



*Regional GW flow to SE but site tends to suggest GW flows to W, NW, SW*

July 27, 1998

Project Number 192-03-02

Mr. Hooshang Hadjian  
 Dublin Auto Wash  
 7240 Dublin Boulevard  
 Dublin, CA 94568

**Subject: Groundwater Sampling Report, Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, California**

This facility is a Auto Wash Station that also sells gasoline. Figure 1 showing the site location is attached.

This Groundwater Sampling Report describes the routine quarterly groundwater monitoring for this Beacon facility. The work includes inspection, gauging, evacuation, purgewater containment, sample collecting and sample handling in accordance with standard Regional Water Quality Control Board requirements. Ms. Eva Chu of the Alameda Health Services Department Environmental Health Division requested the sampling and analysis.

Groundwater samples were obtained on July 7, 1998. Prior to sampling, groundwater elevation measurements were obtained. Results are presented in the table below.

**Table 2 - Groundwater Measurement Results  
 Dublin Auto Wash  
 7240 Dublin Boulevard, Dublin, California  
 Measured on July 7, 1998\***

| Well Name | Well Elevation | Depth to GW. | GW Elevation |
|-----------|----------------|--------------|--------------|
| MW-1      | 333.66         | 12.45        | 321.21       |
| MW-2      | 329.29         | 8.21         | 321.08       |
| MW-3      | 332.86         | 11.62        | 321.24       |
| MW-4      | 332.63         | 10.16        | 322.47       |
| MW-5      | 333.04         | 10.33        | 322.71       |
| EA-1      | 331.21         | 9.84         | 321.37       |
| EA-2      | 330.41         | 8.52         | 321.89       |
| EA-3      | 331.50         | †            | †            |

\* elevation above mean sea level, in feet. † not measured, could not open

50 AUG 21 1998  
 ENVIRONMENTAL  
 PROTECTION

The groundwater flow direction (more precisely direction of groundwater gradient, since the horizontal hydraulic conductivity anisotropy is unknown) is as shown on Figure 2 - Groundwater Gradient.

All monitoring wells except MW-4, MW-5 and EA-3 were purged using an electric purge pump prior to sampling. MW-4 and MW-5 were not scheduled for sampling, while the well cover for EA-3 was not able to be opened. All purge water was placed in a sealed metal 55 gallon drum (DOT 17H). After each well was purged, a sample was taken from the end of the pump hose. The water was placed in two 40 milliliter vials filled so that there was no air (head space) remaining in the vials. Samples were labeled and placed on ice in a cooler for transport to a state certified hazardous materials testing laboratory, McCampbell Analytical of Pacheco, California. Before the next well was purged and sampled, the pump was run and washed in one bucket with bio-degradable detergent and two separate buckets with tap water. The equipment wash water was placed in 55 gallon steel drums and remains on-site.

All samples were analyzed for TPH-gasoline, MTBE and BTEX using EPA Methods 5030, modified 8015, and 8020. MW-3 was also analyzed for Oxygenated Compounds using EPA Method 8260. A copy of the laboratory report and Chain of Custody form are appended to this report.

**Table 3 - Groundwater Sample Analysis Results  
Dublin Auto Wash  
7240 Dublin Boulevard, Dublin, California  
Groundwater Samples Collected on July 7, 1998**

| Sample #   | TPH-g | MTBE    | Benzene | Toluene | Ethylbenzene | Xylenes |
|------------|-------|---------|---------|---------|--------------|---------|
| MW-1       | 65    | 700     | 1.4     | 1.6     | ND           | ND      |
| MW-2       | ND    | 1100    | ND      | ND      | ND           | ND      |
| MW-3       | 7400  | 150,000 | 1100    | 490     | 270          | 980     |
| EA-1       | 5000  | ND<130  | 60      | 150     | 220          | 850     |
| EA-2       | ND    | ND      | ND      | ND      | ND           | ND      |
| Det. Limit | 50    | 5.0     | 0.5     | 0.5     | 0.5          | 0.5     |

TPH-g and BTEX are in parts per billion, or  $\mu\text{g}/\text{L}$ . ND = Not Detected

This data has been added to the Cumulative Table of Well Data and Analytical Results, which is attached.

Copies of this report will be forwarded to the Alameda County Health Svcs  
Department, Environmental Health Division, 1131 Harbor Bay Parkway, #250  
Alameda, CA 94502-6577, and to the San Francisco Bay Regional Water Quality  
Control Board, 2101 Webster Street, Suite 500, Oakland, CA 94612.

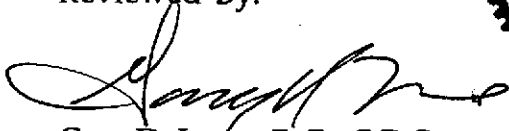
Sincerely:  
PARKER ENVIRONMENTAL SERVICES



