04/90 | | 9.97 | 326.22 |
| | 11/20/90 | | 10.50 | 325.69 |
| | 02/11/91 | | 10.87 | 325.32 |
| | 02/25/92 | | ----- Well Not Gauged ----- | |
| | 05/12/92 | | NM | NM |
| | 08/12/92 | | NM | NM |
| | 11/10/92 | | NM | NM |
| | 05/10/93 | | 9.26 | 326.93 |
| | 08/12/93 | | NM | NM |
| | 11/11/93 | | NM | NM |
| | 02/11/94 | | 9.98 | 326.21 |
| | 05/17/94 | | 9.29 | 326.90 |
| | 08/25/94 | | 10.56 | 325.63 |
| | 11/23/94 | | 10.07 | 326.12 |
| | 02/15/95 | | 8.20 | 327.99 |

MSL = Mean sea level
TOC = Top of casing
NM = Not measured

Table 2
**Groundwater Analytical Data**
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Sampled | TPH as Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | Xylenes (ppb) |
|---|---|---|---|---|---|---|
| MW-1 | 05/09/88 | 440 | 120 | 50 | NR | 120 |
| | 08/26/88 | 200,000 | 4,400 | 260 | 300 | 450 |
| | 10/05/88 | 17,000 | 6,700 | 360 | 210 | 730 |
| | 11/22/88 | 8,000 | 3,900 | 830 | 250 | 340 |
| | 12/09/88 | 11,000 | 790 | 36 | 7.3 | 68 |
| | 01/13/89 | 8,800 | 3,800 | 110 | 330 | 90 |
| | 02/10/89 | 18,000 | 4,700 | 400 | 660 | 190 |
| | 03/02/89 | 14,000 | 6,100 | 770 | 320 | 440 |
| | 04/04/89 | 11,000 | 4,800 | 770 | 270 | 780 |
| | 05/01/89 | 11,000 | 2,800 | 880 | 410 | 780 |
| | 06/01/89 | ND | ND | ND | ND | ND |
| | 06/29/89 | 4,700 | 310 | 160 | 75 | 260 |
| | 08/09/89 | 12,000 | 1,300 | 620 | 830 | 680 |
| | 09/11/89 | ND | ND | ND | ND | 2.2 |
| | 10/10/89 | 8,700 | 1,100 | 310 | 180 | 590 |
| | 10/25/89 | 7,500 | 660 | 250 | 460 | 480 |
| | 12/20/89 | 6,200 | 270 | 110 | 260 | 220 |
| | 01/17/90 | 7,400 | 200 | 170 | 160 | 260 |
| | 02/23/90 | 1,500 | 130 | 13 | 30 | 24 |
| | 06/04/90 | 830 | 88 | 10 | 2.6 | 28 |
| | 11/20/90 | NA | NA | NA | NA | NA |
| | 02/12/91 | 1,500 | 180 | 39 | 82 | 110 |
| | 05/06/91 | 510 | 41 | 11 | 25 | 35 |
| | 08/28/91 | 450 | 41 | 16 | 24 | 34 |
| | 11/13/91 | 320 | 41 | 14 | 23 | 33 |
| | 02/25/92 | 240 | 24 | 9.2 | 14 | 20 |
| | 05/12/92 | 320 | 60 | 25 | 29 | 41 |
| | 08/12/92 | 230 | 26 | 16 | 20 | 25 |
| | 08/12/92(D) | 220 | 25 | 16 | 19 | 24 |
| | 11/10/92 | 120 | 13 | 8.8 | 9 | 13 |
| | 02/10/93 | 80 | 3.3 | 2.9 | 2.4 | 5.1 |
| | 05/10/93 | 100 | 8.5 | 5.5 | 5.2 | 10 |
| | 08/12/93 | 130 | 10 | 11 | 8.3 | 32 |
| | 11/11/93 | ND | ND | ND | ND | ND |
| | 02/11/94 | 110 | 12 | 4 6 | 6 4 | 13 |
| | 05/17/94 | ND | 0 53 | ND | ND | 0 71 |
| | 08/25/94 | ND | ND | ND | ND | ND |
| | 11/23/94 | ND | 0 9 | ND | ND | ND |
| | 02/15/95 | 330 | 2 7 | 1 3 | 1 5 | 2 3 |
| MW-2 | 05/09/88 | ND | ND | ND | NR | ND |
| | 08/26/88 | 1 700 | 230 | 16 | 87 | 120 |
| | 10/05/88 | 200 | 20 | 2 3 | 8 3 | 12 |
| | 11/22/88 | 800 | 93 | 1 6 | 4 3 | 60 |

Table 2 (continued)
**Groundwater Analytical Data**
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Sampled | TPH as Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | Xylenes (ppb) |
|---|---|---|---|---|---|---|
| MW-2 (cont.) | 12/09/88 | 270 | 45 | 3.6 | 7.2 | 14 |
| | 01/13/89 | 180 | 26 | 2.3 | 17 | 7 |
| | 02/10/89 | 320 | 43 | 1.7 | 34 | 15 |
| | 03/02/89 | 230 | 24 | 0.9 | 9.2 | 18 |
| | 04/04/89 | 230 | 53 | 2.3 | 7.1 | 20 |
| | 05/01/89 | ND | 2.7 | ND | ND | ND |
| | 05/31/89 | 120 | 14 | ND | 3.9 | 7.6 |
| | 06/28/89 | ND | 4.1 | ND | ND | ND |
| | 08/08/89 | 88 | 3.9 | ND | ND | ND |
| | 09/08/89 | ND | 3.2 | ND | ND | ND |
| | 10/09/89 | 110 | 6.7 | ND | ND | ND |
| | 10/24/89 | ND | 2.5 | ND | ND | 1.9 |
| | 12/21/89 | ND | 7.1 | ND | 5 | 9.8 |
| | 01/17/90 | ND | 4.4 | ND | 1.6 | 1.4 |
| | 02/23/90 | 70 | 6.3 | ND | 2.7 | 2.5 |
| | 06/04/90 | 60 | 2.4 | ND | 0.8 | ND |
| | 11/20/90 | 60 | 5.6 | ND | ND | ND |
| | 02/12/91 | 130 | 14 | ND | 0.9 | 0.5 |
| | 05/06/91 | 60 | 1.5 | ND | 5 | ND |
| | 08/28/91 | 100 | 6.3 | ND | 1 | 1.1 |
| | 11/13/91 | ND | 11 | ND | 1.3 | ND |
| | 02/25/92 | ND | 3.8 | ND | ND | ND |
| | 05/12/92 | ND | 6.0 | ND | ND | ND |
| | 08/12/92 | 110 | 6.8 | ND | 1.0 | ND |
| | 11/10/92 | 56 | 4.5 | ND | ND | ND |
| | 02/10/93 | 81 | 4.8 | 0.6 | 1.4 | 1.9 |
| | 05/10/93 | 90 | 0.8 | 0.8 | 0.6 | 3.2 |
| | 08/12/93 | 420 | 61 | 18 | 21 | 53 |
| | 11/11/93 | ND | ND | ND | ND | ND |
| | 02/11/94 | ND | 0.64 | ND | ND | ND |
| | 05/17/94 | ND | 3.0 | ND | ND | 0.51 |
| | 08/25/94 | ND | 17 | ND | ND | ND |
| | 11/23/94 | ND | 9.3 | ND | ND | ND |
| | 02/15/95 | 160 | 4 4 | 1 1[b] | 0 6 | 1 5 |
| MW-3 | 05/09/88 | 76 | 10 | 4 4 | NR | 15 |
| | 08/26/88 | 5,200 | 170 | 6 | 32 | 54 |
| | 10/05/88 | 260 | 100 | 2 7 | 5 8 | 7 |
| | 11/22/88 | 180 | 75 | 1 4 | 8 1 | 4 |
| | 12/09/88 | 160 | 5 | 5 9 | ND | ND |
| | 01/13/89 | 160 | 35 | 1 2 | 3 | 2 |
| | 02/10/89 | 300 | 83 | ND | 8 6 | 8 |
| | 03/02/89 | 570 | 160 | 1 | 17 | 9 |
| | 04/04/89 | 150 | 64 | 0 8 | 2 7 | 6 |

Table 2 (continued)
**Groundwater Analytical Data**
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compound)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Sampled | TPH as Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | Xylenes (ppb) |
|---|---|---|---|---|---|---|
| MW-3 | 05/01/89 | 130 | 48 | 1.2 | 3.4 | 2 |
| (cont.) | 06/01/89 | ND | ND | ND | ND | ND |
| | 06/28/89 | 90 | 68 | 0.7 | ND | 5.1 |
| | 08/09/89 | 150 | 23 | 5.3 | 2.6 | ND |
| | 09/11/89 | ND | ND | ND | ND | ND |
| | 10/10/89 | 80 | 6.4 | 0.72 | ND | ND |
| | 10/26/89 | 150 | 11 | ND | 1.6 | ND |
| | 12/21/89 | ND | 6.8 | ND | ND | ND |
| | 01/17/90 | ND | 4 | ND | 6.8 | ND |
| | 02/23/90 | 50 | 10 | ND | 1.2 | 0.9 |
| | 06/04/90 | 80 | 10 | ND | 1.4 | ND |
| | 11/20/90 | 100 | 26 | 0.7 | 1.2 | 1.9 |
| | 02/12/91 | 130 | 27 | ND | ND | ND |
| | 05/06/91 | 120 | 31 | 0.8 | 2.1 | 0.8 |
| | 08/28/91 | 340 | 87 | 1.1 | 6.5 | 3.8 |
| | 11/13/91 | 240 | 140 | ND | 3.1 | 0.9 |
| | 02/25/92 | 80 | 17 | ND | ND | ND |
| | 05/12/92 | 74 | 31 | ND | 2.6 | ND |
| | 08/12/92 | 160 | 24 | 0.5 | 2.9 | ND |
| | 11/10/92 | 130 | 27 | ND | 1.1 | 0.9 |
| | 11/10/92(D) | 110 | 2.6 | ND | 1.1 | 0.7 |
| | 02/10/93 | 92 | 5.7 | ND | ND | ND |
| | 02/10/93(D) | 80 | 5.2 | ND | ND | ND |
| | 05/10/93 | 250 | 100 | ND | ND | ND |
| | 05/10/93(D) | 200 | 80 | ND | 2.4 | ND |
| | 08/12/93 | 380 | 110 | 16 | 13 | 43 |
| | 11/11/93 | 170 | 35 | 8.0 | 29 | 9.2 |
| | 02/11/94 | 76 | 23 | ND | ND | ND |
| | 05/17/94 | 84 | 26 | ND | 2.2 | ND |
| | 08/25/94 | ND | 7.7 | ND | 0.6 | ND |
| | 08/25/94(D) | ND | 14 | ND | 1.5 | ND |
| | 11/23/94 | ND | 2.7 | ND | ND | ND |
| | 02/15/95 | 50 | 19 | 0.9[b] | 1.4 | 1.5 |
| MW-4 | 05/09/88 | 290 | 76 | 33 | NA | 150 |
| | 08/26/88 | 210 | 640 | 41 | 110 | 160 |
| | 10/05/88 | 450 | 110 | 6 3 | 16 | 20 |
| | 11/22/88 | 500 | 110 | 4 | 20 | 27 |
| | 12/09/88 | 260 | 920 | 7 5 | 5 9 | 11 |
| | 01/13/89 | 990 | 200 | 6 5 | 46 | 14 |
| | 02/10/89 | 290 | 90 | 3 6 | 8 8 | 9 |
| | 03/02/89 | 630 | 210 | 6 2 | 34 | 7 |
| | 04/04/89 | 640 | 340 | 13 | 25 | 40 |
| | 05/01/89 | 100 | 65 | 2 | 3 | 4 |