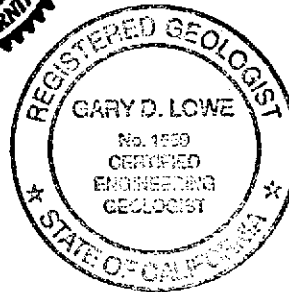
James D. Parker  
President



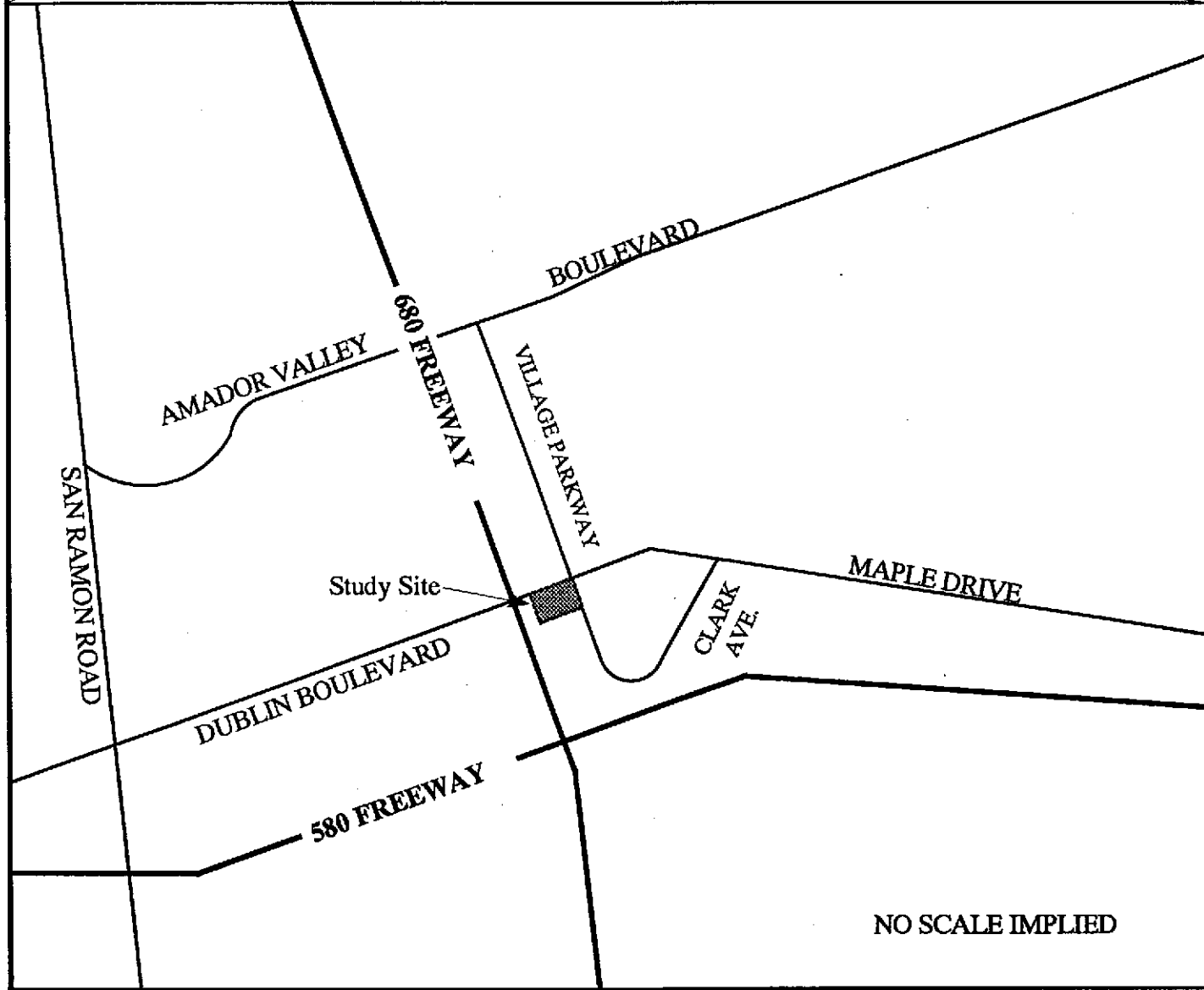
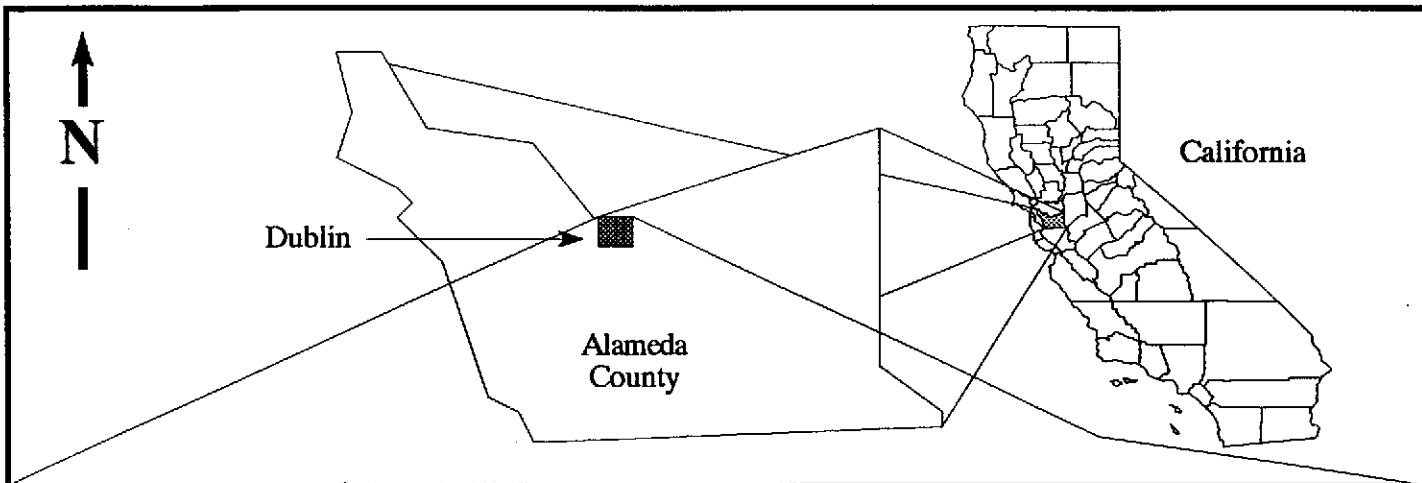
Reviewed By:



Gary D. Lowe, R.G., C.E.G.  
Principal, Hydrogeologist  
H<sub>2</sub>OGEOL, A GroundWater Consultancy



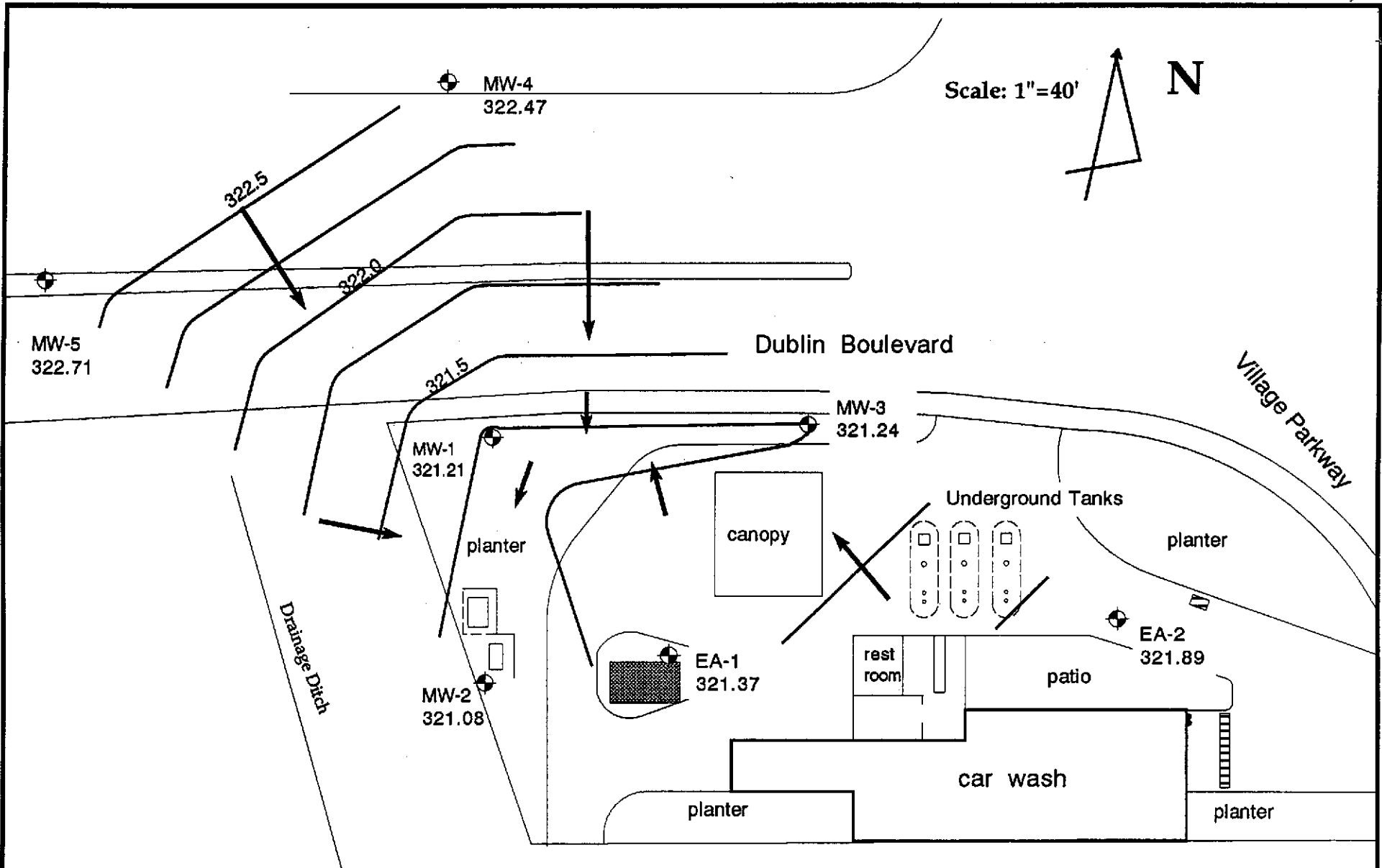
Attachments



**PARKER**  
*Environmental  
 Services*

190 East 7th Street  
 Pittsburg, CA 94565  
 (510) 439-1024

**DUBLIN AUTO WASH**  
 7420 Dublin Boulevard  
 Dublin, California  
 Figure 1 - Vicinity Map

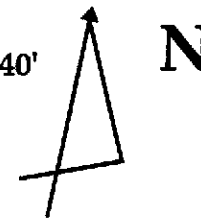


Wells measured July 7, 1998.

|   |  |  |
|---|--|--|
| <p><b>PARKER</b><br/>Environmental<br/>Services</p> | <p>190 East 7th Street<br/>Pittsburg, CA 94565<br/>(925)439-1024</p> | <p>Figure 2 - Groundwater Gradient<br/>Dublin Auto Wash<br/>7240 Dublin Boulevard<br/>Dublin, California</p> |
|---|--|--|

MW-4  
Not Sampled

Scale: 1"=40'



MW-5  
Not Sampled

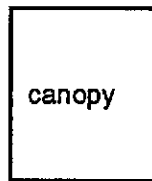
Dublin Boulevard

Village Parkway

MW-1  
(65)  
[1.4]  
{700}

planter

MW-3  
(7400)  
[1100]  
{150,000}



EA-3  
Inaccessible

planter

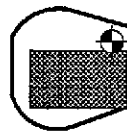


Underground Tanks

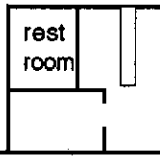
Drainage Ditch

MW-2  
(ND)  
[ND]  
{1100}

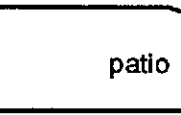
EA-1  
(5000)  
[60]  
{<130}



EA-2  
(ND)  
[ND]  
{ND}



rest room



patio

Samples collected July 7, 1998.

car wash

planter

planter

**Key:**

- (X.X) = TPH-g
- [X.X] = Benzene
- {X.X} = MTBE

**PARKER**  
Environmental  
Services

190 East 7th Street  
Pittsburg, CA 94565  
(925)439-1024

Figure 3 - Hydrocarbon Concentrations  
Dublin Auto Wash  
7240 Dublin Boulevard  
Dublin, California





McCAMPBELL ANALYTICAL INC.

110 Second Avenue South, #D7, Pacheco, CA 94553  
 Telephone : 925-798-1620 Fax : 925-798-1622  
<http://www.mccampbell.com> E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)

|   |  |                                 |
|---|--|---------------------------------|
| Parker Environmental Services<br>190 East 7 <sup>th</sup> Street<br>Pittsburg, CA 94565 | Client Project ID: #192-03-03, Mr. Hadjian | Date Sampled: 07/07/98          |
|   | Client Contact: Jim Parker                 | Date Received: 07/08/98         |
|   | Client P.O:                                | Date Extracted: 07//10-07/13/98 |
|   |  | Date Analyzed: 07/10-07/13/98   |

**Oxygenated Volatile Organics By GC/MS**

EPA method 8260 modified

| Lab ID                         | 91844          | Reporting Limit |   |  |       |      |
|--------------------------------|----------------|-----------------|---|--|-------|------|
| Client ID                      | Mw-3           | Reporting Limit |   |  |       |      |
| Matrix                         | W              | S               | W |  |       |      |
| Compound                       | Concentration* |                 |   |  | ug/kg | ug/L |
| Di-isopropyl Ether (DIPE)      | ND<1000        |                 |   |  | 5.0   | 1.0  |
| Ethyl tert-Butyl Ether (ETBE)  | ND<1000        |                 |   |  | 5.0   | 1.0  |
| Methyl-tert Butyl Ether (MTBE) | 190,000        |                 |   |  | 5.0   | 1.0  |
| tert-Amyl Methyl Ether (TAME)  | ND<1000        |                 |   |  | 5.0   | 1.0  |
| tert-Butanol                   | ND<10,000      |                 |   |  | 25    | 5.0  |

**Surrogate Recoveries (%)**

|                      |    |  |  |  |  |
|----------------------|----|--|--|--|--|
| Dibromofluoromethane | 97 |  |  |  |  |
| Comments:            |    |  |  |  |  |

\* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L  
 ND means not detected above the reporting limit; N/A means surrogate not applicable to this analysis  
 (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content



## QC REPORT FOR HYDROCARBON ANALYSES

Date: 07/08/98-07/09/98

Matrix: WATER

| Analyte             | Concentration (mg/L) |      |      | Amount Spiked | % Recovery |      | RPD |
|---------------------|----------------------|------|------|---------------|------------|------|-----|
|                     | Sample (#91209)      | MS   | MSD  |               | MS         | MSD  |     |
| TPH (gas)           | 0.0                  | 96.6 | 94.8 | 100.0         | 96.6       | 94.8 | 1.8 |
| Benzene             | 0.0                  | 9.2  | 9.1  | 10.0          | 92.0       | 91.0 | 1.1 |
| Toluene             | 0.0                  | 9.6  | 9.6  | 10.0          | 96.0       | 96.0 | 0.0 |
| Ethyl Benzene       | 0.0                  | 10.0 | 9.9  | 10.0          | 100.0      | 99.0 | 1.0 |
| Xylenes             | 0.0                  | 29.9 | 29.7 | 30.0          | 99.7       | 99.0 | 0.7 |
| TPH(diesel)         | 0.0                  | 160  | 156  | 150           | 107        | 104  | 2.3 |
| TRPH (oil & grease) | N/A                  | N/A  | N/A  | N/A           | N/A        | N/A  | N/A |