Table 2 (continued)
**Groundwater Analytical Data**
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Sampled | TPH as Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | Xylenes (ppb) |
|---|---|---|---|---|---|---|
| MW-4 | 05/31/89 | 60 | ND | ND | ND | ND |
| (cont.) | 06/28/89 | 110 | 62 | 1.3 | ND | 4.8 |
| | 08/09/89 | 160 | 110 | 2 | 6.4 | ND |
| | 09/08/89 | 94 | 45 | 0.5 | 3.8 | ND |
| | 10/10/89 | 90 | 30 | 1 | 1.9 | ND |
| | 10/26/89 | ND | 3.4 | ND | ND | ND |
| | 12/21/89 | ND | 35 | 1.1 | 3.6 | 1.6 |
| | 01/17/90 | ND | 4 | ND | 6.8 | ND |
| | 02/23/90 | ND | 8 | ND | 1.1 | 0.7 |
| | 06/04/90 | 160 | 85 | 1.1 | 1.9 | ND |
| | 11/20/90 | 140 | 52 | 1 | 0.8 | 0.9 |
| | 02/12/91 | 130 | 48 | ND | 1.5 | ND |
| | 05/06/91 | 140 | 49 | 1.3 | 4.1 | 1.7 |
| | 08/28/91 | 90 | 13 | ND | 1 | 1.1 |
| | 11/13/91 | ND | 10 | ND | ND | ND |
| | 02/25/92 | 120 | 47 | ND | 0.5 | 0.5 |
| | 05/12/92 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 08/12/92 | ND | 3.5 | ND | ND | ND |
| | 11/10/92 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 02/11/93 | 190 | 59 | 3.2 | 3.6 | 3.1 |
| | 05/10/93 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 08/12/93 | 50 | 4.1 | 1.1 | 1.3 | 3.2 |
| | 11/11/93 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 02/11/93 | ND | 0.62 | ND | ND | ND |
| | 05/17/94 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 08/25/94 | ND | ND | ND | ND | ND |
| | 11/23/94 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 02/15/95 | ND | 13 | 0.9[b] | ND | 1.5 |
| MW-5 | 08/26/88 | 210 | 6 | 44 | 9 | 19 |
| | 10/05/88 | 7,500 | 2,700 | ND | 110 | 590 |
| | 11/22/88 | 150 | 21 | 26 | 3 | 2 |
| | 12/09/88 | 240 | 37 | 2.2 | 6.7 | 7.7 |
| | 01/13/89 | 80 | 1 6 | ND | 7 7 | 2 |
| | 02/10,89 | 60 | ND | ND | ND | ND |
| | 03/02'89 | ND | ND | ND | ND | ND |
| | 04/05,89 | ND | ND | ND | ND | ND |
| | 05/01,89 | ND | 1 3 | ND | ND | ND |
| | 06/01/89 | ND | ND | ND | ND | ND |
| | 06/29,89 | ND | ND | ND | ND | ND |
| | 08/09,89 | 89 | 8 5 | 1 8 | 1 5 | 2 2 |
| | 09/11/89 | 1 100 | 7 8 | 1 4 | ND | 6 3 |
| | 10/10,89 | ND | ND | ND | ND | ND |
| | 10/25,89 | ND | 1 4 | ND | ND | 1 6 |

Table 2 (continued)
**Groundwater Analytical Data**
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Sampled | TPH as Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | Xylenes (ppb) |
|---|---|---|---|---|---|---|
| MW-5 (cont.) | 12/20/89 | ND | ND | ND | ND | ND |
| | 01/18/90 | ND | ND | ND | ND | ND |
| | 02/23/90 | ND | ND | ND | 0.6 | ND |
| | 06/04/90 | ND | ND | ND | ND | ND |
| | 11/20/90 | ND | ND | ND | ND | 1 |
| | 02/11/91 | ND | ND | ND | ND | ND |
| | 05/06/91 | ND | ND | ND | ND | ND |
| | 08/28/91 | ND | ND | ND | ND | 1 |
| | 11/13/91 | ND | ND | ND | ND | ND |
| | 02/25/92 | ND | ND | ND | ND | ND |
| | 05/12/92 | ND | ND | ND | ND | ND |
| | 08/12/92 | 56 | 0.5 | ND | ND | ND |
| | 11/10/92 | ND | ND | ND | ND | ND |
| | 02/11/93 | ND | ND | ND | ND | ND |
| | 05/10/93 | ND | 1.5 | ND | 1.2 | 5.2 |
| | 09/16/93 | ND | ND | ND | ND | ND |
| | 11/11/93 | ND | 12 | ND | 1.2 | ND |
| | 02/11/94 | ND | ND | ND | ND | ND |
| | 05/17/94 | ND | ND | ND | ND | ND |
| | 08/25/94 | ND | ND | ND | ND | ND |
| | 11/23/94 | ND | ND | ND | ND | ND |
| | 02/15/95 | ND | ND | ND | ND | 0.6 |
| MW-6 | 08/26/88 | 15,000 | 390 | 390 | 670 | 1,700 |
| | 10/05/88 | 2,700 | 130 | 38 | 960 | 220 |
| | 11/22/88 | NA | NA | NA | NA | NA |
| | 12/09/88 | 540 | 62 | 3 | 26 | 5 |
| | 01/13/89 | 980 | 160 | 22 | 120 | 29 |
| | 02/10/89 | 1,900 | 290 | 24 | 93 | 48 |
| | 03/02/89 | 1,400 | 160 | 20 | 130 | 33 |
| | 04/04/89 | 1,200 | 220 | 27 | 74 | 69 |
| | 05/01/89 | 790 | 120 | 11 | 25 | 17 |
| | 06/01/89 | 1,200 | 49 | 49 | 69 | 30 |
| | 06/29/89 | 940 | 130 | 15 | 69 | 35 |
| | 08/09/89 | 1,400 | 280 | 39 | 170 | 64 |
| | 09/11/89 | ND | ND | ND | ND | ND |
| | 10/10/89 | 1,000 | 85 | 11 | 12 | 16 |
| | 10/24/89 | 1,500 | 57 | 20 | 50 | 39 |
| | 12/20/89 | ND | 4.9 | 5.1 | ND | ND |
| | 01/18/90 | ND | 67 | 12 | 48 | 18 |
| | 02/23/90 | 1 | 150 | 16 | 47 | 30 |
| | 06/04/90 | 190 | ND | ND | ND | 0.6 |
| | 11/20/90 | 730 | 120 | 12 | 39 | 21 |
| | 02/12/91 | 550 | 65 | 10 | 33 | 16 |

Table 2 (continued)
**Groundwater Analytical Data**
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Sampled | TPH as Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | Xylenes (ppb) |
|---|---|---|---|---|---|---|
| MW-6 (cont.) | 05/06/91 | 550 | 72 | 11 | 38 | 23 |
| | 08/28/91 | 580 | 82 | 7.6 | 28 | 20 |
| | 11/13/91 | 430 | 60 | 7.6 | 20 | 12 |
| | 02/25/92 | 400 | 52 | 6.6 | 18 | 11 |
| | 05/12/92 | 950 | 260 | 36 | 12 | 49 |
| | 08/12/92 | 660 | 90 | 15 | 55 | 18 |
| | 11/10/92 | 350 | 23 | 3.7 | 15 | 6.8 |
| | 02/11/93 | 660 | 42 | 11 | 29 | 17 |
| | 05/10/93 | 190 | ND | ND | ND | ND |
| | 08/12/93 | 360 | 39 | 15 | 23 | 38 |
| | 08/12/93(D) | 330 | 43 | 16 | 23 | 40 |
| | 11/11/93 | ND | ND | ND | ND | ND |
| | 02/11/94 | 370 | 32 | 7 | 19 | 9.3 |
| | 05/17/94 | ND | 42 | 13 | 33 | 22 |
| | 08/25/94 | 190 | 0.6 | ND | ND | ND |
| | 11/23/94 | 310 | 5 | 1.2 | 1.9 | ND |
| | 02/15/95 | 360 | 46 | 11[b] | 19 | 18 |
| MW-7 | 08/26/88 | ND | 0.8 | ND | ND | ND |
| | 10/05/88 | ND | ND | ND | ND | ND |
| | 11/22/88 | 700 | 41 | 9 | 1 | 20 |
| | 12/09/88 | ND | ND | ND | ND | 0.6 |
| | 01/13/89 | ND | ND | ND | ND | ND |
| | 02/10/89 | ND | ND | ND | ND | ND |
| | 03/02/89 | ND | ND | ND | ND | ND |
| | 04/05/89 | ND | ND | ND | ND | ND |
| | 05/01/89 | ND | ND | ND | ND | ND |
| | 05/31/89 | ND | ND | ND | ND | ND |
| | 06/28/89 | ND | ND | ND | ND | ND |
| | 08/09/89 | ND | ND | ND | ND | ND |
| | 09/07/89 | ND | ND | ND | ND | ND |
| | 10/10/89 | ND | ND | ND | ND | ND |
| | 10/24/89 | ND | ND | ND | ND | ND |
| | 12/20/89 | ND | ND | ND | ND | ND |
| | 01/18/90 | ND | ND | ND | ND | ND |
| | 02/23/90 | ND | ND | ND | ND | ND |
| | 06/04/90 | ND | ND | ND | ND | ND |
| | 11/20/90 | ND | ND | ND | ND | ND |
| | 02/11/91 | ND | ND | ND | ND | ND |
| | 05/06/91 | ND | ND | ND | ND | ND |
| | 08/28/91 | ND | ND | ND | ND | ND |
| | 11/13/91 | ND | ND | ND | ND | ND |
| | 02/25/92 | ND | ND | ND | ND | ND |
| | 05/12/92 | ---------- Well Sampled Semiannually ---------- | | | | |

Table 2 (continued)
**Groundwater Analytical Data**
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Sampled | TPH as Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | Xylenes (ppb) |
|---|---|---|---|---|---|---|
| MW-7 | 08/12/92 | 52 | 0.8 | 0.9 | ND | ND |
| (cont.) | 11/10/92 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 02/11/93 | ND | ND | ND | ND | ND |
| | 05/10/93 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 09/16/93 | ND | ND | ND | ND | ND |
| | 11/11/93 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 02/11/94 | ND | ND | ND | ND | ND |
| | 05/17/94 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 08/25/94 | ND | ND | ND | ND | ND |
| | 11/23/94 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 02/15/95 | ND | 1.9 | 1.5[b] | ND | 2.0 |
| MW-8 | 03/01/89 | ND | ND | ND | ND | ND |
| | 04/04/89 | ND | ND | ND | ND | ND |
| | 05/01/89 | ND | ND | ND | ND | ND |
| | 05/31/89 | ND | ND | ND | ND | ND |
| | 06/28/89 | ND | ND | ND | ND | ND |
| | 08/08/89 | ND | ND | ND | ND | ND |
| | 09/07/89 | ND | ND | ND | ND | ND |
| | 10/10/89 | ND | ND | ND | ND | ND |
| | 10/26/89 | ND | ND | ND | ND | ND |
| | 12/21/89 | ND | ND | ND | ND | ND |
| | 01/18/90 | ND | ND | ND | ND | ND |
| | 02/26/90 | ND | ND | ND | ND | ND |
| | 06/04/90 | ND | ND | ND | ND | ND |
| | 11/20/90 | ND | ND | ND | ND | ND |
| | 02/11/91 | ND | ND | ND | ND | ND |
| | 05/06/91 | ND | ND | ND | ND | ND |
| | 08/28/91 | ND | ND | ND | ND | ND |
| | 11/13/91 | ND | ND | ND | ND | ND |
| | 02/25/92 | ND | ND | ND | ND | ND |
| | 05/12/92 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 08/12/92 | ND | ND | ND | ND | ND |
| | 11/10/92 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 02/10/93 | ND | ND | ND | ND | ND |
| | 05/10/93 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 09/16/93 | ND | 0.7 | ND | ND | 1.4 |
| | 11/11/93 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 02/11/94 | ND | 1.3 | ND | 0.71 | 2.5 |
| | 05/17/94 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 08/25/94 | ND | ND | ND | ND | ND |
| | 11/23/94 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 02/15/95 | ND | ND | ND | ND | 1.4 |