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

## QC REPORT FOR VOCs (EPA 8240/8260 )

Date: 07/10/98-07/13/98

Matrix: WATER

| Analyte          | Concentration (ug/kg, u<br>Sample<br>(#91827) |     |     | Amount<br>Spiked | % Recovery |     | RPD |
|------------------|---|-----|-----|------------------|------------|-----|-----|
|                  | MS  | MSD |     |                  | MS         | MSD |     |
| 1,1-Dichloroethe | 0   | 115 | 112 | 100              | 115        | 112 | 2.6 |
| Trichloroethene  | 0   | 80  | 76  | 100              | 80         | 76  | 5.1 |
| EDB              | 0   | 103 | 103 | 100              | 103        | 103 | 0.0 |
| Chlorobenzene    | 0   | 93  | 88  | 100              | 93         | 88  | 5.5 |
| Benzene          | 0   | 96  | 91  | 100              | 96         | 91  | 5.3 |
| Toluene          | 0   | 90  | 86  | 100              | 90         | 86  | 4.5 |

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$









# WATER SAMPLING DATA FORM

PARKER ENVIRONMENTAL SERVICES

|   |                                 |                          |                       |      |                           |                  |                |
|---|---------------------------------|--------------------------|-----------------------|------|---------------------------|------------------|----------------|
| Project Name<br><b>DUBLIN AUTO WASH</b> | Project No.<br><b>192-03-03</b> | Well Name<br><b>EA-1</b> | Date<br><b>7-7-98</b> | Time | Name<br><b>Jim Parker</b> | Page<br><b>4</b> | of<br><b>5</b> |
|---|---------------------------------|--------------------------|-----------------------|------|---------------------------|------------------|----------------|

|                                     |  |  |
|-------------------------------------|--|--|
| Well Depth (ft.)<br><b>40</b>       | Sounded Depth (ft.)<br><b>39.32</b>                                      | Sampling Equipment<br><input type="checkbox"/> Monitoring Well<br><input type="checkbox"/> Sampling Point<br><input type="checkbox"/> Other (describe) |
| Depth to Water (ft.)<br><b>9.82</b> | Date/Time<br><b>7-7-98 13:17</b>   |  |
| Well Diameter (in.)<br><b>4</b>     | LHC Present?<br><input type="checkbox"/> Yes <input type="checkbox"/> No | LHC Thickness  |

|   | Time         | pH Probe No. | Temp. Probe No. | Cond. Probe No. |
|---|--------------|--------------|-----------------|-----------------|
| 1 | <b>1700</b>  | <b>2</b>     | <b>78.2</b>     | <b>772</b>      |
| 2 | <b>1704</b>  | <b>—</b>     | <b>72.9</b>     | <b>685</b>      |
| 3 | <b>17:08</b> | <b>—</b>     | <b>72.2</b>     | <b>692</b>      |
| 4 | <b>17:12</b> | <b>—</b>     | <b>72.4</b>     | <b>699</b>      |
| 5 | _____        | _____        | _____           | _____           |
| 6 | _____        | _____        | _____           | _____           |

|  |   |  |
|--|---|--|
| Initial Height of Water in Casing (ft.)<br><b>29.50</b>  | Well Volume Conversions   | Sampling Equipment<br>Dedicated System <input type="checkbox"/> Bladder Pump <input type="checkbox"/> Bailer<br>PVC Bailer <input type="checkbox"/> 1/2 inch<br>Teflon " <input type="checkbox"/> 1 1/4 inch <input type="checkbox"/> 3 inch<br>Sampling Port No.<br>Volume _____ Rate (gpm) _____ |
| Volume (gal)<br><b>24.28</b>   | 2" casing = 0.163 gal/ft<br>3" casing = 0.367 gal/ft<br>4" casing = 0.653 gal/ft<br>4.5" casing = 0.826 gal/ft<br>6" casing = 1.470 gal/ft<br>8" casing = 2.610 gal/ft<br>10" casing = 4.080 gal/ft |  |
| Volume to be Evacuated<br><input checked="" type="checkbox"/> x 3 <input type="checkbox"/> x 4<br><b>72.84</b> |   |  |

|  |   |
|--|---|
| Point of Collection<br><input type="checkbox"/> PE Hose <input type="checkbox"/> End of Bailer <input type="checkbox"/> Other: | Time Samples Taken<br><b>12:17</b><br>Date<br><b>7-7-98</b><br>Depth to Water (ft)<br>Refrigerated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|--|---|

Sample Color **NONE** Odor **SULFUR**

Sediment/Foreign Matter **NONE**

| Sample ID Number | Volume    | Time         | Preservative | Analysis | Lab        |
|------------------|-----------|--------------|--------------|----------|------------|
| <b>EA-1</b>      | <b>2V</b> | <b>17:12</b> | <b>HCL</b>   | <b>1</b> | <b>MeC</b> |
| _____            | _____     | _____        | _____        | _____    | _____      |
| _____            | _____     | _____        | _____        | _____    | _____      |
| _____            | _____     | _____        | _____        | _____    | _____      |

| Evacuation      | Evacuated        | Evacuated | Evacuated | Evacuated |
|-----------------|------------------|-----------|-----------|-----------|
| Stop Time       | <b>17:16</b>     | _____     | _____     | _____     |
| Start Time      | <b>16:58</b>     | _____     | _____     | _____     |
| Minutes         | <b>18</b>        | _____     | _____     | _____     |
| Am't Evacuated  | <b>30</b>        | _____     | _____     | _____     |
| Total Evacuated | <b>30</b> gal    | _____     | _____     | _____     |
| Total Minutes   | <b>18</b> min    | _____     | _____     | _____     |
| Evacuation Rate | <b>30/18</b> gpm | _____     | _____     | _____     |

Container Codes: P = Plastic Bottle, V = VOA, B = Brown Glass, C = Clear Glass, ml = milliliter, L = liter

|  |                                |  |
|--|--------------------------------|--|
| Pumped Dry?<br><input type="checkbox"/> Yes <input type="checkbox"/> No            | After (gal)                    | Recovery   |
| Depth to Water During Pumping (ft)   | Time                           | Time _____ Depth to Water _____                          |
| Depth to Water for 80% Recovery  | Recovery Rate (gpm)            | 1. _____<br>2. _____<br>3. _____<br>4. _____<br>5. _____ |
| Sampled After:<br><input type="checkbox"/> 80% Rec. <input type="checkbox"/> 2 hrs | % Recovery at Time of Sampling |  |

Notes:

# WATER SAMPLING DATA FORM

PARKER ENVIRONMENTAL SERVICES

|   |                                 |                          |                       |      |                           |                  |                |
|---|---------------------------------|--------------------------|-----------------------|------|---------------------------|------------------|----------------|
| Project Name<br><b>DUBLIN AUTO WASH</b> | Project No.<br><b>192-03-03</b> | Well Name<br><b>EA-2</b> | Date<br><b>7-7-98</b> | Time | Name<br><i>Jim Parker</i> | Page<br><b>5</b> | of<br><b>5</b> |
|---|---------------------------------|--------------------------|-----------------------|------|---------------------------|------------------|----------------|

|                                     |   |  |
|-------------------------------------|---|--|
| Well Depth (ft.)<br><b>40</b>       | Sounded Depth (ft.)<br><b>38.96</b>   | Sampling Equipment<br><input type="checkbox"/> Monitoring Well<br><input type="checkbox"/> Sampling Point<br><input type="checkbox"/> Other (describe) |
| Depth to Water (ft.)<br><b>8.52</b> | Date/Time<br><b>7-7-98 13:14</b>  |  |
| Well Diameter (in.)<br><b>4</b>     | LHC Present?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | LHC Thickness  |

|   | Time         | pH Probe No. | Temp. Probe No. | Cond. Probe No. |
|---|--------------|--------------|-----------------|-----------------|
| 1 | <b>14:41</b> | <b>6.49</b>  | <b>76.2</b>     | <b>1980</b>     |
| 2 | <b>14:46</b> | <b>7.21</b>  | <b>72.2</b>     | <b>1110</b>     |
| 3 | <b>14:50</b> | <b>7.22</b>  | <b>72.2</b>     | <b>1218</b>     |
| 4 | <b>14:54</b> | <b>9.61</b>  | <b>70.7</b>     | <b>888</b>      |
| 5 |              |              |                 |                 |
| 6 |              |              |                 |                 |

|  |  |   |            |
|--|--|---|------------|
| Initial Height of Water in Casing (ft.)<br><b>30.44</b>  | Well Volume Conversions<br>2" casing = 0.163 gal/ft<br>3" casing = 0.367 gal/ft<br>4" casing = 0.653 gal/ft<br>4.5" casing = 0.826 gal/ft<br>6" casing = 1.470 gal/ft<br>8" casing = 2.610 gal/ft<br>10" casing = 4.080 gal/ft | Sampling Equipment<br>Dedicated System <input type="checkbox"/> Bladder Pump System <input type="checkbox"/> Bailer<br>PVC Bailer <input type="checkbox"/> 1/2 inch<br>Teflon " <input type="checkbox"/> 1 1/4 inch <input type="checkbox"/> 3 inch |            |
| Volume (gal)<br><b>24.78</b>   |  | Sampling Port No.   |            |
| Volume to be evacuated<br><input checked="" type="checkbox"/> x 3 <input type="checkbox"/> x 4<br><b>73.44</b> |  | Volume  | Rate (gpm) |

|  |                                      |  |
|--|--------------------------------------|--|
| Point of Collection<br><input type="checkbox"/> PE Hose <input type="checkbox"/> End of Bailer <input type="checkbox"/> Other: | Time Samples Taken<br><b>14:58</b>   | Date<br><b>7/7/98</b>  |
|  | Depth to Water (ft.)<br><b>14.40</b> | Refrigerated?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

|                 |                |              |              |              |
|-----------------|----------------|--------------|--------------|--------------|
| Evacuation      | Evacuated      | Evacuated    | Evacuated    | Evacuated    |
| Stop Time       | <b>14:41</b>   | <b>14:46</b> | <b>14:50</b> | <b>14:54</b> |
| Start Time      | <b>14:39</b>   | <b>14:44</b> | <b>14:48</b> | <b>14:52</b> |
| Minutes         | <b>2</b>       | <b>2</b>     | <b>2</b>     | <b>2</b>     |
| Amt Evacuated   | <b>3</b>       | <b>3</b>     | <b>3</b>     | <b>3</b>     |
| Total Evacuated | <b>12 gal</b>  |              |              |              |
| Total Minutes   | <b>8 min</b>   |              |              |              |
| Evacuation Rate | <b>1.5 gpm</b> |              |              |              |

**45 gal TOTAL**

|  |      |
|--|------|
| Sample Color<br><b>C/R</b>             | Odor |
| Sediment/Foreign Matter<br><b>NONE</b> |      |

| Sampling Sequence |           |              |              |          |            |
|-------------------|-----------|--------------|--------------|----------|------------|
| Sample ID Number  | Volume    | Time         | Preservative | Analysis | Lab        |
| <b>EA-2</b>       | <b>2V</b> | <b>14:58</b> | <b>HCL</b>   | <b>1</b> | <b>MxC</b> |
|                   |           |              |              |          |            |
|                   |           |              |              |          |            |
|                   |           |              |              |          |            |

|                 |                               |                                    |                                    |           |
|-----------------|-------------------------------|------------------------------------|------------------------------------|-----------|
| Container Codes | P = Plastic Bottle<br>V = VOA | B = Brown Glass<br>C = Clear Glass | ml = milliliter<br>Other: describe | L = liter |
|-----------------|-------------------------------|------------------------------------|------------------------------------|-----------|

|  |                                |          |                |
|--|--------------------------------|----------|----------------|
| Pumped Dry?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | After (gal)                    | Recovery |                |
| Depth to Water During Pumping (ft)   | Time                           | Time     | Depth to Water |
|  |                                | 1. _____ | _____          |
|  |                                | 2. _____ | _____          |
|  |                                | 3. _____ | _____          |
|  |                                | 4. _____ | _____          |
|  |                                | 5. _____ | _____          |
| Depth to Water for 80% Recovery  | Recovery Rate (gpm)            |          |                |
|  |                                |          |                |
| Sampled After:<br><input type="checkbox"/> 80% Rec. <input type="checkbox"/> 2 hr  | % Recovery at Time of Sampling |          |                |

Notes:



Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

| DATE                    | Well Head Elevation | Ground Water Elevation | Depth To Water | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | MTBE | 1,2-DCA |
|-------------------------|---------------------|------------------------|----------------|-------|--------------|---------|---------|---------------|---------|------|---------|
| <b>EA-1 (CONTINUED)</b> |                     |                        |                |       |              |         |         |               |         |      |         |
| 03/02/95                | 333.03              | 321.07                 | 9.96           | --    | 6900         | 82      | 570     | 210           | 970     | --   | --      |
| 06/15/95                | 333.03              | 321.23                 | 9.80           | --    | 4800         | 44      | 210     | 160           | 620     | <25  | --      |
| 09/26/95                | 333.03              | 320.55                 | 10.48          | --    | 13,000       | 150     | 620     | 370           | 1400    | <125 | --      |
| 12/28/95                | 333.03              | 320.89                 | 10.14          | --    | 11,000       | 74      | 250     | 200           | 750     | 79   | --      |
| 02/29/96                | 333.03              | 322.29                 | 8.74           | --    | 17,000       | 59      | 480     | 350           | 1600    | <125 | --      |
| 06/27/96                | 333.03              | 320.82                 | 10.21          | --    | 3600         | 22      | 130     | 130           | 49      | 46   | --      |
| 09/12/96                | 333.03              | 320.72                 | 10.49          | --    | 2000         | 20      | <10     | 18            | 44      | <50  | --      |
| 03/31/97                | 333.21              | 321.02                 | 10.19          | --    | 17,000       | 87      | 230     | 330           | 1200    | 310  | --      |
| 07/07/98                | 333.21              | 321.37                 | 9.84           | --    | 5000         | 60      | 150     | 220           | 850     | <130 | --      |