Table 2 (continued)
**Groundwater Analytical Data**
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Sampled | TPH as Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | Xylenes (ppb) |
|---|---|---|---|---|---|---|
| MW-9 | 03/1/89 | ND | ND | ND | ND | ND |
| | 04/04/89 | ND | ND | ND | ND | ND |
| | 05/01/89 | ND | ND | ND | ND | ND |
| | 05/31/89 | ND | ND | ND | ND | ND |
| | 06/28/89 | ND | ND | ND | ND | ND |
| | 08/08/89 | ND | ND | ND | ND | ND |
| | 09/07/89 | ND | ND | ND | ND | ND |
| | 10/09/89 | ND | ND | ND | ND | ND |
| | 10/23/89 | ND | ND | ND | ND | ND |
| | 12/21/89 | ND | ND | ND | ND | ND |
| | 01/18/90 | ND | ND | ND | ND | ND |
| | 02/26/90 | ND | ND | ND | ND | ND |
| | 06/04/90 | ND | ND | ND | ND | ND |
| | 11/20/90 | ND | ND | ND | ND | ND |
| | 02/11/91 | ND | ND | ND | ND | ND |
| | 05/06/91 | ND | ND | ND | ND | ND |
| | 08/28/91 | ND | ND | ND | ND | ND |
| | 11/13/91 | ND | ND | ND | ND | ND |
| | 02/25/92 | ND | ND | ND | ND | ND |
| | 05/12/92 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 08/12/92 | ND | ND | ND | ND | ND |
| | 11/10/92 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 02/10/93 | ND | ND | ND | ND | ND |
| | 05/10/93 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 09/16/93 | ND | ND | ND | ND | ND |
| | 11/11/93 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 02/11/94 | ND | ND | ND | ND | ND |
| | 05/17/94 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 08/25/94 | ND | ND | ND | ND | ND |
| | 11/23/94 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 02/15/95 | ND | ND | ND | ND | ND |
| MW-10 | 03/02/89 | 1,000 | 140 | 36 | ND | 77 |
| | 04/04/89 | 3 300 | 760 | 240 | 46 | 630 |
| | 05/01/89 | 680 | 99 | 24 | 8 1 | 32 |
| | 06/01/89 | 1,400 | 120 | 39 | ND | 45 |
| | 06/29/89 | 1,300 | 51 | 1 4 | 6 1 | 91 |
| | 08/09/89 | 860 | 310 | 26 | 45 | 82 |
| | 09/07/89 | 390 | 55 | 2 9 | 4 0 | 18 |
| | 10/10/89 | 460 | 85 | 7 6 | 10 | 45 |
| | 10/26/89 | 270 | 20 | 1 4 | 3 5 | 9 3 |
| | 12/20/89 | ND | 5 7 | ND | ND | ND |
| | 01/18/90 | NA | NA | NA | NA | NA |
| | 06/90 | ---------- Well Destroyed ---------- | | | | |

Table 2 (continued)
**Groundwater Analytical Data**
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Sampled | TPH as Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | Xylenes (ppb) |
|---|---|---|---|---|---|---|
| MW-11 | 03/02/89 | ND | ND | ND | ND | ND |
| | 04/04/89 | ND | ND | ND | ND | ND |
| | 05/01/89 | ND | ND | ND | ND | ND |
| | 11/20/90 | ND | ND | ND | ND | ND |
| | 05/31/89 | ND | ND | ND | ND | ND |
| | 06/28/89 | ND | ND | ND | ND | ND |
| | 08/08/89 | ND | ND | ND | ND | ND |
| | 09/07/89 | ND | ND | ND | ND | ND |
| | 10/09/89 | ND | ND | ND | ND | ND |
| | 10/24/89 | ND | ND | ND | ND | ND |
| | 12/20/89 | ND | ND | ND | ND | ND |
| | 01/18/90 | ND | ND | ND | ND | ND |
| | 02/26/90 | ND | ND | ND | ND | ND |
| | 06/04/90 | ND | ND | ND | ND | ND |
| | 11/20/90 | ND | ND | ND | ND | ND |
| | 02/11/91 | ND | ND | ND | ND | ND |
| | 05/06/91 | ND | ND | ND | ND | ND |
| | 08/28/91 | ND | ND | ND | ND | 1 |
| | 11/15/91 | ND | ND | ND | ND | ND |
| | 02/25/92 | ND | ND | ND | ND | ND |
| | 05/12/92 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 08/12/92 | ND | ND | ND | ND | ND |
| | 11/10/92 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 02/11/93 | 61[a] | ND | ND | ND | ND |
| | 05/10/93 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 08/12/93 | 140 | 18 | 13 | 7.5 | 32 |
| | 11/11/93 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 02/11/94 | ND | ND | ND | ND | ND |
| | 05/17/94 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 08/25/94 | ND | ND | ND | ND | ND |
| | 11/23/94 | ---------- Well Sampled Semiannually ---------- | | | | |
| | 02/15/95 | ND | ND | 0.6[b] | ND | ND |
| MW-12 | 03/02/89 | ND | ND | ND | ND | ND |
| | 04/04/89 | ND | ND | ND | ND | ND |
| | 05/01/89 | ND | ND | ND | ND | ND |
| | 06/01/89 | ND | ND | ND | ND | ND |
| | 06/29/89 | ND | ND | ND | ND | ND |
| | 08/09/89 | ND | ND | ND | ND | ND |
| | 09/07/89 | ND | ND | ND | ND | ND |
| | 10/09/89 | ND | ND | ND | ND | ND |
| | 10/24/89 | ND | ND | ND | ND | ND |
| | 12/20/89 | ND | ND | ND | ND | ND |
| | 01/18/90 | ND | ND | ND | ND | ND |

Table 2 (continued)
**Groundwater Analytical Data**
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

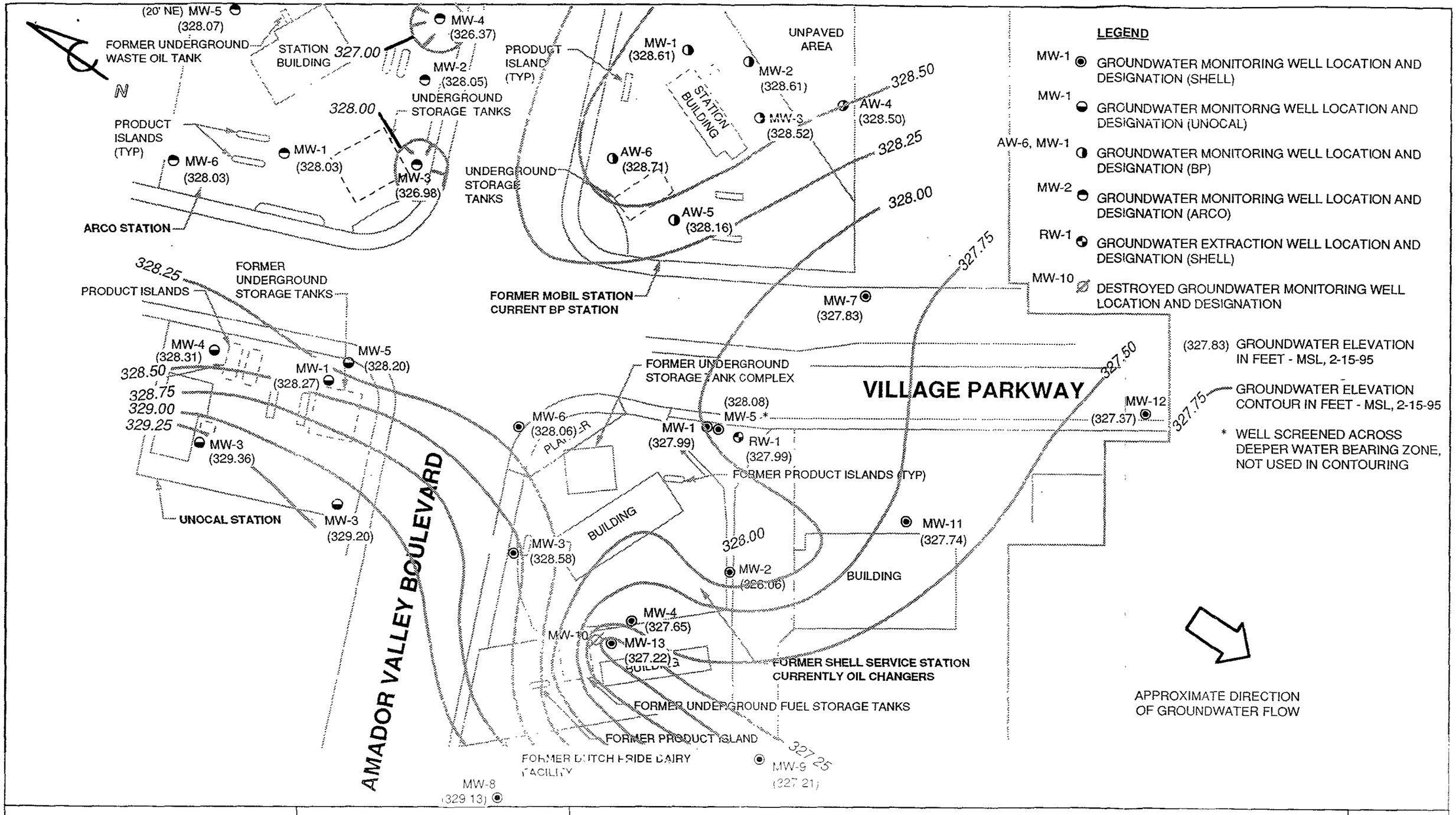
| Well Number | Date Sampled | TPH as Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | Xylenes (ppb) |
|---|---|---|---|---|---|---|
| MW-12 (cont.) | 02/26/90 | ND | ND | ND | ND | ND |
| | 06/04/90 | ND | ND | ND | ND | ND |
| | 11/20/90 | ND | ND | ND | ND | ND |
| | 02/12/91 | ND | ND | ND | ND | ND |
| | 05/06/91 | ND | ND | ND | ND | ND |
| | 08/28/91 | ND | ND | ND | ND | 1 |
| | 11/13/91 | ND | ND | ND | ND | ND |
| | 02/25/92 | ND | ND | ND | ND | ND |
| | 05/12/92 | ---------- Well Removed from Sampling Program ---------- | | | | |
| MW-13 | 05/06/91 | 1,100 | 430 | 30 | 41 | 130 |
| | 08/28/91 | 1,000 | 350 | 6.4 | 44 | 43 |
| | 11/13/91 | 680 | 320 | 5.6 | 38 | 17 |
| | 02/25/92 | 780 | 260 | 3.5 | 26 | 15 |
| | 05/12/92 | 660 | 210 | 3.5 | 26 | 5.8 |
| | 08/12/92 | 400 | 140 | 9.6 | 21 | 23 |
| | 11/10/92 | 60 | 220 | 2.9 | 23 | 11 |
| | 02/11/93 | 970 | 340 | 11 | 29 | 32 |
| | 05/10/93 | 2,300 | 440 | ND | ND | ND |
| | 08/12/93 | 8,900 | 670 | 23 | 76 | 61 |
| | 11/11/93 | 470 | 230 | <2.5 | 27 | 11 |
| | 11/11/93(D) | 610 | 190 | <2.5 | 21 | 8.0 |
| | 02/11/94 | 200 | 39 | ND | 4.7 | 3.9 |
| | 02/11/94(D) | 290 | 55 | 1.3 | 8.8 | 4.8 |
| | 05/17/94 | ND | 88 | ND | 12 | 10 |
| | 05/17/94(D) | ND | 96 | ND | 13 | 11 |
| | 08/25/94 | 410 | 110 | 4.2 | 10 | 15 |
| | 11/23/94 | 180 | 66 | 4.8 | 8.2 | 9.8 |
| | 11/23/94(D) | 240 | 430 | 6.5 | 11 | 13 |
| | 02/15/95 | 320 | 79 | 5.6 | 7.5 | 23 |
| | 02/15/95(D) | 300 | 90 | 5.7 | 7.4 | 24 |
| RW-1 | 12/09/89 | 6,800 | 740 | 5 | 11 | 37 |
| | 01/13/89 | 10,000 | 3,200 | 27 | 60 | ND |
| | 02/10/89 | 6 000 | 2 800 | ND | ND | ND |
| | 03/02/89 | 3,900 | 2,400 | ND | ND | ND |
| | 04/05/89 | 1,700 | 1,000 | ND | 9 | ND |
| | 05/01/89 | 900 | 390 | 5 | 10 | ND |
| | 06/01/89 | 1 100 | 1 4 | 3 3 | ND | 13 |
| | 06/30/89 | 1,400 | ND | ND | ND | ND |
| | 08/09/89 | 7,500 | 1,700 | 210 | 280 | 300 |
| | 09/11/89 | 97 | 1 7 | 2 1 | 2 3 | 14 |
| | 10/10/89 | 1,400 | 48 | 4 5 | ND | 3 |
| | 10/25/89 | 820 | 51 | 1 2 | 25 | 3 |