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

| DATE        | Well Head Elevation | Ground Water Elevation | Depth To Water | Notes       | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | MTBE | 1,2-DCA |
|-------------|---------------------|------------------------|----------------|-------------|--------------|---------|---------|---------------|---------|------|---------|
| <b>EA-2</b> |                     |                        |                |             |              |         |         |               |         |      |         |
| 10/17/88    | 332.59              | --                     | --             | --          | <50          | <0.5    | <0.5    | <0.5          | 1.2     | --   | --      |
| 10/24/88    | 332.59              | 322.89                 | 9.70           | Gauging     | --           | --      | --      | --            | --      | --   | --      |
| 11/02/88    | 332.59              | 322.56                 | 10.03          | Gauging     | --           | --      | --      | --            | --      | --   | --      |
| 12/20/88    | 332.59              | 322.61                 | 9.98           | --          | <50          | <0.5    | <0.5    | <0.5          | <0.5    | --   | --      |
| 03/28/89    | 332.59              | 323.79                 | 8.80           | --          | <250         | <0.5    | <0.5    | <0.5          | <0.5    | --   | --      |
| 08/02/89    | 332.59              | 323.15                 | 9.44           | --          | <50          | <0.1    | <0.1    | <0.1          | <0.1    | --   | <0.1    |
| 11/06/89    | 332.59              | 323.06                 | 9.53           | --          | <500         | <3.0    | <5.0    | <5.0          | <5.0    | --   | <5.0    |
| 01/25/90    | 332.59              | 323.32                 | 9.27           | --          | <50          | <0.5    | <0.5    | <0.5          | <0.5    | --   | --      |
| 04/23/90    | 332.59              | 323.24                 | 9.35           | --          | 71           | 2.0     | 5.0     | 3.0           | 8.0     | --   | --      |
| 08/01/90    | 332.59              | 322.88                 | 9.71           | --          | 300          | 86      | 21      | 10            | 33      | --   | --      |
| 10/24/90    | 332.59              | 322.51                 | 10.08          | --          | 280          | 69      | 13      | 11            | 16      | --   | --      |
| 01/31/91    | 332.59              | 322.38                 | 10.21          | --          | 460          | 160     | 11      | 17            | 17      | --   | --      |
| 01/31/91    | 332.59              | --                     | --             | Duplicate   | 2400         | 400     | 220     | 44            | 120     | --   | --      |
| 08/21/91    | 332.59              | 322.79                 | 9.80           | --          | 2300         | 390     | 210     | 42            | 120     | --   | --      |
| 10/07/91    | 332.59              | 322.61                 | 9.98           | Not Sampled | --           | --      | --      | --            | --      | --   | --      |
| 01/28/92    | 332.59              | 322.78                 | 9.81           | --          | 3600         | 320     | 360     | 110           | 310     | --   | --      |
| 06/05/92    | 332.59              | 322.73                 | 9.86           | --          | 1700         | 290     | 89      | 61            | 130     | --   | --      |
| 09/30/92    | 332.59              | 322.99                 | 10.60          | --          | 2100         | 160     | 260     | 80            | 350     | --   | --      |
| 12/30/92    | 332.59              | 323.48                 | 9.11           | --          | 3200         | 240     | 180     | 110           | 310     | --   | --      |
| 03/29/93    | 332.59              | 324.86                 | 7.73           | --          | 23,000       | 700     | 3000    | 610           | --      | --   | --      |
| 06/25/93    | 332.59              | 323.37                 | 9.22           | --          | 2700         | 130     | 590     | 130           | 590     | --   | --      |
| 09/16/93    | 332.59              | 322.59                 | 10.00          | --          | 3900         | 410     | 830     | 220           | 890     | --   | --      |
| 12/20/93    | 332.59              | 322.21                 | 9.38           | --          | 27,000       | 1200    | 2600    | 1100          | 4200    | --   | --      |
| 03/29/94    | 332.59              | 323.29                 | 9.30           | --          | 6300         | 250     | 700     | 200           | 830     | --   | --      |
| 06/22/94    | 332.59              | 323.10                 | 9.49           | --          | 4100         | 71      | 240     | 110           | 460     | <30  | <10     |
| 09/26/94    | 332.59              | 322.87                 | 9.72           | --          | 8500         | 1200    | 1300    | 370           | 1400    | --   | --      |
| 10/04/94    | 332.59              | 323.01                 | 9.58           | --          | 7600         | 97      | 360     | 150           | 620     | --   | --      |
| 11/30/94    | 332.59              | 323.89                 | 8.74           | --          | 8800         | 180     | 490     | 240           | 900     | --   | --      |

CONTINUED ON NEXT PAGE

### Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

| DATE                    | Well Head Elevation | Ground Water Elevation | Depth To Water | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | MTBE | 1,2-DCA |
|-------------------------|---------------------|------------------------|----------------|-------|--------------|---------|---------|---------------|---------|------|---------|
| <b>EA-2 (Continued)</b> |                     |                        |                |       |              |         |         |               |         |      |         |
| 03/02/95                | 330.21              | 321.67                 | 8.54           | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5    | --   | --      |
| 06/07/95                | 330.21              | 321.79                 | 8.42           | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5    | <2.5 | --      |
| 09/26/95                | 330.21              | 320.87                 | 9.34           | --    | 540          | 6.8     | <0.5    | 47            | 29      | 13   | --      |
| 12/28/95                | 330.21              | 321.37                 | 8.84           | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5    | <2.5 | --      |
| 02/29/96                | 330.21              | 322.77                 | 7.44           | --    | <50          | <0.5    | <0.5    | <0.5          | 1.5     | <2.5 | --      |
| 06/27/96                | 330.21              | 321.38                 | 8.83           | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5    | <2.5 | --      |
| 09/12/96                | 330.41              | 321.01                 | 9.40           | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5    | <2.5 | --      |
| 03/31/97                | 330.41              | 321.30                 | 9.11           | --    | <50          | <0.5    | <0.5    | <0.5          | <0.5    | <2.5 | --      |
| 07/07/98                | 330.41              | 321.89                 | 8.52           | --    | <50          | <5.0    | <0.5    | <0.5          | <0.5    | <0.5 | --      |

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

| DATE        | Well Head Elevation | Ground Water Elevation | Depth To Water | Notes       | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | MTBE | 1,2-DCA |
|-------------|---------------------|------------------------|----------------|-------------|--------------|---------|---------|---------------|---------|------|---------|
| <b>EA-3</b> |                     |                        |                |             |              |         |         |               |         |      |         |
| 10/17/88    | 333.64              | --                     | --             | --          | <50          | 1.8     | <0.5    | <0.5          | 3       | --   | --      |
| 10/24/88    | 333.64              | 322.61                 | 11.03          | Gauging     | --           | --      | --      | --            | --      | --   | --      |
| 11/02/88    | 333.64              | 322.61                 | 11.03          | Gauging     | --           | --      | --      | --            | --      | --   | --      |
| 12/20/88    | 333.64              | 322.68                 | 10.96          | --          | 240          | 90      | 1.2     | 13            | 3.3     | --   | --      |
| 03/28/89    | 333.64              | 322.87                 | 9.77           | --          | 2300         | 380     | 130     | 240           | 910     | --   | --      |
| 08/02/89    | 333.64              | 322.99                 | 10.65          | --          | <50          | <0.1    | <0.1    | <0.1          | <0.1    | --   | <0.1    |
| 11/06/89    | 333.64              | 322.86                 | 10.78          | --          | <500         | <3.0    | <5.0    | <5.0          | <5.0    | --   | <5.0    |
| 01/25/90    | 333.64              | 322.98                 | 10.66          | --          | <50          | <0.5    | <0.5    | <0.5          | <0.5    | --   | <0.5    |
| 04/23/90    | 333.64              | 322.96                 | 10.68          | --          | <50          | 0.8     | <0.5    | 0.9           | <0.5    | --   | <0.5    |
| 08/01/90    | 333.64              | 322.61                 | 11.03          | --          | <50          | <0.5    | <0.5    | <0.5          | <0.5    | --   | --      |
| 10/24/90    | 333.64              | 322.29                 | 11.35          | --          | <50          | <0.5    | <0.5    | <0.5          | <0.5    | --   | --      |
| 01/31/91    | 333.64              | 322.12                 | 11.52          | --          | <50          | <0.5    | <0.5    | <0.5          | <0.5    | --   | --      |
| 08/21/90    | 333.64              | --                     | --             | Not Sampled | --           | --      | --      | --            | --      | --   | --      |
| 10/07/91    | 333.64              | 322.49                 | 11.15          | --          | 180          | 40      | 20      | 4.7           | 8.4     | --   | --      |
| 10/07/91    | 333.64              | --                     | --             | Duplicate   | 200          | 43      | 17      | 4.1           | 6.7     | --   | --      |
| 01/28/92    | 333.64              | 322.12                 | 11.08          | --          | 640          | 69      | 85      | 13            | 46      | --   | --      |
| 06/05/92    | 333.64              | 322.66                 | 10.98          | --          | 250          | 63      | 8.3     | 3.0           | 9.5     | --   | --      |
| 09/30/92    | 333.64              | 322.26                 | 11.38          | --          | 330          | 120     | 33      | 6.3           | 22      | --   | --      |
| 12/30/92    | 333.64              | 323.16                 | 10.48          | --          | 58           | 7.6     | 1.3     | 2.5           | 5.4     | --   | --      |
| 03/29/93    | 333.64              | 324.34                 | 9.30           | --          | 120          | 11      | 4.5     | 6.2           | 13      | --   | --      |
| 06/25/93    | 333.64              | 323.18                 | 10.46          | --          | <50          | <0.5    | <0.5    | <0.5          | <1.5    | --   | --      |
| 09/16/93    | 333.64              | 322.74                 | 10.90          | --          | 85           | 3.9     | 8.8     | 4.5           | 22      | --   | --      |
| 12/20/93    | 333.64              | 322.98                 | 10.66          | --          | 190          | 12      | 12      | 13            | 50      | --   | --      |
| 03/29/94    | 333.64              | 323.14                 | 10.50          | --          | <50          | <0.5    | 1.2     | <0.5          | 0.9     | --   | --      |
| 06/22/94    | 333.64              | 323.00                 | 10.64          | --          | <50          | <0.5    | <0.5    | <0.5          | <0.5    | <3.0 | <1.0    |
| 09/26/94    | 333.64              | 322.92                 | 10.72          | --          | <50          | <0.5    | <0.5    | <0.5          | <0.5    | --   | --      |
| 10/04/94    | 333.64              | 322.96                 | 10.68          | --          | <50          | <0.5    | <0.5    | <0.5          | 0.7     | --   | --      |
| 11/30/94    | 333.64              | 323.98                 | 9.66           | --          | 170          | 6.1     | 3.0     | 6.5           | 28      | --   | --      |

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Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

| DATE                    | Well Head Elevation | Ground Water Elevation | Depth To Water | Notes        | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | MTBE | 1,2-DCA |
|-------------------------|---------------------|------------------------|----------------|--------------|--------------|---------|---------|---------------|---------|------|---------|
| <b>EA-3 (Continued)</b> |                     |                        |                |              |              |         |         |               |         |      |         |
| 03/02/95                | 331.30              | 321.38                 | 9.92           | --           | <50          | <0.5    | <0.5    | <0.5          | <0.5    | --   | --      |
| 06/07/95                | 331.30              | 321.58                 | 9.72           | --           | <50          | <0.5    | <0.5    | <0.5          | <0.5    | 3.2  | --      |
| 09/26/95                | 331.30              | 320.70                 | 10.60          | --           | 2000         | 140     | <5.0    | <5.0          | 190     | 280  | --      |
| 12/28/95                | 331.30              | 321.48                 | 9.82           | --           | <50          | <0.5    | <0.5    | <0.5          | <0.5    | 26   | --      |
| 02/29/96                | 331.30              | 323.02                 | 8.28           | --           | <50          | 2.1     | <0.5    | 2.5           | 6.0     | 31   | --      |
| 06/27/96                | 331.30              | 321.39                 | 9.91           | --           | <50          | <0.5    | <0.5    | <0.5          | <0.5    | <2.5 | --      |
| 09/12/96                | 331.50              | 320.91                 | 10.59          | --           | 13,000       | <20     | <20     | <20           | <20     | 48   | --      |
| 03/31/97                | 331.50              | --                     | --             | Inaccessible | --           | --      | --      | --            | --      | --   | --      |
| 04/15/97                | 331.50              | 321.25                 | 10.25          | --           | <125         | 2.0     | <1.2    | <1.2          | <1.2    | 680  | --      |
| 07/07/98                | 331.50              | --                     | --             | Inaccessible | --           | --      | --      | --            | --      | --   | --      |

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

| DATE        | Well Head Elevation | Ground Water Elevation | Depth To Water | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | MTBE | 1,2-DCA |
|-------------|---------------------|------------------------|----------------|-------|--------------|---------|---------|---------------|---------|------|---------|
| <b>MW-1</b> |                     |                        |                |       |              |         |         |               |         |      |         |
| 10/04/94    | 333.56              | 320.76                 | 12.80          | --    | 2100         | 150     | 170     | 61            | 320     | --   | --      |
| 11/30/94    | 333.56              | 321.18                 | 12.38          | --    | 1500         | 210     | 17      | 73            | 130     | --   | --      |
| 03/02/95    | 333.56              | 320.68                 | 12.88          | --    | 2600         | 510     | <10     | 160           | <10     | --   | --      |
| 06/07/95    | 333.56              | 320.98                 | 12.58          | --    | 710          | 160     | <2.0    | 45            | <2.0    | <10  | --      |
| 09/26/95    | 333.56              | 320.41                 | 13.15          | --    | 1100         | 140     | 1.4     | 92            | 1.8     | <5.0 | --      |
| 12/28/95    | 333.56              | 320.47                 | 13.09          | --    | 750          | 96      | 2.5     | 61            | 7.4     | 37   | --      |
| 02/29/96    | 333.56              | 321.39                 | 12.17          | --    | 250          | 17      | <0.5    | 18            | 0.81    | 9.0  | --      |
| 06/27/96    | 333.56              | 320.61                 | 12.95          | --    | 710          | 72      | <2.0    | 92            | 2.2     | <10  | --      |
| 09/12/96    | 333.66              | 320.55                 | 13.11          | --    | 300          | 53      | <0.5    | 32            | 0.65    | 21   | --      |
| 03/31/97    | 333.66              | 320.67                 | 12.99          | --    | <200         | 4.1     | <2.0    | 4.8           | <2.0    | 640  | --      |
| 07/07/98    | 333.66              | 321.21                 | 12.45          | --    | 65           | 1.4     | 1.6     | ND            | ND      | 700  | --      |