Table 2 (continued)
**Groundwater Analytical Data**
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

Former Shell Service Station
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

| Well Number | Date Sampled | TPH as Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | Xylenes (ppb) |
|---|---|---|---|---|---|---|
| RW-1 (cont.) | 12/21/89 | 490 | 16 | 1 | 8.5 | 19 |
| | 01/17/90 | ND | 27 | 1.7 | 14 | 1.6 |
| | 02/23/90 | 420 | 42 | 1.8 | 13 | 2.7 |
| | 06/04/90 | 180 | 23 | 0.7 | 5.3 | 1.2 |
| | 11/20/90 | 1,900 | 170 | 52 | 29 | 38 |
| | 02/11/91 | ---------- Well Not Sampled ---------- | | | | |

ppb = Parts per billion
NR = *Not requested*
ND = Not detected
NA = Not analyzed
(D) = Duplicate sample
a. Laboratory noted concentration is not indicative of gasoline.
b. National Environmental Testing, Inc. noted toluene in the equipment and trip blanks at 1.1 and 1.0 ppb, respectively. This may have affected results for this quarter.
See certified analytical report for detection limits and individual hydrocarbon ranges for positive results of gasoline.




PACIFIC ENVIRONMENTAL GROUP, INC

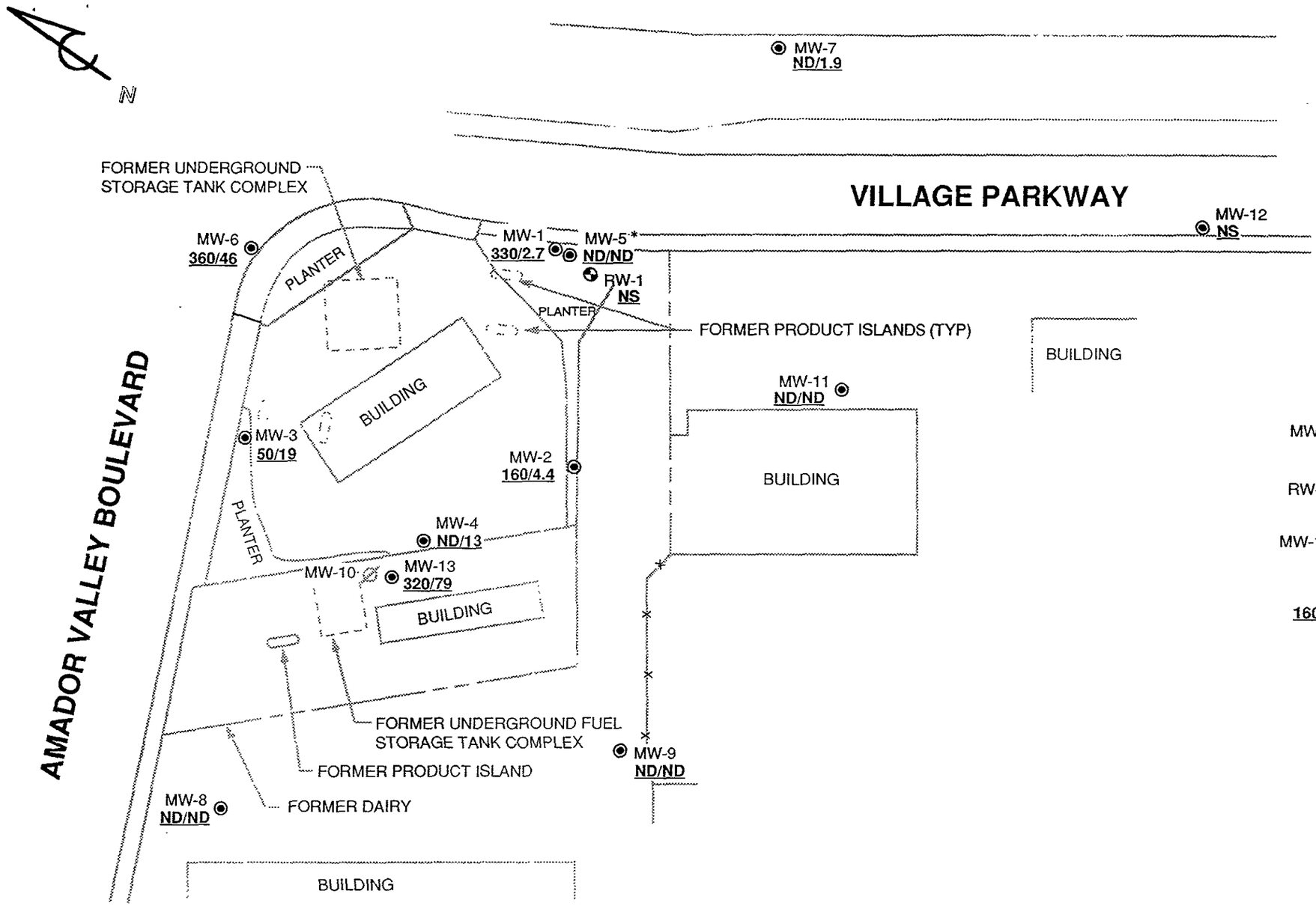
SCALE
0 60 120 FEET

FORMER SHELL SERVICE STATION
7194 Amador Valley Boulevard at Village Parkway
Dublin California

GROUNDWATER ELEVATION CONTOUR MAP

FIGURE
1
PROJECT
305-087 2C

Dec 1995




**LEGEND**

MW-1 ◉ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

RW-1 ◔ GROUNDWATER EXTRACTION WELL LOCATION AND DESIGNATION

MW-10 ⌀ DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

160/4.4 TPH-g/BENZENE CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 2-15-95

ND NOT DETECTED

NS NOT SAMPLED

* WELL SCREENED ACROSS DEEPER WATER BEARING ZONE

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

PACIFIC ENVIRONMENTAL GROUP, INC

SCALE
0 50 100 FEET

FORMER SHELL SERVICE STATION
7194 Amador Valley Boulevard at Village Parkway
Dublin, California

TPH-g BENZENE CONCENTRATION MAP

FIGURE 2
PROJECT 305-087 2C

2/7/95

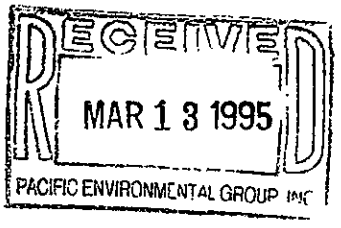
# ATTACHMENT A

# GROUNDWATER SAMPLING REPORT

BLAINE
TECH SERVICES INC.

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

March 7, 1995




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

Attn: Daniel T. Kirk

SITE:
Shell WIC #204-2217-0105
7194 Amador Valley Blvd.
Dublin, California

QUARTER:
1st quarter of 1995

## QUARTERLY GROUNDWATER SAMPLING REPORT 950215-E-1

This report contains data collected during routine inspection, gauging and sampling of groundwater monitoring wells performed by Blaine Tech Services, Inc. in response to the request of the consultant who is overseeing work at this site on behalf of our mutual client, Shell Oil Company. Data collected in the course of our field work is presented in a TABLE OF WELL GAUGING DATA. The field information was collected during our preliminary gauging and inspection of the wells, the subsequent evacuation of each well prior to sampling, and at the time of sampling.

Measurements taken include the total depth of the well and the depth to water. The surface of water was further inspected for the presence of immiscibles which may be present as a thin film (a sheen on the surface of the water) or as a measurable free product zone (FPZ) At intervals during the evacuation phase, the purge water was monitored with instruments that measure electrical conductivity (EC), potential hydrogen (pH), temperature (degrees Fahrenheit), and turbidity (NTU) In the interest of simplicity, fundamental information is tabulated here, while the bulk of the information is turned over directly to the consultant who is making professional interpretations and evaluations of the conditions at the site

## STANDARD PROCEDURES

### Evacuation

Groundwater wells are thoroughly purged before sampling to insure that the sample is collected from water that has been newly drawn into the well from the surrounding geologic formation. The selection of equipment to evacuate each well is based on the physical characteristics of the well and what is known about the performance of the formation in which the well has been installed. There are several suitable devices which can be used for evacuation. The most commonly employed devices are air or gas actuated pumps, electric submersible pumps, and hand or mechanically actuated bailers. Our personnel frequently employ USGS/Middleburg positive displacement pumps or similar air actuated pumps which do not agitate the water standing in the well.

Normal evacuation removes three case volumes of water from the well. More than three case volumes of water are removed in cases where more evacuation is needed to achieve stabilization of water parameters and when requested by the local implementing agency. Less water may be obtained in cases where the well dewaters and does not recharge to 80% of its original volume within two hours and any additional time our personnel have reason to remain at the site. In such cases, our personnel return to the site within twenty four hours and collect sample material from the water which has recharged into the well case.

### Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site. Effluent water from purging and on-site equipment cleaning is collected and transported to Shell's Martinez Manufacturing Complex in Martinez, California.

### Free Product Skimmer

The column headed, VOLUME OF IMMISCIBLES REMOVED (ml) is included in the TABLE OF WELL GAUGING DATA to cover situations where a free product skimming device must be removed from the well prior to gauging Skimmers are installed in wells with a free product zone on the surface of the water The skimmer is a free product recovery device which often prevents normal well gauging and free product zone measurements The 2.0" and 3.0" PetroTraps fall into the category of devices that obstruct normal gauging In cases where the consultant elects to have our personnel pull the skimmers out of the well and gauge the well, our personnel perform the additional task of draining the accumulated free product out of the PetroTrap before putting it back in the well This

recovered free product is measured and logged in the VOLUME OF IMMISCIBLES REMOVED column. Gauging at such sites is performed in accordance with specific directions from the professional consulting firm overseeing work at the site on Shell's behalf.

## Sample Containers

Sample material is collected in specially prepared containers which are provided by the laboratory that performs the analyses.

## Sampling

Sample material is collected in stainless steel bailer type devices normally fitted with both a top and a bottom check valve. Water is promptly decanted into new sample containers in a manner which reduces the loss of volatile constituents and follows the applicable EPA standard for handling volatile organic and semi-volatile compounds.

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

## Sample Designations

All sample containers are identified with a site designation and a discrete sample identification number specific to that particular groundwater well. Additional standard notations (e.g. time, date, sampler) are also made on the label.

## Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under a standard Shell Oil Company chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of the person releasing the samples followed by the time, date and signature of the person accepting custody of the samples)

**Hazardous Materials Testing Laboratory**

The samples obtained at this site were delivered to National Environmental Testing, Inc. in Santa Rosa, California. NET is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #178.

**Objective Information Collection**

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. performs no consulting and does not become involved in the marketing or installation of remedial systems of any kind. Blaine Tech Services, Inc. is concerned only with the generation of objective information, not with the use of that information to support evaluations and recommendations concerning the environmental condition of the site. Even the straightforward interpretation of objective analytical data is better performed by interested regulatory agencies, and those engineers and geologists who are engaged in the work of providing professional opinions about the site and proposals to perform additional investigation or design remedial systems.

**Reportage**

Submission of this report and the attached laboratory report to interested regulatory agencies is handled by the consultant in charge of the project. Any professional evaluations or recommendations will be made by the consultant under separate cover.

Please call if we can be of any further assistance.

Richard C. Blaine

RCB/lp

attachments table of well gauging data
chain of custody
certified analytical report

cc: Pacific Environmental Group, Inc
2025 Gateway Place, Suite #440
San Jose, CA 95110
ATTN Rhonda Barrick

# 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 | 2/15/95 | TOC | -- | NONE | -- | -- | 6.84 | 25.19 |
| MW-2 | 2/15/95 | TOC | -- | NONE | -- | -- | 8.90 | 24.54 |
| MW-3 | 2/15/95 | TOC | -- | NONE | -- | -- | 8.35 | 24.30 |
| MW-4 | 2/15/95 | TOC | -- | NONE | -- | -- | 9.49 | 24.80 |
| MW-5 | 2/15/95 | TOC | -- | NONE | -- | -- | 6.88 | 44.79 |
| MW-6 | 2/15/95 | TOC | -- | NONE | -- | -- | 7.36 | 22.90 |
| MW-7 | 2/15/95 | TOC | -- | NONE | -- | -- | 5.40 | 16.52 |
| MW-8 | 2/15/95 | TOC | -- | NONE | -- | -- | 6.67 | 16.15 |
| MW-9 | 2/15/95 | TOC | -- | NONE | -- | -- | 7.36 | 17.89 |
| MW-11 | 2/15/95 | TOC | -- | NONE | -- | -- | 6.46 | 16.41 |
| MW-12 | 2/15/95 | TOC | -- | NONE | -- | -- | 5.16 | 17.19 |
| MW-13 * | 2/15/95 | TOC | -- | NONE | -- | -- | 8.42 | 17.09 |
| RW-1 | 2/15/95 | TOC | -- | NONE | -- | -- | 8.20 | 31.04 |

* Sample DUP was a duplicate sample taken from well MW-13.

5575

# SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

## CHAIN OF CUSTODY RECORD
Serial No: 950215-E1

Date: 2-15-95
Page 1 of 2

Site Address: 7914 Almador Valley Blvd., Dublin, CA

WIC#: 204-2217-0105

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

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

Consultant Contact: Fran Thie — Phone No.: (408) 995-5535 Fax #: 293-8773

Comments:

Sampled by: Kent E Brown

Printed Name: KENT BROWN

LAB: NET

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 | | | Asbestos | Container Size | Preparation Used | Composite Y/N | MATERIAL DESCRIPTION | SAMPLE CONDITION/ COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 2/15/95 | | | W | | 3 | | | | | | X | | | | | | | | |
| MW-2 | | | | W | | 3 | | | | | | X | | | | | | | | |
| MW-3 | | | | W | | 3 | | | | | | X | | | | | | | | |
| MW-4 | | | | W | | 3 | | | | | | X | | | | | | | | |
| MW-5 | | | | W | | 3 | | | | | | X | | | | | | | | |
| MW-6 | | | | W | | 3 | | | | | | X | | | | | | | | |
| MW-7 | | | | W | | 3 | | | | | | X | | | | | | | | |
| MW-8 | V | | | W | | 3 | | | | | | X | | | | | | | | |

CHECK ONE (1) BOX ONLY

| | CT/DT | TURN AROUND TIME |
|---|---|---|
| G.W. Monitoring | ☒ 4461 | 24 hours ☐ |
| Site Investigation | ☐ 4441 | 48 hours ☐ |
| Soil Classify/Disposal | ☐ 4442 | 16 days ☒ (Normal) |
| Water Classify/Disposal | ☐ 4443 | Other ☐ |
| Soil/Air Rem. or Sys. O & M | ☐ 4452 | NOTE: Notify Lab as soon as Possible of 24/48 hr. TAT. |
| Water Rem. or Sys. O & M | ☐ 4453 | |
| Other | ☐ | |

UST AGENCY:

| Relinquished By (signature) | Printed Name | Date | Time | Received (signature) | Printed Name | Date | Time |
|---|---|---|---|---|---|---|---|
| Kent E Brown | Kent E. Brown | 2/16 | 10:10 | G Lumpkin | G LUMPKIN | 2/16 | 10:10 |
| G Lumpkin | G LUMPKIN | 2/16 | 1400 | Pam Greene | PAM GREENE | 2/16/95 | 1400 |
| Pam Greene | PAM GREENE | 2/16/95 | 1755 | Pam Greene | PAM GREENE | 2/16/95 | 1755 |

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

Rev 0 — End Of Chain of Custody

5575

# SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

## CHAIN OF CUSTODY RECORD
Serial No: 950215-E1

Date: 2-15-95
Page 2 of 2

Site Address: 7914 Almador Valley Blvd., Dublin, CA

WIC#: 204-2217-0105

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

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

Consultant Contact: Fran Thie — Phone No.: (408) 995-5535 Fax #: 293-8773

Comments:

Sampled by: Kent E. Brown

Printed Name: KENT BROWN

LAB: NET

| CHECK ONE (1) BOX ONLY | | CT/DT |
|---|---|---|
| G.W. Monitoring | X | 4461 |
| Site Investigation | | 4481 |
| Soil Classify/Disposal | | 4482 |
| Water Classify/Disposal | | 4483 |
| 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: ____

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 | | | Asbestos | Container Size | Preparation Used | Composite Y/N | MATERIAL DESCRIPTION | SAMPLE CONDITION/ COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-9 | 2/6/95 | | | W | | 3 | | | | | | X | | | | | | | | |
| MW-11 | " | | | W | | 3 | | | | | | X | | | | | | | | |
| MW-13 | " | | | W | | 3 | | | | | | X | | | | | | | | |
| EB | " | | | W | | 3 | | | | | | X | | | | | | | | |
| DUP | " | | | W | | 3 | | | | | | X | | | | | | | | |
| T.B. | " | | | W | | 2 | | | | | | X | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| Relinquished By (signature): | Printed Name: KENT E. BROWN | Date: 2/6 Time: 10:10 | Received (signature): | Printed Name: | Date: 2/6 Time: 10:10 |
| Relinquished By (signature): | Printed Name: | Date: 2/6 Time: 16:50 | Received (signature): | Printed Name: PAM GREENE | Date: 2/10/95 Time: 1655 |
| Relinquished By (signature): | Printed Name: PAM GREENE | Date: 2/10/95 Time: 1755 | Received (signature): | Printed Name: PAM GREENE | Date: 2/10/95 Time: 1755 |

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

Rev 04/94 Chain of Custody

NATIONAL ENVIRONMENTAL TESTING, INC.

Santa Rosa Division
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

March 1, 1995

Dear Project Manager:

NET has recently noted persistent low level positive occurrences of toluene and xylenes in laboratory supplied trip blanks and rinse water. Since the levels of these compounds are occurring below 2 PPB, and there is a lack of any gasoline type pattern present, we are very confident of their presence being due to laboratory contamination. It appears that the water we used became contaminated from an unidentified source.

We believe this same source may be affecting samples. We have noted the presence of toluene and xylene at or below the reporting limits in our method blanks, which are from a different water sources. This low level response may be contributing to positive results in actual samples.

NET is taking steps to correct this problem and hope to eliminate it by the 8th of March. We will keep you informed if the problem continues beyond this date.

Thank you for patience.

Respectfully,
National Environmental Testing

Thomas F. Cullen, Jr.
Division Manager

NATIONAL ENVIRONMENTAL® TESTING, INC.

Santa Rosa Division
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

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

Date: 02/27/1995
NET Client Acct. No: 1821
NET Pacific Job No: 95.00741
Received: 02/16/1995

Client Reference Information

SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

Sample analysis in support of the project referenced above has been completed and results are presented on 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 welcome to contact Client Services.