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

| DATE        | Well Head Elevation | Ground Water Elevation | Depth To Water | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | MTBE | 1,2-DCA |
|-------------|---------------------|------------------------|----------------|-------|--------------|---------|---------|---------------|---------|------|---------|
| <b>MW-2</b> |                     |                        |                |       |              |         |         |               |         |      |         |
| 10/04/94    | 329.18              | 320.62                 | 8.56           | --    | 2300         | 160     | 280     | 96            | 480     | --   | --      |
| 11/30/94    | 329.18              | 320.85                 | 8.33           | --    | 1600         | 170     | 16      | 110           | 120     | --   | --      |
| 03/02/95    | 329.18              | 320.83                 | 8.35           | --    | 1200         | 220     | 5.6     | 140           | 36      | --   | --      |
| 06/07/95    | 329.18              | 320.56                 | 8.62           | --    | 160          | 25      | <0.5    | 16            | <0.5    | 240  | --      |
| 09/26/95    | 329.18              | 320.47                 | 8.71           | --    | 150          | 15      | <0.5    | 7.2           | <0.5    | 120  | --      |
| 12/28/95    | 329.18              | 320.40                 | 8.78           | --    | 400          | 34      | 1.3     | 26            | 5.1     | 170  | --      |
| 02/29/96    | 329.18              | 321.36                 | 7.82           | --    | 120          | 29      | <0.5    | <0.5          | <0.5    | 790  | --      |
| 06/27/96    | 329.18              | 320.46                 | 8.72           | --    | 150          | 13      | <0.5    | 7.0           | <0.5    | 850  | --      |
| 09/12/96    | 329.29              | 320.48                 | 8.81           | --    | <1000        | 18      | <10     | <10           | <10     | 3100 | --      |
| 03/31/97    | 329.29              | 320.64                 | 8.65           | --    | <500         | <5.0    | <5.0    | <5.0          | <5.0    | 1400 | --      |
| 07/07/98    | 329.29              | 321.08                 | 8.21           | --    | <50          | 5.0     | <5.0    | <5.0          | <5.0    | 1100 | --      |

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

| DATE        | Well Head Elevation | Ground Water Elevation | Depth To Water | Notes | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | MTBE    | 1,2-DCA |
|-------------|---------------------|------------------------|----------------|-------|--------------|---------|---------|---------------|---------|---------|---------|
| <b>MW-3</b> |                     |                        |                |       |              |         |         |               |         |         |         |
| 10/04/94    | 332.73              | 320.67                 | 12.06          | --    | 6300         | 610     | 750     | 68            | 670     | --      | --      |
| 11/30/94    | 332.73              | 321.35                 | 11.38          | --    | 17,000       | 3600    | 490     | 430           | 610     | --      | --      |
| 03/02/95    | 332.73              | 320.76                 | 11.97          | --    | 8500         | 2200    | <50     | 240           | <50     | 64,000  | --      |
| 06/07/95    | 332.73              | 321.19                 | 11.54          | --    | 3000         | 710     | 18      | 220           | 44      | 3100    | --      |
| 09/26/95    | 332.73              | 320.37                 | 12.36          | --    | <10,000      | 230     | <100    | 130           | <100    | 64,000  | --      |
| 12/28/95    | 332.73              | 320.66                 | 12.07          | --    | <12,500      | 760     | <125    | <125          | <125    | 100,000 | --      |
| 02/29/96    | 332.73              | 320.72                 | 11.01          | --    | 1600         | 380     | <10     | 84            | 17      | 33,000  | --      |
| 06/27/96    | 332.73              | 320.80                 | 11.93          | --    | 1400         | <2.5    | 4.3     | 130           | 4.0     | 96,000  | --      |
| 09/12/96    | 332.86              | 320.60                 | 12.26          | --    | <10,000      | 560     | <100    | 110           | <100    | 100,000 | --      |
| 03/31/97    | 332.86              | 320.82                 | 12.04          | --    | <25,000      | 1200    | 370     | <250          | 380     | 130,000 | --      |
| 07/07/98    | 332.86              | 321.24                 | 11.62          | --    | 7400         | 1100    | 490     | 270           | 850     | 150,000 | --      |



Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

| DATE        | Well Head Elevation | Ground Water Elevation | Depth To Water | Notes        | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | MTBE | 1,2-DCA |
|-------------|---------------------|------------------------|----------------|--------------|--------------|---------|---------|---------------|---------|------|---------|
| <b>MW-4</b> |                     |                        |                |              |              |         |         |               |         |      |         |
| 03/01/96    | 332.64              | 322.74                 | 9.90           | --           | <50          | <0.5    | <0.5    | <0.5          | <0.5    | <2.5 | --      |
| 04/02/96    | 332.64              | 322.87                 | 9.77           | --           | --           | --      | --      | --            | --      | --   | --      |
| 06/27/96    | 332.64              | 322.64                 | 10.00          | --           | <50          | <0.5    | <0.5    | <0.5          | <0.5    | <2.5 | --      |
| 09/12/96    | 332.63              | 320.96                 | 11.67          | --           | <50          | <0.5    | <0.5    | <0.5          | <0.5    | 3.5  | --      |
| 03/31/97    | 332.63              | 322.04                 | 10.59          | --           | <50          | <0.5    | <0.5    | <0.5          | <0.5    | <2.5 | --      |
| 07/07/98    | 332.63              | 322.47                 | 10.16          | Measure Only |              |         |         |               |         |      |         |

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

| DATE        | Well Head Elevation | Ground Water Elevation | Depth To Water | Notes        | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | MTBE | 1,2-DCA |
|-------------|---------------------|------------------------|----------------|--------------|--------------|---------|---------|---------------|---------|------|---------|
| <b>MW-5</b> |                     |                        |                |              |              |         |         |               |         |      |         |
| 03/01/96    | 333.20              | 322.58                 | 10.62          | --           | <50          | <0.5    | <0.5    | <0.5          | <0.5    | <2.5 | --      |
| 04/02/96    | 333.20              | 323.06                 | 10.14          | --           | --           | --      | --      | --            | --      | --   | --      |
| 06/27/96    | 333.20              | 322.98                 | 10.22          | --           | <50          | <0.5    | <0.5    | <0.5          | <0.5    | <2.5 | --      |
| 09/12/96    | 333.04              | 322.19                 | 10.85          | --           | <50          | <0.5    | <0.5    | <0.5          | <0.5    | <2.5 | --      |
| 03/31/97    | 333.04              | 322.60                 | 10.44          | --           | <50          | <0.5    | <0.5    | <0.5          | <0.5    | <2.5 | --      |
| 07/07/98    | 333.04              | 322.71                 | 10.33          | Measure Only |              |         |         |               |         |      |         |