Approved by:

Thomas F. Cullen, Jr.
Division Manager

Judy Ridley
Project Coordinator

Enclosure s

Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

SAMPLE DESCRIPTION: MW-1
Date Taken: 02/15/1995
Time Taken:
NET Sample No: 236210

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| METHOD 5030/M8015 | -- | | | | | | 02/21/1995 | 2603 |
| DILUTION FACTOR* | 1 | | | | | | 02/21/1995 | 2603 |
| as Gasoline | 330 | | 50 | ug/L | 5030 | | 02/21/1995 | 2603 |
| Carbon Range: | C5-C12 | | | | | | 02/21/1995 | 2603 |
| METHOD 8020 (GC,Liquid) | -- | | | | | | 02/21/1995 | 2603 |
| Benzene | 2.7 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Toluene | 1.3 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Ethylbenzene | 1.5 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Xylenes (Total) | 2.3 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| SURROGATE RESULTS | -- | | | | | | 02/21/1995 | 2603 |
| Bromofluorobenzene (SURR) | 78 | | | % Rec. | 5030 | | 02/21/1995 | 2603 |

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.00741

Date: 02/27/1995
ELAP Cert: 1386
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Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

SAMPLE DESCRIPTION: MW-2
Date Taken: 02/15/1995
Time Taken:
NET Sample No: 236211

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| METHOD 5030/M8015 | -- | | | | | | 02/21/1995 | 2603 |
| DILUTION FACTOR* | 1 | | | | | | 02/21/1995 | 2603 |
| as Gasoline | 160 | | 50 | ug/L | 5030 | | 02/21/1995 | 2603 |
| Carbon Range: | C5-C12 | | | | | | 02/21/1995 | 2603 |
| METHOD 8020 (GC,Liquid) | -- | | | | | | 02/21/1995 | 2603 |
| Benzene | 4.4 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Toluene | 1.1 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Ethylbenzene | 0.6 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Xylenes (Total) | 1.5 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| SURROGATE RESULTS | -- | | | | | | 02/21/1995 | 2603 |
| Bromofluorobenzene (SURR) | 78 | | | % Rec. | 5030 | | 02/21/1995 | 2603 |

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.00741

Date: 02/27/1995
ELAP Cert: 1386
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Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

SAMPLE DESCRIPTION: MW-3
Date Taken: 02/15/1995
Time Taken:
NET Sample No: 236212

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| METHOD 5030/M8015 | -- | | | | | | 02/21/1995 | 2603 |
| DILUTION FACTOR* | 1 | | | | | | 02/21/1995 | 2603 |
| as Gasoline | 50 | | 50 | ug/L | 5030 | | 02/21/1995 | 2603 |
| Carbon Range: | C5-C12 | | | | | | 02/21/1995 | 2603 |
| METHOD 8020 (GC,Liquid) | -- | | | | | | 02/21/1995 | 2603 |
| Benzene | 19 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Toluene | 0.9 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Ethylbenzene | 1.4 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Xylenes (Total) | 1.5 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| SURROGATE RESULTS | -- | | | | | | 02/21/1995 | 2603 |
| Bromofluorobenzene (SURR) | 83 | | | % Rec. | 5030 | | 02/21/1995 | 2603 |

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.00741

Date: 02/27/1995
ELAP Cert: 1386
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Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

SAMPLE DESCRIPTION: MW-4
Date Taken: 02/15/1995
Time Taken:
NET Sample No: 236213

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| METHOD 5030/M8015 | -- | | | | | | 02/21/1995 | 2603 |
| DILUTION FACTOR* | 1 | | | | | | 02/21/1995 | 2603 |
| as Gasoline | ND | | 50 | ug/L | 5030 | | 02/21/1995 | 2603 |
| Carbon Range: | -- | | | | | | 02/21/1995 | 2603 |
| METHOD 8020 (GC,Liquid) | -- | | | | | | 02/21/1995 | 2603 |
| Benzene | 13 | C | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Toluene | 0.9 | C | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Xylenes (Total) | 1.5 | C | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| SURROGATE RESULTS | -- | | | | | | 02/21/1995 | 2603 |
| Bromofluorobenzene (SURR) | 85 | | | % Rec. | 5030 | | 02/21/1995 | 2603 |

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.00741

Date: 02/27/1995
ELAP Cert: 1386
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Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

SAMPLE DESCRIPTION: MW-5
Date Taken: 02/15/1995
Time Taken:
NET Sample No: 236214

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| METHOD 5030/M8015 | -- | | | | | | 02/21/1995 | 2603 |
| DILUTION FACTOR* | 1 | | | | | | 02/21/1995 | 2603 |
| as Gasoline | ND | | 50 | ug/L | 5030 | | 02/21/1995 | 2603 |
| Carbon Range: | -- | | | | | | 02/21/1995 | 2603 |
| METHOD 8020 (GC,Liquid) | -- | | | | | | 02/21/1995 | 2603 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Xylenes (Total) | 0.6 | C | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| SURROGATE RESULTS | -- | | | | | | 02/21/1995 | 2603 |
| Bromofluorobenzene (SURR) | 74 | | | % Rec. | 5030 | | 02/21/1995 | 2603 |

Client Name: Blaine Tech Services Date: 02/27/1995
Client Acct: 1821 ELAP Cert: 1386
NET Job No: 95.00741 Page: 7

Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

SAMPLE DESCRIPTION: MW-6
Date Taken: 02/15/1995
Time Taken:
NET Sample No: 236215

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| METHOD 5030/M8015 | -- | | | | | | 02/21/1995 | 2603 |
| DILUTION FACTOR* | 1 | | | | | | 02/21/1995 | 2603 |
| as Gasoline | 360 | | 50 | ug/L | 5030 | | 02/21/1995 | 2603 |
| Carbon Range | C5-C12 | | | | | | 02/21/1995 | 2603 |
| METHOD 8020 (GC,Liquid) | -- | | | | | | 02/21/1995 | 2603 |
| Benzene | 46 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Toluene | 11 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Ethylbenzene | 19 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Xylenes (Total) | 18 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| SURROGATE RESULTS | -- | | | | | | 02/21/1995 | 2603 |
| Bromofluorobenzene (SURR) | 89 | | | % Rec. | 5030 | | 02/21/1995 | 2603 |

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.00741

Date: 02/27/1995
ELAP Cert: 1386
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Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

SAMPLE DESCRIPTION: MW-7
Date Taken: 02/15/1995
Time Taken:
NET Sample No: 236216

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| METHOD 5030/M8015 | -- | | | | | | 02/22/1995 | 2603 |
| DILUTION FACTOR* | 1 | | | | | | 02/22/1995 | 2603 |
| as Gasoline | ND | | 50 | ug/L | 5030 | | 02/22/1995 | 2603 |
| Carbon Range: | -- | | | | | | 02/22/1995 | 2603 |
| METHOD 8020 (GC,Liquid) | -- | | | | | | 02/22/1995 | 2603 |
| Benzene | 1.9 | C | 0.5 | ug/L | 8020 | | 02/22/1995 | 2603 |
| Toluene | 1.5 | C | 0.5 | ug/L | 8020 | | 02/22/1995 | 2603 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 02/22/1995 | 2603 |
| Xylenes (Total) | 2.0 | C | 0.5 | ug/L | 8020 | | 02/22/1995 | 2603 |
| SURROGATE RESULTS | -- | | | | | | 02/22/1995 | 2603 |
| Bromofluorobenzene (SURR) | 84 | | | % Rec. | 5030 | | 02/22/1995 | 2603 |

Client Name: Blaine Tech Services Date: 02/27/1995
Client Acct: 1821 ELAP Cert: 1386
NET Job No: 95.00741 Page: 9

Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

SAMPLE DESCRIPTION: MW-8
Date Taken: 02/15/1995
Time Taken:
NET Sample No: 236217

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| METHOD 5030/M8015 | -- | | | | | | 02/21/1995 | 2603 |
| DILUTION FACTOR* | 1 | | | | | | 02/21/1995 | 2603 |
| as Gasoline | ND | | 50 | ug/L | 5030 | | 02/21/1995 | 2603 |
| Carbon Range: | -- | | | | | | 02/21/1995 | 2603 |
| METHOD 8020 (GC,Liquid) | -- | | | | | | 02/21/1995 | 2603 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Xylenes (Total) | 1.4 | C | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| SURROGATE RESULTS | -- | | | | | | 02/21/1995 | 2603 |
| Bromofluorobenzene (SURR) | 76 | | | % Rec. | 5030 | | 02/21/1995 | 2603 |

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.00741

Date: 02/27/1995
ELAP Cert: 1386
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Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

SAMPLE DESCRIPTION: MW-9
Date Taken: 02/15/1995
Time Taken:
NET Sample No: 236218

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| METHOD 5030/M8015 | -- | | | | | | 02/21/1995 | 2603 |
| DILUTION FACTOR* | 1 | | | | | | 02/21/1995 | 2603 |
| as Gasoline | ND | | 50 | ug/L | 5030 | | 02/21/1995 | 2603 |
| Carbon Range: | -- | | | | | | 02/21/1995 | 2603 |
| METHOD 8020 (GC,Liquid) | -- | | | | | | 02/21/1995 | 2603 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Toluene | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| SURROGATE RESULTS | -- | | | | | | 02/21/1995 | 2603 |
| Bromofluorobenzene (SURR) | 70 | | | % Rec. | 5030 | | 02/21/1995 | 2603 |

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.00741

Date: 02/27/1995
ELAP Cert: 1386
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Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

SAMPLE DESCRIPTION: MW-11
Date Taken: 02/15/1995
Time Taken:
NET Sample No: 236219

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| METHOD 5030/M8015 | -- | | | | | | 02/22/1995 | 2607 |
| DILUTION FACTOR* | 1 | | | | | | 02/22/1995 | 2607 |
| as Gasoline | ND | | 50 | ug/L | 5030 | | 02/22/1995 | 2607 |
| Carbon Range: | -- | | | | | | 02/22/1995 | 2607 |
| METHOD 8020 (GC,Liquid) | -- | | | | | | 02/22/1995 | 2607 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 02/22/1995 | 2607 |
| Toluene | 0.6 | C | 0.5 | ug/L | 8020 | | 02/22/1995 | 2607 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 02/22/1995 | 2607 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 02/22/1995 | 2607 |
| SURROGATE RESULTS | -- | | | | | | 02/22/1995 | 2607 |
| Bromofluorobenzene (SURR) | 85 | | | % Rec. | 5030 | | 02/22/1995 | 2607 |

Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

SAMPLE DESCRIPTION: MW-13
Date Taken: 02/15/1995
Time Taken:
NET Sample No: 236220

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| METHOD 5030/M8015 | -- | | | | | | 02/21/1995 | 2603 |
| DILUTION FACTOR* | 1 | | | | | | 02/21/1995 | 2603 |
| as Gasoline | 320 | | 50 | ug/L | 5030 | | 02/21/1995 | 2603 |
| Carbon Range: | C5-C12 | | | | | | 02/21/1995 | 2603 |
| METHOD 8020 (GC,Liquid) | -- | | | | | | 02/21/1995 | 2603 |
| Benzene | 79 | FC | 0.5 | ug/L | 8020 | | 02/22/1995 | 2607 |
| Toluene | 5.6 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Ethylbenzene | 7.5 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Xylenes (Total) | 23 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| SURROGATE RESULTS | -- | | | | | | 02/21/1995 | 2603 |
| Bromofluorobenzene (SURR) | 88 | | | % Rec. | 5030 | | 02/21/1995 | 2603 |

Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

SAMPLE DESCRIPTION: EB
Date Taken: 02/15/1995
Time Taken:
NET Sample No: 236221

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| METHOD 5030/M8015 | -- | | | | | | 02/21/1995 | 2603 |
| DILUTION FACTOR* | 1 | | | | | | 02/21/1995 | 2603 |
| as Gasoline | ND | | 50 | ug/L | 5030 | | 02/21/1995 | 2603 |
| Carbon Range: | -- | | | | | | 02/21/1995 | 2603 |
| METHOD 8020 (GC,Liquid) | -- | | | | | | 02/21/1995 | 2603 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Toluene | 1.1 | C | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| SURROGATE RESULTS | -- | | | | | | 02/21/1995 | 2603 |
| Bromofluorobenzene (SURR) | 82 | | | % Rec. | 5030 | | 02/21/1995 | 2603 |

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.00741

Date: 02/27/1995
ELAP Cert: 1386
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Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

SAMPLE DESCRIPTION: DUP
Date Taken: 02/15/1995
Time Taken:
NET Sample No: 236222

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| METHOD 5030/M8015 | -- | | | | | | 02/21/1995 | 2603 |
| DILUTION FACTOR* | 1 | | | | | | 02/21/1995 | 2603 |
| as Gasoline | 300 | | 50 | ug/L | 5030 | | 02/21/1995 | 2603 |
| Carbon Range: | C5-C12 | | | | | | 02/21/1995 | 2603 |
| METHOD 8020 (GC,Liquid) | -- | | | | | | 02/21/1995 | 2603 |
| Benzene | 90 | FC | 0.5 | ug/L | 8020 | | 02/22/1995 | 2607 |
| Toluene | 5.7 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Ethylbenzene | 7.4 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Xylenes (Total) | 24 | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| SURROGATE RESULTS | -- | | | | | | 02/21/1995 | 2603 |
| Bromofluorobenzene (SURR) | 88 | | | % Rec. | 5030 | | 02/21/1995 | 2603 |

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.00741

Date: 02/27/1995
ELAP Cert: 1386
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Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

SAMPLE DESCRIPTION: TB
Date Taken: 02/15/1995
Time Taken:
NET Sample No: 236223

| Parameter | Results | Flags | Reporting Limit | Units | Method | Date Extracted | Date Analyzed | Run Batch No. |
|---|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | | |
| METHOD 5030/M8015 | -- | | | | | | 02/21/1995 | 2603 |
| DILUTION FACTOR* | 1 | | | | | | 02/21/1995 | 2603 |
| as Gasoline | ND | | 50 | ug/L | 5030 | | 02/21/1995 | 2603 |
| Carbon Range: | -- | | | | | | 02/21/1995 | 2603 |
| METHOD 8020 (GC,Liquid) | -- | | | | | | 02/21/1995 | 2603 |
| Benzene | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Toluene | 1.0 | C | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Ethylbenzene | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| Xylenes (Total) | ND | | 0.5 | ug/L | 8020 | | 02/21/1995 | 2603 |
| SURROGATE RESULTS | -- | | | | | | 02/21/1995 | 2603 |
| Bromofluorobenzene (SURR) | 84 | | | % Rec. | 5030 | | 02/21/1995 | 2603 |

Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

# 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 |
|---|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | | |
| as Gasoline | 104.0 | 1.04 | 1.00 | mg/L | 02/21/1995 | dfw | 2603 |
| Benzene | 91.0 | 4.55 | 5.00 | ug/L | 02/21/1995 | dfw | 2603 |
| Toluene | 91.0 | 4.55 | 5.00 | ug/L | 02/21/1995 | dfw | 2603 |
| Ethylbenzene | 86.8 | 4.34 | 5.00 | ug/L | 02/21/1995 | dfw | 2603 |
| Xylenes (Total) | 90.0 | 13.5 | 15.0 | ug/L | 02/21/1995 | dfw | 2603 |
| Bromofluorobenzene (SURR) | 86.0 | 86 | 100 | % Rec. | 02/21/1995 | dfw | 2603 |
| TPH (Gas/BTXE,Liquid) | | | | | | | |
| as Gasoline | 98.0 | 0.98 | 1.00 | mg/L | 02/22/1995 | aal | 2607 |
| Benzene | 92.0 | 4.60 | 5.00 | ug/L | 02/22/1995 | aal | 2607 |
| Toluene | 89.2 | 4.46 | 5.00 | ug/L | 02/22/1995 | aal | 2607 |
| Ethylbenzene | 88.8 | 4.44 | 5.00 | ug/L | 02/22/1995 | aal | 2607 |
| Xylenes (Total) | 90.0 | 13.5 | 15.0 | ug/L | 02/22/1995 | aal | 2607 |
| Bromofluorobenzene (SURR) | 91.0 | 91 | 100 | % Rec. | 02/22/1995 | aal | 2607 |

Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

# METHOD BLANK REPORT

| Parameter | Method Blank Amount Found | Reporting Limit | Units | Date Analyzed | Analyst Initials | Run Batch Number |
|---|---|---|---|---|---|---|
| TPH (Gas/BTXE,Liquid) | | | | | | |
| as Gasoline | ND | 0.05 | mg/L | 02/21/1995 | dfw | 2603 |
| Benzene | ND | 0.5 | ug/L | 02/21/1995 | dfw | 2603 |
| Toluene | ND | 0.5 | ug/L | 02/21/1995 | dfw | 2603 |
| Ethylbenzene | ND | 0.5 | ug/L | 02/21/1995 | dfw | 2603 |
| Xylenes (Total) | ND | 0.5 | ug/L | 02/21/1995 | dfw | 2603 |
| Bromofluorobenzene (SURR) | 80 | | % Rec. | 02/21/1995 | dfw | 2603 |
| TPH (Gas/BTXE,Liquid) | | | | | | |
| as Gasoline | ND | 0.05 | mg/L | 02/22/1995 | aal | 2607 |
| Benzene | ND | 0.5 | ug/L | 02/22/1995 | aal | 2607 |
| Toluene | ND | 0.5 | ug/L | 02/22/1995 | aal | 2607 |
| Ethylbenzene | ND | 0.5 | ug/L | 02/22/1995 | aal | 2607 |
| Xylenes (Total) | ND | 0.5 | ug/L | 02/22/1995 | aal | 2607 |
| Bromofluorobenzene (SURR) | 76 | | % Rec. | 02/22/1995 | aal | 2607 |

Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.00741

Date: 02/27/1995
ELAP Cert: 1386
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Ref: SHELL, 7914 Almador Valley Blvd., Dublin, Job No. 950215-E1

# 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) | | | | | | | | | | | 236330 |
| as Gasoline | 98.0 | 101.0 | 2.9 | 1.00 | ND | 0.98 | 1.01 | mg/L | 02/22/1995 | 2607 | 236330 |
| Benzene | 101.9 | 106.3 | 4.2 | 26.8 | ND | 27.3 | 28.5 | ug/L | 02/22/1995 | 2607 | 236330 |
| Toluene | 99.9 | 107.3 | 7.0 | 79.0 | ND | 78.9 | 84.8 | ug/L | 02/22/1995 | 2607 | 236330 |

NET®

## 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: Shell, Almaden Valley, Dublin, 9502K-E1 Log No: 5575
Cooler received on: 2/16/95 and checked on 2/17/95 by J. LeBaudour
J. LeBaudour
(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 0.9°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: |
|---|---|
| MW3 | 1 of 3 |

*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 WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 96215-E1 | Wic # 204-7217-0105 |
| Sampler: KEB | Date Sampled: 2-15-95 |
| Well I.D.: MW-1 | Well Diameter: (circle one) 2 3 (4) 6 ___ |
| Total Well Depth: Before 25.19 After | Depth to Water: Before 6.84 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: (PVC) | Grade Other -- |

Volume Conversion Factor (VCF):
$(12 \times (d^2/4) \times \pi)/231$
where
12 = in/foot
d = diameter (in.)
$\pi$ = 3.1416
231 = $in^3$/gal

| Well dia. | VCF |
|---|---|
| 2" | = 0.16 |
| 3" | = 0.37 |
| 4" | = 0.65 |
| 4" | = 1.47 |
| 10" | = 4.08 |
| 12" | = 5.87 |

| 11.9 | x | 3 | = | 35.90 |
|---|---|---|---|---|
| 1 Case Volume | | Specified Volumes | | gallons |

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☑ Suction Pump ☐ Type of Installed Pump ___

Sampling: Bailer ☑ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|---|---|---|---|---|---|---|
| 1351 | 61.0 | 8.17 | 2900 | 15.1 | 12 | |
| 1354 | 66.2 | 7.89 | 2610 | 12.8 | 24 | |
| 1357 | 66.3 | 7.11 | 2660 | 6.8 | 36 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 36

Sampling Time: 1405

Sample I.D.: MW-1 Laboratory: NET

Analyzed for: TPH-G, BTEX

Duplicate I D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 95021S-E1 | Wic # 204-7217-0105 |
| Sampler: KEB | Date Sampled: 2-15-95 |
| Well I.D.: MW-2 | Well Diameter: (circle one) 2 3 (4) 6 ___ |
| Total Well Depth: Before 24.54 After | Depth to Water: Before 8.90 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: (PVC) | Grade Other -- |

Volume Conversion Factor (VCF):
(22 * ($d^2$/4) * π)/231
Where
22 = in/foot
d = diameter (in.)
π = 3.1416
231 = cu.in/gal

| Well dia. | VCF |
|---|---|
| 2" | = 0.16 |
| 3" | = 0.37 |
| 4" | = 0.65 |
| 6" | = 1.47 |
| 10" | = 4.08 |
| 12" | = 5.87 |

| | | | | |
|---|---|---|---|---|
| 10.2 | x | 3 | = | 30.5 |
| 1 Case Volume | | Specified Volumes | | gallons |

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☑ Suction Pump ☐ Type of Installed Pump ___

Sampling: Bailer ☑ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|---|---|---|---|---|---|---|
| 1142 | 68.0 | 7.83 | 8920 | 18.7 | 10.5 | |
| 1144 | 68.0 | 7.47 | 8800 | 5.9 | 21. | |
| 1146 | 67.8 | 7.41 | 8150 | 5.4 | 31 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 31

Sampling Time: 1155

Sample I.D.: MW-2 Laboratory: NET

Analyzed for: TPH-G, BTEX

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 960215-E1 | Wic # 204-2211-0105 |
| Sampler: KEB | Date Sampled: 7-15-95 |
| Well I.D.: MW-3 | Well Diameter: (circle one) 2 3 (4) 6 ___ |
| Total Well Depth: Before 24.30 After | Depth to Water: Before 8.35 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: (PVC) | Grade Other -- |

Volume Conversion Factor (VCF):

$(12 \times (d^2/4) \times \pi)/231$

where

12 = in./foot
d = diameter (in.)
π = 3.1416
231 = in³/gal

| Well dia. | VCF |
|---|---|
| 2" | = 0.16 |
| 3" | = 0.37 |
| 4" | = 0.65 |
| 6" | = 1.47 |
| 10" | = 4.08 |
| 12" | = 5.87 |

| 1 Case Volume | x | Specified Volumes | = | gallons |
|---|---|---|---|---|
| 10.4 | x | 3 | = | 31.1 |

Purging: Bailer ☐
Middleburg ☐
Electric Submersible ☑
Suction Pump ☐
Type of Installed Pump _____

Sampling: Bailer ☑
Middleburg ☐
Electric Submersible ☐
Suction Pump ☐
Installed Pump ☐

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|---|---|---|---|---|---|---|
| 1326 | 61.7 | 8.21 | 5050 | 11.5 | 10.5 | |
| 1328 | 61.8 | 7.86 | 4340 | 4.4 | 21 | |
| 1331 | 61.3 | 7.72 | 4260 | 4.3 | 32 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 32

Sampling Time: 1335

Sample I.D.: MW-3 Laboratory: NET

Analyzed for: TPH-G, BTEX

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 950215-E1 | Wic # 204-7217-0105 |
| Sampler: KEB | Date Sampled: 2-15-95 |
| Well I.D.: MW-4 | Well Diameter: (circle one) 2 3 (4) 6 ___ |
| Total Well Depth: Before 24.80 After | Depth to Water: Before 9.49 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: (PVC) | Grade Other -- |

Volume Conversion Factor (VCF):

$\{12 \times (d^2/4) \times \pi\}/231$

Where
12 = in./foot
d = diameter (in.)
π = 3.1416
231 = in.3/gal

| Well dia. | VCF |
|---|---|
| 2" | = 0.16 |
| 3" | = 0.37 |
| 4" | = 0.65 |
| 6" | = 1.47 |
| 10" | = 4.08 |
| 12" | = 5.87 |

| 1 Case Volume | | Specified Volumes | | gallons |
|---|---|---|---|---|
| 9.95 | x | 3 | = | 29.9 |

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☑ Suction Pump ☐ Type of Installed Pump ___

Sampling: Bailer ☑ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|---|---|---|---|---|---|---|
| 1255 | 68.1 | 7.95 | 4940 | 41.2 | 10. | |
| 1257 | 68.1 | 7.63 | 4750 | 41.5 | 20. | |
| 1300 | 69.0 | 7.51 | 5100 | 56.2 | 30 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 30.

Sampling Time: 1305

Sample I.D.: MW-4 Laboratory: NET

Analyzed for: TPH-G, BTEX

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 950215-E1 | Wic # 204-2217-0105 |
| Sampler: KEB | Date Sampled: 7-15-95 |
| Well I.D.: MW-5 | Well Diameter: (circle one) 2 3 (4) 6 ___ |
| Total Well Depth: Before 44.19 After | Depth to Water: Before 6.68 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: (PVC) Grade Other -- | |

Volume Conversion Factor (VCF):
$(12 \times (d^2/4) \times \pi)/231$
Where
12 = in/foot
d = diameter (in.)
$\pi$ = 3.1416
231 = in3/gal

| Well dia. | VCF |
|---|---|
| 2" | = 0.16 |
| 3" | = 0.37 |
| 4" | = 0.65 |
| 6" | = 1.47 |
| 10" | = 4.08 |
| 12" | = 5.87 |

24.6 x 3 = 73.9
1 Case Volume Specified Volumes = gallons

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☑ Suction Pump ☐ Type of Installed Pump ___
Sampling: Bailer ☑ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|---|---|---|---|---|---|---|
| 1400 | 69.8 | 7.94 | 5800 | 8.3 | 25 | |
| 1412 | 69.0 | 7.64 | 5100 | 3.2 | 50 | |
| 1416 | 68.5 | 7.79 | 5640 | 5.3 | 75 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 75

Sampling Time: 1410

Sample I.D.: MW-5 Laboratory: NET

Analyzed for: TPH-G, BTEX

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 950215-E1 | Wic # 204-2217-0105 |
| Sampler: KEB | Date Sampled: 2-15-95 |
| Well I.D.: MW-6 | Well Diameter: (circle one) 2 3 (4) 6 ___ |
| Total Well Depth: Before 22.90 After | Depth to Water: Before 7.36 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: (PVC) Grade Other -- | |

Volume Conversion Factor (VCF):
(12 * ($d^2$/4) * π)/231
Where
12 = in./feet
d = diameter (in.)
π = 3.1416
231 = in.³/gal

| Well dia. | VCF |
|---|---|
| 2" | = 0.16 |
| 3" | = 0.37 |
| 4" | = 0.65 |
| 6" | = 1.47 |
| 10" | = 4.08 |
| 12" | = 5.87 |

| 10.1 | x | 3 | 30.3 |
|---|---|---|---|
| 1 Case Volume | | Specified Volumes | = gallons |

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☑ Suction Pump ☐ Type of Installed Pump ____

Sampling: Bailer ☑ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|---|---|---|---|---|---|---|
| 1434 | 70.3 | 7.19 | 4610 | 40.0 | 10.5 | |
| 1437 | 68.0 | 7.81 | 3310 | 55.0 | 21 | |
| 1439 | 68.1 | 7.14 | 3640 | 28.3 | 31 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 31

Sampling Time: 1440

Sample I.D.: MW-6 Laboratory: NET

Analyzed for: TPH-G, BTEX

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 960215-E1 | Wic # 204-2217-0105 |
| Sampler: KEB | Date Sampled: 2-16-95 |
| Well I.D.: MW-7 | Well Diameter: (circle one) 2 3 (4) 6 ___ |
| Total Well Depth: Before 16.52 After | Depth to Water: Before 5.40 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: (PVC) | Grade Other -- |

Volume Conversion Factor (VCF):
(12 x (d²/4) x π)/231
where
12 = in/foot
d = diameter (in.)
π = 3.1416
231 = in³/gal

| Well dia. | VCF |
|---|---|
| 2" | 0.16 |
| 3" | 0.37 |
| 4" | 0.65 |
| 6" | 1.47 |
| 8" | 4.08 |
| 12" | 8.87 |

| 1 Case Volume | | Specified Volumes | = | gallons |
|---|---|---|---|---|
| 7.2 | x | 3 | | 21.7 |

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☑ Suction Pump ☐ Type of Installed Pump _____

Sampling: Bailer ☑ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|---|---|---|---|---|---|---|
| 1054 | 64.8 | 7.37 | 2280 | 24.7 | 7.5 | |
| 1056 | 64.6 | 7.24 | 2390 | 27.2 | 15 | |
| 1058 | 64.6 | 7.22 | 2470 | 46.4 | 22 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 22

Sampling Time: 1105

Sample I.D.: MW-7 Laboratory: NET

Analyzed for: TPH-G, BTEX

Duplicate I.D.: Cleaning Blank I.D.: EB At 1110

Analyzed for: EB After MW-7

Shipping Notations: TPH-G, BTEX

Additional Notations:

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 96021S-E1 | Wic # 204-7217-0405 |
| Sampler: KEB | Date Sampled: 2-15-95 |
| Well I.D.: MW-8 | Well Diameter: (circle one) 2 3 (4) 6 ___ |
| Total Well Depth: Before 16.15 After | Depth to Water: Before 6.67 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: (PVC) | Grade Other -- |

Volume Conversion Factor (VCF):
$(12 \times (d^2/4) \times \pi)/231$
where
12 = in/foot
d = diameter (in.)
$\pi$ = 3.1416
231 = in3/gal

| Well dia. | VCF |
|---|---|
| 2" | = 0.16 |
| 3" | = 0.37 |
| 4" | = 0.65 |
| 6" | = 1.47 |
| 10" | = 4.08 |
| 12" | = 5.87 |

| | | | | |
|---|---|---|---|---|
| 6.2 | x | 3 | = | 18.5 |
| 1 Case Volume | | Specified Volumes | | gallons |

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☑ Suction Pump ☐ Type of Installed Pump ___

Sampling: Bailer ☑ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|---|---|---|---|---|---|---|
| 1233 | 70.2 | 7.15 | 8570 | 2.5 | 6.5 | |
| 1235 | 69.1 | 7.34 | 8370 | 5.6 | 13 | |
| 1237 | 69.5 | 7.29 | 8290 | 4.3 | 19 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 19.

Sampling Time: 1245

Sample I.D.: MW-8 Laboratory: NET

Analyzed for: TPH-G, BTEX

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 950215-E1 | Wic # 204-2217-0105 |
| Sampler: KEB | Date Sampled: 2-15-95 |
| Well I.D.: MW-9 | Well Diameter: (circle one) 2 3 (4) 6 ___ |
| Total Well Depth: Before 17.89 After | Depth to Water: Before 7.36 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: (PVC) | Grade Other -- |

Volume Conversion Factor (VCF):
(32 = (d²/4) × π)/231
Where
12 = in/foot
d = diameter (in.)
π = 3.1416
231 = in³/gal

| Well dia. | VCF |
|---|---|
| 2" | = 0.16 |
| 3" | = 0.37 |
| 4" | = 0.65 |
| 6" | = 1.47 |
| 10" | = 4.08 |
| 12" | = 5.87 |

| 6.8 | x | 3 | = | 20.5 |
|---|---|---|---|---|
| 1 Case Volume | | Specified Volumes | | gallons |

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☑ Suction Pump ☐ Type of Installed Pump _____

Sampling: Bailer ☑ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|---|---|---|---|---|---|---|
| 1202 | 74.9 | 8.09 | 8610 | 4.6 | 7 | brwn clear |
| 1214 | 71.0 | 7.79 | 8230 | 6.0 | 14 | |
| 1216 | 70.2 | 7.61 | 8140 | 8.5 | 21 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 21

Sampling Time: 1220

Sample I.D.: MW-9 Laboratory: KET

Analyzed for: TPHG, BTEX

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 950215-E1 | Wic # 204-2217-0105 |
| Sampler: ICEB | Date Sampled: 2-15-95 |
| Well I.D.: MW-11 | Well Diameter: (circle one) 2 3 (4) 6 ___ |
| Total Well Depth: Before 16.41 After | Depth to Water: Before 6.46 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: (PVC) Grade | Other -- |

Volume Conversion Factor (VCF):
$(12 \times (d^2/4) \times \pi)/231$
Where
12 = in./foot
d = diameter (in.)
$\pi$ = 3.1416
231 = in.³/gal.

| Well dia. | VCF |
|---|---|
| 2" | = 0.16 |
| 3" | = 0.37 |
| 4" | = 0.65 |
| 6" | = 1.47 |
| 10" | = 4.08 |
| 12" | = 5.87 |

| 1 Case Volume | x | Specified Volumes | = | gallons |
|---|---|---|---|---|
| 6.5 | x | 3 | = | 19.4 |

Purging: Bailer ☐
Middleburg ☐
Electric Submersible ☑
Suction Pump ☐
Type of Installed Pump _____

Sampling: Bailer ☑
Middleburg ☐
Electric Submersible ☐
Suction Pump ☐
Installed Pump ☐

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|---|---|---|---|---|---|---|
| 1124 | 63.0 | 7.14 | 7210 | 34.2 | 7 | |
| 1125 | 64.8 | 7.42 | 7650 | 29.6 | 14 | |
| 1127 | 65.7 | 7.35 | 7891 | 68.8 | 20. | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 20

Sampling Time: 1135

Sample I.D.: MW-11 Laboratory: Not

Analyzed for: TPH-G, BTEX

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| Project #: 950215-E1 | Wic # 204-2217-6105 |
| Sampler: KEB | Date Sampled: 2-15-95 |
| Well I.D.: MW-13 | Well Diameter: (circle one) 2 3 (4) 6 ___ |
| Total Well Depth: Before 17.09 After | Depth to Water: Before 8.42 After |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Measurements referenced to: (PVC) | Grade Other -- |

Volume Conversion Factor (VCF):
$(22 \times (c^2/4) \times \pi)/231$
where
22 = in./foot
c = diameter (in.)
$\pi$ = 3.1416
231 = in.$^3$/gal

| Well dia. | VCF |
|---|---|
| 2" | = 0.16 |
| 3" | = 0.37 |
| 4" | = 0.65 |
| 6" | = 1.47 |
| 10" | = 4.08 |
| 12" | = 5.87 |

| 1 Case Volume | x | Specified Volumes | = | gallons |
|---|---|---|---|---|
| 5.6 | x | 3 | = | 16.9 |

Purging: Bailer ☐ Middleburg ☐ Electric Submersible ☑ Suction Pump ☐ Type of Installed Pump _____

Sampling: Bailer ☑ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

| TIME | TEMP. (F) | pH | COND. | TURBIDITY: | VOLUME REMOVED: | OBSERVATIONS: |
|---|---|---|---|---|---|---|
| 1452 | 69.2 | 7.93 | 7660 | 97.3 | 6 | |
| 1454 | 68.3 | 7.64 | 7320 | 54.2 | 12 | |
| 1456 | 67.2 | 7.58 | 7590 | 64.0 | 17 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 17

Sampling Time: 1600

Sample I.D.: MW-13 Laboratory: NET

Analyzed for: TPH-G, BTEX

Duplicate I.D.: DUP = MW13 Cleaning Blank I.D.:

Analyzed for: TPH-G, BTEX DUP at 1500

Shipping Notations:

Additional Notations: